

[PROGRAM VIEW : 2011 Spring & Bilateral](#)**[MY PROGRAM : 2011 Spring & Bilateral](#)****Symposium : D**

Synthesis, processing and characterization of nanoscale multi functional oxide films III

09 May 2011	10 May 2011	11 May 2011	12 May 2011	13 May 2011
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start at	Subject	Num.
08:45	Electric field switching of exchange bias and domain wall dynamics Authors : Josep Fontcuberta ¹ , Vassil Skumryev ² , Vladimir Laukhin ^{1, 2} , Ignasi Fina ¹ , Xavier Martí ¹ , Florencio Sánchez ¹ , Marin Gospodinov ³ ¹ Institut de Ciència de Materials de Barcelona ICMAB-CSIC, Campus UAB, Bellaterra, Catalonia (Spain), ² Institució Catalana de Recerca i Estudis Avançats (ICREA), Catalonia (Spain), ³ Institute of Solid State Physics, Bulgarian Academy of Sciences, 1784 Sofia, Bulgaria	III 1
	add to my program	(view full abstract)
09:15	Domain walls in nanopatterned 'V' structures of La _{0.7} Sr _{0.3} MnO ₃ Authors : L.E. Calvet, G. Agnus, V. Pillard, P. Lecoeur ¹ Institut d'Electronique Fondamentale, Université Paris-Sud, 91405 Orsay, France	III 2
	add to my program	(view full abstract)
09:30	DESIGN OF MULTIFUNCTIONAL FERROIC FILMS Authors : Paula Ferreira, ¹ Alichandra Castro, ¹ Paula M. Vilarinho, ¹ Rui Borges, ² Margarida Godinho, ² Jadra Mosa, ³ Christel Laberty, ³ Clément Sanchez ³ ¹ Departamento de Engenharia Cerâmica e do Vidro, CICECO, Universidade de Aveiro, Portugal ² Centro de Física da Matéria Condensada, Universidade de Lisboa, Campo Grande, Ed. C8, 1749-016 Lisboa, Portugal ³ Laboratoire de Chimie de la Matière Condensée Université Pierre et Marie Curie, Paris VI, Collège de France, France	III 3
	add to my program	(view full abstract)
09:45	Room temperature magnetoelectric Ga _{0.6} Fe _{1.4} O ₃ based compounds : enhancing the magnetoelectric effect through doping Authors : A. Thomasson, F. Roulland, Ch. Mény, Ch. Lefèvre, G. Pourroy, N. Viart* ¹ Institut de Physique et Chimie des Matériaux de Strasbourg, BP 43, 23, rue du Loess, 67034 Strasbourg Cedex 2, France	III 4
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10:00	Break	
10:30	Raman spectroscopy of multiferroic thin films and nanostructures Authors : J. Kreisel ¹ Minatec, CNRS & Grenoble Institute of Technology	IV 1
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11:00	Room temperature ferroelectricity in strained epitaxial PbZrO ₃ thin films Authors : Ayan Roy Chaudhuri, Miryam Arredondo, Alessio Morelli, Michael Becker and Ionela Vrejoiu. ¹ Max Planck Institute of Microstructure Physics, 06120 Halle, Germany.	IV 2
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11:15	Investigation of the domain structure in PbTiO ₃ /PbZr _{1-x} Ti _x O ₃ and PbTiO ₃ /SrTiO ₃ /PbZr _{1-x} Ti _x O ₃ superlattices Authors : C. Hubault, ^{1,2} C. Davoisne, ² L. Dupont, ² A. Perrin, ³ V. Demange, ³ A. Boule, ⁴ J. Holc, ⁵ M. Kosec, ⁵ M.G. Karkut ¹ and N. Lemée ¹ ¹ LPMC, Université de Picardie Jules Verne, 80039 Amiens, France ² LRCS, UMR 6007, 80039 Amiens, France ³ SCR, UMR 6226 CNRS/Université de Rennes 1, 35042 Rennes, France ⁴ SPCTS, UMR 6638 CNRS, Centre Européen de la Céramique, Limoges, France ⁵ Jožef Stefan Institute, 1000 Ljubljana, Slovenia	IV 3
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11:30	Optical properties of BiCrO ₃ : experimental and first-principles studies Authors : Cameliu Himcinschi ¹ , Kannan Vijayanandhini ² , Torsten Weißbach ¹ , Ionela Vrejoiu ² , Andreas Talkenberger ¹ , Silvia Bahmann ¹ , Christian Röder ¹ , Dietrich R.T. Zahn ³ , Alexei A. Belik ⁴ , and Jens Kortus ¹ ¹ TU Bergakademie Freiberg, Institute for Theoretical Physics, D-09596 Freiberg, Germany ² Max Planck Institute of	IV 4

Microstructure Physics, Weinberg 2, D-06120 Halle, Germany 3 TU Chemnitz, Semiconductor Physics, D-09107 Chemnitz 4 International Center for Materials Nanoarchitectonics, National Institute for Materials Science, 1-1 Namiki, Tsukuba, Ibaraki 305-0044, Japan

