

# Extra Virgin Olive Oil Quality control by Plasmonic Transducers

Volume 8 • Issue 3 | September 2020

Article

# Application of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ (Bst) Film Doped with 0%, 2%, 4% and 6% Concentrations of $\text{RuO}_2$ as an Arduino Nano-Based Bad Breath Sensor

Irzaman <sup>1,\*</sup>, Ridwan Siskandar <sup>2</sup>, Brian Yulianto <sup>3</sup> , Mochammad Zakki Fahmi <sup>4</sup> and Ferdiansjah <sup>5</sup>

<sup>1</sup> Physics Department, IPB University, Bogor, West Java 16680, Indonesia

<sup>2</sup> Computer Engineering Study Program, College of Vocational Studies, IPB University, Bogor, West Java 16151, Indonesia; ridwansiskandar@gmail.com or ridwansiskandar@apps.ipb.ac.id

<sup>3</sup> Engineering Physics Department, Bandung Institute of Technology, Bandung, West Java 40132, Indonesia; brian@tf.itb.ac.id

<sup>4</sup> Chemistry Department, Airlangga University, Surabaya, East Java 60115, Indonesia; m.zakki.fahmi@fst.unair.ac.id

<sup>5</sup> Nuclear and Technical Physics Department, Gadjah Mada University, Yogyakarta 55281, Indonesia; ferdiansjah@ugm.ac.id

\* Correspondence: irzaman@apps.ipb.ac.id

Received: 16 October 2019; Accepted: 13 December 2019; Published: 25 December 2019



**Abstract:**  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  (BST) film doped with variations in  $\text{RuO}_2$  concentration (0%, 2%, 4%, and 6%) has been successfully grown on a type-p silicon substrate (100) using the chemical solution deposition (CSD) method and spin-coating at a speed of 3000 rpm for 30 s. The film on the substrate was then heated at 850 °C for 15 h. The sensitivity of BST film +  $\text{RuO}_2$  variations as a gas sensor were characterized. The sensitivity characterization was assisted by various electronic circuitry with the purpose of producing a sensor that is very sensitive to gas. The responses from the BST film +  $\text{RuO}_2$  variation were varied, depending on the concentration of the  $\text{RuO}_2$  dope. BST film doped with 6%  $\text{RuO}_2$  had a very good response to halitosis gases; therefore, this film was applied as the Arduino-Nano-based bad-breath detecting sensor. Before it was integrated with the microcontroller, the voltage output of the BST film was amplified using an op-amp circuit to make the voltage output from the BST film readable to the microcontroller. The changes in the voltage response were then shown on the prototype display. If the voltage output was  $\leq 12.9$  mV, the display would read “bad breath”. If the voltage output  $> 42.1$  mV, the display would read “fragrant”. If  $12.9$  mV  $<$  voltage output  $\leq 42.1$  mV, the display would read “normal”.

**Keywords:**  $\text{Ba}_{0.55}\text{Sr}_{0.45}\text{TiO}_3$  (BST) film;  $\text{RuO}_2$ ; bad breath gas sensor; op-amp; Arduino Nano

## 1. Introduction

Halitosis is a general term to describe the presence of an unpleasant odor when exhaling [1]. Halitosis is caused by food debris left in the mouth, which is processed by the normal flora in the oral cavity, such as protein hydrolysis by Gram-negative bacteria [2,3]. Oral conditions such as the decreased flow of saliva, the blocked flow of saliva, the increase in the number of anaerobic Gram-negative bacteria, the increase in food proteins, a more-alkaline oral cavity pH, and an increased number of dead and necrotic cells in the mouth could also trigger bad breath [4].

The discovery of volatile sulfur compounds (VSCs) which are believed to be the main cause of halitosis has piqued the interest of many researchers in conducting studies related to them. VSCs are a product of anaerobic bacterial activities and react with protein in the mouth from food debris that contains protein, dead blood cells, dead bacteria, or epithelial cells which have sloughed off

the oral mucosa [1]. VSCs are volatile sulfuric compounds which are formed through bacterial reactions (especially anaerobic bacteria) with proteins, which are broken down into amino acids. There are three amino acids that produce VSCs, cysteine, which produces hydrogen sulfide ( $H_2S$ ), methionine, which produces methyl mercaptan ( $CH_3SH$ ), and cystine, which produces dimethyl Sulfide ( $CH_3SCH_3$ ) [5].

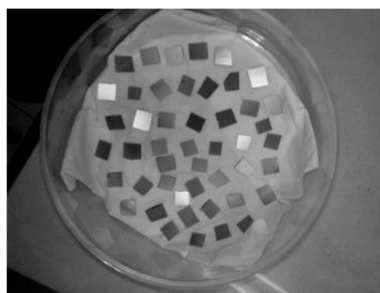
Ferroelectric materials have the ability to change the direction of their internal electric currents, can be spontaneously polarized, and demonstrate a hysteresis effect which is related to dielectric shifts in responding to the internal electric field [1–3]. The hysteresis properties and high dielectric constant can be applied to the dynamic random access memory (DRAM) cell with a storage capacity of over 1 Gbit; the piezoelectric properties can be utilized as a microactuator and sensor; the pyroelectric properties can be applied in the infrared sensor; the electro-optic properties can be applied in the infrared thermal switch; and the polarizability can be applied as a non-volatile ferroelectric random access memory (NVFRAM) [6–8].

BST film can be produced using fairly simple equipment on a tight budget and in relatively short time [9–11]. In the film-producing process, there are a number of methods that could be used such as the metalorganic chemical vapor deposition (MOCVD) method [12–14], the chemical vapor deposition method [15], the sol-gel method [16–19], the atomic layer deposition (ALD) method [20], the pulsed laser ablation deposition (PLAD) method [21,22], rf sputtering [17,23,24], and chemical solution deposition (CSD) method [24–31]. The CSD method is superior as it can control the film stoichiometry with good quality, an easy procedure, and has a fairly affordable cost [32–34]. The CSD method is a method of making thin films by deposition of a chemical solution onto a substrate then preparation through spin-coating at a certain rotational speed [35]. The CSD method has long been developed for growing thin film perovskite, since the 1980s [36].

## 2. Research Method

### 2.1. Preparation of the Type-p Silicon (100) Substrate

The substrate used was type-p silicon (100). The substrate was cut into 4 squares sized  $1 \times 1$  cm as seen in Figure 1. After cutting, the substrate was washed with 5% hydrofluoric acid (HF) mixed with 2% aquadest [37].



**Figure 1.** The type-p silicon (100) substrate cut into  $1 \times 1$  cm<sup>2</sup> squares.

### 2.2. Preparation of the $Ba_{0.5}Sr_{0.5}TiO_3$ Film Doped with $RuO_2$ Solution

The  $Ba_{0.5}Sr_{0.5}TiO_3$  solution doped with  $RuO_2$  0%, 2%, 4% and 6% grown on the substrate using the CSD method was made from 0.3512 g of barium acetate [ $Ba(CH_3COOH)_2$ , 99%], 0.2314 g of strontium acetate [ $Sr(CH_3COOH)_2$ , 99%], 0.7105 g of titanium isopropoxide [ $Ti(C_{12}O_4H_{28})$ , 99%], and 2.5 mL of 2-methoxyethanol [ $H_3COOCH_2CH_2OH$ , 99%] as the solvent, and all the ingredients were then sonicated in a Branson model 2210 sonicator for 1 h (the resulting mixture is called the precursor) [38].

### 2.3. Growing the $Ba_{0.5}Sr_{0.5}TiO_3$ Film Doped with $RuO_2$

The film-growing process was conducted using a spin-coating reactor, where the type-p silicon substrate that had been washed was placed on the spin coating reactor plate which had had a piece of double-sided tape affixed to the center. Next, 1/3 of the surface of the type-p silicon substrate that had been affixed to the spin coating reactor plate surface was covered with seal tape. The seal tape was used to prevent the type-p silicon substrate surface from being entirely covered by the BST solution, and the double-sided tape was used to make sure the substrate did not slip off the plate when the spin-coating reactor was operated.

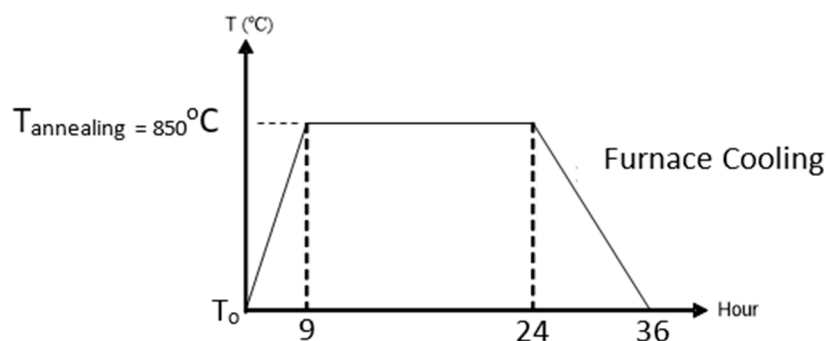
The substrate that had been placed on the spin-coating reactor plate was dripped upon with 3 drops of BST solution, then the spin-coating reactor was spun at 3000 rpm for 30 s. The dripping process was repeated 3 times with a 60-second gap between each repeat. After dripping, the substrate was collected using tweezers [37]. Process Growing the  $Ba_{0.5}Sr_{0.5}TiO_3$  Film Doped with  $RuO_2$  shown in Figure 2.



**Figure 2.** Process Growing the  $Ba_{0.5}Sr_{0.5}TiO_3$  Film Doped with  $RuO_2$ .

### 2.4. The Annealing Process

The purpose of the annealing process was to diffuse the BST solution with the substrate. The annealing process was conducted gradually using a Vulcan<sup>TM-3-130</sup> model furnace. The heating began at room temperature and was raised to the required annealing temperature, 850 °C, with an adjusted temperature rise (1.7 °C/min), and then the annealing temperature was maintained for 15 h. Next, furnace cooling was conducted until room temperature was reached again [37]. The annealing process can be seen in Figure 3.



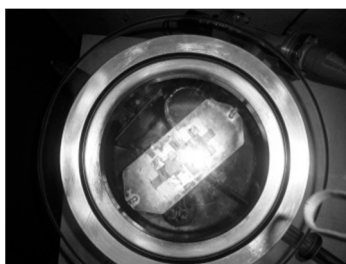
**Figure 3.** The annealing process.

### 2.5. Contact Installation in the $Ba_{0.5}Sr_{0.5}TiO_3$ Film Doped with $RuO_2$

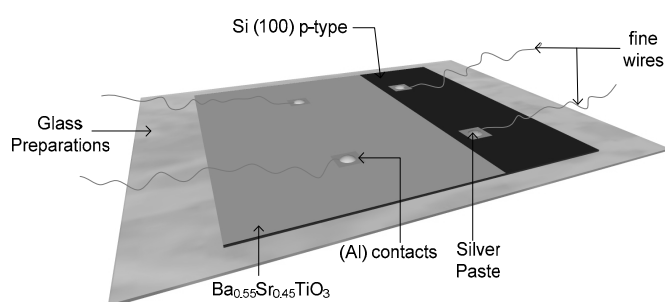
The contact holes in the film were made as  $2 \times 2$  mm squares on the BST layer and the remaining part of the BST film was covered using aluminum foil. The next process was aluminum (Al) metallization as the contact medium for the film which was done by evaporation in a vacuum container. And then the thicker and thin copper wire were affixed using silver paste [37]. The process of aluminum metallization as the film's contact medium can be seen in Figure 4. The  $Ba_{0.5}Sr_{0.5}TiO_3$  film doped with  $RuO_2$  model,



the result of the copper wire installation, and the physical appearance of the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  and the physical appearance of the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  can be seen in Figure 5.



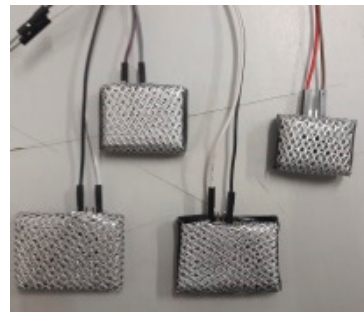
**Figure 4.** The aluminum metallization process as the film's contact medium.



(a)



(b)



(c)

**Figure 5.** (a) The  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  model; (b) The result of the copper wire installation; (c) The physical appearance of the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$ .

## 2.6. Characterization of the $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ Film Doped with $\text{RuO}_2$ as a Bad Breath-Gas Sensor

Characterization of the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  included characterization of its sensitivity as a bad breath-gas sensor. The sensitivity of  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  as a bad breath-gas sensor was demonstrated by the difference in output voltage and the input voltage (exposure to halitosis gases),  $(\Delta V/\Delta G)$ , with  $V$  as the output voltage and  $G$  the input voltage with exposure to halitosis gases. The greater the voltage difference, the more sensitive the film is considered to be.

## 2.7. Equipment Design

The prototype was designed to be portable. The prototype design was 7 cm in length, with a 6-cm-diameter handle, 3-cm-diameter lid, and 1-cm lid height, and the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  itself was  $2 \times 3 \text{ cm}^2$ . These measurements were made according to the requirements of the

electronic components contained by the prototype design. The prototype design sketch can be seen in Figure 6.

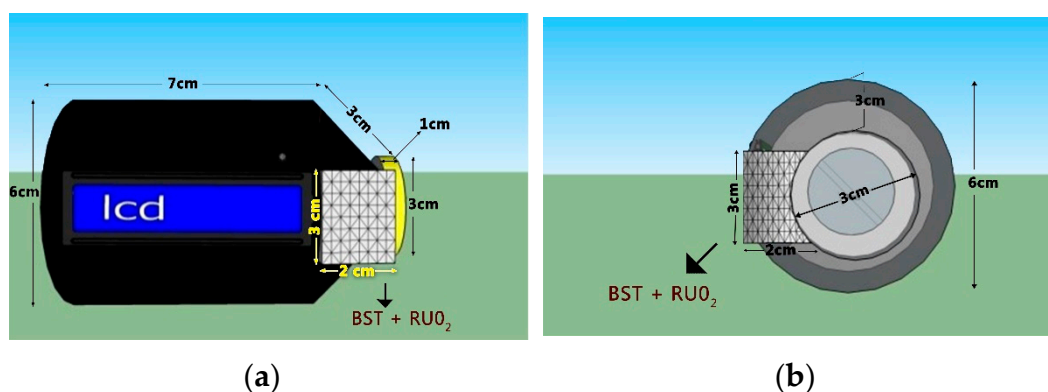


Figure 6. The prototype design: (a) front view; (b) Side view.

The components used in the bad-breath detector prototype consisted of the input component, the processing component, and output component. The input component is shown in Figure 7, label 'a', the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  6%. The processing component used a 10-bit microcontroller (Figure 7, labeled 'b'), the ATmega138/Arduino Nano which is  $3 \times 1 \text{ cm}^2$  in size. The output component (Figure 7, labeled 'c' and 'd'), the LED as the indicator and an LCD as the voltage value and breath odor condition display.

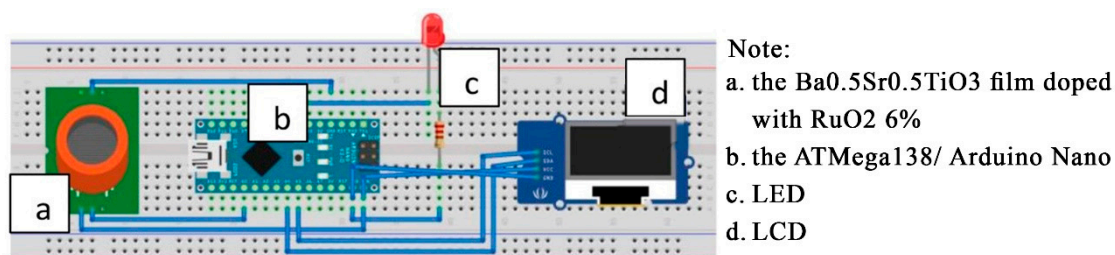


Figure 7. Sketch of the prototype's electronic circuitry.

### 3. Results and Discussion

#### 3.1. Characterization of the $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ Film Doped with $\text{RuO}_2$ as a Bad Breath-Gas Sensor

The measurements were taken by two methods: variation in the distance of odor exposure to the film position and variations in oral hygiene conditions. Variations in the distance between odor exposure to the film position were conducted at distances of 2 cm, 4 cm, 6 cm and 8 cm with bad breath exposure which was considered stable (exhalations from the mouth). Variations in oral hygiene were conducted before the oral cavity was cleaned (straight out of bed) and after it was cleaned (after brushing teeth).

Tables 1 and 2 present the voltage output measurement data of  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  (after being stabilized with a Wheatstone circuit and amplified with an op-amp). The Wheatstone circuit and op-amp for the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  are shown in Figure 8.

**Table 1.** The voltage output measurement data of  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  as a bad breath gas sensor with variations in the gas exposure distance: 2 cm, 4 cm, 6 cm and 8 cm.

$\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ Film with Variations in $\text{RuO}_2$ Dope (%)	Output Voltage at 2 cm Exposure (mV)	Output Voltage at 4 cm Exposure (mV)	Output Voltage at 6 cm Exposure (mV)	Output Voltage at 8 cm Exposure (mV)
0	12.5	12.4	12.4	12.4
2	12.5	12.5	12.1	-
4	16.9	14.4	-	-
6	29.0	27.7	26.4	20.3

**Table 2.** Voltage difference measurement data of  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  in various oral conditions.

$\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ Film with Variations in $\text{RuO}_2$ Dope (%)	Film Output Voltage			$\Delta V$ before and after Cleaning (mV)
	before Cleansing (Straight out of Bed) (mV)	after Cleansing (after Brushing Teeth) (mV)	after 15 min after (after Brushing Teeth+Eat) (mV)	
0	12.4	12.7	12.7	0.3
2	11.3	12.5	12.4	1.2
4	13.6	17.9	17.8	4.3
6	12.9	42.1	41.9	29.2

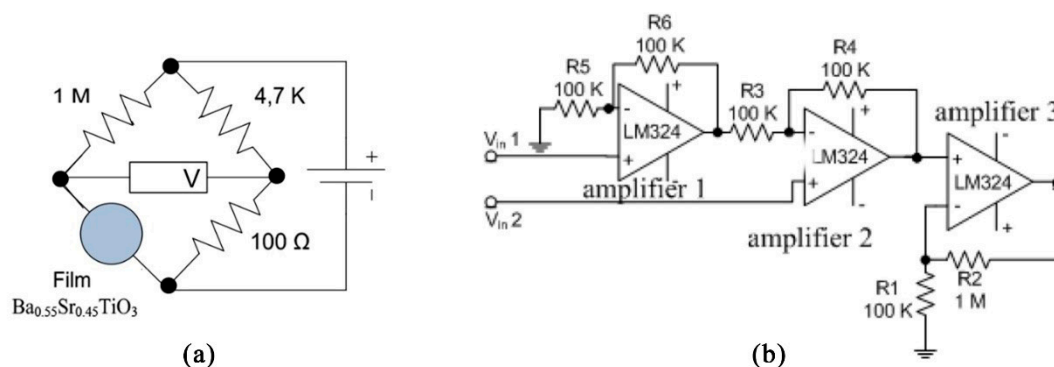
**Figure 8.** (a) The Wheatstone circuit; (b) The op-amp circuit.

Table 1 presents voltage output measurement data with variations in halitosis gas exposure distance of  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film with doped with varied  $\text{RuO}_2$  concentrations. Table 2 presents the output voltage with a variety of oral conditions (halitosis-gas input) of the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with varied  $\text{RuO}_2$  concentrations.

The measurements in Table 1 aimed to evaluate the film's output voltage at distances of 2 cm, 4 cm, 6 cm, and 8 cm. The response revealed whether or not the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  gave a good response. The measurements presented in Table 2 were made by comparing the film's output voltage based on the film's response to oral conditions. The difference between the oral condition output ( $\Delta V$ ) was then used as proof that the film has a good sensitivity to halitosis gas. The best sensitivity was demonstrated by  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with 6%  $\text{RuO}_2$ . This film was then applied as the Arduino Nano-based bad breath gas detecting sensor.

Table 2 indicates that bad breath after cleaning (after brushing your teeth) and odor after 15 min after brushing your teeth + eating produce output values that do not differ much. It suggests that the condition read by the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  6% is not the odor from the toothpaste, but the bad breath from the bad breath gas in the oral cavity.

$\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  had a resistance of approximately  $10^6 \Omega$ . By determining the values of  $R_1$  and  $R_3$ , the value of  $R_2$  could be obtained using the equation  $R_1 \cdot R_3 = R_2 \cdot R_4$ .

The steps to finding the value of  $R_2$  were: First, the value of  $R_1$  and  $R_3$  were determined to be 1 M and 100  $\Omega$ . Second, initially,  $R_2$  in the Wheatstone bridge circuit used a 100 K potentiometer which was done in order to make the V in potentiometer 0 volts. Then the potentiometer was disconnected

and the resistance in the potentiometer was measured using a multimeter. The value displayed by the multimeter was the resistance value used as  $R_2$ . The resistance displayed was 4.68 K; therefore,  $R_2 = 4.7$  K. The measurements were taken at the first and third terminals of the potentiometer.

The voltage signal emitted by the Wheatstone bridge was amplified by the op-amp circuit. The microcontroller used was the ATmega168 (which is also known as the Arduino Nano) which had a 10-bit resolution and a reference voltage of 4.8 volts; therefore, the microcontroller could differentiate between incoming voltages of 0.0046875 volts. To adjust the resolution of the  $Ba_{0.5}Sr_{0.5}TiO_3$  film doped with  $RuO_2$  to the ADC resolution, an amplifying circuit (op-amp) was employed. The amplifying circuit used in this study was a differential amplifying circuit and a non-inverting amplifying circuit, depicted in Figure 8b. A differential amplifying circuit is a circuit that compares two inputs. The differential amplifying circuit used was a combination between non-inverting and inverting circuits. The total circuit amplification for the BST film was 2 times amplification from the differential amplifying circuit and 11 times amplification from the non-inverting amplifying circuit, so the total amplification was 22 times. The mathematical calculations are represented by Equations (1) and (2).

Equation (1). The size of the amplification for the differential amplifying circuit was:

$$\frac{V_{out}}{V_{in}} = \left(1 + \frac{R_f}{R_{in}}\right)\left(\frac{R_f}{R_{in}}\right), \quad (1)$$

$$\frac{V_{out}}{V_{in}} = \left(1 + \frac{R_6}{R_5}\right)\left(\frac{R_4}{R_3}\right),$$

$$\frac{V_{out}}{V_{in}} = \left(1 + \frac{100K}{100K}\right)\left(\frac{100K}{100K}\right),$$

$$\frac{V_{out}}{V_{in}} = 2 \text{ times.}$$

Equation (2). The size of the amplification for the non-inverting amplifying circuit (amplifier 3) was:

$$\frac{V_{out}}{V_{in}} = \left(1 + \frac{R_f}{R_{in}}\right), \quad (2)$$

$$\frac{V_{out}}{V_{in}} = \left(1 + \frac{R_2}{R_1}\right),$$

$$\frac{V_{out}}{V_{in}} = \left(1 + \frac{1M}{100K}\right),$$

$$\frac{V_{out}}{V_{in}} = 11 \text{ times.}$$

The total amplification of the sensor's circuit was 22 times.

### 3.2. The Atmega168/Arduino Nano Microcontroller Circuit

The controlling circuit in the bad breath detector prototype was a 10-bit ATMEGA168 microcontroller. The output voltage from the best film circuit was the input signal for the microcontroller.

The input for the microcontroller from the best film was PORTA.0. LCD assisted by the IIC module; therefore, only two 2 PORTs: PORTA.4 for SDA and PORTA.5 for SCL. The digital PIN 3 was used for the LED indicator.

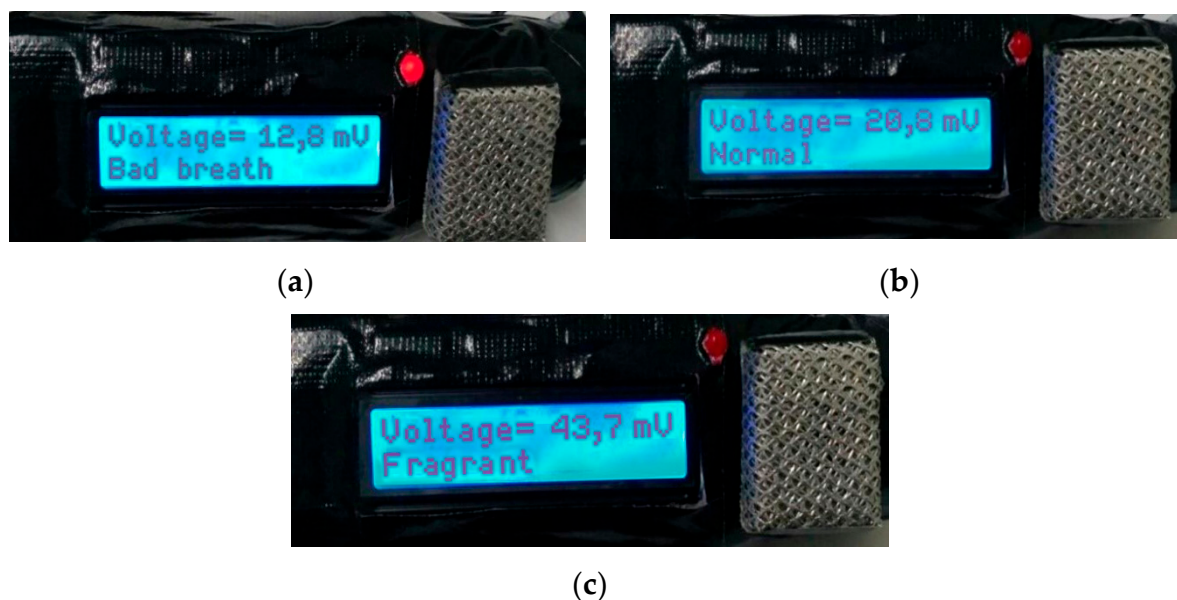
### 3.3. Testing the Entire System

Halitosis is generally caused by bacteria that develop naturally in the mouth. These bacteria produce sulfur-containing gases. As a result, during exhalation through the mouth, a pungent odor of sulfurous gases is emitted. These gases are the focus of the detection capabilities of this device.

The operating principle of the device is that when the power source (5 volts) is activated, the power source provides the input voltage needed by every circuit used. When the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  6% receives a stimulus in the form of bad breath, the ATmega168/Arduino Nano microcontroller gives a command to the LED and LCD.

If the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  6% receives a stimulus in the form of bad breath (voltage output  $\leq 12.9$  mV), the microcontroller will command the LED to turn on (as an indicator of bad breath) and the LCD will display the output values in the form of the voltage on the first line and the “bad breath” condition on the second line of the LCD. On the other hand, if the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  6% receives a stimulus in the form of “not bad breath” (voltage output  $> 42.1$  mV), the microcontroller will give a command to the LED to remain turned off (as an indicator that the mouth is not malodorous) and the LCD will display an output in the form of the voltage on the first line of the LCD and the word “fragrant” on the second line.

If the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  6% receives a stimulus in the form of bad breath ( $12.9$  mV  $<$  voltage output  $\leq 42.1$  mV), the microcontroller will give a command to the LED to not turn on (as an indicator that the mouth is in a normal condition) and the LCD will display an output in the form of the voltage on the first line of the LCD and the word “normal” on the second line. The results of the bad breath, normal, and fragrant conditions are presented in Figure 9.



**Figure 9.** (a) The results of the testing at a “Bad breath” oral condition; (b) the results of the testing at a “Normal” oral condition; (c) The results of the testing at a “Fragrant” oral condition.

The MQ 136 sensor is a semiconductor component that functions as an odorant for tin oxide gas ( $\text{SnO}_2$ ). The MQ 136 gas sensor has a high sensitivity to  $\text{SO}_2$ . The MQ 136 can also be used to detect other vapors containing sulfur. Table 3 shows that the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film with 6%  $\text{RuO}_2$  doping variation shows the average accuracy of the tool is ~99% measured against the MQ 136 sensor. This proves that the  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film testing with the 6%  $\text{RuO}_2$  doping variation shown in Figure 9 provides an objective result when reading bad breath.



**Table 3.** Measurement data of the accuracy of the voltage value between  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film  $\text{RuO}_2$  6% doped relative to the commercially manufactured gas sensor (MQ 136) when detecting the odor conditions of the oral cavity.

	Output Voltage		
	before Cleansing (Straight out of Bed) (mV)	after Cleansing (after Brushing Teeth) (mV)	after 15 min after (after Brushing Teeth + Eat) (mV)
$\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ film with 6% doping variations	12.9	42.1	41.9
Gas sensor, manufacturer's product (MQ 136)	12.7	42.4	42.2
$\Delta V$ (mV)	0.2	0.3	0.3
Accuracy (%)	98.4	99.3	99.3

This tool is made to facilitate user detection of bad breath, so this portable unit can be carried everywhere by the user. The dimensions of the tool are shown in Figure 6. The position of the sensor is right inside the packaging container such as a microphone. Users can use the tool by: (1) activating the switch to the 'on' position; (2) the user blows the microphone in which there is a mouth odor sensor. Input in the form of bad breath will be read and processed by the microcontroller. The results of the microcontroller processing will be displayed on the  $16 \times 2$  LCD as shown in Figure 9.

Figures 6a and 9 show that this device is built to provide user safety from electricity. Besides using only DC power supplies, the electronic components are housed inside a packaging container made of an insulating type material, ensuring user safety from electricity. The  $\text{RuO}_2$  doped  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film cover container is also shock-resistant from saliva and toxins. If the mouth or saliva touches the  $\text{RuO}_2$  doped  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film cover container it will not provide any electrical response because the container is coated with an insulating material, making it very safe.

Halitosis is a medical term for bad breath. Halitosis is a very common condition. According to the American Dental Association, at least 50 percent of adults around the world have bad breath. So generally, many do not realize that they have this condition.

One recent innovation for oral hygiene has been presented before. the innovation was called Breathometer Mint. The tool is used to monitor the user's mouth odor. With this tool, the user can find out whether the condition of the oral cavity is in good or bad condition. This device is integrated with applications on smartphones that will provide information about the user's oral cavity. Its use is quite practical, the tool is simply inserted into the mouth, then the user can exhale through his or her mouth. Then the Breathometer will detect the level of bacteria in the mouth. If the number of bacteria in the oral cavity is high, an unpleasant odor may result [39]. Unfortunately, the tool can only be used to monitor the number of bacteria in the mouth, a proxy for bad breath, but it cannot detect the distinctive odor of the types of gas that makes the mouth smell. This is the background rationale for the making a  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film application which is doped with  $\text{RuO}_2$  6% as an Arduino Nano-based odor detection sensor. This tool can monitor bad breath directly by detecting the concentration of sulfurous gases released.

#### 4. Conclusions

The  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  can be used as a bad-breath detecting sensor because it demonstrated a response in the form of voltage changes when exposed to changes in the aroma. The test results demonstrated that  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$  film doped with  $\text{RuO}_2$  with a dope concentration of 6% was the best film of those tested. This film was then applied as the Arduino Nano-based bad-breath detecting sensor. The function of this film is to read bad breath from the types of gas released (sulfur-containing gases produced by naturally occurring bacteria that inhabit the mouth). The use of this tool is very practical, achieved simply by turning on the power on the tool, then blowing over the container shaped like a microphone. The results of bad breath will be displayed on the

16 × 2 LCD. A device housing made of insulating material provides an important safety role for the user.

**Author Contributions:** Researchers came from the four best universities in Indonesia. In this study, researchers have contributed by following their respective fields. I., B.Y. and F. contributed to the fields of physics and thin film. R.S. contributed in the fields of electronics, hardware and programming. M.Z.F. contributed to the field of chemistry. All authors have read and agreed to the published version of the manuscript.

**Funding:** This research was funded by USAID through the SHERA program—Centre for Development of Sustainable Regions (CDSR) and Program Penelitian Dasar Unggulan Perguruan Tinggi (PDUPT) DRPM, Republic of Indonesia with grant number 3/E1/KP.PTNBH/2019.

**Conflicts of Interest:** The authors declare no conflict of interest.

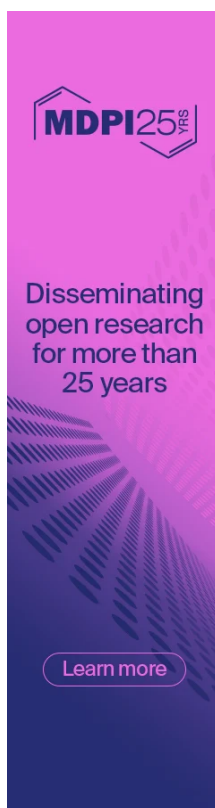
## References

- Herawati, D. Mengenali halitosis patologis berdasarkan lokasi asal untuk keberhasilan perawatan Mal-odor Oral. *Majalah Ceramah Ilmiah FKG UGM Yogyakarta* **2003**, *3*, 118–121.
- Djaya, A. *Halitosis: Nafas Tak Sedap*, 1st ed.; Dental Lintas Mediatama: Jakarta, Indonesia, 2000; pp. 2–35.
- McDowell, K.; Denise, K. Halitosis holistik. *Maj. Kedokt. Gigi Dent. Horis.* **2002**, *3*, 30–37.
- Darwis, E.W. Jangan biarkan nafas bau menghambat pergaulan. *J. PDGI* **1997**, *25*, 12–14.
- Preti, G.; Lawley, H.J.; Hormann, C.A.; Cowart, B.J.; Feldman, R.S.; Lowry, L.D.; Young, I.M. Non-Oral and oral aspect of oral malodor. In *Bad Breath Research Perspectives*, 2nd ed.; Rosenberg, M., Ed.; Ramot Publishing-Tel Aviv University: Tel Aviv, Israel, 1997; pp. 149–150.
- Richie, E.; Nani, D.; Pasole, D.; Muhammad, D.; Ade, K.; Johan, I.; Hendradi, H. ‘The optical band gap of LiTaO<sub>3</sub> and Nb<sub>2</sub>O<sub>5</sub>—Doped LiTaO<sub>3</sub> thin films based on Tauc Plot method to be applied on satellite’. *IOP Conf. Ser. Earth Environ. Sci.* **2017**, *54*, 012092–012099.
- Irzaman, Y.; Darvina, A.; Fuad, P.; Arifin, M.; Budiman, M.; Barmawi, M. Physical and pyroelectric properties of tantalum oxide doped lead zirconium titanate [Pb<sub>0.9950</sub>(Zr<sub>0.525</sub>Ti<sub>0.465</sub>Ta<sub>0.010</sub>)O<sub>3</sub>] thin films and its application for IR sensor. *Phys. Status Solidi (a) Ger.* **2003**, *199*, 416–424. [[CrossRef](#)]
- Syafutra, H.; Irzaman, H.; Subrata, I.D.M. Integrated visible light sensor based on thin film ferroelectric material BST to microcontroller ATmega8535. *Mater. Sci. Technol.* **2010**, *1*, 291–296.
- Irzaman; Pebriyanto, Y.; Apipah, E.R.; Noor, I.; Alkadri, A. Characterization of Optical and Structural of Lanthanum Doped LiTaO<sub>3</sub> Thin Films. *Integr. Ferroelectr.* **2015**, *167*, 137–145. [[CrossRef](#)]
- Mulyadi, R.; Wahyuni, H. Barium strontium titanate thin film growth with variation of lanthanum dopant compatibility as sensor prototype in the satellite technology. *IOP Conf. Ser. Earth Environ. Sci.* **2018**, *149*, 012069–012076. [[CrossRef](#)]
- Irzaman Syafutra, H.; Rancasa, E.; Nuayi, A.W.; Rahman, T.G.N.; Nuzulia, N.A.; Supu, I.; Sugianto Tumimomor, F.; Surianty Muzikarno, O. The effect of Ba/Sr ratio on electrical and optical properties of Ba<sub>x</sub>Sr<sub>(1-x)</sub>TiO<sub>3</sub> (x = 0.25; 0.35; 0.45; 0.55) thin film semiconductor. *J. Ferroelectr.* **2013**, *445*, 4–17. [[CrossRef](#)]
- Choi, E.S.; Lee, J.C.; Hwang, J.S.; Yoon, S.G. Electrical characteristics of the contour vibration mode piezoelectric transformer with ring/dot electrode area ratio. *J. Appl. Phys.* **1993**, *38*, 5317. [[CrossRef](#)]
- Momose, S.; Nakamura, T.; Tachibana, K. Effects of gas phase thermal decompositions of chemical vapor deposition source molecules on the deposition of BST films. *J. Appl. Phys.* **2000**, *39*, 5384. [[CrossRef](#)]
- Gao, Y.; He, S.; Alluri, P.; Engelhard, M.; Lea, A.; FINDER, S.; Melnick, J.; Hance, B. Effect of precursors and substrate materials on microstructure, dielectric properties and step coverage of (Ba, Sr)TiO<sub>3</sub> films grown by metalorganic chemical vapor deposition. *J. Appl. Phys.* **2000**, *87*, 124–132. [[CrossRef](#)]
- Auciello, O.; Scott, J.F.; Ramesh, R. The physics of ferroelectric memories. *Phys. Today* **1998**, *51*, 22–27. [[CrossRef](#)]
- Verma, K.; Sharma, S.; Sharma, D.K.; Kumar, R.; Rai, R. Sol-gel processing and characterization of nanometer-sized (Ba,Sr)TiO<sub>3</sub> ceramics. *Adv. Mater. Lett.* **2012**, *3*, 44–49. [[CrossRef](#)]
- Giridharan, N.V.; Jayavel, R.; Ramasamy, P. Structural, morphological and electrical studies on barium strontium titanate thin films prepared by sol-gel technique. *Crystal Res. Technol.* **2001**, *36*, 65–72. [[CrossRef](#)]
- Chen, X.; Cai, W.; Fu, C.; Chen, H.; Zhang, Q. Synthesis and morphology of Ba(Zr<sub>0.20</sub>Ti<sub>0.80</sub>)O<sub>3</sub> powder obtained by sol-gel method. *J. Sol-Gel Sci. Technol.* **2011**, *57*, 149–156. [[CrossRef](#)]

19. Wang, F.; Uusimaki, A.; Leppavuori, S.; Karmanenko, S.F.; Dedyk, A.I.; Sakharov, V.I.; Serenkov, I.T. BST ferroelectric film prepared with sol-gel process and its dielectric performance in planar capacitor structure. *J. Mater.* **1998**, *13*, 1243.
20. Tyunina, M. Dielectric properties of atomic layer deposited thin film barium strontium titanate. *Integr. Ferroelectr.* **2008**, *102*, 29–36. [[CrossRef](#)]
21. Kim, S.; Kang, T.S.; Je, J.H. Structural characterization of laser ablation epitaxial BST thin films on MgO (001) by synchrotron x-ray scattering. *J. Mater.* **1999**, *14*, 2905–2911.
22. Zhu, X.H.; Zheng, D.N.; Peng, J.L.; Chen, Y.F. Enhanced dielectric properties of Mn-doped Ba<sub>0.6</sub>Sr<sub>0.4</sub>TiO<sub>3</sub> thin films fabricated by pulsed laser deposition. *Mater. Lett.* **2005**, *60*, 1224–1228. [[CrossRef](#)]
23. Izuha, M.; Ade, K.; Koike, M.; Takeno, S.; Fukushima, N. Electrical properties and microstructure of Pt/BST/SrRuO<sub>3</sub> capacitors. *J. Appl. Phys.* **1997**, *70*, 1405.
24. Lee, J.S.; Park, J.S.; Kim, J.S.; Lee, J.H.; Lee, Y.H.; Hahn, S.R. Preparation of BST thin films with high pyroelectric coefficients in ambient temperatures. *J. Appl. Phys.* **1999**, *38*, L574. [[CrossRef](#)]
25. Irzaman, H.; Darmasetiawan, H.; Hardhienata, H.; Erviansyah, R.; Maddu, A.; Hikam, M.; Arifin, P. Electrical properties of photodiode BST thin film doped with ferrium oxide using chemical deposition solution method. *J. Atom Indones.* **2010**, *6*, 57–62.
26. Irzaman, H.; Syafutra, H.; Darmasetiawan, H.; Hardhienata, H.; Erviansyah, R.; Huriawati, F.; Maddu, A.; Arifin, P. Electrical properties of photodiode Ba<sub>0.25</sub>Sr<sub>0.75</sub>TiO<sub>3</sub> (BST) thin film doped with ferric oxide on p-type Si (100) substrate using chemical solution deposition method. *J. Atom Indones.* **2011**, *37*, 133–138. [[CrossRef](#)]
27. Baumert, B.A.; Chang, L.H.; Matsuda, A.T.; Tracy, C.J. A study of BST thin films for use in bypass capacitors. *J. Mater.* **1998**, *13*, 197.
28. Itskovsky, M.A. Kinetics of ferroelectric phase transition: Nonlinear pyroelectric effect and ferroelectric solar cell. *J. Appl. Phys.* **1999**, *38*, 4812. [[CrossRef](#)]
29. Darmasetiawan, H.; Irzaman, H.; Indro, M.N.; Sukaryo, S.G.; Hikam, M.; Bo, N.P. Optical properties of crystalline Ta<sub>2</sub>O<sub>5</sub> thin films. *Phys. Status Solidi (a)* **2002**, *193*, 53–60. [[CrossRef](#)]
30. Irzaman, A.; Nuraisah, A.; Aminullah; Hamam, K.A.; Alatas, H. Optical properties and crystal structure of lithium doped Ba<sub>0.55</sub>Sr<sub>0.45</sub>TiO<sub>3</sub> (BLST) thin films. *Ferroelectr. Lett. Sect.* **2018**, *45*, 14–21. [[CrossRef](#)]
31. Dahrul, M.; Syafutra, H.; Arif, A.; Irzaman, H.; Indro, M.N.; Siswadi. Synthesis and characterizations photodiode thin film barium strontium titanate (BST) doped niobium and iron as light sensor. In Proceedings of the The 4th Asian Physics Symposium, American Institute of Physics (AIP) Conference, West Java, Indonesia, 12–13 October 2010; Volume 1325, pp. 43–46.
32. Irzaman Dahrul, M.; Yuliarto, B.; Hammam, K.A.; Alatas, H. Effects of Li and Cu dopants on the crystal structure of Ba<sub>0.65</sub>Sr<sub>0.35</sub>TiO<sub>3</sub> thin films. *Ferroelectr. Lett. Sect.* **2018**, *45*, 49–57. [[CrossRef](#)]
33. Irzaman; Sitompul, H.; Masitoh; Misbakhshudur, M. Optical and structural properties of lanthanum doped lithium niobate thin films. *Ferroelectrics* **2016**, *502*, 9–18. [[CrossRef](#)]
34. Nuayi, A.W.; Alatas, H.; Irzaman, H.; Rahmat, M. Enhancement of Photon Absorption on Ba<sub>x</sub>Sr<sub>(1-x)</sub>TiO<sub>3</sub> Thin-Film Semiconductor Using Photonic Crystal. *Int. J. Opt.* **2014**, *2014*, 534145. [[CrossRef](#)]
35. Hamdani, A.; Komaro, M. A Synthesis of Ba<sub>x</sub>Sr<sub>(1-x)</sub>TiO<sub>3</sub> Film and Characterization Of Ferroelectric Properties and Its Extension as Random Access Memory. *Mater. Phys. Mech.* **2019**, *42*, 131–140.
36. Schwartz, R.W. Chemical solution deposition of perovskite thin film. *J. Chem. Mater.* **1997**, *9*, 2325–2340. [[CrossRef](#)]
37. Endah, K.P.; Rofiqul, U.; Bibin, B.A.; Hidetoshi, S.; Brian, Y.; Husin, A. Micro-Raman analysis of Ba<sub>0.2</sub>Sr<sub>0.8</sub>TiO<sub>3</sub> (barium strontium titanate) doped of chlorophyll of cassava leaf. *Ferroelectrics* **2019**, *540*, 227–237.
38. Irzaman; Siskandar, R.; Aminullah; Irmansyah; Alatas, H. Characterization of Ba<sub>0.55</sub>Sr<sub>0.45</sub>TiO<sub>3</sub> films as light and temperature sensors and its implementation on automatic drying system model. *J. Integr. Ferroelectr.* **2016**, *168*, 130–150. [[CrossRef](#)]
39. Peverall, R.; Hancock, G. GAD Ritchie. Portable Breath Volatile Organic Compounds Analyser and Corresponding Unit. U.S. Patent 2016/0150995 A1.



- [Vol. 8 \(2020\) \(/2227-9040/8\)](#)
- [Vol. 7 \(2019\) \(/2227-9040/7\)](#)
- [Vol. 6 \(2018\) \(/2227-9040/6\)](#)
- [Vol. 5 \(2017\) \(/2227-9040/5\)](#)
- [Vol. 4 \(2016\) \(/2227-9040/4\)](#)
- [Vol. 3 \(2015\) \(/2227-9040/3\)](#)
- [Vol. 2 \(2014\) \(/2227-9040/2\)](#)
- [Vol. 1 \(2013\) \(/2227-9040/1\)](#)



[https://serve.mdpi.com/www/my\\_files/cliik.php?oaparams=0bannerid=1802zoneid=4cb=2909a57afeoadest=htt](https://serve.mdpi.com/www/my_files/cliik.php?oaparams=0bannerid=1802zoneid=4cb=2909a57afeoadest=htt)

## Editorial Board

- [Advisory Board](#)
- [Editorial Board](#)
- [Chemical Sensing Modelling Section \(/journal/chemosensors/sectioneditors/Chemical\\_Sensing\\_Modelling\)](/journal/chemosensors/sectioneditors/Chemical_Sensing_Modelling)
- [Electrochemical Devices and Sensors Section \(/journal/chemosensors/sectioneditors/Electrochemical\\_Devices\\_Sensors\)](/journal/chemosensors/sectioneditors/Electrochemical_Devices_Sensors)
- [Optical Chemical Sensors Section \(/journal/chemosensors/sectioneditors/Optical\\_Chemical\\_Sensors\)](/journal/chemosensors/sectioneditors/Optical_Chemical_Sensors)
- [Materials for Chemical Sensing Section \(/journal/chemosensors/sectioneditors/Materials\\_Chemical\\_Sensing\)](/journal/chemosensors/sectioneditors/Materials_Chemical_Sensing)
- [Applied Chemical Sensors Section \(/journal/chemosensors/sectioneditors/applied\\_chemical\\_sensors\)](/journal/chemosensors/sectioneditors/applied_chemical_sensors)
- [Analytical Methods, Instrumentation and Miniaturization Section \(/journal/chemosensors/sectioneditors/analytical\\_methods\\_instrumentation\\_and\\_miniaturization\)](/journal/chemosensors/sectioneditors/analytical_methods_instrumentation_and_miniaturization)
- [Gas Sensors Section \(/journal/chemosensors/sectioneditors/gas\\_sensors\)](/journal/chemosensors/sectioneditors/gas_sensors)
- [Biosensors Section \(/journal/chemosensors/sectioneditors/biosensors\)](/journal/chemosensors/sectioneditors/biosensors)

## Editors (5)



Prof. Dr. Nicole Jaffrezic-Renault

[Website \(https://sciforschenonline.org/journals/bioanalytical-techniques/nicole-jaffrezic-renault.php\)](https://sciforschenonline.org/journals/bioanalytical-techniques/nicole-jaffrezic-renault.php)

[SciProfiles \(https://sciprofiles.com/profile/10737\)](https://sciprofiles.com/profile/10737)

Editor-in-Chief



**Prof. Dr. James Covington**

[Website \(https://warwick.ac.uk/fac/sci/eng/people/james\\_covington/\)](https://warwick.ac.uk/fac/sci/eng/people/james_covington/) [SciProfiles \(https://sciprofiles.com/profile/28729\)](https://sciprofiles.com/profile/28729)

*Associate Editor*

School of Engineering, University of Warwick, Coventry CV4 7AL, UK

**Interests:** electronic noses; machine olfaction; chemical sensors; MEMS; smart sensor systems; data analysis; deep learning; neural networks; industrial applications and medical applications

[Special Issues and Collections in MDPI journals](#)



**Prof. Dr. Franz L. Dickert**

[Website \(http://chemosensorik.univie.ac.at/en/home/\)](http://chemosensorik.univie.ac.at/en/home/) [SciProfiles \(https://sciprofiles.com/profile/10762\)](https://sciprofiles.com/profile/10762)

*Associate Editor*

Chemical Sensors and Optical Molecular Spectroscopy, Institute of Analytical Chemistry, University of Vienna, 1090 Vienna, Austria

**Interests:** physicochemical basis of sensors; chemical sensors; physical sensors; metrology; supramolecular chemistry; molecular recognition; molecular imprinting; anisotropic phases

[Special Issues and Collections in MDPI journals](#)



**Dr. Michele Penza**

[Website \(http://www.eunetair.it/cost/documents/participant.php?idpar=1\)](http://www.eunetair.it/cost/documents/participant.php?idpar=1) [SciProfiles \(https://sciprofiles.com/profile/298681\)](https://sciprofiles.com/profile/298681)

*Associate Editor*

ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Department for Sustainability, Division of Sustainable Materials, Laboratory Functional Materials and Technologies for Sustainable Applications - Brindisi Research Center, km 706, Strada Statale 7, Appia, I-72100 Brindisi, Italy

**Interests:** sensor materials; functional materials; gas sensors; air quality sensor systems; sensor technology development; environmental measurements; urban air quality sensor networks; smart cities applications

[Special Issues and Collections in MDPI journals](#)



**Dr. Igor Medintz**

[Website \(https://www.scopus.com/authid/detail.uri?authorId=7003527679\)](https://www.scopus.com/authid/detail.uri?authorId=7003527679) [SciProfiles \(https://sciprofiles.com/profile/8025\)](https://sciprofiles.com/profile/8025)

*Founding Editor-in-Chief*

US Naval Research Laboratory, 4555 Overlook Ac SW, Washington, DC 20375, USA

**Interests:** nanoparticle-biological interface; energy transfer; FRET; biosensing; enzymatic catalysis at a nanoparticle interface; nanoparticle-based cellular imaging

[Special Issues and Collections in MDPI journals](#)



## Advisory Board (3)



**Prof. Dr. Kourosh Kalantar-Zadeh**

★ (<https://recognition.webofsciencegroup.com/awards/highly-cited/2020/>) [Website \(https://www.rmit.edu.au/contact/staff-contacts/academic-staff/k/kalantar-zadeh-professor-kourosh.-professor-kourosh.html\)](https://www.rmit.edu.au/contact/staff-contacts/academic-staff/k/kalantar-zadeh-professor-kourosh.-professor-kourosh.html)

School of Chemical Engineering, University of New South Wales, Kensington, NSW 2052, Australia

**Interests:** gas sensors; liquid metals; electronic materials; medical devices and microfluidics



**Prof. Dr. Giovanni Neri**

[Website \(https://www.unime.it/it/persona/giovanni-neri/curriculum\)](https://www.unime.it/it/persona/giovanni-neri/curriculum) [SciProfiles \(https://sciprofiles.com/profile/549908\)](https://sciprofiles.com/profile/549908)



Department of Engineering, Messina University, Messina, Italy

**Interests:** synthesis of novel sensing materials; nanostructured materials for chemical and electrochemical sensing; metal oxide semiconductor-based gas sensors; biosensors; fabrication of chemical sensors; environmental sensors; automotive gas sensors; biomedical sensors

**Special Issues and Collections in MDPI journals**

 [\(toggle desktop layout cookie\)](#)  

Special Issue in [Chemosensors: Solid State Gas Sensors \(/journal/chemosensors/special\\_issues/gas-sensors\)](#)

Special Issue in [Chemosensors: Novel 2D-Inorganic Materials for Gas Sensing \(/journal/chemosensors/special\\_issues/gas\\_sensing\)](#)

Topical Collection in [Sensors: Gas Sensors \(/journal/sensors/special\\_issues/gas\\_sensors\\_collection\)](#)

Special Issue in [Sensors: Non-Invasive Biomedical Sensors \(/journal/sensors/special\\_issues/Non-Invasive\\_Biomedical\\_Sensors\)](#)

Special Issue in [Sensors: Sensors for Human Safety Monitoring \(/journal/sensors/special\\_issues/human\\_safety\\_sensors\)](#)

Special Issue in [Sensors: Chemoresistive Gas Sensors Based on Low Dimensional Semiconducting Nano-Structures \(/journal/sensors/special\\_issues/chemoresistive\\_sensors\\_nanostructures\)](#)

Special Issue in [Nanomaterials: Development and Evaluation of Nanostructured Electrochemical Sensors \(/journal/nanomaterials/special\\_issues/nano\\_electrochemical\\_sensor\)](#)



**Prof. Dr. Erkang Wang**

**Website** ([http://sourcedb.ciac.cas.cn/en/ywrck/ywyjy/200907/t20090709\\_2051176.html](http://sourcedb.ciac.cas.cn/en/ywrck/ywyjy/200907/t20090709_2051176.html))

Changchun Institute. of Applied Chemistry(CIAC), Chinese Academy of Sciences (CAS), Changchun, China

**Interests:** bioelectrochemistry; sensors and biosensors; hyphenated interface with separation technics; microfluidics and electroanalytical chemistry; environmental chemistry

## Editorial Board Members (265)

Filter Editorial Board Members

Filter



**Dr. Manuel Aleixandre**

**Website** (<http://www.itefi.csic.es/es/personal/aleixandre-herrero-manuel>) **SciProfiles** (<https://sciprofiles.com/profile/108520>)

Institute of Innovative Research, Tokyo Institute of Technology, Yokohama, 226-8503, Japan

**Interests:** gas sensors; chemical sensors; nanostructured sensors; pattern recognition; gas sensor calibration; artificial olfactory systems; environmental and indoor air quality monitoring



**Prof. Dr. Lascialfari Alessandro**

**Website** (<http://fisica.unipv.it/personale/Persona.php?ID=23>) **SciProfiles** (<https://sciprofiles.com/profile/1145443>)

Università degli Studi di Pavia, Pavia, Italy

**Interests:** Magnetism; Superconductivity; Molecular clusters and chains; Magnetic nanoparticles; Magnetic field sensors; Nanomedicine; Nuclear Magnetic Resonance; Muon Spin Rotation; Magnetic Resonance Imaging; Magnetic Hyperthermia; Atomic Force Microscopy; Combined Therapies; Radiomics



**Dr. Eleonora Alfinito**

**Website** (<https://www.unisalento.it/scheda-utente/-/people/eleonora.alfinito>) **SciProfiles** (<https://sciprofiles.com/profile/405439>)

Department of Mathematics and Physics "E. De Giorgi", University of Salento, Via Arnesano, I-73100 Lecce, Italy

**Interests:** proteotronics; biosensors; electronic transport in biological matter; modelling

**Special Issues and Collections in MDPI journals**

Special Issue in [Sensors: Protein-Based Nanobiosensors \(/journal/sensors/special\\_issues/Protein\\_Nanobiosensors\)](#)

Special Issue in [Chemosensors: State-of-Art in Chemical Sensors Modelling and Theoretical Statements \(/journal/chemosensors/special\\_issues/SACSMSTs\)](#)

**Prof. Dr. Russ Algar**

**Website** (<https://www.chem.ubc.ca/russ-algar>)

Department of Chemistry, University of British Columbia, 2036 Main Mall, Vancouver, BC V6T 1Z1, Canada

**Interests:** fluorescence; resonance energy transfer; assays, imaging; biosensing; point-of-care diagnostics; nanoparticles; enzymes; nucleic acids;

[Back to Top](#)

**Dr. Manuel Algarra****Website** ([https://www.researchgate.net/profile/Manuel\\_Algarra](https://www.researchgate.net/profile/Manuel_Algarra))

Department of Inorganic Chemistry, Crystallography and Mineralogy, University of Malaga Campus de Teatinos s/n, 29071 Málaga, Spain

**Interests:** Nanoparticles in Analytical Chemistry; Spectroscopy and Material Science**Prof. Dr. Jose M. Alvarez-Pez****Website** ([https://investigacion.ugr.es/ugrinvestiga/static/Buscador\\*/investigadores/ficha/33727](https://investigacion.ugr.es/ugrinvestiga/static/Buscador*/investigadores/ficha/33727))

Extraordinary Collaborator of the Physical Chemistry Department, University of Granada, 18071 Granada, Spain

**Interests:** fluorescence biosensor; fluorescence bioimaging; FIM, FLIM, two photon and STED microscopy; excited state proton exchange; nanomaterials for theranostic applications**Dr. José Manuel Amigo****Website** (<https://www.hypertools.org/>)

1. Ikerbasque, Basque Foundation for Science, Bilbao, Spain.

2. Department of Analytical Chemistry, Faculty of Science and Technology, University of the Basque Country, Leioa, Spain.

**Interests:** Optical sensors; Image analysis; Hyperspectral Image; UV-VIS; NIR; MIR; Raman; RMN; Chemometrics; Machine Learning**Prof. Dr. Masanori Ando****Website** (<https://scholar.google.co.jp/citations?user=lu4KMWgAAAAJ&hl=ja&oi=ao>)

Biomedical Research Institute, Kansai Center, National Institute of Advanced Industrial Science and Technology (AIST), Ikeda, Osaka, Japan

**Interests:** functional nanomaterials; optical properties; gas sensors; interface chemistry; analytical chemistry**Prof. Dr. Constantin Apetrei****Website** (<http://www.esscba.ugal.ro/Contact.htm>) **SciProfiles** (<https://sciprofiles.com/profile/34558>)

"Dunarea de Jos" University of Galati, Faculty of Sciences and Environment, Department of Chemistry, Physics and Environment, Galati, Romania

**Interests:** sensor; biosensor; multisensory systems; electrochemistry; chemometry; food analysis; nanomaterial**Special Issues and Collections in MDPI journals**Special Issue in [Chemosensors: Voltamperometric Sensors \(/journal/chemosensors/special\\_issues/Voltamperometric\\_Sensors\)](#)Special Issue in [Sensors: Printed Electrode Sensors and Biosensors \(/journal/sensors/special\\_issues/printsensor\)](#)**Dr. Francesca Apollonio****Website1** (<https://publons.com/researcher/1337430/francesca-apollonio/>) **Website2** ([https://phd.uniroma1.it/web/APOLLONIO-FRANCESCA\\_nC1435\\_EN.aspx](https://phd.uniroma1.it/web/APOLLONIO-FRANCESCA_nC1435_EN.aspx)) **SciProfiles** (<https://sciprofiles.com/profile/400384>)

Department of INFORMATION AND COMMUNICATION TECHNOLOGY (ICT), Sapienza University of Rome, 00185 Rome, Italy

**Interests:** molecular dynamics; electromagnetic field; electric field; magnetic fields; bioelectromagnetic; drug delivery; electroporation; molecular mechanisms**Dr. Takahiro Arakawa****Website** ([https://www.researchgate.net/profile/Takahiro\\_Arakawa](https://www.researchgate.net/profile/Takahiro_Arakawa)) **SciProfiles** (<https://sciprofiles.com/profile/458147>)

Department of Biomedical Devices and Instrumentation, Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University 2-3-10, Kanda-Surugadai, Chiyoda-ku, Tokyo, 101-0062, Japan

**Interests:** Chemical and Biological Sensor; MEMS; Wearable; Gas Sensor; Imaging; Microfluidics


**Dr. Stéphane Arbault**

**Website** (<https://nsysa.ism-bordeaux.cnrs.fr/fr/membres/permanents/22-staff/304-contact-stephane-arbault.html>),

**SciProfiles** (<https://sciprofiles.com/profile/1549490>)

CNRS, Institute of Molecular Sciences, University of Bordeaux, UMR 5255, F-33400 Talence, France

 [\(toggle desktop layout cookie\)](#)  

**Interests:** bioelectrochemistry; electrochemiluminescence; spectro-electrochemistry; micro and nanoelectrodes; reactive oxygen species; cold atmospheric plasmas; bioenergetics 

**Special Issues and Collections in MDPI journals**

Special Issue in **Chemosensors: Nanotechnology-Based Bio(sensors): in COVID-19 Outbreak**

([/journal/chemosensors/special\\_issues/covid\\_outbreak](/journal/chemosensors/special_issues/covid_outbreak))

**Prof. Dr. Massood Atashbar**

**Website** (<https://wmich.edu/electrical-computer/directory/atashbar>) **SciProfiles** (<https://sciprofiles.com/profile/420126>)

Department of Electrical and Computer Engineering, Western Michigan University, 1903 W Michigan Ave, Kalamazoo, MI 49008-5329, USA

**Special Issues and Collections in MDPI journals**

Special Issue in **Biosensors: Printed and Flexible Sensors** ([/journal/biosensors/special\\_issues/p\\_flexible](/journal/biosensors/special_issues/p_flexible))



**Prof. Dr. Camelia Bala**

**Website** (<https://unibuc.ro/user/camelia.bala/?lang=en>) **SciProfiles** (<https://sciprofiles.com/profile/361118>)

Department of Analytical Chemistry, Director Doctoral School of Chemistry, University of Bucharest, 4-12 Regina Elisabeta Blvd., 030018 Bucharest, Romania

**Interests:** portable sensing platforms integrating biomimetic systems for rapid screening of undesirable substances in food and environment; novel electrode materials; electrochemical biosensors; acoustic and surface plasmon resonance transducers for immunoassay; ionic liquid-based composite for sensing; micro/nanosensors for early cancer warning system diagnostic and prognostic information

**Special Issues and Collections in MDPI journals**

Special Issue in **Sensors: Immunosensors - 2018 Trends and Perspective** ([/journal/sensors/special\\_issues/immunosensors2018](/journal/sensors/special_issues/immunosensors2018))

Special Issue in **Sensors: Portable Sensing Platforms for Environmental, Healthy and Food Safety Diagnostics**

([/journal/sensors/special\\_issues/PSPFEHAFSD](/journal/sensors/special_issues/PSPFEHAFSD))

Special Issue in **Sensors: State-of-the-Art Sensors Technology in Romania 2021** ([/journal/sensors/special\\_issues/SASR2021](/journal/sensors/special_issues/SASR2021))



**Dr. Francesco Baldini**

**Website** ([http://www.ifac.cnr.it/index.php?option=com\\_personale&sel=show&cn=Baldini%20Francesco&Itemid=81&lang=en](http://www.ifac.cnr.it/index.php?option=com_personale&sel=show&cn=Baldini%20Francesco&Itemid=81&lang=en)).

**SciProfiles** (<https://sciprofiles.com/profile/103723>)

Istituto Di Fisica Applicata Nello Carrara, Florence, Italy

**Interests:** optical sensors; biosensing; immunoassay; POCT; fluorescence; absorption; label-free; intracellular probes

**Dr. Larysa Baraban**

**Website** ([https://nano.tu-dresden.de/pages/whois\\_Larysa\\_Baraban.html](https://nano.tu-dresden.de/pages/whois_Larysa_Baraban.html))

Helmholtz Center Dresden Rossendorf, Institute for Radiopharmaceutical Cancer Research, Bautzner Landstraße 400, 01328 Dresden, Germany

**Interests:** nanobiotechnology; biosensor systems; droplet-based microfluidics; lab-on-chip; artificial micromachines



**Prof. Dr. Pierluigi Barbieri**

**Website** (<https://dscf.units.it/en/node/1064>) **SciProfiles** (<https://sciprofiles.com/profile/975527>)

Department of Chemical and Pharmaceutical Sciences, University of Trieste, Italy

**Interests:** environmental chemistry; chemometrics; GC-MS; VOCs; aerosols; olfactometry

**Special Issues and Collections in MDPI journals**

Special Issue in **Chemosensors: Chemometric Tools for Monitoring Air Type Profiles** ([/journal/chemosensors/special\\_issues/CTMATP](/journal/chemosensors/special_issues/CTMATP))



**Prof. Dr. Matteo Beccaria**

**Website** (<https://www.unisalento.it/scheda-utente/-/people/matteo.beccaria>)

Department of Mathematics and Physics "E. De Giorgi", University of Salento, Via Arnesano, I-73100 Lecce, Italy

**Interests:** computational methods; complex systems; aptamer based sensors; machine learning (selection methods); protein folding and docking





**Dr. Elena Benito-Peña**

**Website** (<https://orcid.org/0000-0001-5685-5559>)

Department of Analytical Chemistry, Faculty of Chemistry, Complutense University, Ciudad Universitaria s/n, Madrid 28040, Spain

**Interests:** optical (bio)sensing; bioinspired materials; biotechnology; analytical chemistry

[\(toggle desktop layout cookie\)](#)  

**Special Issues and Collections in MDPI journals**

Special Issue in **Sensors: Optical Immunosensors** ([/journal/sensors/special\\_issues/optical\\_immunosensors](/journal/sensors/special_issues/optical_immunosensors)).



**Prof. Dr. Chris Blackman**

**Website** (<https://www.ucl.ac.uk/chemistry/people/chris-blackman>) **SciProfiles** (<https://sciprofiles.com/profile/143739>)

Christopher Ingold Laboratories, Department of Chemistry, University College London, 20 Gordon Street, London WC1H 0AJ, UK

**Interests:** gas sensors; environmental monitoring; photocatalysis; nanomaterials; thin films; atomic layer deposition

**Special Issues and Collections in MDPI journals**

Special Issue in **Sensors: Application of Thin Film Materials in Sensors** ([/journal/sensors/special\\_issues/thin\\_film\\_materials\\_sensors](/journal/sensors/special_issues/thin_film_materials_sensors))



**Prof. Dr. Johan Bobacka**

**Website** (<https://www.abo.fi/en/contact/johan-bobacka/>)

Process Chemistry Centre, c/o Laboratory of Analytical Chemistry, Åbo Akademi University, Biskopsgatan 8, FI-20500 Åbo-Turku, Finland

**Interests:** chemical sensors; ion-selective electrodes; solid-contact ises, conducting polymers; potentiometry

**Special Issues and Collections in MDPI journals**

Special Issue in **Chemosensors: Ionophore-Based Potentiometric Sensors** ([/journal/chemosensors/special\\_issues/IBPS](/journal/chemosensors/special_issues/IBPS)).



**Prof. Dr. Victor Borovkov**

**Website** (<https://taltech.ee/organizations/organic/groups/riina-aav-2/info-7/victor-borovkov/victor-borovkov-2/>)

**SciProfiles** (<https://sciprofiles.com/profile/254159>)

1. College of Chem. and Materials Science, South-Central University for Nationalities, 182# Minzu RD, Hongshan District, Wuhan, Hubei province, 430074, China

2. Senior Research Scientist, Dept. of Chem. and Biotechnology, School of Science, Tallinn University of Technology, Akadeemia tee 15, 12618 Tallinn, Estonia

**Interests:** sensors; induced chirality; chirality transfer; supramolecular chirality; chiral chromophores; circular dichroism; chiral materials and surfaces

**Special Issues and Collections in MDPI journals**

Special Issue in **Symmetry: Supramolecular Chirality** ([/journal/symmetry/special\\_issues/supramolecular-chirality](/journal/symmetry/special_issues/supramolecular-chirality)).

Special Issue in **Symmetry: Chiral Auxiliaries and Chirogenesis** ([/journal/symmetry/special\\_issues/chirogenesis](/journal/symmetry/special_issues/chirogenesis)).

Special Issue in **Symmetry: Chiral Auxiliaries and Chirogenesis II** ([/journal/symmetry/special\\_issues/Chiral\\_Auxiliarie](/journal/symmetry/special_issues/Chiral_Auxiliarie)).

Special Issue in **Chemosensors: Novel Sensing Materials for Stereoselective Sensors Development and Chiral Pollutant Detection** ([/journal/chemosensors/special\\_issues/NSMSSDCPD](/journal/chemosensors/special_issues/NSMSSDCPD)).



**Prof. Dr. Redouane Borsali**

**Website** ([https://www.cermav.cnrs.fr/annuaire/pages\\_perso/redouane.borsali.html](https://www.cermav.cnrs.fr/annuaire/pages_perso/redouane.borsali.html))

Department of Chemistry, Université Grenoble Alpes, F-38000 Grenoble, France

**Interests:** Thin films and their properties/applications in nano-electronics including: (smart surfaces, nanolithography, photovoltaic, memory transistors, HR-biosensors, etc....); Directed Self-Assembly (DSA); Nanoparticles (micelles) & Polymersomes and their properties/applications in cosmetic & biomedical



**Dr. Rabah Boukherroub**

**Website** ([https://www.researchgate.net/profile/Rabah\\_Boukherroub](https://www.researchgate.net/profile/Rabah_Boukherroub)) **SciProfiles** (<https://sciprofiles.com/profile/149633>)

Institute of Electronics, Microelectronics and Nanotechnology, University of Lille, Lille, France

**Interests:** nanomaterials; surface chemistry; biosensors; nanomedicine; photocatalysis



**Dr. Andrey Bratov**

**Website** (<http://www.imb-cnm.csic.es/index.php/en>)

CSIC - Instituto de Microelectronica de Barcelona (IMB-CNM), Barcelona, Spain

**Interests:** potentiometric ion sensors; Electrochemical Impedance Spectroscopy; interdigitated electrode arrays; impedimetric chemical and biosensors




[Back to Top](#)

**Dr. Arnaud Brioude**

**Website** ([https://www.researchgate.net/profile/Arnaud\\_Brioude](https://www.researchgate.net/profile/Arnaud_Brioude))

Université Claude Bernard de Lyon 1, Lyon, France

**Interests:** Synthesis; nanomaterials; optical characterization

 (/toggle\_desktop\_layout\_cookie)  



**Dr. Dale A. C. Brownson**

**Website** (<http://www2.mmu.ac.uk/sste/staff/profile/index.php?id=2333>) **SciProfiles** (<https://sciprofiles.com/profile/191055>)

Faculty of Science and Engineering, Manchester Metropolitan University, Manchester, UK

**Interests:** electrochemistry; electron transfer; sensors; nanotechnology; fundamental characterization of 2D materials (including graphene); energy generation and storage

**Special Issues and Collections in MDPI journals**

Special Issue in ***Chemosensors: Novel 2D Material-Based Electrochemical Sensors***

(/journal/chemosensors/special\_issues/2D\_Material\_Sensors)



**Dr. Yoav Broza**

**Website** ([https://www.researchgate.net/profile/Yoav\\_Broza](https://www.researchgate.net/profile/Yoav_Broza)) **SciProfiles** (<https://sciprofiles.com/profile/582851>)

Department of Chemical Engineering, Technion—Israel Institute of Technology, Haifa, Israel

**Interests:** sensors; nanomaterials; volatolomics; volatile organic compounds; diagnostics; breath analysis; electronic nose; GC-MS; cancer; infectious diseases; CBRNE; homeland security; forensics

**Special Issues and Collections in MDPI journals**

Special Issue in ***Chemosensors: Sensor Array and Analytical Systems for Volatile Organic Compound***

(/journal/chemosensors/special\_issues/SAASVOC)

Special Issue in ***Chemosensors: Chemosensors for CBRNE (Chemical, Biological, Radiological, Nuclear, and Explosive) Security Applications***

(/journal/chemosensors/special\_issues/Chem\_CBRNE\_Security\_App)



**Prof. Dr. Steven W. Buckner**

**Website** (<https://www.slu.edu/arts-and-sciences/chemistry/faculty/steven-buckner.php>) **SciProfiles** (<https://sciprofiles.com/profile/1141136>)

Department of Chemistry, Saint Louis University, St. Louis, MO, 63103, USA

**Interests:** Nanomaterials synthesis and applications; energetic materials; sensors for fuel applications; X-ray microtomography; mass spectrometry



**Prof. Dr. Robert H. Byrne**

**Website** (<https://www.usf.edu/marine-science/faculty/faculty-directory/chemical-oceanography/robert-byrne.aspx>)

**SciProfiles** (<https://sciprofiles.com/profile/1311058>)

College of Marine Science, University of South Florida, 140 7th Avenue S., St. Petersburg, Florida 33701, FL, USA

**Interests:** in situ measurements; equilibria in natural waters; CO<sub>2</sub> system analysis; solution chemistry; spectrophotometric sensors; marine physical chemistry



**Dr. Franco Cacialli**

**Website** (<https://www.ucl.ac.uk/physics-astronomy/people/professor-franco-cacialli>)

Department of Physics & Astronomy, University of London, Astron, London WC1E 6BT, England, UK

**Interests:** optical and electrical properties of organic (carbon-based); printable semiconductors for optoelectronics and photonics; stretchable electronics; graphene and derivatives; low-gap printable materials

**Dr. Claudia Caltagirone**

**Website** (<https://people.unica.it/claudiacaltagirone/>) **SciProfiles** (<https://sciprofiles.com/profile/1450178>)

Dipartimento di Scienze Chimiche e Geologiche, Università degli Studi di Cagliari, Cagliari, Italy

**Interests:** supramolecular chemistry; anion recognition; cation recognition; hydrogen bonds; macrocycles



**Prof. Dr. Luigi Campanella**

**Website** (<http://www.editriceapienza.it/node/7350>) **SciProfiles** (<https://sciprofiles.com/profile/12511>)

Department of Chemistry, "La Sapienza" University, Italy

**Interests:** urban pollution; oxidative stress; cultural heritage; field effect transistor; integral toxicity



### Special Issues and Collections in MDPI journals

Special Issue in **Biosensors: Application of Biosensor Technology to Cultural Heritage** ([/journal/biosensors/special\\_issues/cultural\\_heritage](/journal/biosensors/special_issues/cultural_heritage))

Special Issue in **Biosensors: Next-Generation Immunosensors** ([/journal/biosensors/special\\_issues/next-generation\\_immunosensors](/journal/biosensors/special_issues/next-generation_immunosensors))

Special Issue in **Sensors: The Applications of Sensors and Biosensors in Investigating Drugs, Nutraceuticals and Food** ([/journal/sensors/special\\_issues/ASBIDNF](/journal/sensors/special_issues/ASBIDNF))

### Prof. Dr. Claudio Capiglia

**Website** ([https://www.researchgate.net/profile/Claudio\\_Capiglia](https://www.researchgate.net/profile/Claudio_Capiglia)) **SciProfiles** (<https://sciprofiles.com/profile/276419>)

Head of Battery Technologies Program at Recruit R&D, Tokyo, Japan Visiting Professor Nagoya Institute of Technology, Nagoya, Japan

**Interests:** research and development of cathodes, anodes, electrolytes, and electrodes for lithium-ion batteries and post-lithium-ion batteries; solid-state batteries; energy storage and energy conversion systems; materials and electrodes process engineering and manufacturing; lithium-ion cell and battery pack process engineering and manufacturing; advanced battery management systems; battery modeling; advanced powertrain for electric mobility; electric grid energy storage applications; battery and materials recycling

### Special Issues and Collections in MDPI journals

Special Issue in **Crystals: The Challenges and Applications of Solid State Battery Technology**

([/journal/crystals/special\\_issues/Applications\\_Battery](/journal/crystals/special_issues/Applications_Battery)).



### Dr. Simonetta Capone

**Website** (<https://www.le.imm.cnr.it/users/simonettacapone>) **SciProfiles** (<https://sciprofiles.com/profile/890932>)

Institute for Microelectronics and Microsystems, National Research Council, CNR-IMM, Via Monteroni, campus Ecotekne, 73100 Lecce, Italy

**Interests:** gas sensors; electronic noses; chemical analytical methods by SPME/GC-MS; multifunctional sensor systems for gas analysis; chemical sensing devices with low power sensor interface

### Special Issues and Collections in MDPI journals

Special Issue in **Chemosensors: Recent Advances in Multifunctional Sensing Technology for Gas Analysis**

([/journal/chemosensors/special\\_issues/MSTGA](/journal/chemosensors/special_issues/MSTGA)).



### Dr. Salvador Cardona-Serra

Institute for Molecular Science, C/ Catedrático José Beltrán, 2. 46980, Paterna – (Valencia), Spain

**Interests:** Molecular Nanomaterials; Spintronics; Molecular Electronics; Memristive Materials

### Prof. Dr. Huan-Tsung Chang

**Website** (<https://www.ch.ntu.edu.tw/~htchang/>) **SciProfiles** (<https://sciprofiles.com/profile/132024>)

Department of Chemistry, National Taiwan University, Taipei 106, Taiwan

**Interests:** nanoscience; green chemistry; fluorescence; sensors; surface enhanced Raman spectroscopy; mass spectrometry; separation sciences; fuel cells

### Special Issues and Collections in MDPI journals

Special Issue in **Chemosensors: Metal Nanoparticles in Chemical Sensors** ([/journal/chemosensors/special\\_issues/MNCS](/journal/chemosensors/special_issues/MNCS))

Special Issue in **International Journal of Environmental Research and Public Health: Nanomaterials-Based New Techniques, New Drugs, and Antibacterial Reagents** ([/journal/ijerph/special\\_issues/nanomaterials-drugs](/journal/ijerph/special_issues/nanomaterials-drugs)).

Special Issue in **Chemosensors: Applications of Probe Sensing in Medicine** ([/journal/chemosensors/special\\_issues/Probe\\_Sensing](/journal/chemosensors/special_issues/Probe_Sensing))



### Prof. Dr. Young-Tae Chang

**Website** (<http://ytchang.postech.ac.kr>)

Department of Chemistry, POSTECH 77 Cheongam-Ro, Nam-Gu Pohang, Gyeongbuk, 37673 Korea

**Interests:** Fluorescence sensor; Bioimaging probe; Chemical Cellomics; Live Cell Distinction; Molecular evolution



### Dr. Chien-Fu Steve Chen

**Website** (<https://sites.google.com/site/biosensinglab/principal-investigator>)

Institute of Applied Mechanics, National Taiwan University, Taipei, Taiwan

**Interests:** Point-of-care diagnostics; Nanomaterial-based sensors; Lab-on-a-chip system






MDPI

Prof. Dr. Peng Chen, FRSC

[Website \(https://research.ntu.edu.sg/expertise/academicprofile/Pages/StaffProfile.aspx?ST\\_EMAILID=chenpeng\)](https://research.ntu.edu.sg/expertise/academicprofile/Pages/StaffProfile.aspx?ST_EMAILID=chenpeng)

School of Chemical and Biomedical Engineering, Nanyang Technological University, 639798, Singapore

Interests: (Bio)nanotechnology; biosensors; nanomaterials and applications

 [\(toggle desktop layout cookie\)](#)  



Prof. Dr. ZhongYang (Z.-Y.) Cheng

[Website \(http://www.eng.auburn.edu/users/chengzh/\)](http://www.eng.auburn.edu/users/chengzh/) [SciProfiles \(https://sciprofiles.com/profile/127504\)](https://sciprofiles.com/profile/127504)

Materials Research and Education Center, Auburn University, Auburn, AL 36849, USA

Interests: actuators (artificial muscle); transducers; sensors (viscosity, acoustic, ...); MEMS/NEMS; biosensors for pathogen detection and food safety; piezoelectric, magnetostrictive, electrical, and electrochemical based



Dr. Wenlong Cheng

[Website \(http://users.monash.edu.au/~wenlongc/\)](http://users.monash.edu.au/~wenlongc/) [SciProfiles \(https://sciprofiles.com/profile/969758\)](https://sciprofiles.com/profile/969758)

Department of Chemical Engineering, Monash University, Clayton, VIC Australia

Interests: plasmonic nanocrystals; self-assembly; remote sensors; wearable sensors; electronic skins; soft bioelectronics

Prof. Dr. Yu-Ting Cheng

[Website \(http://www.ee.nctu.edu.tw/People/Professor/individual.php?index=31\)](http://www.ee.nctu.edu.tw/People/Professor/individual.php?index=31)

Institute of Electronics Engineering, National Chiao Tung University, HsinChu, Taiwan

Interests: Electrochemical Biosensors; Inkjet-printed Sensor Technology; 3D-bioprinting, MEMS

Prof. Dr. Jung Chih Chiao

[Website \(http://faculty.smu.edu/jcchiao/\)](http://faculty.smu.edu/jcchiao/)

Electrical and Computer Engineering Department, Southern Methodist University (SMU), Dallas, TX 75205, USA

Interests: pH sensor; Ion selective sensor; Noninvasive biomedical sensor; Resonant sensor; Lactate acid sensor

**Special Issues and Collections in MDPI journals**

Special Issue in [Electronics: Implantable and Wearable Wireless Medical Devices \(/journal/electronics/special\\_issues/wireless\\_medical\\_devices\)](#)

Dr. Jen-Jie Chieh

[Website \(https://orcid.org/0000-0002-7144-2637\)](https://orcid.org/0000-0002-7144-2637)

National Taiwan Normal University, Taipei, Taiwan

Interests: Electromagnetics and Sonics (photonics, magnetics, ultrasound); Biomagnetism; Sensing & Instrumentation; Magnetic nanoparticles



Prof. Dr. Heeman Choe

[Website \(https://home1.kookmin.ac.kr/~heeman/groupmember\\_CHM.html\)](https://home1.kookmin.ac.kr/~heeman/groupmember_CHM.html) [SciProfiles \(https://sciprofiles.com/profile/369614\)](https://sciprofiles.com/profile/369614)

Kookmin University, 861-1 Jeongneung-Dong, Songbuk-Gu, Seoul, Korea

Interests: Sensor materials; gas sensor; porous materials; functional materials; mechanical properties



Dr. Luís C. Coelho

[Website \(https://www.inesctec.pt/en/people/luis-carlos-coelho-5256#intro\)](https://www.inesctec.pt/en/people/luis-carlos-coelho-5256#intro) [SciProfiles \(https://sciprofiles.com/profile/280932\)](https://sciprofiles.com/profile/280932)

CAP/INESC TEC—Technology and Science and FCUP—Faculty of Sciences, University of Porto, 4169-007 Porto, Portugal

Interests: physical, chemical and biological fiber optic sensors; plasmonics; nanocoatings; optical spectroscopy

**Special Issues and Collections in MDPI journals**

Special Issue in [Sensors: Optical Fiber Sensors 2018–2019 \(/journal/sensors/special\\_issues/ofs2018\)](#)

Special Issue in [Chemosensors: Sensors for Water Quality Monitoring \(/journal/chemosensors/special\\_issues/SWQM\)](#)

Special Issue in [Sensors: Optical Fiber Plasmonic Sensors 2021 \(/journal/sensors/special\\_issues/OFP2021\)](#)



Prof. Dr. Elisabetta Comini

[Website \(http://sensor.unibs.it/people/prof-elisabetta-comini\)](http://sensor.unibs.it/people/prof-elisabetta-comini) [SciProfiles \(https://sciprofiles.com/profile/53012\)](https://sciprofiles.com/profile/53012)

Sensor Lab, Department of Information Engineering (DII), University of Brescia, Via Valotti 9, 25133 Brescia, Italy

Interests: metal oxides; nanowires; chemical sensors; gas sensors; heterostructures; functional materials; material synthesis

**Special Issues and Collections in MDPI journals**

Special Issue in **Materials: Nanostructured Materials for Chemical Sensing Applications** ([/journal/materials/special\\_issues/chemical-sensing](/journal/materials/special_issues/chemical-sensing))

Special Issue in **Materials: Ultrathin Two-dimensional (2D) Nanomaterials** ([/journal/materials/special\\_issues/ultrathin\\_two-dimensional\\_nanomaterial](/journal/materials/special_issues/ultrathin_two-dimensional_nanomaterial))

Special Issue in **Chemosensors: Hierarchical Nanostructures for Gas Sensors** ([/journal/chemosensors/special\\_issues/Hierarchical\\_Nanostructures\\_for\\_Gas\\_Sensors](/journal/chemosensors/special_issues/Hierarchical_Nanostructures_for_Gas_Sensors))

 [\(toggle desktop layout cookie\)](#)  

Special Issue in **Sensors: Metal Oxides Sensors: Innovation and Quality of Life** ([/journal/sensors/special\\_issues/MetalOxides\\_sensors](/journal/sensors/special_issues/MetalOxides_sensors))

Special Issue in **Chemosensors: Sustainable Metal Oxide Materials for Sensing Applications** ([/journal/chemosensors/special\\_issues/SMOMSA](/journal/chemosensors/special_issues/SMOMSA))



**Prof. Dr. Dario Compagnone**

**Website** ([http://www.unite.it/UniTE/Engine/RAServePG.php/P/58511UTE0413?&VRIC\\_IDOC=46](http://www.unite.it/UniTE/Engine/RAServePG.php/P/58511UTE0413?&VRIC_IDOC=46))

**SciProfiles** (<https://sciprofiles.com/profile/363727>)

Università degli Studi di Teramo, Agriculture and Environment, Teramo, Italy

**Interests:** electrochemical sensors; enzyme sensors; affinity sensing; rapid methods in food quality and safety; sample preparation; nanomaterial-based sensing; gas sensor arrays for detection of VOCs

**Special Issues and Collections in MDPI journals**

Special Issue in **Chemosensors: Chemosensors and Biosensors for Food Quality and Safety**

([/journal/chemosensors/special\\_issues/Food\\_Quality\\_and\\_Safety](/journal/chemosensors/special_issues/Food_Quality_and_Safety)).



**Dr. Teresa Corrales**

**Website** (<http://www.ictp.csic.es/qm/fq/>) **SciProfiles** (<https://sciprofiles.com/profile/1166930>)

Polymer Photochemistry Group. Department of Macromolecular Chemistry. Polymer Institute (CSIC). Madrid, Spain

**Interests:** fluorescent sensor for detection of pollutants; Design/surface modification of polymers; degradation and stability; Technologies considered environmental-friendly (Photopolymerization, Microwave irradiation and Plasma treatment); Polyelectrolites for batteries



**Prof. Dr. José Manuel Costa Fernández**

**Website** (<https://orcid.org/0000-0002-8671-5300>) **SciProfiles** (<https://sciprofiles.com/profile/798870>)

Department of Physical and Analytical Chemistry, University of Oviedo, 33006 Oviedo, Spain

**Interests:** analytical nanotechnology; biosensors; photoluminescence; analytical chemistry; separation techniques; clinical analysis; environmental analysis; mass spectrometry

**Special Issues and Collections in MDPI journals**

Special Issue in **Sensors: Nanomaterials Based Sensors and the Application** ([/journal/sensors/special\\_issues/NBSA](/journal/sensors/special_issues/NBSA))

Special Issue in **Sensors: Photoluminescent (Bio)sensors Based on Nanomaterials** ([/journal/sensors/special\\_issues/photoluminescent\\_biosensors\\_nanomaterials](/journal/sensors/special_issues/photoluminescent_biosensors_nanomaterials))



**Prof. Dr. Brian Cullum**

**Website** (<http://chemistry.umbc.edu/faculty/brian-cullum/>)

Department of Chemistry and Biochemistry, University of Maryland, Baltimore County, Baltimore, MD, USA

**Interests:** plasmonics; surface enhanced raman scattering; nanosensing; nano-imaging; chemical imaging; photoacoustic sensing; biophotonics

**Special Issues and Collections in MDPI journals**

Special Issue in **Chemosensors: Advances in Chemical Imaging and its Applications**

([/journal/chemosensors/special\\_issues/Advances\\_Chemical\\_Imaging\\_Applications](/journal/chemosensors/special_issues/Advances_Chemical_Imaging_Applications)).



**Dr. Iwona Dąbkowska**

**Website** ([https://ug.edu.pl/pracownik/668/iwona\\_dabkowska](https://ug.edu.pl/pracownik/668/iwona_dabkowska)) **SciProfiles** (<https://sciprofiles.com/profile/1125090>)

University of Gdansk, Gdańsk, Poland

**Interests:** quantum chemistry; computational chemistry; chemistry in silico; chemosensors; electrochemistry; electrode modifications



**Dr. Jagotamoy Das**

**Website** (<https://sites.google.com/site/jagotamoydas/Profile>)



**Dr. Hélène DEBEDA**

**Website** (<https://www.ims-bordeaux.fr/fr/recherche/groupe-recherche/58-organique/prims/41-PRIMS>)

**SciProfiles** (<https://sciprofiles.com/profile/46908>).

University of Bordeaux, IMS Laboratory, 351 Cours de la Libération, 33405 Talence Cedex, France

**Interests:** resonant cantilever gas sensors; piezoelectric sensors; MOX and catalytic sensors; Printed sensors; sacrificial layer process; mechanical energy harvesting



**Prof. Michele Del Carlo**

**Website** (<http://www.unite.it/UniTE/Docente/Doc/mdelcarlo>).

Faculty of Bioscience and Technology for Food, Agriculture and Environment, University of Teramo, 64023 Teramo, Italy

**Interests:** analytical chemistry; electrochemical biosensors; food analysis

**Special Issues and Collections in MDPI journals**

Special Issue in ***Micromachines: Electrochemical (Bio)sensors for Food Analysis***

([/journal/micromachines/special\\_issues/Electrochemical\\_%28Bio%29sensors\\_Food\\_Analysis](/journal/micromachines/special_issues/Electrochemical_%28Bio%29sensors_Food_Analysis))



**Prof. Dr. Manel del Valle**

**Website** (<https://www.uab.cat/web/research/researchers/a-z-1345737064001.html?param1=null&param2=1345725640772>)

**SciProfiles** (<https://sciprofiles.com/profile/4958>).

Sensors & Biosensors Group, Department of Chemistry, Universitat Autònoma de Barcelona, Edifici Cn, Campus de Bellaterra (Cerdanyola del Vallés), 08193 Barcelona, Spain

**Interests:** automation in analytical chemistry; bioinspired analytical systems; FIA systems; SIA systems; chemical sensors; biosensors; genosensors; aptamer sensors; Electrochemical Impedance Spectroscopy; multisensor systems; electronic tongues

**Special Issues and Collections in MDPI journals**

Special Issue in ***Sensors: Bioinspired Sensor Systems*** ([/journal/sensors/special\\_issues/biosensor\\_syst](/journal/sensors/special_issues/biosensor_syst))

Special Issue in ***Micromachines: Bioinspired Microsensors and Micromachines*** ([/journal/micromachines/special\\_issues/bio-microsens](/journal/micromachines/special_issues/bio-microsens))

Special Issue in ***Chemosensors: Bioinspired Chemical Sensing*** ([/journal/chemosensors/special\\_issues/BCS](/journal/chemosensors/special_issues/BCS))

Special Issue in ***Sensors: Electronic Tongues and Electronic Noses*** ([/journal/sensors/special\\_issues/ETEN](/journal/sensors/special_issues/ETEN))

Special Issue in ***Micromachines: Electronic Tongues*** ([/journal/micromachines/special\\_issues/Electronic\\_Tongues](/journal/micromachines/special_issues/Electronic_Tongues))



**Prof. Dr. Cristina Delerue-Matos**

**Website** ([https://laqv.requimte.pt/people/383-cristina\\_maria\\_fernandes\\_delerue\\_alvim\\_de\\_matos](https://laqv.requimte.pt/people/383-cristina_maria_fernandes_delerue_alvim_de_matos))

**SciProfiles** (<https://sciprofiles.com/profile/954985>)

REQUIMTE/LAQV- Instituto Superior de Engenharia do Instituto Politécnico do Porto, Rua Dr. António Bernardino de Almeida 431, 4200-072 Porto, Portugal

**Interests:** chromatographic determinations; electrochemistry; sensors/biosensors; sample preparation; environment and food control; environmental monitoring; contaminant detection; PAHs; pesticides; pharmaceuticals; heavy metals; allergens

**Special Issues and Collections in MDPI journals**

Special Issue in ***Foods: Plant Extracts: Chemical Composition, Bioactivity and Potential Applications***

([/journal/foods/special\\_issues/plant\\_bioactivity\\_applications](/journal/foods/special_issues/plant_bioactivity_applications)).

Special Issue in ***Sensors: Electrochemical Sensors and (Bio)assays for Health Applications*** ([/journal/sensors/special\\_issues/ESBHA](/journal/sensors/special_issues/ESBHA)).

Special Issue in ***Separations: Analytical Methods for the Determination of Emerging Contaminants***

([/journal/separations/special\\_issues/analy\\_contaminant](/journal/separations/special_issues/analy_contaminant)).

Special Issue in ***Foods: Advances in the Valorization of Biowastes for Novel Products***

([/journal/foods/special\\_issues/advances\\_valorization\\_biowastes\\_novel\\_products](/journal/foods/special_issues/advances_valorization_biowastes_novel_products)).



**Dr. Francesco Dell'Olio**

**Website** ([https://www.poliba.it/sites/default/files/curriculum/en/CV\\_DellOlio\\_1.pdf](https://www.poliba.it/sites/default/files/curriculum/en/CV_DellOlio_1.pdf)) **SciProfiles** (<https://sciprofiles.com/profile/203741>)

Department of Electrical and Information Engineering, Polytechnic University of Bari, 70126 Bari, Italy

**Interests:** photonics; optoelectronics; sensors; chemosensors

### **Special Issues and Collections in MDPI journals**

Special Issue in **Applied Sciences: Integrated Photonic and Plasmonic Devices Based on Slot Waveguides**

([/journal/applsci/special\\_issues/Optoelectronic\\_Fiber](https://journal/applsci/special_issues/Optoelectronic_Fiber)).

Special Issue in **Sensors: Recent Advances in Integrated Microphotonic and Fiber-Optic Gyroscopes** ([/journal/sensors/special\\_issues/Micro\\_Gyro](https://journal/sensors/special_issues/Micro_Gyro)).

Special Issue in **Applied Sciences: Integrated Photonic Sensors** ([/journal/applsci/special\\_issues/integrated\\_photonic\\_sensor](https://journal/applsci/special_issues/integrated_photonic_sensor)).

Special Issue in **Chemosensors: Wearable Chemosensors and Relevant Sensor Networks** ([/journal/chemosensors/special\\_issues/WCRSN](https://journal/chemosensors/special_issues/WCRSN)).

Special Issue in **Applied Sciences: Applications to Biophysics and Medical Physics**

([/journal/applsci/special\\_issues/Applications\\_Biophysics\\_Medical\\_Physics](https://journal/applsci/special_issues/Applications_Biophysics_Medical_Physics)).

Special Issue in **Biosensors: Feature Issue of Optical and Photonic Biosensors Section**

([/journal/biosensors/special\\_issues/Feature\\_Issue\\_Optical\\_Photonic\\_Biosensors](https://journal/biosensors/special_issues/Feature_Issue_Optical_Photonic_Biosensors)).



**Prof. Dr. Michela Alessandra Denti**

**Website** (<https://webapps.unitn.it/du/it/Persona/PER0033184/Curriculum#INFO>).

Department of Cellular, Computational and Integrative Biology (CIBIO) University of Trento, Italy

**Interests:** RNA biology; RNA biomarkers; nucleic acids sensors; biosensors; medical biotechnology

### **Special Issues and Collections in MDPI journals**

Special Issue in **Chemosensors: State of the Art in Nucleic Acid Detection** ([/journal/chemosensors/special\\_issues/SANAD](https://journal/chemosensors/special_issues/SANAD)).



**Prof. Dr. Corrado Di Natale**

**Website** (<http://sensorsgroup.uniroma2.it>). **SciProfiles** (<https://sciprofiles.com/profile/44675>).

Department of Electronic Engineering, University of Rome Tor Vergata Roma, Italy

**Interests:** gas sensors; piezoelectric sensors; electronic nose; electronic tongue; multivariate data analysis

### **Special Issues and Collections in MDPI journals**

Special Issue in **Sensors: Artificial Olfaction and Taste** ([/journal/sensors/special\\_issues/Artificial\\_olfaction\\_taste](https://journal/sensors/special_issues/Artificial_olfaction_taste)).



**Prof. Dr. Luís Dias**

**Website** (<https://esa.ipb.pt/docentes/ldias/LuisDias/Inicio.html>). **SciProfiles** (<https://sciprofiles.com/profile/23977>).

Instituto Politécnico de Bragança, Campus Santa Apolónia, 5300-253 Bragança, Portugal

**Interests:** Analytical chemistry; Potentiometry; Voltammetry; Chemometrics; Electronic tongue; Microfluidics



**Prof. Dr. Dmitry A. Dikin**

**Website** (<https://engineering.temple.edu/about/faculty-staff/dmitriy-a-dikin-tuf28501>).

Department of Mechanical Engineering, Temple University, 1947 North 12th St., Philadelphia, PA 19122, USA

**Interests:** Materials Science; Graphene; Carbon Nanotubes; Carbon Black; Polymer Nanocomposites; Micro and Nano Mechanics; Weak Superconductivity; Cryogenics; Electron and Scanning Probe Microscopy; Physical Properties Measurements



**Prof. Dr. Ivan Julian Dmochowski**

**Website** (<http://dmochowskigroup.chem.upenn.edu/>). **SciProfiles** (<https://sciprofiles.com/profile/1470924>).

Department of Chemistry, University of Pennsylvania, Philadelphia, PA, 19104 USA

**Interests:** fluorescence- and magnetic resonance-based sensors; molecular probe design; hyperpolarized Xe-129; bioanalytical chemistry; bioinorganic chemistry; protein chemistry; drug delivery; oligonucleotide therapeutics and diagnostics; host-guest chemistry



**Prof. Dr. Mingdong Dong**

**Website** (<https://pure.au.dk/portal/en/persons/md-dong%28b54afe28-ba86-4353-9f09-6618abd83284%29.html>).

Interdisciplinary Nanoscience Center, Aarhus University, 8000 Aarhus C, Denmark

**Interests:** Nanotechnology and Nanoscience; Physics: Applications and Technology

### **Special Issues and Collections in MDPI journals**

Special Issue in **Energies: Nanotechnology for Energy Materials** ([/journal/energies/special\\_issues/nanotechnology](https://journal/energies/special_issues/nanotechnology)).







Prof. Dr. Ludovic Duponchel

[\(toggle desktop layout cookie\)](#)

**Website** (<https://lasir.cnrs.fr/pmsm/>) **SciProfiles** (<https://sciprofiles.com/profile/1185029>)

LASIRE Lab (UMR CNRS 8516), University of Lille, Villeneuve d'Ascq, France

**Interests:** chemometrics; machine learning; vibrational spectroscopy (NIR, MIR, Raman); LIBS; MALDI; hyperspectral imaging



Prof. Dr. Cynthia M. Dupureur

**Website** (<http://www.umsi.edu/chemistry/Faculty/dupureur.html>)

Department of Chemistry and Biochemistry, University of Missouri-St. Louis, St. Louis, MO, USA

**Interests:** fluorescence; ligand interactions; enzyme assays



Prof. Dr. Prabir Kumar Dutta

**Website1** (<https://chemistry.osu.edu/people/dutta.1>) **Website2** (<https://www.zeovation.com/>)

Department of Chemistry and Biochemistry, The Ohio State University, Columbus, Ohio, USA

**Interests:** harsh environment sensors both for industrial and biomedical applications; ZeoVation, focused on zeolitic microporous materials with added functionalities for environmental and consumer markets

**Special Issues and Collections in MDPI journals**

Special Issue in ***Sensors: Sensing in Difficult Environments: Biomedical, Environmental and Industrial Sensors***

([/journal/sensors/special\\_issues/sdebeis](/journal/sensors/special_issues/sdebeis))

Special Issue in ***Chemosensors: Chemical Sensors Applied in Complex and Extreme Conditions***

([/journal/chemosensors/special\\_issues/CSACEC](/journal/chemosensors/special_issues/CSACEC))

Prof. Dr. Sherif A. El-Safty

**Website** ([https://samurai.nims.go.jp/profiles/sherif\\_elsafty](https://samurai.nims.go.jp/profiles/sherif_elsafty)) **SciProfiles** (<https://sciprofiles.com/profile/66344>)

National Institute for Materials Science (NIMS), Tsukuba, Japan

**Interests:** Nanomaterials; Hierarchal Structures; Porous Monoliths; Water treatment; Nanosensors; Fuel cell Lithium ion Battery

**Special Issues and Collections in MDPI journals**

Special Issue in ***Chemosensors: Nanosensors*** ([/journal/chemosensors/special\\_issues/nanosensor](/journal/chemosensors/special_issues/nanosensor))



Prof. Dr. Caglar Elbuken

**Website** (<https://www oulu.fi/university/researcher/caglar-elbuken>) **SciProfiles** (<https://sciprofiles.com/profile/1343956>)

Faculty of Biochemistry and Molecular Medicine, Faculty of Medicine, University of Oulu, 90220 Oulu, Finland

**Interests:** droplet microfluidics; biosensors; viscoelasticity; hemorheology; lab on a chip

**Special Issues and Collections in MDPI journals**

Special Issue in ***Micromachines: Recent Advances in Electrokinetic Microfluidic Systems***

([/journal/micromachines/special\\_issues/electrokinetic\\_microfluidic](/journal/micromachines/special_issues/electrokinetic_microfluidic))



Prof. Dr. Gamal ElMasry

★ (<https://recognition.webofsciencegroup.com/awards/highly-cited/2020/>) **Website** (<https://publons.com/researcher/1332071/gamal-elmasry/>) **SciProfiles** (<https://sciprofiles.com/profile/612961>)

1. Institute of Agrifood Research and Technology (IRTA), Girona, Spain 2. Agricultural Engineering Department, Faculty of Agriculture, Suez Canal University, Ismailia, Egypt

**Interests:** hyperspectral imaging; imaging spectroscopy; optical sensors; UV-VIS, NIR spectroscopy; image analysis; fluorescence spectroscopy; fluorescence imaging; chemometrics; machine learning

**Special Issues and Collections in MDPI journals**

Special Issue in ***Chemosensors: Practical Applications of Spectral Sensing in Food and Agriculture***

([/journal/chemosensors/special\\_issues/Prac\\_App\\_Sens\\_Food\\_Agri](/journal/chemosensors/special_issues/Prac_App_Sens_Food_Agri))

Dr. Mauro Epifani

**Website** (<https://www.le.imm.cnr.it/users/epifani>) **SciProfiles** (<https://sciprofiles.com/profile/567856>)

IMM-CNR, Lecce, Italy

**Interests:** chemical synthesis; gas sensors; nanomaterials; metal oxides





Prof. Dr. Jean-Francois Feller

(/toggle\_desktop\_layout\_cookie)

**Website** (<http://www.smartplasticsgroup.com/>) **SciProfiles** (<https://sciprofiles.com/profile/59611>)

Smart Plastics Group, IRDL CNRS 6027, University of South Brittany (UBS), France

**Interests:** smart properties of polymer nanocomposites; conductive quantum architectures; chemo-/piezo-/thermoresistive response analysis; health monitoring of composites and persons

**Special Issues and Collections in MDPI journals**

Special Issue in [\*\*Chemosensors: Nanocomposites Chemical Sensors\*\*](#) (/journal/chemosensors/special\_issues/CHCNS)



Dr. Josep Ferré-Borrull

**Website** ([http://webgrec.urv.es/webpages/personal/cas/000093\\_josep.ferre.urv.cat.html](http://webgrec.urv.es/webpages/personal/cas/000093_josep.ferre.urv.cat.html)) **SciProfiles** (<https://sciprofiles.com/profile/74858>)

Department of Electronics Engineering, Universitat Rovira i Virgili, Tarragona, Spain

**Interests:** modeling interaction of light with nanostructures at the nanoscale; nanoengineering of the optical and geometric properties of nanoporous materials; biotechnological applications of nanoporous materials

**Special Issues and Collections in MDPI journals**

Special Issue in [\*\*Nanomaterials: Technology and Applications of Nanoporous Alumina\*\*](#) (/journal/nanomaterials/special\_issues/tech\_appli\_nano\_alumina)



Prof. Dr. Laura Ferrer

**Website** (<https://labora.uib.eu/>)

Department of Chemistry, Environmental Radioactivity Laboratory - LaboRA, University of the Balearic Islands, Cra. Valldemossa km 7.5, 07122 Palma de Mallorca, Spain

**Interests:** Environmental Chemistry; 3D printing in Analytical Chemistry; Radiochemistry; Automation



Prof. Dr. Matjaž Finšgar

**Website** (<https://www.linkedin.com/in/matja%C5%BE-fin%C5%A1gar-5630a386/?originalSubdomain=si>)

**SciProfiles** (<https://sciprofiles.com/profile/373006>)

Laboratory for Analytical Chemistry and Industrial Analysis, Faculty of Chemistry and Chemical Technology, University of Maribor, 2000 Maribor, Slovenia

**Interests:** analytical chemistry; electrochemistry; corrosion; corrosion inhibitors; electroanalytical techniques; potentiometry; surface analysis of materials; x-ray photoelectron spectroscopy; secondary ion mass spectrometry; chemometrics; chromatography

**Special Issues and Collections in MDPI journals**

Special Issue in [\*\*Coatings: Corrosion Characterization and Surface Analysis of Metallic Materials\*\*](#) (/journal/coatings/special\_issues/corrosion\_metallic\_materials)

Special Issue in [\*\*Sensors: Electrochemical Sensors and Biosensors for Rapid Trace Analysis of Pollutants and Contaminants\*\*](#) (/journal/sensors/special\_issues/es\_sensors)



Prof. Dr. Gerd-Uwe Flechsig

**Website** (<http://www.flechsig-research.com/>)

Department of Chemistry, University of New York, University at Albany State, Albany, NY, USA

**Interests:** electrochemical sensors; analytical chemistry; environmental and forensic chemistry

**Special Issues and Collections in MDPI journals**

Special Issue in [\*\*Sensors: Thermo-Electrochemical Sensors\*\*](#) (/journal/sensors/special\_issues/thermo\_electrochemical\_sensors)



Dr. Luca Francioso

**Website** (<https://www.imm.cnr.it/users/lucafrancioso>) **SciProfiles** (<https://sciprofiles.com/profile/458563>)

Institute for Microelectronics and Microsystems, 80131 Naples, Italy

**Interests:** Chemical and Physical sensors; MEMS; micro and nanofabrication technologies; wearable devices; energy harvesting; Organ on chip

**Special Issues and Collections in MDPI journals**

Special Issue in [\*\*Sensors: Advances in Materials and Devices for Wearable Chemical Sensing\*\*](#) (/journal/sensors/special\_issues/wearable\_chem)

Back to TopTop



Prof. Dr. Marco Frascioni

(/toggle\_desktop\_layout\_cookie)

**Website** (<https://www.chimica.unipd.it/category/ruoli/personale-docente?key=B63B5BA4C2E579679532A7BF36742651>)

**SciProfiles** (<https://sciprofiles.com/profile/1437371>)

Department of Chemical Sciences, University of Padova, Padova, Italy

**Interests:** supramolecular chemistry; stimuli-responsive materials; biomimetic/sensing materials; chemical sensors; electroanalytical chemistry; biointerfaces; nanobiotechnology



Dr. Bolze Frederic

**Website** (<http://camb.cnrs.fr/la-recherche/cnm/>) **SciProfiles** (<https://sciprofiles.com/profile/1148472>)

Faculty of Chemistry, University of Strasbourg, 4 Rue Blaise Pascal, 67081 Strasbourg, France / Faculty of Pharmacy, CMB UMR CNRS-Unistra 7199, France

**Interests:** Organic Synthesis; Porphyrins; Fluorescent Probes; Two-Photon Absorption; Second Harmonic Generation; Photolabile Protective Groups - Microscopy - Theranostic;



Dr. Gilbert Fruhwirth

**Website** (<http://www.fruhwirthlab.org>)

School of Biomedical Engineering and Imaging Sciences, King's College London, London, UK

**Interests:** Cell therapy; cancer metastasis; protein-protein interaction imaging; reporter genes; cell tracking.



Dr. Vardan Galstyan

**Website** (<https://www.unibs.it/ugov/person/5869>) **SciProfiles** (<https://sciprofiles.com/profile/145012>)

Department of Information Engineering, University of Brescia, Via Valotti 9, 25133 Brescia, Italy

**Interests:** metal oxide nanostructures; carbon-containing nanomaterials; organic-inorganic composites; surface chemistry and surface physics; gas- and biosensors; flexible functional devices; cyber chemical systems for health; food and environmental monitoring

**Special Issues and Collections in MDPI journals**

Special Issue in [\*\*Chemosensors: Hierarchical Nanostructures for Gas Sensors\*\*](#)

([/journal/chemosensors/special\\_issues/Hierarchical\\_Nanostructures\\_for\\_Gas\\_Sensors](#)).

Special Issue in [\*\*Applied Sciences: Organic-Inorganic Materials and Composites for Flexible and Stretchable Functional Devices\*\*](#)

([/journal/applsci/special\\_issues/Organic\\_inorganic\\_materials](#)).

Special Issue in [\*\*Chemosensors: Sensing Materials: Advances in Synthesis, Functionalities, and Applications\*\*](#)

([/journal/chemosensors/special\\_issues/SMASFA](#)).



Dr. Philip Gardiner

**Website** (<https://www.shu.ac.uk/about-us/our-people/staff-profiles/philip-gardiner>) **SciProfiles** (<https://sciprofiles.com/profile/265583>)

Biomolecular Sciences Research Centre, Sheffield Hallam University, Sheffield S1 1WB, UK

**Interests:** analytical chemistry; colorimetric biosensors; bioremediation; atomic spectrometry

**Special Issues and Collections in MDPI journals**

Special Issue in [\*\*Chemosensors: Colorimetric Sensors and Biosensors for Healthcare, Food Safety, Environmental Monitoring and Biosecurity Applications\*\*](#) ([/journal/chemosensors/special\\_issues/Color\\_sens\\_health\\_food\\_envir\\_appl](#)).

Special Issue in [\*\*Chemosensors: Progress of Nanomaterials for Colorimetric Sensing\*\*](#)

([/journal/chemosensors/special\\_issues/Colorimetric\\_Sensing](#)).



Prof. Dr. Gaël Gautier

**Website** (<https://cv.archives-ouvertes.fr/gael-gautier>)

GREMAN UMR 7347 CNRS INSA Centre Val de Loire, Université de Tours 3 Rue de la Chocolaterie, Blois 41000, France

**Interests:** porous semiconductors; silicon nanostructures; semiconductor technology



Dr. Jalal Ghilane

**Website** (<https://www.itodys.univ-paris-diderot.fr/fr/annuaire/departement-3/surfaces-ionic-liquid-electrochemistry-energy-sieles>)

1/33 / 1 / 1 / Top

ghilane) [SciProfiles \(https://sciprofiles.com/profile/1269206\)](https://sciprofiles.com/profile/1269206)

ITODYS Laboratory UMR-CNRS 7086 Université de Paris, Paris, France

**Interests:** Electrochemistry; surface grafting; ionic liquid; scanning electrochemical microscopy; electrocatalysis

**Special Issues and Collections in MDPI journals**

 [\(toggle desktop layout cookie\)](#)  

Special Issue in [Chemodosensors: The Application of Scanning Electrochemical Microscopy \(SECM\) in Electrochemical Devices](#)

[\(/journal/chemodosensors/special\\_issues/SECMED\)](#)



**Dr. Gajanan Ghodake**

**Website** ([https://www.dongguk.edu/mbs/en/subview.jsp?id=en\\_020307030000](https://www.dongguk.edu/mbs/en/subview.jsp?id=en_020307030000)) **SciProfiles** (<https://sciprofiles.com/profile/210674>)

Faculty of College of Life Sciences and Biotechnology, Department of Biological and Environment Sciences, Dongguk University of Seoul, Korea

**Interests:** chemodosensors; biosensor; food analysis; environmental monitoring; nanomaterials synthesis and characterization

**Special Issues and Collections in MDPI journals**

Special Issue in [Chemodosensors: Colorimetric and Fluorescent Sensors in Clinical and Environmental Monitoring](#)

[\(/journal/chemodosensors/special\\_issues/Color\\_Fluores\\_Sens\\_Environ\\_Monitor\)](#)



**Dr. Ambra Giannetti**

**Website** ([https://www.ifac.cnr.it/index.php?option=com\\_personale&sel=show&cn=Giannetti%20Ambra&Itemid=81&lang=it](https://www.ifac.cnr.it/index.php?option=com_personale&sel=show&cn=Giannetti%20Ambra&Itemid=81&lang=it))

**SciProfiles** (<https://sciprofiles.com/profile/103991>)

Institute of Applied Physics "Nello Carrara", CNR-IFAC, Via Madonna del Piano 10, 50019 Sesto Fiorentino, Italy

**Interests:** optical sensor and biosensor development; surface modification with bio-molecules, e.g., antibodies, enzymes, aptamers and nucleic acid probes; analytical chemistry

**Special Issues and Collections in MDPI journals**

Special Issue in [Chemodosensors: Optical Chemodosensors and Biosensors](#)

[\(/journal/chemodosensors/special\\_issues/Optical\\_Chemosensors\\_and\\_Biosensors\)](#)

Special Issue in [Sensors: Fluorescence and Chemical Luminescence Sensors](#) [\(/journal/sensors/special\\_issues/FCLSensors\)](#)



**Dr. Michele Giordano**

Institute for Polymer Composite and Biomaterials National Research Council IPCB-CNR, Pozzuoli, Italy

**Interests:** Chemical Science and Materials Technology; Composite materials; Nanomaterials; Fiber optic sensors; Biosensors



**Dr. Luca Giorgi**

**Website** (<https://www.uniurb.it/persona/luca-giorgi>)

Department of Base Sciences and Fundamentals, Università degli Studi di Urbino Carlo Bo, Urbino, Italy

**Interests:** Synthesis and study of fluorescent chemodosensors for metal ions; anions and small molecules of biological and environmental interest



**Dr. Filippo Giubileo**

**Website** (<https://www.cnr.it/people/filippo.giubileo>) **SciProfiles** (<https://sciprofiles.com/profile/207528>)

Consiglio Nazionale delle Ricerche –Institute Superconductors, Innovative Materials and Devices (CNR-SPIN), via Giovanni Paolo II n.132, I-84084 Fisciano (SA), Italy

**Interests:** carbon nanotubes and graphene based Nano-devices; 2D materials based electronics; field emission; cold cathode; Field enhancement; Fowler-Nordheim tunneling; Nanostructures; Arrays; Nanowires; Vacuum electronics; Nano-sensors; scanning probe techniques for Nanotechnology; superconducting nanostructures

**Special Issues and Collections in MDPI journals**

Special Issue in [Nanomaterials: Graphene and Nanotube Based Devices](#) [\(/journal/nanomaterials/special\\_issues/graphene\\_nanotube\\_devices\)](#)

Special Issue in [Chemodosensors: Carbon Nanotube Sensors](#) [\(/journal/chemodosensors/special\\_issues/Carbon\\_Nanotube\\_Sensors\)](#)

Special Issue in [Nanomaterials: Superconducting- and Graphene-based Devices](#) [\(/journal/nanomaterials/special\\_issues/graphene\\_nano\)](#)

Special Issue in [Chemodosensors: Carbon Nanotube Sensors Part II](#) [\(/journal/chemodosensors/special\\_issues/CNT\\_Sensors\\_Part\\_II\)](#)

Special Issue in [Nanomaterials: Nanomaterials for Field Emission](#) [\(/journal/nanomaterials/special\\_issues/Field\\_emis\)](#)



**Asso. Prof. Alexey Glushenkov**

**Website** (<https://chemistry.anu.edu.au/people/academics/dr-alexey-glushenkov>)

Battery Storage and Grid Integration Program and Research School of Chemistry, The Australian National University, Canberra, Australia

**Interests:** electrochemical devices; nanomaterials; transmission electron microscopy

**Special Issues and Collections in MDPI journals**

Special Issue in **Chemosensors: Flexible Supercapacitors Based on Carbon Nanotubes and Graphene**

([/journal/chemosensors/special\\_issues/Flexi\\_Supercapacitor\\_Carbon\\_Graphene](/journal/chemosensors/special_issues/Flexi_Supercapacitor_Carbon_Graphene))

Special Issue in **Chemosensors: Carbon Nanomaterials and Related Materials for Sensing Applications**

([/journal/chemosensors/special\\_issues/carbon\\_nanomaterials-cheomosensors](/journal/chemosensors/special_issues/carbon_nanomaterials-cheomosensors))

**Dr. Ellen Goldman**

**Website** (<https://www.researchgate.net/scientific-contributions/38906418-Ellen-R-Goldman>) **SciProfiles** (<https://sciprofiles.com/profile/16306>)

Center for Bio/Molecular Science and Engineering, Naval Research Laboratory 4555 Overlook Ave., SW Washington, DC 20375 USA

**Interests:** biosensors; immunosensors; antibody engineering; structural DNA nanotechnology; quantum dots



**Dr. Fabio Gosetti**

**Website** (<https://www.unimib.it/fabio-gosetti>) **SciProfiles** (<https://sciprofiles.com/profile/946924>)

Department of Earth and Environmental Sciences, University of Milano-Bicocca, 20126 Milano, Italy

**Interests:** HPLC/MS; UHPLC/MS; mass spectrometry; unknown degradation products of pesticides; environmental pollutants; non-target analysis; method development and validation; food analysis

**Special Issues and Collections in MDPI journals**

Special Issue in **Separations: UHPLC-MS/MS Methods for the Identification of Emerging Contaminant Transformation Products in Surface Water**

([/journal/separations/special\\_issues/UHPLC\\_Water](/journal/separations/special_issues/UHPLC_Water))



**Prof. Dr. Markus Graf**

**Website** (<https://www.researchgate.net/profile/Markus-Graf>)

Electrical Engineering, Karlsruhe University of Applied Sciences, Karlsruhe, Germany

**Interests:** smart systems; environmental sensors; micro- and nanotechnology; sustainable innovation



**Prof. Dr. Maria Grzeszczuk**

**Website** (<https://chem.uni.wroc.pl/pl/pracownik/29>)

University of Wrocław, Plac Uniwersytecki 1, 50-137 Wrocław, Poland

**Interests:** Conducting polymers based electrode materials; Nanostructures; Amperometric/voltamperometric sensors; Impedimetric sensors

**Special Issues and Collections in MDPI journals**

Special Issue in **Chemosensors: Analytical (Chem and Bio)sensors Based on EIS Measurements**

([/journal/chemosensors/special\\_issues/Ana\\_sens](/journal/chemosensors/special_issues/Ana_sens))

**Prof. Dr. H. James Harmon**

**Website** (<http://physics.okstate.edu/harmon/#research>)

Emeritus Professor Physics Department, Oklahoma State University, Stillwater, OK 74078-3072, USA

**Interests:** enzyme-based real-time chemical sensors; receptor-based real-time biological sensors; optical sensors; porphyrins and porphyrin-based sensors; nanolayer thin-film sensors; absorbance/fluorescence/evanescent spectroscopy; multiphoton absorbance; photocatalytic degradation of compounds by porphyrins

**Special Issues and Collections in MDPI journals**

Special Issue in **Chemosensors: Improving Enzyme-Based Sensors with Innovative Materials and Techniques**

([/journal/chemosensors/special\\_issues/EBS](/journal/chemosensors/special_issues/EBS))



**Prof. Dr. Mikael Hedenqvist**

**Website** (<https://www.kth.se/profile/mikaelhe>) **SciProfiles** (<https://sciprofiles.com/profile/82581>)

Department of Fibre and Polymer Technology, School of Engineering Sciences in Chemistry, Biotechnology and Health, KTH Royal Institute of Technology, SE-100 44 Stockholm, Sweden

**Interests:** physical properties of synthetic and renewable polymers, polymers from renewable resources (proteins and polyaccharides), mass transport and





mechanical properties, modelling of polymers and polymer properties, packaging, ageing properties, magnetic materials, blends, micro- and nanocomposites, foams, processing of polymers, electrospinning

#### **Special Issues and Collections in MDPI journals**

Special Issue in ***Nanomaterials: Multifunctional Polymer-Based Nanocomposites***

([/journal/nanomaterials/special\\_issues/multifunc\\_poly\\_nanocompo](http://journal/nanomaterials/special_issues/multifunc_poly_nanocompo)).

 [\(toggle desktop layout cookie\)](#)  



#### **Dr. Yaovi Holade**

**Website** (<http://www.iemm.univ-montp2.fr/spip.php?article498&lang=fr&lang=fr&lang=en>)

**SciProfiles** (<https://sciprofiles.com/profile/224890>)

Institut Européen des Membranes, IEM – UMR 5635, Univ Montpellier, ENSCM, CNRS 300 Avenue du Professeur Emile Jeanbrau, 34090 Montpellier, Cedex 5, France

**Interests:** electrochemistry; electrocatalysis; nanomaterials; electroanalytical chemistry; (bio)fuel cells



#### **Prof. Dr. M. Carmen Horrillo**

**Website** (<https://biosensorscongress.conferenceseries.com/ocm/2018/carmen-horrillo-g-emes-instituto-de-tecnolog-as-spain>)

Tecnología de Sensores Avanzados (SENSAVAN), Instituto de Tecnologías Físicas y de la Información (ITEFI), CSIC, Serrano 144, 28006 Madrid, Spain

**Interests:** chemical and biological sensors; electronic noses; nanomaterials; sensor technology

#### **Special Issues and Collections in MDPI journals**

Special Issue in ***Sensors: E-noses: Sensors and Applications*** ([/journal/sensors/special\\_issues/sensors\\_applications](http://journal/sensors/special_issues/sensors_applications)).

Special Issue in ***Biosensors: Electronic Noses and Tongues as Biosensors*** ([/journal/biosensors/special\\_issues/e\\_noses\\_tongues](http://journal/biosensors/special_issues/e_noses_tongues)).

Special Issue in ***Applied Sciences: Chemical and Biological Sensors Applied to Environment and Health***

([/journal/applsci/special\\_issues/chemistry\\_biological\\_sensor\\_environment\\_health](http://journal/applsci/special_issues/chemistry_biological_sensor_environment_health)).



#### **Prof. Dr. Matiar R Howlader**

**Website** (<https://www.eng.mcmaster.ca/ece/people/faculty/matiar-howlader>) **SciProfiles** (<https://sciprofiles.com/profile/657257>)

Department of Electrical and Computer Engineering, ITB-A216, McMaster University, 1280 Main Street West, Hamilton, Ontario, L8S 4K1, Canada

**Interests:** soft and hard materials integration; wearable electrochemical sensors; sweat pH and glucose sensing; glutamate sensing; cannabis sensing; water pH and heavy metals sensing; two-dimensional nanomaterials; energy harvesting; surface activated nanobonding

#### **Special Issues and Collections in MDPI journals**

Special Issue in ***Sensors: Water and Health pH Sensors*** ([/journal/sensors/special\\_issues/pH-Sensors](http://journal/sensors/special_issues/pH-Sensors)).

#### **Prof. Dr. I-Ming Hsing**

**Website** ([https://cbe.ust.hk/cgi-bin/facultydetails.php?people\\_email=kehsing](https://cbe.ust.hk/cgi-bin/facultydetails.php?people_email=kehsing))

Head and Professor, Division of Biomedical Engineering, Professor, Department of Chemical and Biomolecular Engineering, Room 2004A, Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong

**Interests:** biosensors; bioMEMS; biomicrosystem; electrochemistry-based detection of biomacromolecules and fuel cells (PEFC, DMFC and Micro Fuel Cell)

#### **Special Issues and Collections in MDPI journals**

Special Issue in ***Sensors: Biosensors for Point-of-Care Applications*** ([/journal/sensors/special\\_issues/point\\_of\\_care\\_apps](http://journal/sensors/special_issues/point_of_care_apps)).



#### **Prof. Dr. Takeo Hyodo**

**Website** (<http://research.jimu.nagasaki-u.ac.jp/IST?>

[ISTActId=FINDENDetail&ISTKidoKbn=&ISTErrorChkKbn=&ISTFormSetKbn=&ISTTokenChkKbn=&userId=220](http://research.jimu.nagasaki-u.ac.jp/IST?ISTActId=FINDENDetail&ISTKidoKbn=&ISTErrorChkKbn=&ISTFormSetKbn=&ISTTokenChkKbn=&userId=220))

**SciProfiles** (<https://sciprofiles.com/profile/352702>)

Graduate School of Engineering, Nagasaki University, 1-14 Bunkyo-machi, Nagasaki 852-8521, Japan

**Interests:** Ceramic gas sensors; mesoporous and macroporous materials

#### **Dr. Salvatore Iannotta**

**Website** (<https://www.imem.cnr.it/>)

IMEM-CNR Institute of Materials for Electronics and Magnetism, Parco Area delle Scienze 37/A, 43124 Parma, Italy




**Interests:** nano, molecular materials and systems for sensing and smart devices; organic electrochemical sensing and field effect transistors; organic bioelectronics and neuromorphic devices; bio-hybrid sensing devices and systems



**Dr. Fatih Inci**

**Website** (<https://profiles.stanford.edu/fatih-inc>)

Institute of Materials Science and Nanotechnology, the National Nanotechnology Research Center of Turkey (UNAM), Universiteler Mah., Bilkent University UNAM, 06800 Cankaya, Ankara, Turkey

 [\(toggle desktop layout cookie\)](#)  

**Interests:** microfluidics; lab-on-a-chip; plasmonic biosensors; bionanotechnology; nanoplasmonics; wearable sensors; infectious diseases; HIV/AIDS; cancer research; personalized medicine; point of care diagnostics; mobile health; global health; biomedical engineering; molecular diagnostics; telemedicine

**Special Issues and Collections in MDPI journals**

Special Issue in [Biosensors: Novel Biosensing Platforms for Disease Diagnosis: Translation of Lab-based Technologies into Clinical Settings \(/journal/biosensors/special\\_issues/bio\\_platform\)](#).

Special Issue in [Biosensors: Feature Papers: State-of-the-Art Biosensors Technology 2018 \(/journal/biosensors/special\\_issues/FP\\_2018\)](#).

Special Issue in [Chemosensors: Advances in Electrochemical Sensing Modality in Cancer Research \(/journal/chemosensors/special\\_issues/Electrochemical\\_Sensing\\_Cancer\)](#).



**Dr. Atanu Jana**

**Website** (<http://atanujana17.wixsite.com/mysite>) **SciProfiles** (<https://sciprofiles.com/profile/842344>)

Department of Physics and Semiconductor, Dongguk University, Seoul, Korea

**Interests:** Organic synthesis; Inorganic synthesis; Material chemistry; Optoelectronic devices; Cell biology

**Special Issues and Collections in MDPI journals**

Special Issue in [Chemosensors: Chemosensors and Their Application in Cell Imaging Studies \(/journal/chemosensors/special\\_issues/CACIS\)](#).



**Prof. Dr. Huangxian Ju**

**Website** (<https://cms.nju.edu.cn/hxju/>) **SciProfiles** (<https://sciprofiles.com/profile/10738>)

Director, State Key Laboratory of Analytical Chemistry for Life Science, Department of Chemistry, Nanjing University, Nanjing 210093, China

**Interests:** immunosensors; electrochemical sensors; chemically modified electrodes; biosensors; electroanalysis

**Special Issues and Collections in MDPI journals**

Special Issue in [Sensors: Papers presented at I3S2004, Nanjing. \(/journal/sensors/special\\_issues/i3s2004\)](#).

Special Issue in [Sensors: Nanobiosensing for Sensors \(/journal/sensors/special\\_issues/NFS\)](#).

Special Issue in [Sensors: Chemical Sciences in Nanjing University: 100th Anniversary \(/journal/sensors/special\\_issues/100anniversaryNJU\)](#).



**Dr. Hee-Tae Jung**

**Website** (<http://oem.kaist.ac.kr>)

Dept. of Chemical and Biomolecular Engineering, Korea Advanced Institute of Science & Technology 291 Daehak-ro, Daejeon 305-338, Korea

**Interests:** Nanomaterials; Self-assembly; Chemical sensor; CO<sub>2</sub> catalyst



**Dr. Young Mee Jung**

**Website** (<http://knuas1.kangwon.ac.kr/>) **SciProfiles** (<https://sciprofiles.com/profile/359188>)

Kangwon National University, Chuncheon, Korea

**Interests:** Raman; IR; 2D-COS; sensor; battery materials; polymers, proteins



**Dr. Avinash A. Kadam**

**Website** ([https://www.researchgate.net/profile/Avinash\\_Kadam4](https://www.researchgate.net/profile/Avinash_Kadam4)) **SciProfiles** (<https://sciprofiles.com/profile/644735>)

Research Institute of Biotechnology and Medical Converged Science, Dongguk University-Seoul, Biomed Campus, 32 Dongguk-ro, Ilsandong-gu, Goyang-si 10326, Gyeonggi-do, Korea

**Interests:** nano-bio-materials; surface chemistry; enzyme-based biosensors; nanomedicines

**Special Issues and Collections in MDPI journals**

Special Issue in [Chemosensors: Colorimetric and Fluorescent Sensors in Clinical and Environmental Monitoring \(/journal/chemosensors/special\\_issues/Color\\_Fluores\\_Sens\\_Environ\\_Monitor\)](#).



**Dr. Myrtil L. Kahn**

**Website** (<https://www.lcc-toulouse.fr/auteur192.html?lang=fr>)



**Dr. Jozef Kaiser**

**Website** (<https://www.vutbr.cz/en/people/jozef-kaiser-2596/projekty#navigace-vizitka>)

Central European Institute of Technology, Brno University of Technology, Czech Republic

**Interests:** laser-induced breakdown spectroscopy-LIBS; laser induced fluorescence spectroscopy - LIFS; X-ray radiography and micro computed tomography (uCT)



**Dr. Pu Kanyi**

**Website** (<https://www.ntu.edu.sg/home/kypu/Group%20Members1.html>)

School of Chemical and Biomedical Engineering, School of Physical & Mathematical Sciences, Nanyang Technological University, 639798, Singapore

**Interests:** (1) Molecular Imaging: Detection and monitoring of pathological processes in disease microenvironment at the molecular level for prognosis, diagnosis and therapeutic outcome assessment; (2) Chemical Biology: Design and synthesis of activatable imaging probes to uncover how reactive radical species modulate tumor metabolism, promote metastasis and angiogenesis, and foster drug resistance; (3) Materials Science: Development of organic semiconducting nanomaterials with state-of-art imaging modalities such as photoacoustic imaging, near-infrared fluorescence imaging and bioluminescent imaging; (4) Biotechnology: Development of noninvasive high-throughput technologies for drug screening with a focus on real-time in vivo imaging of drug metabolism and evolution of drug-induced toxicity



**Prof. Dr. Mikael Karlsson**

**Website** (<https://katalog.uu.se/profile/?id=N98-33>) **SciProfiles** (<https://sciprofiles.com/profile/776863>)

Department of Materials Science and Engineering, Uppsala University, Uppsala, Sweden

**Interests:** Micro- and nanofabrication; diamond; biosensors; infrared spectroscopy; surface chemistry; photonics



**Prof. Dr. Tetsuya Kida**

**Website** (<https://www.kida-lab-kumamoto.com/>) **SciProfiles** (<https://sciprofiles.com/profile/421637>)

Department of Applied Chemistry & Biochemistry, Kumamoto University, Japan

**Interests:** gas sensors; nanocrystals; electrochemical devices; inorganic-organic hybrids; 2-D materials

**Special Issues and Collections in MDPI journals**

Special Issue in **Sensors: Functional Materials for the Applications of Advanced Gas Sensors** ([/journal/sensors/special\\_issues/fuctionmaterial](/journal/sensors/special_issues/fuctionmaterial))

Special Issue in **Sensors: Application of Functional Inorganic Materials in Chemical Sensors** ([/journal/sensors/special\\_issues/ICS](/journal/sensors/special_issues/ICS))



**Prof. Dr. Byoung Chan Kim**

**Website** ([https://www.researchgate.net/profile/Byoung\\_Chan\\_Kim](https://www.researchgate.net/profile/Byoung_Chan_Kim)) **SciProfiles** (<https://sciprofiles.com/profile/287425>)

Korea Institute of Science and Technology (KIST) Center for Environment, Health, and Welfare Research Hwarangno 14-gil 5, Seongbuk-gu, 02792 Seoul, Korea

**Interests:** aptamer screening; chemical and biological sensors; environmental monitoring; bioaerosol monitoring; photocatalysis for disinfection



**Prof. Dr. Jong Kyu Kim**

**Website** (<http://www.npol.postech.ac.kr>)

Department of Materials Science and Engineering, Pohang University of Science and Technology (POSTECH), Pohang, Korea

**Interests:** light-emitting diodes; anti-reflection coatings; nanostructured thin films; hexagonal boron nitrides

**Dr. Bruce Kim**

**Website** (<https://www.cuny.cuny.edu/profiles/bruce-kim>) **SciProfiles** (<https://sciprofiles.com/profile/265516>)

City University of New York, NY, USA

**Interests:** nanotechnology; nanosensors; nano materials; sensor electronics; nano structures; nano biosensors; neural sensors



Dr. Tae Geun Kim

[\(toggle desktop layout cookie\)](#)

**Website** (<http://asl.korea.ac.kr>)

School of Electrical Engineering, Korea University Seongbuk-gu, Seoul 02841, Korea

**Interests:** Electrochemical devices and sensors; Optical chemical sensors; Field-effect transistor sensors; Gas sensors, pH sensors

Prof. Dr. Norbert Klein

**Website** (<https://www.imperial.ac.uk/people/n.klein>)

Professor of Electromagnetic Materials Director of Imperial's Centre for Terahertz Science and Engineering Department of Materials, Imperial College London South Kensington Campus, London SW7 2AZ, UK

**Interests:** microwave-to-terahertz sensors for liquids; sensor systems for airport security; microfluidic sensor systems for biomedical applications; dielectric and photonic resonators for sensors and wireless communication; plasmonic structures for sensor applications; electromagnetic characterization of nanomaterials; terahertz devices based on 2D materials

**Special Issues and Collections in MDPI journals**

Special Issue in **[Chemosensors: Electromagnetic Sensors for Health, Security, Industrial Processing and Quality Control](#)**  
([/journal/chemosensors/special\\_issues/Electromagneticsensors](/journal/chemosensors/special_issues/Electromagneticsensors))



Prof. Dr. Wolfgang Knoll

**Website** (<http://www.ait.ac.at>) **SciProfiles** (<https://sciprofiles.com/profile/107833>)

Austrian Institute of Technology GmbH, Biosensor Technologies, Konrad-Lorenzstraße, 24, 3430 Tulln, Austria

**Interests:** integrated optics; (membrane) biophysics; (biofunctional) surface science; biosensing; electrochemistry

**Special Issues and Collections in MDPI journals**

Special Issue in **[Chemosensors: PEDOT Composite Films for Electrochemical and Electronic Sensing](#)**  
([/journal/chemosensors/special\\_issues/pcfefs](/journal/chemosensors/special_issues/pcfefs))

Dr. Tassos Koidis

**Website** (<https://pure.qub.ac.uk/en/persons/tassos-koidis>) **SciProfiles** (<https://sciprofiles.com/profile/1028023>)

Food Science and Nutrition, Queen's University Belfast, Belfast, UK

**Interests:** chemometrics; vibrational spectroscopy; modelling; chemical composition; olive oil



Prof. Dr. Christos Kokkinos

**Website** (<http://scholar.uoa.gr/christok>) **SciProfiles** (<https://sciprofiles.com/profile/729032>)

Department of Chemistry, National and Kapodistrian University of Athens, Athens 11527, Greece

**Interests:** low-cost sensors; lab-on-a-chip; 3D printing; biosensors; trace metal analysis; electrochemistry; quantum dots; nanoparticles

**Special Issues and Collections in MDPI journals**

Special Issue in **[Sensors: 3D Printing Technologies in Electrochemical \(Bio\)Sensing](#)** ([/journal/sensors/special\\_issues/3D\\_TEB](/journal/sensors/special_issues/3D_TEB))



Dr. Andrei Kolmakov

**Website** (<http://www.nist.gov/cnst/kolmakov.cfm>) **SciProfiles** (<https://sciprofiles.com/profile/131278>)

Center for Nanoscale Science and Technology, National Institute of Standards and Technology, NIST 100 Bureau Drive, Bldg. 216/Rm.B117, Gaithersburg, MD 20899-6204, USA

**Interests:** chemical sensing and catalysis with low dimensional materials; fabrication of novel nanostructures; materials and devices for sensing; In situ/in vivo Imaging and spectroscopy of working nanostructures and devices using SEM; SPEM; PEEM and STM/AFM techniques



Prof. Dr. Chung-Wei Kung

**Website** (<https://sites.google.com/site/kunggroupncku/c-w-kung>)

Department of Chemical Engineering, National Cheng Kung University (NCKU), Tainan 70101, Taiwan

**Interests:** electrochemistry; metal-organic frameworks; nanomaterials; energy storage and conversion

**Special Issues and Collections in MDPI journals**

Special Issue in **[Applied Sciences: Metal-Organic Frameworks \(MOFs\) toward Electrochemical Applications](#)**  
([/journal/applsci/special\\_issues/MOFs\\_Electrochemical](/journal/applsci/special_issues/MOFs_Electrochemical))

**Prof. Dr. Chao-Sung Lai**

**Website** ([https://www.researchgate.net/profile/Chao\\_Sung\\_Lai](https://www.researchgate.net/profile/Chao_Sung_Lai)) **SciProfiles** (<https://sciprofiles.com/profile/46151>)

Department of Electronic Engineering, Biosensor Group, Biomedical Engineering Research Center Chang Gung University, Taoyuan 33302, Taiwan

**Interests:** transistor-based sensors; metal oxides; nanowires; chemical sensors; gas sensors; bio sensors   

**Special Issues and Collections in MDPI journals**

Special Issue in ***Chemosensors: Selected Papers from the International Electron Devices & Materials Symposium 2020 (IEDMS 2020)***

([/journal/chemosensors/special\\_issues/SPIEDMS](/journal/chemosensors/special_issues/SPIEDMS))

Special Issue in ***Chemosensors: Selected Papers from the International conference on Smart Sensors (ICSS 2021)***

([/journal/chemosensors/special\\_issues/ICSS](/journal/chemosensors/special_issues/ICSS))

**Prof. Dr. Edward P. C. Lai**

**Website** (<https://carleton.ca/chemistry/people/lai-edward-p-c/>) **SciProfiles** (<https://sciprofiles.com/profile/68404>)

Department of Chemistry, Carleton University, Ottawa, ON, K1S 5B6, Canada

**Interests:** capillary electrophoresis; electroanalytical chemistry; environmental analysis; mass spectrometry; molecular spectroscopy; pharmaceutical analysis; mercury analysis; nanoparticle analysis

**Special Issues and Collections in MDPI journals**

Special Issue in ***Coatings: Effects of Polymer Coatings on Toxicity of Nanomaterials*** ([/journal/coatings/special\\_issues/polym-coat](/journal/coatings/special_issues/polym-coat))

Special Issue in ***Coatings: Environmental Coatings on Nano-surfaces and Interfaces***

([/journal/coatings/special\\_issues/environ\\_surf\\_interface\\_nano](/journal/coatings/special_issues/environ_surf_interface_nano))

Special Issue in ***Chemosensors: Chemical Reagents for Sensor Design and Development***

([/journal/chemosensors/special\\_issues/Chem\\_Reagent\\_Sens\\_Design](/journal/chemosensors/special_issues/Chem_Reagent_Sens_Design))

Special Issue in ***Molecules: New Analytical Methods for Environmental Contaminants and Their Metabolites***

([/journal/molecules/special\\_issues/environmental\\_contaminants](/journal/molecules/special_issues/environmental_contaminants))



**Prof. Dr. Győző G. Láng**

**Website** (<http://electro.chem.elte.hu/>) **SciProfiles** (<https://sciprofiles.com/profile/993988>)

Department of Physical Chemistry&Laboratory of Electrochemistry and Electroanalytical Chemistry, Eötvös Loránd University, H-1117 Budapest, Hungary

**Interests:** development and improvement of electrochemical methods (voltammetry, impedance spectroscopy, piezogravimetry, electrochemical mechanics, etc.); electrochemical thermodynamics; thermodynamics of interfaces; electrochemistry of electroactive polymers; electrochemical corrosion; mathematical modelling of electrochemical systems



**Dr. Stéphane Le Calvé**

**Website** (<http://icpees.unistra.fr/en/institute/>) **SciProfiles** (<https://sciprofiles.com/profile/124481>)

Institute of Chemistry and Processes for Energy, Environment and Health (ICPEES), University of Strasbourg and CNRS (UMR 7515), 25 rue Becquerel, 67087 Strasbourg, France

**Interests:** air quality; atmospheric chemistry; analytical chemistry; volatile organic compounds; microfluidics; miniaturized devices; sensors

**Special Issues and Collections in MDPI journals**

Special Issue in ***Chemosensors: Advances in Analytical Systems for Gaseous Mixture*** ([/journal/chemosensors/special\\_issues/AASGM](/journal/chemosensors/special_issues/AASGM))

Special Issue in ***Atmosphere: VOC Sensing and Measurements*** ([/journal/atmosphere/special\\_issues/voc\\_sensing](/journal/atmosphere/special_issues/voc_sensing))

**Prof. Dr. Ching-Ting Lee**

**Website** (<https://www.yzu.edu.tw/aboutyzu/index.php/en-us/vice-president/lee-vice-president>)

Department of Electrical Engineering, National Cheng Kung University/Yuan Ze University, Taiwan

**Interests:** GaS sensors; biosensors; microelectronic devices; optoelectronic devices



**Prof. Dr. Seung-Woo Lee**

**Website** ([http://chempro.env.kitakyu-u.ac.jp/~slee/en\\_index.html](http://chempro.env.kitakyu-u.ac.jp/~slee/en_index.html)) **SciProfiles** (<https://sciprofiles.com/profile/125216>)

Graduate School of Environmental Engineering, The University of Kitakyushu, 1-1 Hibikino, Wakamatsu, Kitakyushu 808-0135, Japan

**Interests:** chemical sensors; molecular imprinting; self-assembly; nanoparticles; porous materials; metabolite analysis



**Prof. Dr. Alla Lemeune**

**Website** (<http://perso.ens-lyon.fr/alla.lemeune>) **SciProfiles** (<https://sciprofiles.com/profile/296774>)

ENS de Lyon, UMR 5182, CNRS, Université Claude Bernard Lyon 1, Laboratoire de Chimie, 69342 Lyon, France





**Interests:** design of biomimetic functional molecular materials for detection and catalysis (synthesis of linear and macrocyclic nitrogen-based ligands, chemosensors for detection toxic metal ions, molecular recognitions, environmental monitoring, self-assembly, sol-gel processes, functionalization of



surfaces, hybrid materials based on metal phosphonates, transition metal-catalyzed reactions, heterogenized catalysts)

**Special Issues and Collections in MDPI journals**

Special Issue in **Chemosensors: Molecular Materials for Detection of Metal Ions** ([/journal/chemosensors/special\\_issues/MMDMI](/journal/chemosensors/special_issues/MMDMI))

 ([toggle desktop layout](#))   



**Prof. Dr. Andrzej Lewenstam**

**Website** (<https://orcid.org/0000-0003-3644-7296>) **SciProfiles** (<https://sciprofiles.com/profile/644697>)

School of Engineering and the Future Industries Institute, University of South Australia, Adelaide SA 5001, Australia

**Interests:** sensor technology; chemical and bio-sensors; electroanalysis and electrochemistry; modeling of sensors' response mechanism

**Special Issues and Collections in MDPI journals**

Special Issue in **Sensors: Potentiometric Sensors** ([/journal/sensors/special\\_issues/PS](/journal/sensors/special_issues/PS))

Special Issue in **Membranes: Advances in Artificial and Biological Membranes: Mechanisms of Ionic Sensitivity, Ion-Sensor Designs and**

**Applications for Ions Measurement** ([/journal/membranes/special\\_issues/Advances\\_Ion\\_Sensors](/journal/membranes/special_issues/Advances_Ion_Sensors))



**Prof. Dr. Jinghong Li**

★ (<https://recognition.webofsciencegroup.com/awards/highly-cited/2020/>) **Website**

([http://www.chem.tsinghua.edu.cn/publish/chem/2142/2010/20101215133648410721596/20101215133648410721596\\_.html](http://www.chem.tsinghua.edu.cn/publish/chem/2142/2010/20101215133648410721596/20101215133648410721596_.html))

**SciProfiles** (<https://sciprofiles.com/profile/638631>)

Department of Chemistry, Tsinghua University, Beijing 100084, China

**Interests:** electroanalytical chemistry and bioanalysis, bioelectrochemistry and biosensors, single molecular and single cell analysis, interfacial electrochemistry and nanoscopic electrochemistry, fundamental aspects of energy conversion and storage



**Dr. Sam F. Y. Li**

**Website** ([https://www.chemistry.nus.edu.sg/people/academic\\_staff/lifys.htm](https://www.chemistry.nus.edu.sg/people/academic_staff/lifys.htm)) **SciProfiles** (<https://sciprofiles.com/profile/778088>)

Department of Chemistry, National University of Singapore, Singapore

**Interests:** environmental analysis and sensing; water treatment technologies; waste to energy; microbial fuel cells; metabolomics; capillary electrophoresis; bioimaging; nanomaterials analysis; chromatography-tan



**Dr. Ivan T. Lima Jr.**

**Website** (<http://www.ndsu.edu/faculty/limajr/>)

Associate Professor of Department of Electrical and Computer Engineering, North Dakota State University, Fargo, ND 58108-6050, USA

**Interests:** biomedical optics; biomedical engineering; biosensing



**Prof. Dr. Jin-Ming Lin**

**Website** ([http://www.chem.tsinghua.edu.cn/publish/chemen/2141/2011/20110404171421045835694/20110404171421045835694\\_.html](http://www.chem.tsinghua.edu.cn/publish/chemen/2141/2011/20110404171421045835694/20110404171421045835694_.html))

**SciProfiles** (<https://sciprofiles.com/profile/488326>)

Department of Chemistry, Tsinghua University, Beijing, China

**Interests:** Bio- and Environmental Analytical Chemistry 1) Microfluidics and mass spectrometry for cell analysis 2) Chemiluminescence/fluorescence immunoassay for protein and DAN analysis 3) Analytical Methods for negative oxygen ions and reactive oxygen species (ROS) 4) Sample pretreatment for mass spectrometry and chromatography analysis 5) Development of analytical instrumentation



**Dr. Qingjun Liu**


**Website** (<http://www.biosensors.com.cn/ds/>)

Biomedical Engineering, Zhejiang University, Hangzhou, China

**Interests:** Bioelectronics & Biosensors



Prof. Dr. Yi Liu

 [Website \(http://faculty.whu.edu.cn/show.jsp?lang=cn&n=Yi%20Liu\)](http://faculty.whu.edu.cn/show.jsp?lang=cn&n=Yi%20Liu)

Department of Chemistry, Wuhan University, Wuhan 430072, China

**Interests:** Nanobiosensor; Multifunctional Molecular Probe; Chemical Thermodynamic

 [\(toggle desktop layout cookie\)](#)  



Prof. Dr. Zhihong Liu

[Website \(https://webofgroup.cn/upconversionliu/#/home\)](https://webofgroup.cn/upconversionliu/#/home)

College of Chemistry & Molecular Sciences, Wuhan University, Wuhan 430072, China

**Interests:** Optical Sensor; Electrochemical Sensor; Fluorescence probe; Bioimaging



Dr. Xianghong Liu

[Website \(https://www.researcherid.com/rid/G-5318-2010\)](https://www.researcherid.com/rid/G-5318-2010) [SciProfiles \(https://sciprofiles.com/profile/1511733\)](https://sciprofiles.com/profile/1511733)

College of Physics, Qingdao University, Qingdao 266071, China

**Interests:** metal oxide nanostructures; gas sensors; thin films; exhaled breath diagnosis; micro-device fabrication

**Special Issues and Collections in MDPI journals**

Special Issue in [Chemosensors: Emerging Applications of Gas Sensors Based on Metal Oxides](#)

([/journal/chemosensors/special\\_issues/gas\\_sensors\\_metal\\_oxides](/journal/chemosensors/special_issues/gas_sensors_metal_oxides)).

Prof. Dr. Yu-Lung Lo

[Website \(http://www.me.ncku.edu.tw/enus/content/you-lung-lo\)](http://www.me.ncku.edu.tw/enus/content/you-lung-lo) [SciProfiles \(https://sciprofiles.com/profile/728035\)](https://sciprofiles.com/profile/728035)

Department of Mechanical Engineering, Institute of Nanotechnology and Microsystem Engineering, National Cheng Kung University, Tainan, Taiwan

**Interests:** optical sensors; quantum dots sensors; nanostructures for chemical sensing; fluorescence sensors; biosensors

**Special Issues and Collections in MDPI journals**

Special Issue in [Chemosensors: Photonic Sensors for Biological and Chemical Measurements](#) ([/journal/chemosensors/special\\_issues/photonic-sensor](/journal/chemosensors/special_issues/photonic-sensor)).



Prof. Dr. Pilar López-Cornejo

[Website \(https://www.researchgate.net/profile/P\\_Lopez-Cornejo\)](https://www.researchgate.net/profile/P_Lopez-Cornejo) [SciProfiles \(https://sciprofiles.com/profile/601388\)](https://sciprofiles.com/profile/601388)

Department of Physical Chemistry, Faculty of Chemistry, University of Seville, Prof. García González nº 1, 41012 Seville, Spain

**Interests:** nanomaterials; polymers; physical chemistry; Kinetics; thermodynamics; carbon nanotubes; dna; gene therapy; micelles; liposomes; nanoparticles; dendrimers; Surfactants

**Special Issues and Collections in MDPI journals**

Special Issue in [Chemosensors: The Application of Nanocarriers in Therapeutic Agents](#) ([/journal/chemosensors/special\\_issues/APNTA](/journal/chemosensors/special_issues/APNTA))



Dr. Pollegioni Loredano

[Website \(https://www.uninsubria.it/hpp/loredano.pollegioni\)](https://www.uninsubria.it/hpp/loredano.pollegioni)

Department Biotechnology and Life Sciences, University of Insubria, Varese, Italy

**Interests:** D-amino acids; D-serine; flavoproteins; protein engineering; enzymology; lignin; lignin degrading enzymes; multi-step biocatalysis



Dr. Mark Lowry

[Website \(https://www.researchgate.net/profile/Mark\\_Lowry\)](https://www.researchgate.net/profile/Mark_Lowry) [SciProfiles \(https://sciprofiles.com/profile/1169214\)](https://sciprofiles.com/profile/1169214)

Portland State University, Department of Chemistry, Portland, United States

**Interests:** analytical instrumentation; optical spectroscopy; fluorescence spectroscopy; fluorophores; fluorescent probes; fluorescence imaging; molecular probes; microscopy; separation science; electrophoresis

**Special Issues and Collections in MDPI journals**

Special Issue in [Chemosensors: Near-Infrared Fluorophores for Biomedical Research](#) ([/journal/chemosensors/special\\_issues/NIFBR](/journal/chemosensors/special_issues/NIFBR)).



Prof. Dr. Přemysl Lubal

[Website \(https://www.muni.cz/en/people/1271-premysl-lubal/cv\)](https://www.muni.cz/en/people/1271-premysl-lubal/cv) [SciProfiles \(https://sciprofiles.com/profile/468397\)](https://sciprofiles.com/profile/468397)

[Back to Top](#)

**Dr. Larisa Lvova**

**Website** (<http://stc.uniroma2.it/en/people/academic-staff/researchers/name/larisa-lvova/>). **SciProfiles** (<https://sciprofiles.com/profile/298679>).

Department of Chemical Sciences and Technology, University "Tor Vergata", Rome 00133, Italy

**Interests:** chemical sensors; multisensor analysis; chemometrics

**Special Issues and Collections in MDPI journals**

Special Issue in ***Chemosensors: Chemical Sensors for Heavy Metals/Toxin Detection***

([/journal/chemosensors/special\\_issues/metals\\_toxin\\_detection](/journal/chemosensors/special_issues/metals_toxin_detection)).

Special Issue in ***Sensors: Multisensor Systems and Signal Processing in Analytical Chemistry***

([/journal/sensors/special\\_issues/Multisensor\\_Systems\\_Signal\\_Processing\\_Analytical\\_Chemistry](/journal/sensors/special_issues/Multisensor_Systems_Signal_Processing_Analytical_Chemistry)).



**Prof. Dr. Elżbieta Malinowska**

**Website** (<http://kbm.ch.pw.edu.pl/index.php/en/research/nbd-2/>).

Warsaw University of Technology, Warsaw, Poland

**Interests:** medical biotechnology, biosensors, nanomaterials, bioanalysis



**Dr. Roland Malli**

**Website** ([https://forschung.medunigraz.at/fodok/suchen.person\\_uebersicht?sprache\\_in=en&menue\\_id\\_in=101&id\\_in=1124489](https://forschung.medunigraz.at/fodok/suchen.person_uebersicht?sprache_in=en&menue_id_in=101&id_in=1124489)).

**SciProfiles** (<https://sciprofiles.com/profile/115680>).

Molecular Biology and Biochemistry, Gottfried Schatz Research Center for Cell Signaling, Metabolism and Aging, Medical University of Graz, Neue Stiftingtalstraße 6/6, 8010 Graz, Austria

**Interests:** genetically encode (FRET-based) fluorescent biosensors; cell biology; ion signaling; cancer cell metabolism



**Dr. Maria Grazia Manera**

**Website** (<https://www.le.imm.cnr.it/users/mariagraziamanera>).

Institute for Microelectronics and Microsystems, CNR-IMM, Lecce section, strada prov.le Lecce-Monteroni, c/o Campus Universitario Ecotekne, 73100 Lecce, Italy

**Interests:** optical sensor and biosensor development; plasmonics, surface enhanced raman scattering; nanosensing, metamaterials, biophotonics, molecular diagnostics



**Dr. Jose Manuel Andrade**

**Website** (<https://sabria.tic.udc.es/jmandrade>). **SciProfiles** (<https://sciprofiles.com/profile/1467048>).

Group of Applied Analytical Chemistry, Campus da Zapateira s/n, University of A Coruña, 15071 A Coruña, Spain

**Interests:** infrared analysis; chemometrics; environmental analysis; petrochemistry; quality control

**Special Issues and Collections in MDPI journals**

Special Issue in ***Chemosensors: Analytical and Computational Systems in Biosensing*** ([/journal/chemosensors/special\\_issues/ACSB](/journal/chemosensors/special_issues/ACSB)).



**Prof. Dr. Francisco Márquez**

**Website** (<http://www.sciencedomain.org/page/francisco-marquez-linares>). **SciProfiles** (<https://sciprofiles.com/profile/29359>).

Nanomaterials Research Group-NRG, School of Natural Sciences and Technology, Universidad Ana G. Méndez-Gurabo Campus, 00778PR, United States

**Interests:** catalysis; carbon nanotubes; hydrogen; photodegradation; Li-ion batteries

**Special Issues and Collections in MDPI journals**

Special Issue in ***Nanomaterials: The Synthesis and Applications of Carbon Nanotubes*** ([/journal/nanomaterials/special\\_issues/carbon\\_nanotube](/journal/nanomaterials/special_issues/carbon_nanotube)).

Special Issue in ***Nanomaterials: New Perspectives for the Development of Li-Ion Batteries of the 21st Century***

([/journal/nanomaterials/special\\_issues/perspectives\\_batteries](/journal/nanomaterials/special_issues/perspectives_batteries)).

Special Issue in ***Chemosensors: Advanced Sensors Based on Carbon Nanotubes*** ([/journal/chemosensors/special\\_issues/Sens\\_C\\_Nanotubes](/journal/chemosensors/special_issues/Sens_C_Nanotubes)).

Special Issue in ***Materials: Nanostructured Materials for Energy Applications***

([/journal/materials/special\\_issues/nano\\_material\\_energy\\_application](/journal/materials/special_issues/nano_material_energy_application)).



**Prof. Dr. Rui Martins**

**Website** (<https://www.inesctec.pt/en/people/rui-costa-martins>) **SciProfiles** (<https://sciprofiles.com/profile/794253>)

Centre for Applied Photonics, INESC TEC - Institute for Systems and Computer Engineering, Technology and Science, Porto - Portugal

**Interests:** advanced spectroscopy; signal processing; artificial intelligence; optics and lasers; point-of-care technology

**Special Issues and Collections in MDPI journals**

Special Issue in ***Chemosensors: Intelligent Photonics for Chemical Sensing*** ([/journal/chemosensors/special\\_issues/IPCS](/journal/chemosensors/special_issues/IPCS))



**Prof. Dr. Jean Louis Marty**

**Website** (<https://lums.edu.pk/events/jean-louis-marty-hold-talk-biosensors>) **SciProfiles** (<https://sciprofiles.com/profile/45258>)

BAE-LBBM-USR CNRS 3579, Université de Perpignan Via Domitia , 52 avenue paul allude, 66860 Perpignan cedex, France

**Interests:** electrochemical and optical biosensors; aptasensors for food and environmental control

**Special Issues and Collections in MDPI journals**

Special Issue in ***Sensors: Sensors for Toxic and Pathogen Detection*** ([/journal/sensors/special\\_issues/STPD](/journal/sensors/special_issues/STPD))

Special Issue in ***Toxins: Advanced Sensors for Toxins*** ([/journal/toxins/special\\_issues/sensor-toxins](/journal/toxins/special_issues/sensor-toxins))

Special Issue in ***Sensors: New Trends on Sensing - Monitoring - Telediagnosis for Life Sciences (NT-SMT-LS 2018)*** ([/journal/sensors/special\\_issues/NT-SMT-LS2018](/journal/sensors/special_issues/NT-SMT-LS2018))

Special Issue in ***Chemosensors: Biosensors for Environmental Monitoring*** ([/journal/chemosensors/special\\_issues/bio\\_environ\\_monit](/journal/chemosensors/special_issues/bio_environ_monit))



**Prof. Dr. Marcello Mascini**

**Website** ([http://www.unite.it/UniTE/Engine/RAServePG.php/P/58511UTE0101/M/116591UTE0101?&VRIC\\_IDOC=435](http://www.unite.it/UniTE/Engine/RAServePG.php/P/58511UTE0101/M/116591UTE0101?&VRIC_IDOC=435))

**SciProfiles** (<https://sciprofiles.com/profile/739285>)

Faculty of Bioscience and Technology for Food, Agriculture and Environment, University of Teramo, 64100, Teramo, Italy

**Interests:** analytical chemistry molecular modeling; Chemometrics electrochemical detection; food detection; health detection; environment detection



**Dr. Ettore Massera**

**Website** (<https://www.mendeley.com/profiles/ettore-massera/>) **SciProfiles** (<https://sciprofiles.com/profile/298395>)

DTE-FSD-DIN, ENEA National Agency, Portici (NA), Italy

**Interests:** nanostructured materials, gas sensing, e-nose, graphene, experimental physics, air quality, artificial olfaction

**Special Issues and Collections in MDPI journals**

Special Issue in ***Chemosensors: Graphene-Based Chemical Sensors*** ([/journal/chemosensors/special\\_issues/Graphene\\_Sensors](/journal/chemosensors/special_issues/Graphene_Sensors))



**Dr. Naoji Matsuhisa**

**Website** (<https://naojimatsuhisa.com>)

Department of Electronics and Electrical Engineering, Keio University, 3-14-1 Hiyoshi, Kohoku-Ku, Yokohama, Kanagawa 223-8522, Japan

**Interests:** Soft electronic materials and devices; Flexible/Stretchable sensors; Wearable

**Dr. Andrew Mayes**

**Website** (<https://www.uea.ac.uk/chemistry/people/profile/andrew-mayes#researchTab>)

University of East Anglia, School of Chemistry, Norwich, UK

**Interests:** sensors and analytical devices based on hierarchically-structured nanomaterials; sensors based on RGB imaging of colourimetric responses; molecularly imprinted polymers and sensors based on them; applications of luminescent and magnetic nanoparticles in analysis and drug delivery



**Dr. Frederic Melin**

**Website** (<http://complex-matter.unistra.fr/en/research-teams/laboratory-of-bioelectrochemistry-and-spectroscopy/team-members/>)

Laboratoire de Bioelectrochimie et Spectroscopie Faculte de Chimie, UdS), 1 Rue Blaise Pascal 67008 Strasbourg Cedex, France

**Interests:** bioelectrochemistry; biosensors; membrane proteins; nanomaterials



**Dr. Daniele Merli**

**Website** (<http://chimica.unipv.eu/site/home/persona/scheda700003435.html>)

Department of Chemistry, University of Pavia, via Taramelli 12, 27100 Pavia, Italy

Interests: electroanalysis; forensic chemistry; drug analysis; environmental chemistry; voltammetric sensors

Prof. Dr. Salvo Mirabella

[Website \(https://www.dfa.unict.it/docenti/salvatore.mirabella\)](https://www.dfa.unict.it/docenti/salvatore.mirabella)

Department of Physics and Astronomy, University of Catania, Catania, Italy

Interests: nanotechnology; sensing; energy; electrochemistry; materials science

 [\(toggle desktop layout cookie\)](#)  



Dr. Danila Moscone

[Website \(https://www.nanobiosensing.com/\)](https://www.nanobiosensing.com/) [SciProfiles \(https://sciprofiles.com/profile/579466\)](https://sciprofiles.com/profile/579466)

Chemical Science and Technologies Department, University of Rome "Tor Vergata", Via della Ricerca Scientifica, 00133 Rome, Italy

Interests: Analytical Chemistry, Electrochemical Sensors and Biosensors, Immunosensors, Nanomaterials, Nanocomposites, Screen-printed Modified Electrodes, Paper-based (bio)sensors, Flow Injection Analysis, Analytical Clinical, Environmental and Food Applications

**Special Issues and Collections in MDPI journals**

Special Issue in [Sensors: Development of Enzymatic Electrochemical Biosensors and Applications](#)

([/journal/sensors/special\\_issues/enzymatic\\_biosensors](/journal/sensors/special_issues/enzymatic_biosensors))

Special Issue in [Sensors: Paper-Based Sensors](#) ([/journal/sensors/special\\_issues/pbs](/journal/sensors/special_issues/pbs))

Special Issue in [Chemosensors: Electrochemical Biosensors for Agro-Environmental and Bioclinical Fields](#)

([/journal/chemosensors/special\\_issues/EBEABA](/journal/chemosensors/special_issues/EBEABA))

Special Issue in [Sensors: Paper-Based Electrochemical Biosensors](#) ([/journal/sensors/special\\_issues/Paper\\_Electrochemical\\_Biosensors](/journal/sensors/special_issues/Paper_Electrochemical_Biosensors))

Dr. Nobuhiro Moteki

[Website \(https://scholar.google.co.jp/citations?user=c4wxdtlAAAAJ&hl=ja\)](https://scholar.google.co.jp/citations?user=c4wxdtlAAAAJ&hl=ja)

Department of Earth and Planetary Science, The University of Tokyo, Room 850, Science bldg. 1, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan

Interests: environmental chemistry; atmospheric chemistry and physics; nanoparticles; aerosols; clouds; electromagnetic scattering; nano-optics; spectroscopy; radiative transfer



Prof. Dr. Nunzio Motta

[Website1 \(https://staff.qut.edu.au/staff/n.motta\)](https://staff.qut.edu.au/staff/n.motta) [Website2 \(https://research.qut.edu.au/surface/\)](https://research.qut.edu.au/surface/)

[SciProfiles \(https://sciprofiles.com/profile/15990\)](https://sciprofiles.com/profile/15990)

Centre for Materials Science, School of Chemistry and Physics, Queensland University of Technology, 2 George St, Brisbane 4000, Australia

Interests: Epitaxy; Growth; Nanotechnology; Graphene; 2D Materials; Quantum Dots; Semiconductors; Solar Cells; Scanning Tunneling Microscopy; Ultra High Vacuum technology



Prof. Dr. Klaus Müllen

★ (<https://recognition.webofsciencegroup.com/awards/highly-cited/2020/>) [Website \(http://www.mpip-mainz.mpg.de/4594777/synthetische-chemie\)](http://www.mpip-mainz.mpg.de/4594777/synthetische-chemie) [SciProfiles \(https://sciprofiles.com/profile/11661\)](https://sciprofiles.com/profile/11661)

Max Planck Institute for Polymer Research, Ackermannweg 10, D-55128 Mainz, Germany

Interests: new polymer-forming reactions including methods of organometallic chemistry; multi-dimensional polymers with complex shape-persistent architectures; functional polymeric networks, in particular for catalytic purposes; dyes and laser writing into polymers; chemistry and physics of single molecules; molecular materials with liquid crystalline properties for electronic and optoelectronic devices; materials for lithium or hydrogen storage; biosynthetic hybrids; nanocomposites

**Special Issues and Collections in MDPI journals**

Special Issue in [Polymers: New Polymer Synthesis Reactions](#) ([/journal/polymers/special\\_issues/new-polymer-synthesis](/journal/polymers/special_issues/new-polymer-synthesis))



Dr. Lasse Murtomäki

[Website \(https://research.aalto.fi/en/persons/lasse-murtomaki\(f82e1ed3-dbc0-47eb-a88c-3c73e905fa85\).html\)](https://research.aalto.fi/en/persons/lasse-murtomaki(f82e1ed3-dbc0-47eb-a88c-3c73e905fa85).html)

[SciProfiles \(https://sciprofiles.com/profile/153245\)](https://sciprofiles.com/profile/153245)

Department of Chemistry and Materials Science, Aalto University, Espoo, Finland

Interests: electrochemistry; physical chemistry; transport phenomena; thermodynamics; membranes; ion-exchange; FEM modeling

**Special Issues and Collections in MDPI journals**

Special Issue in [Chemosensors: Flow Batteries: The Future of Large-Scale Electricity Storage?](#)

([/journal/chemosensors/special\\_issues/FBFLSES](/journal/chemosensors/special_issues/FBFLSES))



**Dr. Alexei Nabok**

**Website** (<https://www.shu.ac.uk/about-us/our-people/staff-profiles/alexei-nabok>)

Sheffield Hallam University, Department of Engineering and Mathematics, Materials and Engineering Research Institute, Sheffield S1 1WB, UK

**Interests:** organic thin films; nanostructures; chemical- and bio-sensing

---

**Dr. Jin Nam**

**Website** (<https://profiles.ucr.edu/app/home/profile/jinnam>)

Department of Bioengineering, University of California – Riverside, Riverside, CA 92521, USA

**Interests:** tissue engineering; stem cell mechanobiology; electrospinning; multifunctional scaffold

**Special Issues and Collections in MDPI journals**

Special Issue in *Polymers: Recent Advances in Polymer-Based Scaffolds* ([/journal/polymers/special\\_issues/Advances\\_Polymer\\_Scaffolds](/journal/polymers/special_issues/Advances_Polymer_Scaffolds))

---

**Dr. Elizabeth New**

**Website** (<https://www.sydney.edu.au/science/chemistry/~enew/liz.html>). **SciProfiles** (<https://sciprofiles.com/profile/1459112>)

School of Chemistry, The University of Sydney, Sydney, Australia

**Interests:** fluorescent sensors; optical sensing arrays; molecular imaging; oxidative stress; metal ions in biology; flow cytometry; nanoparticle safety

---

**Dr. Roger C. Newman**

**Website** (<https://chem-eng.utoronto.ca/faculty-staff/faculty-members/roger-c-newman/>)

Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto, ON M5S 3E5, Canada

**Interests:** Nanomaterials; specifically nanoporous metals Corrosion mechanisms; monitoring and control

---

**Prof. Dr. Pinna Nicola**

**Website** (<https://funm.at/nicola.php>)

Department of Chemistry, Humboldt-Universität zu Berlin, Berlin, Germany

**Interests:** gas sensors; metal oxides; Graphene; two-dimensional materials; structure-property correlations

---

**Prof. Dr. Li Niu**

**Website** ([http://skleac.ciac.cas.cn/rcdw/gdry/zgwgwry/201112/t20111219\\_3415033.html](http://skleac.ciac.cas.cn/rcdw/gdry/zgwgwry/201112/t20111219_3415033.html))

Centre of Advanced Analytical Science, Guangzhou University, Guangzhou 510006, China

**Interests:** nanostructured composite materials; design of electrochemical and spectral analytical instrumentation.

---

**Prof. Dr. Takeaki Ozawa**

**Website** (<http://www.chem.s.u-tokyo.ac.jp/users/analyt/en/>)

Department of Chemistry, School of Science, University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan

**Interests:** Fluorescence imaging; Bioluminescence imaging; Raman imaging; Optogenetics

---

**Dr. Barbara Palys**

**Website** ([https://cnbch.uw.edu.pl/language/en/blog/research\\_groupes/materials-for-biosensors/](https://cnbch.uw.edu.pl/language/en/blog/research_groupes/materials-for-biosensors/))

**SciProfiles** (<https://sciprofiles.com/profile/916845>)

Biological and Chemical Research Centre, and Faculty of Chemistry, University of Warsaw, Warsaw, Poland

**Interests:** biosensors, electrocatalysis, applications of vibrational spectroscopies for sensor design, PMIRRAS, SERS, enzymes, enzyme mimicking materials, graphene oxide, metal nanoparticles, conducting polymers

---

**Prof. Dr. Tung-Ming Pan**

**Website** (<http://biomedical.cgu.edu.tw/files/11-1066-3725.php?Lang=en>)



**Prof. Dr. Hyun Gyu Park**

**Website** (<http://hgpark.kaist.ac.kr/>)

Department of Chemical and Biomolecular Engineering, Korea Advanced Institute of Science & Technology (KAIST), 291 Daehak-ro, Yuseong-gu, Daejeon 34141, Korea

**Interests:** nucleic acid bioengineering; microarray technology; electroch

**Special Issues and Collections in MDPI journals**

Special Issue in **Chemosensors: State of the Art in Nucleic Acid Detection** ([/journal/chemosensors/special\\_issues/SANAD](/journal/chemosensors/special_issues/SANAD))

**Prof. Bruce Parkinson**

**Website** (<http://www.uwyo.edu/chemistry/directory/bruce-parkinson.html>)

University of Wyoming, Laramie, United States

**Interests:** photoelectrochemical; solar fuels



**Dr. Felipe Pavinatto**

**Website** (<https://orcid.org/0000-0002-6223-9733>)

NFR - NoiseFigure Research LLC, 1000 SW 7th St - Suite E, Renton WA, 98057, USA

**Interests:** additive manufacturing; printed electronics; printed (bio)sensors; printed energy devices; wearable electronics; scalable manufacturing



**Prof. Dr. Henrik Pedersen**

**Website** (<https://cbe.rutgers.edu>)

Department of Chemical and Biochemical Engineering, Rutgers University, Piscataway, NJ 08854-8058, USA

**Interests:** chemical and biochemical fiber optic sensors; applications of biophotonics in bioprocess technology



**Prof. Dr. Jose M. Pedrosa**

**Website** (<https://www.upo.es/dpri/contenido?pag=/portal/upo/profesores/jmpedpoy/profesor>)

**SciProfiles** (<https://sciprofiles.com/profile/113166>)

Universidad Pablo de Olavide, Departamento de Sistemas Físicos, Químicos y Naturales, Sevilla, Spain

**Interests:** Optical gas sensors; Organic dyes; Micro and nano-structured films; Luminescent sensors; Metal-organic Framework based sensors; Electronic noses



**Prof. Dr. António M. Peres**

**Website** (<http://cimo.ipb.pt/web/index.php?r=olderresearcher/view&id=13>) **SciProfiles** (<https://sciprofiles.com/profile/153525>)

Centro de Investigação de Montanha (CIMO), ESA, Instituto Politécnico de Bragança, Campus de Santa Apolónia, 5300-253 Bragança, Portugal

**Interests:** electrochemical sensor technology: electronic tongues and aptasensors; food science and technology: geographical origin assessment; quality control; adulteration detection; biomedical applications: biomarkers detection

**Special Issues and Collections in MDPI journals**

Special Issue in **Biosensors: Electronic Tongues** ([/journal/biosensors/special\\_issues/Electronic\\_Tongue](/journal/biosensors/special_issues/Electronic_Tongue))

**Prof. Dr. Krishna Persaud**

**Website** (<http://www.manchester.ac.uk/research/Krishna.persaud/personaldetails>)

University of Manchester, School of Chemical Engineering and Analytical Science, Manchester, UK



**Dr. Raphael Pfattner**

**Website** (<http://icmab.es/about/people/detail/detail?id=610>)

CSIC - Instituto de Ciencia de Materiales de Barcelona (ICMAB), Campus de la UAB, Bellaterra, Spain

**Interests:** organic field-effect transistors; organic semiconductors; organic metals; charge transport and sensors



Dr. Marco Pisco

[\(toggle desktop layout cookie\)](#)

**Website** (<http://www.unisannio.it/it/user/542/ricerca>) **SciProfiles** (<https://sciprofiles.com/profile/157214>)

Department of Engineering, University of Sannio, C.so Garibaldi 107, 82100 Benevento, Italy

**Interests:** optical fiber sensors; SERS; plasmonic sensors; nanostructures; Lab on Fiber

**Special Issues and Collections in MDPI journals**

Special Issue in **[Sensors: Lab on Fiber Optrodes for Chemical and Biological Sensing: Recent Trends and Advances](#)** ([/journal/sensors/special\\_issues/lfochsrta](/journal/sensors/special_issues/lfochsrta)).

Special Issue in **[Chemosensors: Surface-Enhanced Raman Spectroscopy: New Perspectives and Future Directions](#)** ([/journal/chemosensors/special\\_issues/SERSPF](/journal/chemosensors/special_issues/SERSPF)).



Dr. Andrea Ponzoni

**Website** ([https://fed.ino.it/?page\\_id=13771&p=a602](https://fed.ino.it/?page_id=13771&p=a602)) **SciProfiles** (<https://sciprofiles.com/profile/27184>)

National Research Council (CNR), National Institute of Optics (INO), Unit of Brescia, Brescia, Italy

**Interests:** solid-state gas-sensors; metal oxides; ceramic materials; nanowires; carbon-based nanostructures; artificial olfactory systems

**Special Issues and Collections in MDPI journals**

Special Issue in **[Sensors: Gas Sensing Materials](#)** ([/journal/sensors/special\\_issues/gas\\_sensing\\_materials](/journal/sensors/special_issues/gas_sensing_materials)).

Dr. Andrea Ponzoni

**Website** (<http://sensor.unibs.it/people/dr-andrea-ponzoni>) **SciProfiles** (<https://sciprofiles.com/profile/27184>)

CNR - Istituto Nazionale di Ottica, Florence, Italy

**Interests:** gas sensors; electronic noses; nanosensors; nanowires; organic compounds; II-VI semiconductors; chromatography; contamination; electrochemical electrodes; electrochemical impedance spectroscopy

**Special Issues and Collections in MDPI journals**

Special Issue in **[Sensors: Gas Sensing Materials](#)** ([/journal/sensors/special\\_issues/gas\\_sensing\\_materials](/journal/sensors/special_issues/gas_sensing_materials)).

Dr. Andrea Ponzoni

**Website** (<http://sensor.unibs.it/people/dr-andrea-ponzoni>)

National Research Council (CNR), National Institute of Optics (INO), Unit of Brescia, Brescia, Italy

**Interests:** solid-state gas-sensors; metal oxides; ceramic materials; nanowires; carbon-based nanostructures; artificial olfactory systems



Prof. Dr. Shalini Prasad

**Website** (<https://be.utdallas.edu/bioengineering/people/faculty/shalini-prasad/>)

Cecil and Ida A.Green Professor in Systems Biology, Department of Bioengineering, University of Texas, Dallas, Richardson, TX 75080, USA

**Interests:** gas sensors; metal oxide systems; low power field deployable sensors



Prof. Dr. Miguel A. Prieto Lage

**Website** (<https://publons.com/researcher/19632/miguel-a-prieto/>) **SciProfiles** (<https://sciprofiles.com/profile/607720>)

Department of Analytical and Food Chemistry, Faculty of Food Science and Technology, Ourense Campus, University of Vigo, E32004 Ourense, Spain

**Interests:** bioactivity and toxicology; bioactives extraction; biochemistry; biotechnology; antimicrobials

**Special Issues and Collections in MDPI journals**

Special Issue in **[Chemosensors: Application of Response Surface Methodology for Food Optimization Processes](#)** ([/journal/chemosensors/special\\_issues/RSM\\_food](/journal/chemosensors/special_issues/RSM_food)).

Special Issue in **[Antibiotics: 10th Anniversary of Antibiotics—New Resources and Strategies in the Search for Antimicrobials](#)** ([/journal/antibiotics/special\\_issues/Anniversary\\_Antimicrobials](/journal/antibiotics/special_issues/Anniversary_Antimicrobials)).

Special Issue in **[International Journal of Molecular Sciences: Phenolic Compounds Extracted from Plants: Towards the Formulation of New Nutraceuticals](#)** ([/journal/ijms/special\\_issues/phenolic\\_compounds\\_extract](/journal/ijms/special_issues/phenolic_compounds_extract)).

Professor Dr. Francesco Prudeniano

**Website** (<http://dee.poliba.it/DEE/Prudeniano.html>)


Dipartimento di Ingegneria Elettrica e dell'Informazione, Politecnico di Bari, Italy

**Special Issues and Collections in MDPI journals**

Special Issue in **[Fibers: Advances on Optical Fibers](#)** ([/journal/fibers/special\\_issues/advances\\_in\\_optical\\_fibers](/journal/fibers/special_issues/advances_in_optical_fibers)).



Prof. Dr. Andrea Pucci

 [Website \(https://people.unipi.it/andrea\\_pucci/\)](https://people.unipi.it/andrea_pucci/) [SciProfiles \(https://sciprofiles.com/profile/112220\)](https://sciprofiles.com/profile/112220)

Department of Chemistry and Industrial Chemistry of the University of Pisa, Pisa, Italy

**Interests:** chromogenic materials; aggregation induced emission; fluorescent molecular rotors; graphitic nanocomposites

**Special Issues and Collections in MDPI journals**

Special Issue in [Polymers: Smart and Modern Thermoplastic Polymer Materials](#)

([/journal/polymers/special\\_issues/thermoplastic\\_polymer\\_materials](/journal/polymers/special_issues/thermoplastic_polymer_materials))



Prof. Dr. Xiaogang Qu

★ (<https://recognition.webofsciencegroup.com/awards/highly-cited/2020/>) [Website](#)

([http://yjsb.ciac.cas.cn/dsjj/wjhx\\_hxswx/201905/t20190507\\_486687.html](http://yjsb.ciac.cas.cn/dsjj/wjhx_hxswx/201905/t20190507_486687.html))

Changchun Institute Of Applied Chemistry, Chinese Academy Of Sciences, Changchun, China

**Interests:** Ligand/nucleic acids or related protein interactions; biosensing; amyloidosis and Alzheimer's disease; artificial enzymes and biofunctional materials



Dr. Jean-Manuel Raimundo

[Website \(http://www.cinam.univ-mrs.fr/cinam/le-centre/annuaire/fiche-personnel/?idu=155\)](http://www.cinam.univ-mrs.fr/cinam/le-centre/annuaire/fiche-personnel/?idu=155)

Aix Marseille University, Campus de Luminy, 163 Avenue de Luminy, case 913, 13288 Marseille Cedex 09, France.

**Interests:** sensors; optoelectronics; surface science; bioapplications

Prof. Dr. María Ramos-Payan

[Website \(https://www.researchgate.net/profile/Maria\\_Ramos\\_Payan2\)](https://www.researchgate.net/profile/Maria_Ramos_Payan2)

Microelectronic National Centre of Barcelona, 08193 Bellaterra, Barcelona, Spain

**Interests:** analytical and environmental chemistry; sample preparation techniques; microfluidics; lab-on-a-chip



Dr. Maria Raposo

[Website \(https://www.cefitec.fct.unl.pt/pessoas/full-members/maria-raposo\)](https://www.cefitec.fct.unl.pt/pessoas/full-members/maria-raposo) [SciProfiles \(https://sciprofiles.com/profile/50635\)](https://sciprofiles.com/profile/50635)

CEFITEC, Departamento de Física, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, 2829-516 Caparica, Portugal

**Interests:** physicochemical interfacial phenomena at the solid-liquid interface; physics and chemistry of macromolecules surfaces and interfaces; features of surfaces and interfaces; dedicated assemblies for in situ monitoring; dynamics at surfaces and interfaces; adsorption and desorption processes; physical interactions; organic thin film devices and sensors; effect of radiation/particle beams on biological molecules; radiation-induced oxidative damage; biomimetic membranes and rudimentary cells; encapsulation of molecules in liposomes; nanoparticles; drug delivery systems; dedicated scientific devices

**Special Issues and Collections in MDPI journals**

Special Issue in [Chemosensors: Thin Film Based Sensors](#) ([/journal/chemosensors/special\\_issues/Thin\\_Film\\_Based\\_Sensors](/journal/chemosensors/special_issues/Thin_Film_Based_Sensors))

Special Issue in [Photonics: Advanced Optical Materials and Devices](#) ([/journal/photronics/special\\_issues/AOMD](/journal/photronics/special_issues/AOMD))

Special Issue in [Chemosensors: Thin Film Based Sensors II](#) ([/journal/chemosensors/special\\_issues/Thin\\_Film\\_Sens\\_II](/journal/chemosensors/special_issues/Thin_Film_Sens_II))

Special Issue in [Photonics: Photonics, Optics and Laser Technology](#) ([/journal/photronics/special\\_issues/PHOTONICS2020](/journal/photronics/special_issues/PHOTONICS2020))

Special Issue in [Photonics: Advanced Optical Materials and Devices II](#) ([/journal/photronics/special\\_issues/AOMDII](/journal/photronics/special_issues/AOMDII))

Special Issue in [Radiation: Radiation-Sensitive Bio Platforms for Cancer Diagnosis and Therapy: Current Status and Future Perspectives](#) ([/journal/radiation/special\\_issues/Radiation-Sensitive\\_Bio\\_Platforms\\_Diagnosis\\_Therapy\\_Current\\_Status\\_Future\\_Perspectives](/journal/radiation/special_issues/Radiation-Sensitive_Bio_Platforms_Diagnosis_Therapy_Current_Status_Future_Perspectives))

Prof. Dr. Norman Mark Ratcliffe

[Website \(http://people.uwe.ac.uk/Pages/person.aspx?accountname=campusn-ratcliffe\)](http://people.uwe.ac.uk/Pages/person.aspx?accountname=campusn-ratcliffe) [SciProfiles \(https://sciprofiles.com/profile/522317\)](https://sciprofiles.com/profile/522317)

Centre for Research in Analytical, Materials, and Sensor Sciences, University of the West of England, Coldharbour Lane, Bristol BS16 1QY, UK

**Interests:** volatile analysis; sensor and device fabrication and testing of commercial sensors; aerospace industry; molecular electronics; nuclear industry



Dr. Ilaria Rea

[Website \(http://www.isasi.cnr.it/?staff=rea-ilaria\)](http://www.isasi.cnr.it/?staff=rea-ilaria) <https://www.facebook.com/NanoBioSYstems-lab-group-105875757619539>

[SciProfiles \(https://sciprofiles.com/profile/618289\)](https://sciprofiles.com/profile/618289)

NanoBioSYstems group, Functional Nanomaterials and Interfaces Lab, Institute of Applied Sciences and Intelligent Systems (ISASI), National Research Council (CNR), Via Pietro Castellino 111, 80131 Naples, Italy

**Interests:** nanomaterials; hybrid interfaces; photoluminescence; optical biosensors; drug delivery systems

**Special Issues and Collections in MDPI journals**

Special Issue in [Sensors: Nanostructured Hybrid Materials Based Opto-Electronics Sensors](#) ([/journal/sensors/special\\_issues/NHMBOS](/journal/sensors/special_issues/NHMBOS))

Special Issue in [Sensors: Advanced Spectroscopy, Imaging and Sensing in Biomedicine](#) ([/journal/sensors/special\\_issues/ASISB](/journal/sensors/special_issues/ASISB)) [Back to Top](#)

Special Issue in **Sensors: Selected Papers from Plasmonica 2019 - 7th Edition of the Workshop on Plasmonics and Its Applications**

([/journal/sensors/special\\_issues/Plasmonica2019](http://journal/sensors/special_issues/Plasmonica2019))

Special Issue in **Applied Sciences: New Frontiers in Diatom Nanotechnology** ([/journal/applsci/special\\_issues/Diatom\\_Nanotechnology](http://journal/applsci/special_issues/Diatom_Nanotechnology))

Special Issue in **Chemosensors: Nanostructured Devices for Biochemical Sensing** ([/journal/chemosensors/special\\_issues/Biochemical\\_Sensing](http://journal/chemosensors/special_issues/Biochemical_Sensing))

Special Issue in **International Journal of Molecular Sciences: Functional Nanomaterials for Healthcare**

([/journal/ijms/special\\_issues/nanomaterials\\_healthcare](http://journal/ijms/special_issues/nanomaterials_healthcare))



**Prof. Dr. Renata Reisfeld**

**Website1** (<https://goo.gl/85JihT>) **Website2** ([https://en.wikipedia.org/wiki/Renata\\_Reisfeld](https://en.wikipedia.org/wiki/Renata_Reisfeld))

Enrique Berman Professor of Solar Energy Institute of Chemistry The Hebrew University of Jerusalem E. Safra Campus, Givat Ram 91904 Jerusalem, Israel

**Interests:** luminescent solar concentrators for decreasing the price of photovoltaic electricity; interaction of nanoparticles with luminescent species; anti-reflecting coating; sol-gel glasses; sol gel based optical materials; SPECTROSCOPY of lanthanides nanomaterials



**Prof. Dr. Roberto Rella**

**Website1** (<https://www.le.imm.cnr.it/users/robertorella>) **Website2** ([https://www.researchgate.net/profile/Roberto\\_Rella](https://www.researchgate.net/profile/Roberto_Rella))

**SciProfiles** (<https://sciprofiles.com/profile/641654>)

CNR Institute for Microelectronics and Microsystems Campus Ecotekne, Lecce Campus Universitario Ecotekne, 73100 Lecce, Italy

**Interests:** Biosensors; Nanoplasmonics; Chemical Sensors; Metamaterials; Optical Sensors



**Prof. Dr. Roberto Rella**

**Website** (<https://www.le.imm.cnr.it/users/robertorella>) **SciProfiles** (<https://sciprofiles.com/profile/641654>)

NanoPhotonics and Plasmonics Advanced Laboratories, Consiglio Nazionale delle Ricerche, Istituto per la Microelettronica e Microsistemi, IMM CNR unit of Lecce, University Campus Ecotekne, Via Monteroni, 73100 Lecce, Italy

**Interests:** surface plasmon resonance (SPR) imaging; adsorption-based biosensors (BIOMEMS); the chemical modification of surfaces; active plasmonics activated by a magnetic field (MO-SPR); the realisation of nanostructured plasmonic transducers; study of the optical gas sensors devices



**Prof. Dr. Léon Reubsæet**

**Website** (<https://www.mn.uio.no/farmasi/english/people/aca/leonr/index.html>)

Department of Pharmaceutical Chemistry, School of Pharmacy, University of Oslo, NO-0316 Oslo, Norway

**Interests:** smart microsampling in protein analysis; targeted proteomics; bioanalysis; LC-MS; drug analysis, chromatography; basic principles; sample preparations and related methods



**Prof. Dr. Andreas Richter**

★ (<https://recognition.webofsciencegroup.com/awards/highly-cited/2020/>) **Website** (<https://tu-dresden.de/ing/elektrotechnik/ihtm/ms/die-professur/inhaber-in>)

TU Dresden, Chair of Microsystems, Institute of Semiconductors and Microsystems, 01062 Dresden, Germany

**Interests:** microfluidics; chemical computing; microsystem technology; smart materials

**Special Issues and Collections in MDPI journals**

Special Issue in **Chemosensors: Hydrogel-Based Chemosensors** ([/journal/chemosensors/special\\_issues/hydrogel](http://journal/chemosensors/special_issues/hydrogel))

Special Issue in **Micromachines: Polymeric Microsystems** ([/journal/micromachines/special\\_issues/polymeric\\_microsystems](http://journal/micromachines/special_issues/polymeric_microsystems))

Special Issue in **Micromachines: Selected papers from the APMM 2019–Active Polymeric Materials and Microsystems Conference**

([/journal/micromachines/special\\_issues/APMM\\_2019](http://journal/micromachines/special_issues/APMM_2019))



**Prof. Dr. Leonardo Ricotti**

**Website** (<https://www.santannapisa.it/en/micro-nano-bio-systems-and-targeted-therapies-laboratory>)

Scuola Superiore Sant'Anna, The BioRobotics Institute, Pisa, Italy

**Interests:** Bioengineering; Biorobotics; Bio-hybrid systems; Regenerative medicine; Artificial organs





Prof. Dr. Maria Luz Rodriguez-Mendez

(/toggle Desktop layout cookie)

**Website** (<http://www.eis.uva.es/inorganica/>) **SciProfiles** (<https://sciprofiles.com/profile/133860>)

Dpt. Química Física y Química Inorgánica, Escuela de Ingenierías Industriales, University of Valladolid, Paseo del Cauce, 59. 47011 Valladolid, Spain

**Interests:** electrochemical sensors; chemically modified with electrocatalytic materials and nanomaterials; biomimetic biosensors dedicated to the detection of components of foods; antioxidants; organic acids; fatty acids, etc; electronic tongues based on nanostructured biosensors for the assessment of the organoleptic characteristics of wines and milks

Dr. Anne Claude Romain

**Website** (<http://www.labo-sam.uliege.be>)

Universite de Liege, Liege, Belgium

**Interests:** polluted atmospheres (indoor air, urban air, environmental odours, agricultural gas emissions); chemical sensor array (for instance e-nose); low cost gas sensors; data analysis



Dr. Jose Vicente Ros Lis

**Website** (<https://redoli.blogs.uv.es/>) **SciProfiles** (<https://sciprofiles.com/profile/307882>)

Inorganic Chemistry Department, Universitat de València, Doctor Moliner, 50, 46100 Burjassot, Spain

**Interests:** sensors; optical chemosensors; dyes; nanomaterials; optoelectronic noses and tongues

**Special Issues and Collections in MDPI journals**

Special Issue in **Sensors: Colorimetric Nanosensors** ([/journal/sensors/special\\_issues/ColorimetricNanosensors](/journal/sensors/special_issues/ColorimetricNanosensors)).

Special Issue in **Sensors: Electronic Noses** ([/journal/sensors/special\\_issues/E\\_N](/journal/sensors/special_issues/E_N)).

Special Issue in **Sensors: Sensors for Food Safety and Quality 2019-2020** ([/journal/sensors/special\\_issues/SFSQ](/journal/sensors/special_issues/SFSQ)).

Special Issue in **Nanomaterials: Microwave Technology and Nanomaterials: Synthesis and Application** ([/journal/nanomaterials/special\\_issues/microwave\\_nano](/journal/nanomaterials/special_issues/microwave_nano)).

Special Issue in **Chemosensors: Feature Papers- Chemical Sensors for Industrial Applications, Environmental and Food Monitoring** ([/journal/chemosensors/special\\_issues/FPCSAEFM](/journal/chemosensors/special_issues/FPCSAEFM)).



Dr. Jorge Ruiz Encinar

**Website** (<https://orcid.org/0000-0001-6245-5770>)

Department of Physical and Analytical Chemistry, University of Oviedo, Oviedo, Spain

**Interests:** Absolute quantification of organic compounds by MS without the need for specific standards; Identification-quantification of proteins and phosphoproteins by LC coupled to ICP-MS and ESI-MS; Isotopically labeled species for method validation in speciation and proteomics; Characterization and bioanalytical application of nanoparticles using multidisciplinary approaches



Prof. Dr. Marina N. Rumyantseva

**Website** ([http://www.inorg.chem.msu.ru/index\\_e.php?topic=staff](http://www.inorg.chem.msu.ru/index_e.php?topic=staff))

Chemistry Department, Moscow State University, Leninskie Gory 1-3, 119991 Moscow, Russia

**Interests:** semiconductors; gas sensors; advanced materials for gas sensor applications; nanocrystalline metal oxides; surface characterization; establishing the processes responsible for gas sensor response

**Special Issues and Collections in MDPI journals**

Special Issue in **Nanomaterials: Development of Semiconductor Nanomaterials for Gas Sensors** ([/journal/nanomaterials/special\\_issues/semi\\_nano\\_gas\\_sensor](/journal/nanomaterials/special_issues/semi_nano_gas_sensor)).

Special Issue in **Materials: Metal Oxide Semiconductors for Gas Sensor Applications** ([/journal/materials/special\\_issues/Semicond\\_Sensor\\_Appl](/journal/materials/special_issues/Semicond_Sensor_Appl)).

Special Issue in **Sensors: Semiconductor Materials for Gas Sensing** ([/journal/sensors/special\\_issues/semiconductor\\_gas\\_sensing](/journal/sensors/special_issues/semiconductor_gas_sensing)).

Special Issue in **Sensors: Gas Sensors based on Semiconductor Materials** ([/journal/sensors/special\\_issues/Gas\\_Sensors\\_Semiconductor\\_Materials](/journal/sensors/special_issues/Gas_Sensors_Semiconductor_Materials)).



Dr. César Fernández Sánchez

**Website** (<http://gtq.imb-cnm.csic.es/en/equipo/cesar-fernandez-sanchez>)

Affiliation: CSIC - Instituto de Microelectronica de Barcelona (IMB-CNM), Barcelona, Spain

**Interests:** electrochemical (bio)sensors; lab-on-chip; microfabrication; analytical microsystems

Dr. Santiago Sanchez-Cortés

 [Website \(http://www.iem.cfmac.csic.es/evpm/group\\_ssasp.html\)](http://www.iem.cfmac.csic.es/evpm/group_ssasp.html) [SciProfiles \(https://sciprofiles.com/profile/1521876\)](https://sciprofiles.com/profile/1521876)

Instituto de Estructura de la Materia, IEM-CSIC, Madrid, Spain

**Interests:** optical spectroscopy; SERS; plasmonics; optical nanosensors; nanoparticle functionalization

 [\(toggle desktop layout cookie\)](#)  

**Special Issues and Collections in MDPI journals**

Special Issue in [International Journal of Molecular Sciences: Therapeutic Peptides on Plasmonic Nanoparticles](#)  
([/journal/ijms/special\\_issues/Peptides\\_Nanoparticles](/journal/ijms/special_issues/Peptides_Nanoparticles))



Dr. Carlo Santoro

[Website \(https://www.research.manchester.ac.uk/portal/carlo.santoro.html\)](https://www.research.manchester.ac.uk/portal/carlo.santoro.html) [SciProfiles \(https://sciprofiles.com/profile/841118\)](https://sciprofiles.com/profile/841118)

Department Chemical Engineering and Analytical Science, University of Manchester, UK

**Interests:** electrochemistry; ORR electrocatalysis; Platinum-free catalysts; bioelectrochemical systems and sensors

**Special Issues and Collections in MDPI journals**

Special Issue in [Catalysts: 10th Anniversary of Catalysts: Achievements in Electrocatalysis for Sustainable Energy Technologies](#)  
([/journal/catalysts/special\\_issues/10th\\_anniversary\\_electrocatalysis](/journal/catalysts/special_issues/10th_anniversary_electrocatalysis))



Dr. Diogo Miguel Franco dos Santos

[Website \(http://web.ist.utl.pt/diogosantos/\)](http://web.ist.utl.pt/diogosantos/) [SciProfiles \(https://sciprofiles.com/profile/223151\)](https://sciprofiles.com/profile/223151)

Center of Physics and Engineering of Advanced Materials (CeFEMA), Instituto Superior Técnico, Universidade de Lisboa, 1049-001 Lisbon, Portugal

**Interests:** low-temperature fuel cells; alkaline water electrolysis; electrochemical wastewater treatment

**Special Issues and Collections in MDPI journals**

Special Issue in [Materials: Advanced Materials for Electrochemical Energy Conversion and Storage Devices](#)  
([/journal/materials/special\\_issues/adv\\_mater\\_energy](/journal/materials/special_issues/adv_mater_energy)).

Special Issue in [Membranes: State-of-the-Art Membrane Science and Technology in the Iberian Peninsula 2021](#)  
([/journal/membranes/special\\_issues/iberian\\_2021](/journal/membranes/special_issues/iberian_2021)).



Dr. Bilge Saruhan-Brings

[Website \(http://www.dlr.de/wf\)](http://www.dlr.de/wf) [SciProfiles \(https://sciprofiles.com/profile/53450\)](https://sciprofiles.com/profile/53450)

German Aerospace Center (DLR), Institute of Materials Research Department, Department of High-Temperature and Functional Coatings, 51147 Cologne, Germany

**Interests:** functional coatings; sputtering/CVD synthesis of thin films; sol-gel synthesis; high-temperature gas detection; chemiresistive gas sensors

**Special Issues and Collections in MDPI journals**

Special Issue in [Chemosensors: High-Sensitivity and -Selectivity Gas Sensors with Nanoparticles, Nanostructures, and Thin Films](#)  
([/journal/chemosensors/special\\_issues/nano\\_gas\\_sensors](/journal/chemosensors/special_issues/nano_gas_sensors)).



Dr. Helmut Schäfer

[Website \(https://www.chemie.uni-osnabrueck.de/forschung/physikalische\\_chemie/helmut\\_schaefer.html\)](https://www.chemie.uni-osnabrueck.de/forschung/physikalische_chemie/helmut_schaefer.html)

[SciProfiles \(https://sciprofiles.com/profile/526788\)](https://sciprofiles.com/profile/526788)

Institute of Chemistry of New Materials, Universität Osnabrück, Barbarastrasse 7, 49076 Osnabrück, Germany

**Interests:** heterogenous catalysis; electrocatalysis; water-splitting; energy conversion; inorganic chemistry; materials chemistry

**Special Issues and Collections in MDPI journals**

Special Issue in [Applied Sciences: Transition Metal Oxides: The Material of Choice for Heterogeneous Catalysis](#)  
([/journal/applsci/special\\_issues/transition\\_metal\\_oxides](/journal/applsci/special_issues/transition_metal_oxides)).

Prof. Dr. Michael Schäferling

[Website \(https://www.researchgate.net/profile/Michael\\_Schaeferling\)](https://www.researchgate.net/profile/Michael_Schaeferling)

Department of Chemical Engineering, FH Münster University of Applied Sciences, Stegerwaldstr. 39, D-48565 Steinfurt, Germany

**Interests:** optical chemical sensors; luminescent nanoprobess; fluorescent molecular probes; time-resolved fluorimetry; fluorescence imaging



Prof. Dr. Renato Seeber

[Website \(http://www.electroanalysis.unimore.it/\)](http://www.electroanalysis.unimore.it/)

Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, Modena, Italy

**Interests:** electrochemical sensors; chemometrics; electrode modifications for electrocatalysis (sensing); molecular electrochemistry

**Special Issues and Collections in MDPI journals**

Special Issue in [Sensors: Novel Tools in Electrochemical Sensing](#) ([/journal/sensors/special\\_issues/electrochem\\_sensing](#))

Special Issue in [Sensors: Nanostructured Surfaces in Sensing Systems](#) ([/journal/sensors/special\\_issues/NSSS](#))



**Dr. Giorgio S. Senesi**

**Website** (<http://www.microxraylab.com/it/staff>) **SciProfiles** (<https://sciprofiles.com/profile/122945>)

National Research Council (CNR), at the Istituto per la Scienza e Tecnologia dei Plasmi (ISTP) - seat of Bari, Bari, Italy

**Interests:** laser-induced breakdown spectroscopy applied to environmental materials (minerals, gems, rocks, soils); fertilizers; plants and cultural heritage; laser-matter interactions; laser spectroscopy; morphological characterization techniques (AFM, SEM, TEM); nanocrystalline diamond films

**Special Issues and Collections in MDPI journals**

Special Issue in [Molecules: Analytical Chemistry in Italy](#) ([/journal/molecules/special\\_issues/Analytical\\_Chemistry\\_Italy](#))



**Dr. Núria Serrano**

**Website** ([https://www.researchgate.net/profile/Nuria\\_Serrano2](https://www.researchgate.net/profile/Nuria_Serrano2)) **SciProfiles** (<https://sciprofiles.com/profile/246691>)

Department of Chemical Engineering and Analytical Chemistry, University of Barcelona, Martí i Franquès 1-11, 08028-Barcelona, Spain

**Interests:** electrochemical sensors; screen-printed devices; chemometrics; persistent and emerging pollutants; electronic tongues; liquid chromatography; food authentication

**Special Issues and Collections in MDPI journals**

Special Issue in [Sensors: Screen-Printed Electrodes](#) ([/journal/sensors/special\\_issues/spe](#))

Special Issue in [Sensors: Advanced Sensors for the Detection of Heavy Metals](#) ([/journal/sensors/special\\_issues/Heavy\\_Metals\\_Sensors](#))

Special Issue in [Sensors: Multivariate Data Analysis for Sensors and Sensor Arrays](#) ([/journal/sensors/special\\_issues/mdassa](#))

Special Issue in [Sensors: Screen-Printed Electrodes for Sensing](#) ([/journal/sensors/special\\_issues/spe\\_sensing](#))

Special Issue in [Chemosensors: Chemical Sensors for the Determination of Persistent and Emerging Contaminants](#) ([/journal/chemosensors/special\\_issues/CSDPEC](#))



**Dr. Mahnaz Shafiei**

**Website** (<https://www.swinburne.edu.au/research/our-research/access-our-research/find-a-researcher-or-supervisor/researcher-profile/?id=mshafiei>) **SciProfiles** (<https://sciprofiles.com/profile/222885>)

School of Software and Electrical Engineering, Faculty of Science, Engineering and Technology (FSET), Swinburne University of Technology, Hawthorn, VIC 3122, Australia

**Interests:** gas sensors; 2D nanomaterials; liquid sensors; graphene; metal-oxides



**Prof. Dr. Yoon-Bo Shim**

**Website** (<http://busan2.thecube.kr/>) **SciProfiles** (<https://sciprofiles.com/profile/10772>)

Department of Chemistry and Institute of BioPhysio Sensor Technology, Pusan National University, Busan 609-735, Korea

**Interests:** chemical and bio sensors; conductive polymers; spectroelectrochemistry; electron transfer process; bioelectronics; battery system; analysis of trace pollutants

**Special Issues and Collections in MDPI journals**

Special Issue in [Sensors: Electrochemical Sensors Based on Conductive Polymers](#) ([/journal/sensors/special\\_issues/conductive\\_polymers](#))



**Prof. Dr. Youichi Shimizu**

**Website** (<http://www.che.kyutech.ac.jp/chem16/shim1-e.html>) **SciProfiles** (<https://sciprofiles.com/profile/421636>)

Department of Applied Chemistry, Kyushu Institute of Technology, 1-1 Sensui-cho Tobata, Kitakyushu 804-8550 Japan

**Interests:** synthesizing and characterizing high functional inorganic materials for application in chemical sensor devices; batteries; and optical-devices based on ceramic materials such as solid electrolyte; oxide thin- & thick- films

**Special Issues and Collections in MDPI journals**

Special Issue in [Sensors: Functional Materials for the Applications of Advanced Gas Sensors](#) ([/journal/sensors/special\\_issues/fuctionmaterial](#))

Special Issue in [Sensors: Application of Functional Inorganic Materials in Chemical Sensors](#) ([/journal/sensors/special\\_issues/ICS](#))



Dr. Dongwook Shin

(/toggle\_desktop\_layout\_cookie)

**Website** ([http://engr.hanyang.ac.kr/eng/professor/professor.php?](http://engr.hanyang.ac.kr/eng/professor/professor.php?code=faculties_eng&amp;amp;category=&amp;amp;category=&amp;amp;searchopt=subject&amp;amp;searchkey=shin&ar)

[code=faculties\\_eng&amp;amp;category=&amp;amp;category=&amp;amp;searchopt=subject&amp;amp;searchkey=shin&ar](http://engr.hanyang.ac.kr/eng/professor/professor.php?code=faculties_eng&amp;amp;category=&amp;amp;category=&amp;amp;searchopt=subject&amp;amp;searchkey=shin&ar)

Department of Materials Science and Engineering, Hanyang University, Wangsimni-ro, Seongdong-gu, Seoul, 04763, Korea

**Interests:** All-Solid-State Lithium Secondary Batteries; Solid electrolytes; Sulfide-base Solid electrolytes; Thin film batteries; Solid Oxide Fuel Cells; Mesoporous metafilms for electrochemical applications

Prof. Dr. Adam J. Shuhendler

**Website** (<http://www.molmedlabuo.com/>)

Canada Research Chair (Tier 2) in Chemical Biology, Department of Chemistry and Biomolecular Sciences, University of Ottawa Heart Institute, uOttawa Brain and Mind Research Institute, University of Ottawa, STEM Building, Rm. 358, Ottawa, ON, Canada

**Interests:** Fluorescence sensing; Molecular Imaging; Magnetic Resonance Imaging; Positron Emission Tomography; Radiotracers; Chemical Exchange Saturation Transfer Magnetic Resonance Imaging; Activity-based Sensing; Enzyme Activity; Oxidative Stress; Aldehydic Load; Photoacoustic Imaging; Nanosensors and Nanomaterials



Prof. Dr. Mateusz Smietana

**Website** (<http://w3.uqo.ca/photonique/En/MSmietana.php>)

Institute of Microelectronics and Optoelectronics, Warsaw University of Technology, Warsaw, Poland

**Interests:** optical fiber sensors; thin films; plasma-enhanced deposition and processing; biosensors

**Special Issues and Collections in MDPI journals**

Special Issue in [\*Materials: Transparent Conductive Films and Their Applications\*](#)

([/journal/materials/special\\_issues/Transparent\\_Conductive\\_Films](/journal/materials/special_issues/Transparent_Conductive_Films))

Dr. Joon Myong Song

**Website** (<http://jmsong.snu.ac.kr>) **SciProfiles** (<https://sciprofiles.com/profile/101795>)

Department of Pharmacy, Seoul National University, Gwanak-ro, Gwanak-ku, Seoul, 08826, Korea

**Interests:** Materials for chemical sensing; Chemical Assay and Validation



Dr. Juan Arturo Squella

**Website** (<http://www.uchile.cl/portafolio-academico/perfilAcademico.jsf?username=asquella>)

Chemical & Pharmaceutical Sciences Faculty, Universidad of Chile, Olivos 1007, Santiago, Chile

**Interests:** Electrochemistry; Modified electrodes; Electrochemical sensors



Dr. Kandammathe V. Sreekanth

**Website** (<http://spms.ntu.edu.sg/CDPT/aboutus/People/Pages/SreekanthKV.aspx>)

Centre for Disruptive Photonic Technologies, School of Physical & Mathematical Sciences, Nanyang Technological University, Singapore

**Interests:** optical sensors; nanobiosensors; plasmonics; phase change materials

**Special Issues and Collections in MDPI journals**

Special Issue in [\*Chemosensors: Anisotropic Nanomaterials for Sensing Applications\*](#)

([/journal/chemosensors/special\\_issues/Anisotropic\\_Nanomaterial](/journal/chemosensors/special_issues/Anisotropic_Nanomaterial))



Prof. Dr. Robert Michael Strongin

**Website** (<https://www.pdx.edu/clas/profile/dr-robert-strongin>) **SciProfiles** (<https://sciprofiles.com/profile/25278>)

Department of Chemistry, Portland State University, Portland, OR 97207, USA

**Interests:** biosensors; chemosensors; diagnostics; molecular probes; fluorophores; tobacco control; electronic cigarettes; cannabis chemistry; redox chemistry; fullerenes; molecular basis of disease; drug design; public health

**Special Issues and Collections in MDPI journals**

Special Issue in [\*Sensors: Synthetic Fluorescent Indicators for Low Molecular Weight Organic Metabolites\*](#)

([/journal/sensors/special\\_issues/fluorescent\\_indicators](/journal/sensors/special_issues/fluorescent_indicators))

Dr. Lei Su

**Website** (<http://bme.szu.edu.cn/20201/0916/84.html>)

Health Science Center, School of Biomedical Engineering, Shenzhen University, Shenzhen, Guangdong, China

**Interests:** electrochemical sensors; optical probes; antibacterial materials



Prof. Dr. Pi-Guey Su

(/toggle\_desktop\_layout\_cookie)

**Website** (<http://crssch.pccu.edu.tw/files/13-1088-7165.php?Lang=zh-tw>) **SciProfiles** (<https://sciprofiles.com/profile/136538>)

Department of Chemistry, Chinese Culture University, Taipei 111, Taiwan

**Interests:** synthesis of nanocomposite, semiconductor metal oxide, polyelectrolyte polymer, molecular imprinted sol-gel polymer sensing- materials; fabrication of chemical sensors, such as humidity sensors, gas sensors (NH<sub>3</sub>, NO<sub>2</sub>, H<sub>2</sub>, CH<sub>4</sub> etc.); fabrication of flexible chemical sensors by layer-by-layer self-assembled; humidity standard technology; smart sensors and sensing system



Prof. Dr. Jacek Szuber

**Website** (<https://www.polsl.pl/en/faculties/RAU/Pages>)

Department of Cybernetics, Nanotechnology and Data Processing, Faculty of Automatic Control, Electronics and Computer Science, Silesian University of Technology, Gliwice, Poland

**Interests:** nanotechnology of electronic materials, surface analytical methods

**Special Issues and Collections in MDPI journals**

Special Issue in [\*Crystals: Semiconductor Nanomaterials Surfaces\*](#) ([/journal/crystals/special\\_issues/Semiconductor\\_Nanomaterials](/journal/crystals/special_issues/Semiconductor_Nanomaterials))

Prof. Dr. Weihong Tan

★ ([http://hcr.stateofinnovation.thomsonreuters.com/?field\\_first\\_name\\_value=Weihong&field\\_last\\_name\\_value=tan](http://hcr.stateofinnovation.thomsonreuters.com/?field_first_name_value=Weihong&field_last_name_value=tan)) **Website** (<http://www.chem.ufl.edu/~tan/group/index.html>)

Center for Research at the Bio/Nano Interface, Department of Chemistry and Physiology and Functional Genomics, University of Florida Genetics Institute, University of Florida, Gainesville, FL 32611-7200, USA



Dr. Pilar Tiemblo Magro

**Website** (<http://hempol.ictp.csic.es/>) **SciProfiles** (<https://sciprofiles.com/profile/361018>)

Instituto de Ciencia y Tecnología de Polímeros, ICTP-CSIC, c/Juan de la Cierva, 3, 28006, Madrid, Spain

**Interests:** polymer based materials; materials design; surfaces and interfaces; surface wettability; solid electrolytes; batteries



Dr. Vijay K. Tomer

**Website** (<https://scholar.google.com/citations?user=HMSZUdUAAAAJ&hl=en>) **SciProfiles** (<https://sciprofiles.com/profile/377938>)

Berkeley Sensor and Actuator Center, University of California, Berkeley, USA

**Interests:** Chemical sensors; Humidity sensors; Volatile organic compounds; Indoor climate monitoring; Mesoporous materials; Materials chemistry



Prof. Dr. Yu-Chen Tsai

**Website** (<http://www.che.nchu.edu.tw/en/faculty2.aspx?dsn=2121&csn=1671>) **SciProfiles** (<https://sciprofiles.com/profile/180133>)

Department of Chemical Engineering, National Chung Hsing University, 250 Kuo-Kuang Road, Taichung 402, Taiwan

**Interests:** electrochemical devices; biosensors; sensors; carbon nanotubes; graphene



Prof. Dr. Wei-Lung Tseng

**Website** (<https://scholar.google.com.tw/citations?user=v2XE2MAAAAJ&hl=zh-TW>)

Department of Chemistry, National Sun Yat-sen University, Kaohsiung, Taiwan

**Interests:** synthesis of metal nanoparticle; metal nanoclusters; and two-dimensional materials and their applications



Dr. John Turner

**Website** (<https://profiles.sussex.ac.uk/p211470-john-turner/about>)

Department of Chemistry, School of Life Sciences, University of Sussex, Brighton BN1 9QJ, UK

**Interests:** inorganic chemistry; physical chemistry; theoretical and computational chemistry



Prof. Dr. Paolo Ugo

(/toggle Desktop layout cookie)

**Website1** (<http://www.unive.it/persone/ugo>) **Website2** (<http://lsegroupp.wix.com/website-lse-group>)

Department of Molecular Sciences and Nanosystems, University Ca' Foscari of Venice, via Torino 155, 30172 Venezia Mestre, Italy

**Interests:** molecular electrochemistry; electrochemosensors and biosensors; environmental electroanalysis; nanoelectrodes and bio-nanoelectrochemistry

**Special Issues and Collections in MDPI journals**

Special Issue in ***Chemosensors: Electrochemical Sensors for Environmental and Food Analysis*** ([/journal/chemosensors/special\\_issues/ESEFA](/journal/chemosensors/special_issues/ESEFA))

Special Issue in ***Chemosensors: Electrochemical Immunosensors and Aptasensors*** ([/journal/chemosensors/special\\_issues/EIA](/journal/chemosensors/special_issues/EIA))

Special Issue in ***Sensors: Advanced Sensors Based on Carbon Electrodes*** ([/journal/sensors/special\\_issues/ASBCE](/journal/sensors/special_issues/ASBCE))

Special Issue in ***Biosensors: Advanced Electrochemical and Opto-Electrochemical Biosensors for Quantitative Analysis of Disease Markers and Viruses*** ([/journal/biosensors/special\\_issues/opto\\_biosensors](/journal/biosensors/special_issues/opto_biosensors))

Prof. Dr. Alessandro Ulrici

**Website** (<http://personale.unimore.it/rubrica/dettaglio/ulrici>)

Dipartimento di Scienze della Vita, Università degli studi di Modena e Reggio Emilia, Via Università 4, 41121 Modena, Italy

**Interests:** application of fast and non-destructive analytical techniques based on chemometric approaches for control, characterisation and visualisation of raw materials and of finite products

Prof. Dr. Edelmira Valero

**Website** ([https://www.researchgate.net/profile/Edelmira\\_Valero](https://www.researchgate.net/profile/Edelmira_Valero)) **SciProfiles** (<https://sciprofiles.com/profile/341802>)

Department of Physical Chemistry, University of Castilla-La Mancha, Albacete, Spain

**Interests:** electrochemical sensors and biosensors; screen-printed devices; modified electrodes; metal nanoparticles; enzymatic biosensors; electroanalysis; nanobiotechnology; electrochemistry in environmental and biological applications

**Special Issues and Collections in MDPI journals**

Special Issue in ***Sensors: Smart Electrochemical Screen-Printed Platforms*** ([/journal/sensors/special\\_issues/SESP](/journal/sensors/special_issues/SESP))

Special Issue in ***Sensors: Nanoparticles-Based Sensors*** ([/journal/sensors/special\\_issues/Nanoparticles\\_Based\\_Sensors](/journal/sensors/special_issues/Nanoparticles_Based_Sensors))



Dr. Alina Vasilescu

**Website** (<http://www.biodyn.ro/staff/cv-alina.pdf>) **SciProfiles** (<https://sciprofiles.com/profile/175992>)

International Centre of Biodynamics, Bucharest, Bucharest, Romania

**Interests:** analytical chemistry; biosensors; electrochemical sensors; aptamers; wine

**Special Issues and Collections in MDPI journals**

Special Issue in ***Sensors: Advanced Biosensors for Food and Environmental Monitoring: A Themed Issue Dedicated to Professor Jean-Louis Marty*** ([/journal/sensors/special\\_issues/biosensors\\_monitoring](/journal/sensors/special_issues/biosensors_monitoring))

Special Issue in ***Chemosensors: Biosensors for Environmental Monitoring*** ([/journal/chemosensors/special\\_issues/bio\\_environ\\_monit](/journal/chemosensors/special_issues/bio_environ_monit))



Prof. Dr. Raffaele Velotta

**Website** (<https://www.docenti.unina.it/raffaele.velotta>)

Università degli Studi di Napoli Federico II, Naples, Italy

**Interests:** immunosensors; surface plasmon resonance (SPR); localized surface plasmon resonance (LSPR); magnetic biosensors

**Special Issues and Collections in MDPI journals**

Special Issue in ***Sensors: Optical Biosensors*** ([/journal/sensors/special\\_issues/optical\\_Immunosensors-biosensors](/journal/sensors/special_issues/optical_Immunosensors-biosensors))



Prof. Dr. Iole Venditti

**Website** (<https://www.uniroma3.it/persone/QTNQWW1LaXBRNGowMmZleHppcmRveE54dnV6QXdKZEx1SDNmSVkrU2UxTT0=/ricerca/>)

**SciProfiles** (<https://sciprofiles.com/profile/221052>)

Department of Sciences, Roma Tre University of Rome via della Vasca navale 79, 00146 Rome, Italy

**Interests:** nanomaterials; inorganic chemistry; drug delivery; sensing; optical materials; photonics

**Special Issues and Collections in MDPI journals**

Special Issue in ***Materials: Gas Sensitive Materials and Devices*** ([/journal/materials/special\\_issues/gas\\_devices](/journal/materials/special_issues/gas_devices))

Special Issue in ***Nanomaterials: Nanostructured Materials based on Noble Metals for Advanced Biological Applications*** ([/journal/nanomaterials/special\\_issues/noble\\_metals\\_nano](/journal/nanomaterials/special_issues/noble_metals_nano))

Special Issue in ***Polymers: Metal Nanoparticles-Polymer Hybrid Materials*** ([/journal/polymers/special\\_issues/Metal\\_Nano\\_Polymers](/journal/polymers/special_issues/Metal_Nano_Polymers))

Special Issue in ***Chemosensors: Photonics and Plasmonics: New Challenges for Optical Nanostructured Materials*** ([/journal/chemosensors/special\\_issues/PPNCONM](/journal/chemosensors/special_issues/PPNCONM))

Special Issue in ***Polymers: Metal Nanoparticles-Polymers Hybrid Materials II*** ([/journal/polymers/special\\_issues/Metal\\_Nano\\_Polymers\\_II](/journal/polymers/special_issues/Metal_Nano_Polymers_II)) TopTop





**Prof. Dr. Reynaldo Villalonga**

**Website** ([https://www.researchgate.net/profile/Reynaldo\\_Villalonga](https://www.researchgate.net/profile/Reynaldo_Villalonga))

Nanosensors & Nanomachine Group, Department of Analytical Chemistry, Faculty of Chemistry, Complutense University of Madrid, Spain

**Interests:** Electrochemical biosensors, optical nanosensors, mesoporous nanomachines, nanomaterials engineering

**Special Issues and Collections in MDPI journals**

Special Issue in ***Nanomaterials: Nanomaterials for Immunosensors and DNA Sensors*** ([/journal/nanomaterials/special\\_issues/Immuno\\_nano](http://journal/nanomaterials/special_issues/Immuno_nano))



**Dr. Vlastimil Vyskočil**

**Website** (<https://is.cuni.cz/webapps/whois2/osoba/1380627508756617/?lang=en>) **SciProfiles** (<https://sciprofiles.com/profile/499160>)

Charles University, Faculty of Science, Department of Analytical Chemistry, UNESCO Laboratory of Environmental Electrochemistry, Hlavova 2030/8, 12843 Prague 2, Czech Republic

**Interests:** analytical electrochemistry; organic electrochemistry; bioelectrochemistry; sensors; detectors; redox mechanisms; novel electrode materials; chemically modified electrodes, nanostructured surfaces; environmental pollutants; agrochemicals; drugs; food ingredients; electrochemical DNA biosensors; detection of DNA damage; electrochemical immunosensors



**Dr. Alain Walcarius**

**Website** (<http://www.lcpme.cnrs-nancy.fr/lcpme/spip.php?article23&lang=en>)

Laboratory of Physical Chemistry and Microbiology for the Materials and the Environment, CNRS – Université de Lorraine, F-54000 Nancy, France

**Interests:** mesoporous materials in analytical electrochemistry; electrogeneration of sol-gel-derived thin films; electrodes modified with porous and functionalized silica-based materials



**Prof. Dr. Qiangbin Wang**

**Website** ([http://sourcedb.sinano.cas.cn/yw/peo/facultyorstaff/200907/t20090722\\_2155841.html](http://sourcedb.sinano.cas.cn/yw/peo/facultyorstaff/200907/t20090722_2155841.html))

Suzhou Institute of Nano-tech and Nano-Bionics, Chinese Academy of Sciences

**Interests:** Novel optical properties of nanomaterials and nanostructures; Photonic interactions between different nanomaterials; Bioapplications of the novel optical properties



**Prof. Dr. Ping Wang**

**Website** (<http://mypage.zju.edu.cn/cnpwang>) **SciProfiles** (<https://sciprofiles.com/profile/335372>)

Biosensor National Special Laboratory, Department of Biomedical Engineering, Yuquan Campus, Zhouyiqing Building, Zhejiang University, Hangzhou 310027, China

**Interests:** biosensors and bioelectronics; electronic nose and electronic tongue; Cell-based biosensors (CBBS) and Organoid chips; Bio-MEMS and Bio-NEMS; Biomimetic sensors

**Special Issues and Collections in MDPI journals**

Special Issue in ***Biosensors: Bio-MEMS and Bio-NEMS for Chemical Sensing*** ([/journal/biosensors/special\\_issues/bio\\_MEMS\\_NEMS](http://journal/biosensors/special_issues/bio_MEMS_NEMS))

Special Issue in ***Chemosensors: Bioinspired Chemical Sensors and Micro-Nano Devices*** ([/journal/chemosensors/special\\_issues/BSTS](http://journal/chemosensors/special_issues/BSTS))



**Prof. Dr. Jun Wang**

**Website** (<https://person.zju.edu.cn/en/wangjun#0>) **SciProfiles** (<https://sciprofiles.com/profile/1912>)

College of Biosystems Engineering and Food Science, Zhejiang University, 866 Yuhangtang Rd, Hangzhou 310058, China

**Interests:** colorimetric sensor; fluorometric sensor; electrochemical sensor; electronic nose

**Special Issues and Collections in MDPI journals**

Special Issue in ***Chemosensors: State-of-the-Art in Electronic Nose based on Optoelectronic/Electrochemical Sensors***  
([/journal/chemosensors/special\\_issues/SAENOS](http://journal/chemosensors/special_issues/SAENOS))



Prof. Dr. Ying Wang

(/toggle\_desktop\_layout\_cookie)

**Website** (<https://unep-iesd.tongji.edu.cn/iesden/34/96/c14095a144534/page.htm>)

State Key Laboratory of Pollution Control and Resources Reuse, College of Environmental Science and Engineering, Tongji University, Shanghai 200092, China

**Interests:** environmental analytical chemistry; interfacial electrochemistry and electroanalysis, fundamental aspects of water pollution control and resources reuse



Prof. Dr. Kahagala Gamage Upul Wijayantha

**Website** (<http://www.lboro.ac.uk/departments/chemistry/staff/academic-research/upul-wijayantha/>)

Department of Chemistry, Loughborough University, Loughborough, Leicestershire L11 3TU, UK

**Interests:** photocatalysis; nanomaterials; thin films; metal oxides; electrochemistry; electron transfer; energy generation and storage; energy materials



Prof. Dr. Wojtek Wlodarski

**Website** (<https://www.rmit.edu.au/contact/staff-contacts/academic-staff/w/wlodarski-professor-wojciech>)

**SciProfiles** (<https://sciprofiles.com/profile/298631>)

Sensor Technology Laboratory, School of Electrical and Computer Engineering, RMIT University, Melbourne 3001, Australia

**Interests:** gas nanosensors; graphene; 2D compounds; semiconducting oxides; wide band gap semiconductors; deposition techniques



Dr. Dan Xie

**Website** (<http://www.ime.tsinghua.edu.cn/publish/ime/5910/2015/20150315131130151248571/20150315131130151248571.html>)

Tsinghua National Laboratory for Information Science and Technology (TNList), Institute of Microelectronics, Tsinghua University, Beijing 100084, China

**Interests:** New electronic devices based on two-dimensional materials (graphene, molybdenum sulfide, etc.); Optoelectronic devices based on two-dimensional materials and Nanostructures (including new solar cells and photodetectors); Sensing devices based on novel nanocomposite structures (including gas sensors, chemical sensors and biosensors)



Prof. Dr. Vamsi K Yadavalli

**Website** (<http://www.people.vcu.edu/~vyadavalli/>) **SciProfiles** (<https://sciprofiles.com/profile/791792>)

Department of Chemical and Life Science Engineering, Virginia Commonwealth University, Richmond, VA 23284-3028, USA

**Interests:** biosensors; biomaterials; micro and nanofabrication; flexible devices; nanoscale surface characterization



Prof. Dr. Mo Yang

**Website** (<https://www.polyu.edu.hk/bme/people/academic-staff/dr-mo-yang/>) **SciProfiles** (<https://sciprofiles.com/profile/135898>)

Department of Biomedical Engineering, The Hong Kong Polytechnic University, HungHom, Kowloon, Hong Kong

**Interests:** functional 2D nanomaterials; nano-biosensing; nano-bioimaging; nanoprobe based theranostics; nanomedicine

**Special Issues and Collections in MDPI journals**

Special Issue in *Molecules: Graphene Nanocomposites* ([/journal/molecules/special\\_issues/graphene\\_nanocomposites](/journal/molecules/special_issues/graphene_nanocomposites))



Dr. Ji-Wook Yoon

**Website** ([https://www.researchgate.net/profile/Ji\\_Wook\\_Yoon](https://www.researchgate.net/profile/Ji_Wook_Yoon)) **SciProfiles** (<https://sciprofiles.com/profile/696250>)

Division of Advanced Materials Engineering, Jeonbuk National University, Jeonju 54896, Korea

**Interests:** Chemosensors; nano-architectures; 2D materials; breath analysis; sampling apparatus

**Special Issues and Collections in MDPI journals**

Special Issue in *Applied Sciences: Oxides and 2-Dimensional Materials for Chemical Sensors*

([/journal/applsci/special\\_issues/Materials\\_Chemical\\_Sensors](/journal/applsci/special_issues/Materials_Chemical_Sensors))



**Prof. Dr. Genki Yoshikawa**

**Website** ([http://y-genki.net/home/?page\\_id=81](http://y-genki.net/home/?page_id=81)) **SciProfiles** (<https://sciprofiles.com/profile/33563>)

Research Center for Functional Materials, National Institute for Materials Science, Tsukuba, Japan

**Interests:** Olfactory Sensors; Gas Sensors; Bio Sensors; Surface Science; Data Analysis

 [\(toggle desktop layout cookie\)](#)  



**Prof. Dr. Tatsuo Yoshinobu**

**Website** (<http://www.bme.ecei.tohoku.ac.jp>) **SciProfiles** (<https://sciprofiles.com/profile/10776>)

Department of Biomedical Engineering, Tohoku University, 6-6-05 Aramaki Aza Aoba, Aoba-ku, Sendai, Miyagi 980-8579, Japan

**Interests:** chemical sensors; chemical imaging sensor; light-addressable potentiometric sensor

**Special Issues and Collections in MDPI journals**

Special Issue in **Sensors: Light-Addressing and Chemical Imaging Technologies for Electrochemical Sensing**

([/journal/sensors/special\\_issues/lacites](/journal/sensors/special_issues/lacites)).



**Prof. Dr. Ling Zang**

**Website** (<https://my.eng.utah.edu/~lzang/>).

Nano Institute of Utah, Department of Materials Science and Engineering, University of Utah, Salt Lake City, USA

**Interests:** chemical sensor; organic nanomaterial; molecular self-assembly; photocatalysis



**Dr. Dario Zappa**

**Website** (<http://sensor.unibs.it/>) **SciProfiles** (<https://sciprofiles.com/profile/298650>)

Sensor Lab, Department of Information Engineering (DII), University of Brescia, Via Valotti 9, 25133 Brescia, Italy

**Interests:** metal oxides; nanowires; chemical sensors; heterostructures; artificial olfaction; material characterization; material synthesis

**Special Issues and Collections in MDPI journals**

Special Issue in **Materials: Nanostructured Materials for Chemical Sensing Applications** ([/journal/materials/special\\_issues/chemical-sensing](/journal/materials/special_issues/chemical-sensing))

Special Issue in **Chemosensors: Hierarchical Nanostructures for Gas Sensors**

([/journal/chemosensors/special\\_issues/Hierarchical\\_Nanostructures\\_for\\_Gas\\_Sensors](/journal/chemosensors/special_issues/Hierarchical_Nanostructures_for_Gas_Sensors)).

Special Issue in **Nanomaterials: Nanostructured Gas Sensors** ([/journal/nanomaterials/special\\_issues/nanostructure\\_sensor](/journal/nanomaterials/special_issues/nanostructure_sensor)).



**Dr. Run Zhang**

**Website** (<https://researchers.uq.edu.au/researcher/16754>) **SciProfiles** (<https://sciprofiles.com/profile/228920>)

Australian Institute for Bioengineering and Nanotechnology, AIBN, The University of Queensland, St Lucia, QLD 4072, Australia

**Interests:** biosensors; bionanoprobes; chemosensors; bioimaging; theranostic nanomaterials; bio-/nano-interface

**Special Issues and Collections in MDPI journals**

Special Issue in **Materials: Optical Materials for Sensing and Bioimaging: Advances and Challenges** ([/journal/materials/special\\_issues/OMSB](/journal/materials/special_issues/OMSB))

Special Issue in **Nanomaterials: Optical Nanomaterials for Diagnosis and Therapy**

([/journal/nanomaterials/special\\_issues/Optical\\_Nano\\_Diagnosis\\_Therapy](/journal/nanomaterials/special_issues/Optical_Nano_Diagnosis_Therapy)).

Special Issue in **Sensors: Advanced Upconversion Materials for Sensing, Imaging and Theranostics**

([/journal/sensors/special\\_issues/upconversion\\_materials](/journal/sensors/special_issues/upconversion_materials)).

Special Issue in **Molecules: Probes for Detection, Sensing and Imaging** ([/journal/molecules/special\\_issues/probes\\_detection\\_sensing\\_imaging](/journal/molecules/special_issues/probes_detection_sensing_imaging))

Special Issue in **Chemosensors: Applications of Chemosensors in Real-World Sample Analysis**

([/journal/chemosensors/special\\_issues/sample\\_analysis\\_chemosensors](/journal/chemosensors/special_issues/sample_analysis_chemosensors)).



**Prof. Dr. Zhicheng Zhang**

**Website** (<https://scholar.google.com/citations?user=Wy5To0QAAAAJ&hl=zh-CN>) **SciProfiles** (<https://sciprofiles.com/profile/1421198>)

Tianjin Key Laboratory of Molecular Optoelectronic Sciences, Department of Chemistry, School of Science, Tianjin University, 92 Weijin Road, Nankai District, Tianjin 300072, China

**Interests:** functional nanomaterials; electrochemistry; sensing; energy conversion; catalysis; electrocatalysis; photoelectrocatalysis

**Special Issues and Collections in MDPI journals**

Special Issue in **Chemosensors: Novel Molecular Optoelectronic Sensing** ([/journal/chemosensors/special\\_issues/Mol\\_Opt\\_Sens](/journal/chemosensors/special_issues/Mol_Opt_Sens)).



Prof. Dr. Shanjing Zhang

[\(toggle desktop layout cookie\)](#)

**Website** (<https://experts.griffith.edu.au/19020-shanjing-zhang>) **SciProfiles** (<https://sciprofiles.com/profile/204120>)

School of Environment and Science, Gold Coast Campus, Griffith University, QLD 4222, Australia

**Interests:** nanotechnology; nanomaterials; environmental sensors; smart sensors; electrochemical sensors; photoelectrochemical sensors



Dr. Yong Zhang

**Website** (<http://chem.ujn.edu.cn/info/1030/2432.htm>)

Collaborative Innovation Center for Green Chemical Manufacturing and Accurate Detection, Key Laboratory of Chemical Sensing & Analysis in Universities of Shandong, School of Chemistry and Chemical Engineering, University of Jinan, Jinan, 250022, China

**Interests:** low-dimensional optoelectronic functional nanomaterials and metal nanomaterials; electroanalysis and chemical sensing detection

Dr. Yue Zhang

**Website** (<https://foodsci.unl.edu/yue-zhang>)

1. School of Food Science and Biotechnology, Zhejiang Gongshang University, Zhejiang, China

2. Department of Food Science and Technology, University of Nebraska-Lincoln, Lincoln, NE 68588, USA

**Interests:** Food nanotechnology; drug delivery; food protein; nanoencapsulation



Prof. Dr. Yuri Aleksandrovich Zolotov

**Website** ([https://urfodu.ru/cz/en/experts/yuriy\\_aleksandrovich\\_zolotov/](https://urfodu.ru/cz/en/experts/yuriy_aleksandrovich_zolotov/))

Lomonosov Moscow State University, Moscow, Russia

**Interests:** separation science; preconcentration of trace components; express test methods of analysis; nanoanalytics; history of analytical chemistry

**Chemosensors** (*/journal/chemosensors*), EISSN 2227-9040, Published by MDPI **Disclaimer**

**RSS** (</rss/journal/chemosensors>) **Content Alert** (</journal/chemosensors/toc-alert>)

Further Information

**Article Processing Charges** (</apc>)

**Pay an Invoice** (</about/payment>)

**Open Access Policy** (</openaccess>)

**Contact MDPI** (</about/contact>)

**Jobs at MDPI** (<https://careers.mdpi.com>)

Guidelines

**For Authors** (</authors>)

**For Reviewers** (</reviewers>)

**For Editors** (</editors>)

**For Librarians** (</librarians>)

**For Publishers** ([/publishing\\_services](/publishing_services))

**For Societies** (</societies>)

MDPI Initiatives

**Institutional Open Access Program (IOAP)** (</ioap>)

**Sciforum** (<https://sciforum.net>)

**Preprints** (<https://www.preprints.org>)

**Scilit** (<https://www.scilit.net>)

**SciProfiles** (<https://sciprofiles.com>)

**MDPI Books** (<https://www.mdpi.com/books>)

**Encyclopedia** (<https://encyclopedia.pub>)

**JAMS** (<https://jams.pub>)

**Proceedings** (</about/proceedings>)

**MDPI Blog** (<http://blog.mdpi.com/>)

Follow MDPI





# Source details

## Chemosensors

Open Access ⓘ

Scopus coverage years: from 2013 to Present

Publisher: Multidisciplinary Digital Publishing Institute (MDPI)

E-ISSN: 2227-9040

Subject area: Chemistry: Analytical Chemistry Chemistry: Physical and Theoretical Chemistry

Source type: Journal

CiteScore 2021 ⓘ

3.4

SJR 2021 ⓘ

0.526

SNIP 2021 ⓘ

0.960

[View all documents >](#)

[Set document alert](#)

[Save to source list](#) [Source Homepage](#)

[CiteScore](#) [CiteScore rank & trend](#) [Scopus content coverage](#)

### i Improved CiteScore methodology ×

CiteScore 2021 counts the citations received in 2018-2021 to articles, reviews, conference papers, book chapters and data papers published in 2018-2021, and divides this by the number of publications published in 2018-2021. [Learn more >](#)

CiteScore 2021 ▼

$$3.4 = \frac{2,071 \text{ Citations 2018 - 2021}}{611 \text{ Documents 2018 - 2021}}$$

Calculated on 05 May, 2022

CiteScoreTracker 2022 ⓘ

$$3.9 = \frac{4,228 \text{ Citations to date}}{1,089 \text{ Documents to date}}$$

Last updated on 05 April, 2023 • Updated monthly

## CiteScore rank 2021 ⓘ

Category	Rank	Percentile
Chemistry		
Analytical Chemistry	#67/130	48th
Chemistry		
Physical and Theoretical Chemistry	#94/174	46th

[View CiteScore methodology >](#) [CiteScore FAQ >](#) [Add CiteScore to your site &](#)

---

## About Scopus

[What is Scopus](#)

[Content coverage](#)

[Scopus blog](#)

[Scopus API](#)

[Privacy matters](#)

## Language

[日本語版を表示する](#)

[查看简体中文版本](#)

[查看繁體中文版本](#)

[Просмотр версии на русском языке](#)

## Customer Service

[Help](#)

[Tutorials](#)

[Contact us](#)

---

## ELSEVIER

[Terms and conditions](#) ↗ [Privacy policy](#) ↗

Copyright © Elsevier B.V. ↗. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.

We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies ↗.







Ads by Google

Stop seeing this ad

Why this ad? ⓘ

# Chemosensors

## COUNTRY

Switzerland

Universities and research institutions in Switzerland

## SUBJECT AREA AND CATEGORY

Chemistry  
Analytical Chemistry  
Physical and Theoretical Chemistry

## PUBLISHER

MDPI Multidisciplinary Digital  
Publishing Institute

## H-INDEX

17



Ads by Google

Stop seeing this ad

Why this ad? ⓘ

## PUBLICATION TYPE

Journals

## ISSN

22279040

## COVERAGE

2013-2020

## INFORMATION

[Homepage](#)
[How to publish in this journal](#)
[chemosensors@mdpi.com](mailto:chemosensors@mdpi.com)

## SCOPE

-Theory and principles of chemical sensing -New chemical sensors design, including but not limited to: gas detectors, pellistors; electrochemical devices, potentiometric sensor, redox electrode; electronic nose, olfactometers; semiconductor sensors; hydrogen sensor; ion sensors, ion-selective electrode; selective cheating agents; optode; pH sensors, acid-base indicators; environment detectors, smoke detector; nanosensors; sensing materials; optical chemical sensors; selective catalysis; molecular devices and machines, sensor devices and sensor arrays; spectrum based sensors or switches, IR sensors, Fluorescent switches; interaction of chemical agents with biomolecules; biosensor and chemical sensors networks; medical analyzers; chemical field-effect transistors. -Analytical methods, modeling, readout and software for chemical sensors, analytical microsystems, -signal processing in chemical sensors and applications in food industry, medicine, pharmacy, --environmental monitoring, corrosion, process control, etc. other related science and technology -Drug and medico-diagnostic testing -Biothreat agent testing -Stand-off and stand-alone sensors -New technologies with possibilities for chemosensing -Results of field tests or assay validation -Synthesis and application of new reagents for chemosensing -Advanced chemosensing concepts and theory -Single molecule sensing

Join the conversation about this journal

Ads by Google

Stop seeing this ad Why this ad? ⓘ

1 **Sensing and Bio-Sensing Research**  
NLD

**84%**  
similarity

2 **Biosensors**  
CHE

**75%**  
similarity

3 **Sensors and Actuators, B: Chemical**  
NLD

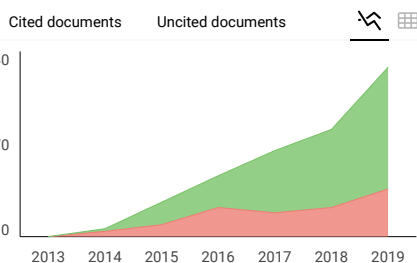
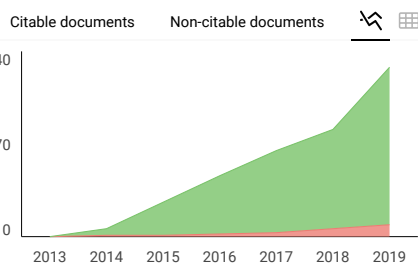
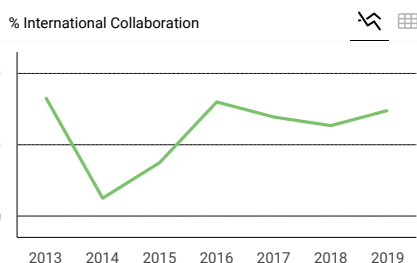
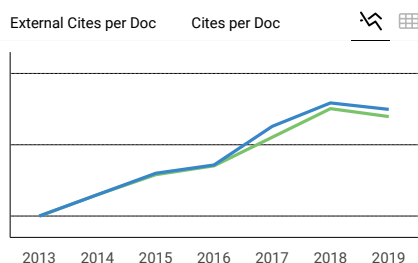
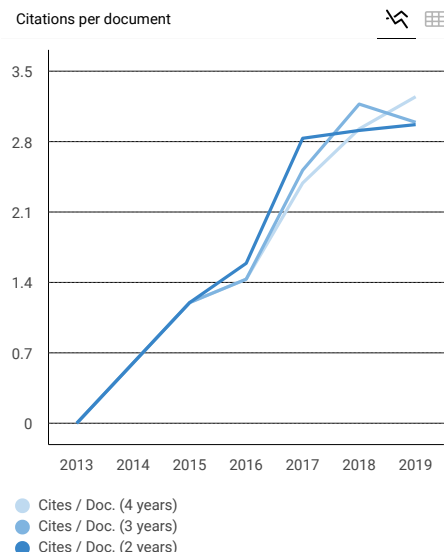
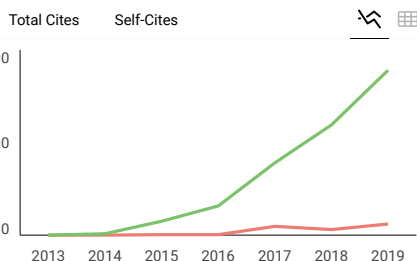
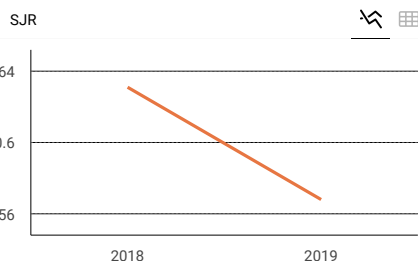
**72%**  
similarity

4 **ACS Sensors**  
USA

**67%**  
similarity

5 **Analytical Methods**  
GBR

**65%**  
similarity



**Chemosensors**

Q2 Analytical Chemistry  
best quartile

SJR 2019  
0.57

powered by scimagojr.com

← Show this widget in your own website

Just copy the code below and paste within your html code:

```
<a href="https://www.scima
```

Metrics based on Scopus® data as of April 2020

M **Muhaned Mohammed Eteya** 1 year ago

Peace be upon you, I want to publish my research in this magazine, if possible

reply

---

## [Chemosensors] Manuscript ID: chemosensors-771842 - Declined for Publication - Encourage Resubmission after Revisions

1 message

---

Arya Cai <arya.cai@mdpi.com>

Thu, Apr 16, 2020 at 5:33 PM

Reply-To: arya.cai@mdpi.com

To: Irzaman Irzaman <irzaman@apps.ipb.ac.id>

Cc: Ridwan Siskandar <ridwansiskandar@gmail.com>, Fabianus Chrisna Dio <chrismadio97@gmail.com>, Brian Yulianto <brian@tf.itb.ac.id>, Mochammad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>, Ferdiansjah Ferdiansjah <ferdiansjah@ugm.ac.id>, Chemosensors Editorial Office <chemosensors@mdpi.com>, Betsy Wang <betsy.wang@mdpi.com>

Dear Dr. Irzaman,

I am writing to you concerning the manuscript you recently submitted to Chemosensors. Based on the review reports, the manuscript is not suitable for publication in Chemosensors in its present format. Significant revisions or new data are required in the manuscript to warrant further consideration for publication of this manuscript in Chemosensors.

Manuscript ID: chemosensors-771842

Type of manuscript: Article

Title: APPLICATION OF Ba<sub>0.5</sub>Sr<sub>0.5</sub>TiO<sub>3</sub> (BST) FILM DOPED WITH RuO<sub>2</sub> (0%, 2%, 4% AND 6%) ON A RICE-STALK CUTTING ROBOT MODEL BASED ON A LINE FOLLOWER WITH HC-05 BLUETOOTH CONTROL

Authors: Irzaman Irzaman \*, Ridwan Siskandar, Fabianus Chrisna Dio, Brian Yulianto, Mochammad Zakki Fahmi, Ferdiansjah Ferdiansjah

Received: 28 March 2020

E-mails: [irzaman@apps.ipb.ac.id](mailto:irzaman@apps.ipb.ac.id), [ridwansiskandar@gmail.com](mailto:ridwansiskandar@gmail.com), [chrismadio97@gmail.com](mailto:chrismadio97@gmail.com), [brian@tf.itb.ac.id](mailto:brian@tf.itb.ac.id), [m.zakki.fahmi@fst.unair.ac.id](mailto:m.zakki.fahmi@fst.unair.ac.id), [ferdiansjah@ugm.ac.id](mailto:ferdiansjah@ugm.ac.id)

Thin Film Based Sensors Part II

[https://www.mdpi.com/journal/chemosensors/special\\_issues/Thin\\_Film\\_Sens\\_PartII](https://www.mdpi.com/journal/chemosensors/special_issues/Thin_Film_Sens_PartII)

[https://susy.mdpi.com/user/manuscripts/review\\_info/d2722fe300fc3b97e1497055bc524c12](https://susy.mdpi.com/user/manuscripts/review_info/d2722fe300fc3b97e1497055bc524c12)

You can find the review reports at:

<https://susy.mdpi.com/user/manuscripts/resubmit/d2722fe300fc3b97e1497055bc524c12>

Based on reviewer input and editorial evaluation, we encourage resubmission of your manuscript after extensive revisions. During resubmission, you must clearly indicate the manuscript ID (chemosensors-771842) of this paper. All changes must be highlighted and a cover letter with responses to reviewers' comments included. Note that the Editorial Office may send the paper to the same reviewers or invite new reviewers.

Please resubmit your revised manuscript through the following link:

[https://susy.mdpi.com/user/manuscripts/upload?pre\\_hash\\_key=d2722fe300fc3b97e1497055bc524c12](https://susy.mdpi.com/user/manuscripts/upload?pre_hash_key=d2722fe300fc3b97e1497055bc524c12)

Thanks again for submitting your work to Chemosensors. If you have any questions, please contact the Editorial Office at [chemosensors@mdpi.com](mailto:chemosensors@mdpi.com).

Kind regards,

Arya Cai  
Assistant Editor

MDPI Branch Office, Room 2207, Jincheng Center, No. 21 Cuijingbeili, Tongzhou District, Beijing  
Chemosensors Editorial Office  
E-Mail: [chemosensors@mdpi.com](mailto:chemosensors@mdpi.com)  
<http://www.mdpi.com/journal/chemosensors/>

Nominations for 2020 Sensors Young Investigator Award (2,000 CHF)

Application Deadline: 31 May 2020

<https://www.mdpi.com/journal/sensors/awards/822>

To be selected as cover story in Sensors in the issue your paper is published, please contact Ms. Jayleen Chen ([jayleen.chen@mdpi.com](mailto:jayleen.chen@mdpi.com)) with an impressive and original figure of the paper. Best Cover Award 2020 (500 CHF) will be selected from the 24 issue covers this year.

8th International Symposium on Sensor Science (I3S 2020) postponed to 26-28 May 2021, Germany

<https://sciforum.net/conference/I3S2020Dresden>

Disclaimer: The information and files contained in this message are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this message in error, please notify me and delete this message from your system. You may not copy this message in its entirety or in part, or disclose its contents to anyone.

MDPI

St. Alban-Anlage 66, 4052 Basel, Switzerland

<http://www.mdpi.com/>

---

## [Chemosensors] Manuscript ID: chemosensors-630705 - Minor Revisions

2 messages

---

**Manuel García Lucena** <manuel.garcia@mdpi.com>

Thu, Dec 5, 2019 at 10:08 PM

Reply-To: manuel.garcia@mdpi.com

To: Irzaman Irzaman <irzaman@apps.ipb.ac.id>

Cc: Ridwan Siskandar <ridwansiskandar@gmail.com>, Brian Yulianto <brian@tf.itb.ac.id>, Mochammad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>, Ferdiansjah Ferdiansjah <ferdiansjah@ugm.ac.id>, Chemosensors Editorial Office <chemosensors@mdpi.com>

Dear Dr. Irzaman,

Thank you for submitting your manuscript:

Manuscript ID: chemosensors-630705

Type of manuscript: Article

Title: Application of Ba<sub>0.5</sub>Sr<sub>0.5</sub>TiO<sub>3</sub> (BST) Film Doped with 0%, 2%, 4% And 6% Concentrations of RuO<sub>2</sub> as An Arduino Nano-Based Bad Breath Gas Sensor

It has been reviewed by experts in the field and we request that you make minor revisions before it is processed further. Please find your manuscript and the review reports at the following link:

<https://susy.mdpi.com/user/manuscripts/resubmit/e4d4754f36e82c89e1903fd0956d2a27>

Your co-authors can also view this link if they have an account in our submission system using the e-mail address in this message.

Please revise the manuscript according to the reviewers' comments and upload the revised file within 5 days. Use the version of your manuscript found at the above link for your revisions, as the editorial office may have made formatting changes to your original submission. Any revisions should be clearly highlighted, for example using the "Track Changes" function in Microsoft Word, so that they are easily visible to the editors and reviewers. Please provide a short cover letter detailing any changes, for the benefit of the editors and reviewers.

Do not hesitate to contact us if you have any questions regarding the revision of your manuscript or if you need more time. We look forward to hearing from you soon.

Kind regards,

Manuel García Lucena

Chemosensors Editorial Office

E-mail: [chemosensors@mdpi.com](mailto:chemosensors@mdpi.com)

<http://www.mdpi.com/journal/chemosensors/>

--

MDPI

Barcelona Office

Av. Madrid, 95, 1º - 3

08028 Barcelona

Tel. +34 936 397 662

E-mail: [manuel.garcia@mdpi.com](mailto:manuel.garcia@mdpi.com)

<http://www.mdpi.com/>

---

**Irzaman husein** <irzaman@apps.ipb.ac.id>

Mon, Dec 9, 2019 at 7:52 AM

To: Manuel García <manuel.garcia@mdpi.com>

Cc: Ridwan Siskandar <ridwansiskandar@gmail.com>, Brian Yulianto <brian@tf.itb.ac.id>, Mochammad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>, Ferdiansjah Ferdiansjah <ferdiansjah@ugm.ac.id>, Chemosensors Editorial Office <chemosensors@mdpi.com>, Irzaman <irzaman@apps.ipb.ac.id>

Dear Manuel García Lucena  
Chemosensors Editorial Office

We attach evidence that we corrected our paper yesterday, December 7, 2019. We look forward to hearing from you soon.

Best regards,  
Irzaman and friends

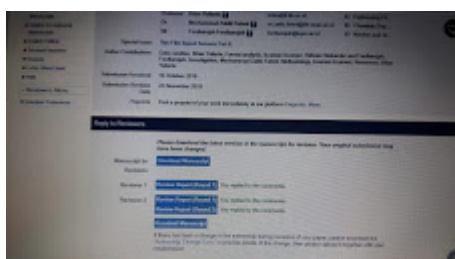
[Quoted text hidden]

---

#### 4 attachments



**WhatsApp Image 2019-12-07 at 18.24.35 (1) (1).jpeg**  
67K



**WhatsApp Image 2019-12-07 at 18.24.35 (2).jpeg**  
66K

 **Author's Notes to Reviewer.docx**  
15K

 **second revision for reviewer 2.docx**  
3671K



---

## [Chemosensors] Manuscript ID: chemosensors-771842 - Article Processing Charge Confirmation

1 message

---

**Arya Cai** <arya.cai@mdpi.com>

Mon, Mar 30, 2020 at 9:33 AM

Reply-To: arya.cai@mdpi.com

To: Irzaman Irzaman <irzaman@apps.ipb.ac.id>

Cc: Ridwan Siskandar <ridwansiskandar@gmail.com>, Fabianus Chrisna Dio <chrisnadio97@gmail.com>, Brian Yulianto <brian@tf.itb.ac.id>, Mochammad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>, Ferdiansjah Ferdiansjah <ferdiansjah@ugm.ac.id>, Chemosensors Editorial Office <chemosensors@mdpi.com>

Dear Dr. Irzaman,

Thank you very much for submitting your manuscript to Chemosensors:

Journal name: Chemosensors

Manuscript ID: chemosensors-771842

Type of manuscript: Article

Title: APPLICATION OF Ba<sub>0.5</sub>Sr<sub>0.5</sub>TiO<sub>3</sub> (BST) FILM DOPED WITH RuO<sub>2</sub> (0%, 2%, 4% AND 6%) ON A RICE-STALK CUTTING ROBOT MODEL BASED ON A LINE FOLLOWER WITH HC-05 BLUETOOTH CONTROL

Authors: Irzaman Irzaman \*, Ridwan Siskandar, Fabianus Chrisna Dio, Brian Yulianto, Mochammad Zakki Fahmi, Ferdiansjah Ferdiansjah

Received: 28 March 2020

E-mails: [irzaman@apps.ipb.ac.id](mailto:irzaman@apps.ipb.ac.id), [ridwansiskandar@gmail.com](mailto:ridwansiskandar@gmail.com), [chrisnadio97@gmail.com](mailto:chrisnadio97@gmail.com), [brian@tf.itb.ac.id](mailto:brian@tf.itb.ac.id), [m.zakki.fahmi@fst.unair.ac.id](mailto:m.zakki.fahmi@fst.unair.ac.id), [ferdiansjah@ugm.ac.id](mailto:ferdiansjah@ugm.ac.id)

Thin Film Based Sensors Part II

[https://www.mdpi.com/journal/chemosensors/special\\_issues/Thin\\_Film\\_Sens\\_PartII](https://www.mdpi.com/journal/chemosensors/special_issues/Thin_Film_Sens_PartII)

We confirm that, if accepted for publication, the following Article Processing Charges (APC) will apply to your article:

Journal APC: 1000 CHF

Total APC: 1000 CHF

Please note that you may be entitled to a discount if you have previously received a discount code. Also note that reviewer vouchers must be applied before acceptance for publication. Vouchers can no longer be applied once an APC invoice has been issued. If you have been granted any discounts that are not displayed here, please contact the Chemosensors editorial office as soon as possible.

Please confirm that you support open access publishing, which allows unlimited access to your published paper and that you will pay the Article Processing Charge if your manuscript is accepted.

Thank you in advance for your cooperation. I look forward to hearing from you.

Kind regards,  
Arya Cai  
Assistant Editor

MDPI Branch Office, Room 2207, Jincheng Center, No. 21 Cuijingbeili, Tongzhou District, Beijing  
Chemosensors Editorial Office  
E-Mail: [chemosensors@mdpi.com](mailto:chemosensors@mdpi.com)  
<http://www.mdpi.com/journal/chemosensors/>

SAVE THE DATE: 8th International Symposium on Sensor Science (I3S 2020), 3-5 June 2020, Dresden, Germany.  
<https://sciforum.net/conference/I3S2020Dresden>

Disclaimer: The information and files contained in this message are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this message in error, please notify me and delete this message from your system. You may not copy this message in its entirety or in part, or disclose its contents to anyone.

MDPI

St. Alban-Anlage 66, 4052 Basel, Switzerland

<http://www.mdpi.com/>

---

## [Chemosensors] Manuscript ID: chemosensors-630705 - Major Revisions

1 message

---

**Manuel García Lucena** <manuel.garcia@mdpi.com>

Wed, Nov 6, 2019 at 3:22 PM

Reply-To: manuel.garcia@mdpi.com

To: Irzaman Irzaman <irzaman@apps.ipb.ac.id>

Cc: Ridwan Siskandar <ridwansiskandar@gmail.com>, Brian Yulianto <brian@tf.itb.ac.id>, Mochammad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>, Ferdiansjah Ferdiansjah <ferdiansjah@ugm.ac.id>, Chemosensors Editorial Office <chemosensors@mdpi.com>

Dear Dr. Irzaman,

Thank you for submitting the following manuscript to Chemosensors:

Manuscript ID: chemosensors-630705

Type of manuscript: Article

Title: Application of Ba<sub>0.5</sub>Sr<sub>0.5</sub>TiO<sub>3</sub> (BST) Film Doped with 0%, 2%, 4% And 6% Concentrations of RuO<sub>2</sub> as An Arduino Nano-Based Bad Breath Gas Sensor

Authors: Irzaman Irzaman \*, Ridwan Siskandar, Brian Yulianto, Mochammad Zakki Fahmi, Ferdiansjah Ferdiansjah

Received: 16 October 2019

E-mails: [irzaman@apps.ipb.ac.id](mailto:irzaman@apps.ipb.ac.id), [ridwansiskandar@gmail.com](mailto:ridwansiskandar@gmail.com), [brian@tf.itb.ac.id](mailto:brian@tf.itb.ac.id), [m.zakki.fahmi@fst.unair.ac.id](mailto:m.zakki.fahmi@fst.unair.ac.id), [ferdiansjah@ugm.ac.id](mailto:ferdiansjah@ugm.ac.id)

Thin Film Based Sensors Part II

[https://www.mdpi.com/journal/chemosensors/special\\_issues/Thin\\_Film\\_Sens\\_PartII](https://www.mdpi.com/journal/chemosensors/special_issues/Thin_Film_Sens_PartII)

It has been reviewed by experts in the field and we request that you make major revisions before it is processed further. Please find your manuscript and the review reports at the following link:

<https://susy.mdpi.com/user/manuscripts/resubmit/ecd4754f36e82c89e1903fd0956d2a27>

Your co-authors can also view this link if they have an account in our submission system using the e-mail address in this message.

Please revise the manuscript according to the reviewers' comments and upload the revised file within 10 days. Use the version of your manuscript found at the above link for your revisions, as the editorial office may have made formatting changes to your original submission. Any revisions should be clearly highlighted, for example using the "Track Changes" function in Microsoft Word, so that changes are easily visible to the editors and reviewers. Please provide a cover letter to explain point-by-point the details of the revisions in the manuscript and your responses to the reviewers' comments. Please include in your rebuttal if you found it impossible to address certain comments. The revised version will be inspected by the editors and reviewers.

If the reviewers have suggested that your manuscript should undergo extensive English editing, please address this during revision. We suggest that you have your manuscript checked by a native English speaking colleague or use a professional English editing service. Alternatively, MDPI provides an English editing service checking grammar, spelling, punctuation and some improvement of style where necessary for an additional charge (extensive re-writing is not included), see details at <https://www.mdpi.com/authors/english>.

Do not hesitate to contact us if you have any questions regarding the revision of your manuscript or if you need more time. We look forward to hearing from you soon.

Kind regards,

Manuel García Lucena

Chemosensors Editorial Office

E-mail: [chemosensors@mdpi.com](mailto:chemosensors@mdpi.com)

<http://www.mdpi.com/journal/chemosensors/>

--

MDPI

Barcelona Office

Av. Madrid, 95, 1º - 3

08028 Barcelona

Tel. +34 936 397 662

E-mail: [manuel.garcia@mdpi.com](mailto:manuel.garcia@mdpi.com)

<http://www.mdpi.com/>

---

## [Chemosensors] Manuscript ID: chemosensors-630705 - Revision Reminder

1 message

---

**Manuel García Lucena** <manuel.garcia@mdpi.com>

Thu, Nov 14, 2019 at 5:43 PM

Reply-To: manuel.garcia@mdpi.com

To: Irzaman Irzaman <irzaman@apps.ipb.ac.id>

Cc: Ridwan Siskandar <ridwansiskandar@gmail.com>, Brian Yulianto <brian@tf.itb.ac.id>, Mochammad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>, Ferdiansjah Ferdiansjah <ferdiansjah@ugm.ac.id>, Chemosensors Editorial Office <chemosensors@mdpi.com>

Dear Dr. Irzaman,

We sent a revision request for the following manuscript on 6 November 2019.

Manuscript ID: chemosensors-630705

Type of manuscript: Article

Title: Application of Ba<sub>0.5</sub>Sr<sub>0.5</sub>TiO<sub>3</sub> (BST) Film Doped with 0%, 2%, 4% And 6% Concentrations of RuO<sub>2</sub> as An Arduino Nano-Based Bad Breath Gas Sensor

Authors: Irzaman Irzaman \*, Ridwan Siskandar, Brian Yulianto, Mochammad Zakki Fahmi, Ferdiansjah Ferdiansjah

Received: 16 October 2019

E-mails: [irzaman@apps.ipb.ac.id](mailto:irzaman@apps.ipb.ac.id), [ridwansiskandar@gmail.com](mailto:ridwansiskandar@gmail.com), [brian@tf.itb.ac.id](mailto:brian@tf.itb.ac.id), [m.zakki.fahmi@fst.unair.ac.id](mailto:m.zakki.fahmi@fst.unair.ac.id), [ferdiansjah@ugm.ac.id](mailto:ferdiansjah@ugm.ac.id)

Thin Film Based Sensors Part II

[https://www.mdpi.com/journal/chemosensors/special\\_issues/Thin\\_Film\\_Sens\\_PartII](https://www.mdpi.com/journal/chemosensors/special_issues/Thin_Film_Sens_PartII)

May we kindly ask you to update us on the progress of your revisions? If you have finished your revisions, please upload the revised version together with your responses to the reviewers as soon as possible.

You can find your manuscript and review reports at this link:

<https://susy.mdpi.com/user/manuscripts/resubmit/e4d4754f36e82c89e1903fd0956d2a27>

Thank you in advance for your kind cooperation and we look forward to hearing from you soon.

Kind regards,

Manuel García Lucena

Chemosensors Editorial Office

E-mail: [chemosensors@mdpi.com](mailto:chemosensors@mdpi.com)

<http://www.mdpi.com/journal/chemosensors/>

--

MDPI

Barcelona Office

Av. Madrid, 95, 1<sup>o</sup> - 3

08028 Barcelona

Tel. +34 936 397 662

E-mail: [manuel.garcia@mdpi.com](mailto:manuel.garcia@mdpi.com)

<http://www.mdpi.com/>

---

**[Chemosensors] Manuscript ID: chemosensors-630705 - Revised Version Received**

1 message

---

**Manuel García Lucena** <manuel.garcia@mdpi.com>

Fri, Nov 22, 2019 at 4:20 PM

Reply-To: manuel.garcia@mdpi.com

To: Irzaman Irzaman <irzaman@apps.ipb.ac.id>

Cc: Ridwan Siskandar <ridwansiskandar@gmail.com>, Brian Yulianto <brian@tf.itb.ac.id>, Mochammad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>, Ferdiansjah Ferdiansjah <ferdiansjah@ugm.ac.id>, Chemosensors Editorial Office <chemosensors@mdpi.com>

Dear Dr. Irzaman,

Thank you very much for providing the revised version of your paper:

Manuscript ID: chemosensors-630705

Type of manuscript: Article

Title: Application of Ba<sub>0.5</sub>Sr<sub>0.5</sub>TiO<sub>3</sub> (BST) Film Doped with 0%, 2%, 4% And 6%

Concentrations of RuO<sub>2</sub> as An Arduino Nano-Based Bad Breath Gas Sensor

Authors: Irzaman Irzaman \*, Ridwan Siskandar, Brian Yulianto, Mochammad Zakki

Fahmi, Ferdiansjah Ferdiansjah

Received: 16 October 2019

E-mails: [irzaman@apps.ipb.ac.id](mailto:irzaman@apps.ipb.ac.id), [ridwansiskandar@gmail.com](mailto:ridwansiskandar@gmail.com),

[brian@tf.itb.ac.id](mailto:brian@tf.itb.ac.id), [m.zakki.fahmi@fst.unair.ac.id](mailto:m.zakki.fahmi@fst.unair.ac.id), [ferdiansjah@ugm.ac.id](mailto:ferdiansjah@ugm.ac.id)

Thin Film Based Sensors Part II

[https://www.mdpi.com/journal/chemosensors/special\\_issues/Thin\\_Film\\_Sens\\_PartII](https://www.mdpi.com/journal/chemosensors/special_issues/Thin_Film_Sens_PartII)

[https://susy.mdpi.com/user/manuscripts/review\\_info/ecd4754f36e82c89e1903fd0956d2a27](https://susy.mdpi.com/user/manuscripts/review_info/ecd4754f36e82c89e1903fd0956d2a27)

We will continue processing your paper and will keep you informed about the submission status.

Kind regards,

Manuel García Lucena

Chemosensors Editorial Office

E-mail: [chemosensors@mdpi.com](mailto:chemosensors@mdpi.com)

<http://www.mdpi.com/journal/chemosensors/>

--

MDPI

Barcelona Office

Av. Madrid, 95, 1º - 3

08028 Barcelona

Tel. +34 936 397 662

E-mail: [manuel.garcia@mdpi.com](mailto:manuel.garcia@mdpi.com)

<http://www.mdpi.com/>



---

## [Chemosensors] Manuscript ID: chemosensors-630705 - Submission Received

1 message

---

**Editorial Office** <chemosensors@mdpi.com>

Wed, Oct 16, 2019 at 3:11 PM

Reply-To: chemosensors@mdpi.com

To: Irzaman Irzaman <irzaman@apps.ipb.ac.id>

Cc: Irzaman Irzaman <irzaman@apps.ipb.ac.id>, Ridwan Siskandar <ridwansiskandar@gmail.com>, Brian Yulianto <brian@tf.itb.ac.id>, Mochammad Zakki Fahmi <m.zakki.fahmi@fst.unair.ac.id>, Ferdiansjah Ferdiansjah <ferdiansjah@ugm.ac.id>

Dear Dr. Irzaman,

Thank you very much for uploading the following manuscript to the MDPI submission system. One of our editors will be in touch with you soon.

Journal name: Chemosensors

Manuscript ID: chemosensors-630705

Type of manuscript: Article

Title: Application of Ba<sub>0.5</sub>Sr<sub>0.5</sub>TiO<sub>3</sub> (BST) Film Doped with 0%, 2%, 4% And 6% Concentrations of RuO<sub>2</sub> as An Arduino Nano-Based Bad Breath Gas Sensor

Authors: Irzaman Irzaman \*, Ridwan Siskandar, Brian Yulianto, Mochammad Zakki Fahmi, Ferdiansjah Ferdiansjah

Received: 16 October 2019

E-mails: [irzaman@apps.ipb.ac.id](mailto:irzaman@apps.ipb.ac.id), [ridwansiskandar@gmail.com](mailto:ridwansiskandar@gmail.com), [brian@tf.itb.ac.id](mailto:brian@tf.itb.ac.id), [m.zakki.fahmi@fst.unair.ac.id](mailto:m.zakki.fahmi@fst.unair.ac.id), [ferdiansjah@ugm.ac.id](mailto:ferdiansjah@ugm.ac.id)

Thin Film Based Sensors Part II

[https://www.mdpi.com/journal/chemosensors/special\\_issues/Thin\\_Film\\_Sens\\_PartII](https://www.mdpi.com/journal/chemosensors/special_issues/Thin_Film_Sens_PartII)

You can follow progress of your manuscript at the following link (login required):

[https://susy.mdpi.com/user/manuscripts/review\\_info/ecd4754f36e82c89e1903fd0956d2a27](https://susy.mdpi.com/user/manuscripts/review_info/ecd4754f36e82c89e1903fd0956d2a27)

The following points were confirmed during submission:

1. Chemosensors is an open access journal with publishing fees of 1000 CHF for an accepted paper (see <https://www.mdpi.com/about/apc/> for details). This manuscript, if accepted, will be published under an open access Creative Commons CC BY license (<https://creativecommons.org/licenses/by/4.0/>), and I agree to pay the Article Processing Charges as described on the journal webpage (<https://www.mdpi.com/journal/chemosensors/apc>). See <https://www.mdpi.com/about/openaccess> for more information about open access publishing.

Please note that you may be entitled to a discount if you have previously received a discount code or if your institute is participating in the MDPI Institutional Open Access Program (IOAP), for more information see <https://www.mdpi.com/about/ioap>. If you have been granted any other special discounts for your submission, please contact the Chemosensors editorial office.

2. I understand that:

a. If previously published material is reproduced in my manuscript, I will provide proof that I have obtained the necessary copyright permission. (Please refer to the Rights & Permissions website: <https://www.mdpi.com/authors/rights>).

b. My manuscript is submitted on the understanding that it has not been published in or submitted to another peer-reviewed journal. Exceptions to this rule are papers containing material disclosed at conferences. I confirm that I will inform the journal editorial office if this is the case for my manuscript. I confirm that all authors are familiar with and agree with submission of the contents of the manuscript. The journal editorial office

reserves the right to contact all authors to confirm this in case of doubt. I will provide email addresses for all authors and an institutional e-mail address for at least one of the co-authors, and specify the name, address and e-mail for invoicing purposes.

If you have any questions, please do not hesitate to contact the Chemosensors editorial office at [chemosensors@mdpi.com](mailto:chemosensors@mdpi.com)

Kind regards,

Chemosensors Editorial Office  
St. Alban-Anlage 66, 4052 Basel, Switzerland  
E-Mail: [chemosensors@mdpi.com](mailto:chemosensors@mdpi.com)  
Tel. +41 61 683 77 34  
Fax: +41 61 302 89 18

\*\*\* This is an automatically generated email \*\*\*