- add to my program** **(view full abstract)**
- 11:45 Pulsed laser deposition and biocompatibility of magnesium oxide and titanium nitride nanowires on implant surfaces
 Authors : Mainul K Faruque, Ninh Dang, Kwadwo M Darkwa, Crysta Watson, Talisha Haywood, Jenora T Waterman, and Dhananjay Kumar NSF Engineering Research Center for Revolutionary Metallic Biomaterial North Carolina Agricultural and Technical State University IV
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- add to my program** **(view full abstract)**
- 12:00 Lunch
- 14:00 Electric field control of the electronic properties at the LaAlO₃/SrTiO₃ interface
 Authors : A. Caviglia¹, N. Reyren¹, S. Gariglio¹, C. Cancellieri¹, A. Fête¹, M. Gabay², B. Sacépé¹, A. Morpurgo¹, and J.-M. Triscone^{1*} 1DPMC, University of Geneva, 24 quai E.-Ansermet, 1211 Geneva 4, Switzerland. 2 Laboratoire de Physique des Solides, Bat 510, Université d'Orsay, 91405 Orsay, Cedex, France V
1
- add to my program** **(view full abstract)**
- 14:30 Modulation of Spin-Orbit interaction and superconductivity in two-dimensional electron gas at the Mott-Insulator - Band-Insulator interface : LaTiO₃ - SrTiO₃ .
 Authors : J. Biscaras¹, N. Bergeal¹, A. Kushwaha², T. Wolf¹, A. Rastogi², R.C. Budhani²⁻³, J. Lesueur¹ 1) LPEM- UMR8213/CNRS - ESPCI ParisTech, 10 rue Vauquelin - 75005 Paris 2) Condensed Matter - Low Dimensional Systems Laboratory, Department of Physics, Indian Institute of Technology Kanpur, Kanpur 208016, India and 3) National Physical Laboratory, New Delhi - 110012, India. V
2
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- 14:45 Magnetic tunnel junctions and all-oxide mixed sensors for brain imaging
 Authors : A. Solignac, R. Guerrero, C. Fermon, M. Pannetier-Lecoeur DSM/IRAMIS /SPEC- CNRS URA 2464, CEA Saclay, 91191 Gif sur Yvette Cedex France Ph. Lecoeur Institut d'Electronique Fondamentale, Univ Paris-Sud, CNRS UMR 8622, F-91405 Orsay Cedex, France V
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- 15:00 Effect of oxygen-vacancy and water molecule on charge carriers at the *n*-type interface of LaAlO₃ overlayer on SrTiO₃ (001)
 Authors : Jaejun Yu^{1,2}, Yun Li^{1,3}, and Rokyeon Kim¹, ¹ Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea, ² National Renewable Energy Laboratory, Golden, CO 80401, USA, ³ School of Advanced Materials Science & Engineering, Sungkyunkwan University, Suwon, 440-746, KOREA V
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- 15:15 Growth and properties of new oxide phases in thin films
 Authors : Aline Petitmangin, Institut de Chimie des Matériaux de Paris (ICMPE)-Thiais (France) Jacques Perrière, Yohély Davila and Christian Hebert, Institut des Nanosciences de Paris (INSP)-Paris (France) Laurent Binet and Philippe Barboux, Laboratoire de Chimie de la Matière Condensée (ENSCP)-Paris (France) Philippe Vermaut, Laboratoire de Physicochimie des Surfaces (ENSCP)-Paris (France) Wilfried Seiler, Ecole Nationale Supérieure d'Arts et Métiers (ENSAM)-Paris France V
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- 15:30 Break
- 16:00 Structural investigations and magnetic interlayer coupling in R_{1-x}A_xMnO₃/SrRuO₃ superlattices
 Authors : Ionela Vrejoiu ¹, Michael Ziese ², Eckhard Pippel ¹, Elizaveta Nikulina ¹, Dietrich Hesse ¹ 1 Max Planck Institute of Microstructure Physics, D-06120 Halle, Germany 2 University of Leipzig, Division of Superconductivity and Magnetism, D-041203, Leipzig, Germany V
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- add to my program** **(view full abstract)**
- 16:15 Synthesis of magnetic tunnel junctions by full in situ ALD/CVD processes
 Authors : R. Mantovan⁽¹⁾, S. Vangelista⁽¹⁾, S. Cocco⁽¹⁾, G. Tallarida⁽¹⁾, A. Lamperti⁽¹⁾, B. Kutrzeba-Kotowska⁽¹⁾, M. Fanciulli^(1,2) (1)Laboratorio MDM IMM-CNR, Agrate Brianza (MB), Italy (2)Dipartimento di Scienza dei Materiali, Università di Milano Bicocca, Milano, Italy V
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- 16:30 Electronic transport properties of the magnetic oxide semiconductor Fe_{1.5}Ti_{0.5}O_{3-δ}
 Authors : E. Chikoidze¹, Y. Dumont¹, E. Popova¹, H. Ndilimabaka¹, B. Warot-Fonrose², B. Berini¹ and N. Keller¹ 1 Groupe d'Etudes de la Matière Condensée (GEMaC), CNRS - Université de Versailles, Versailles, France 2 Centre d'Elaboration de Matériaux et d'Etudes Structurales (CEMES), CNRS, Toulouse, France V
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- 16:45 Chemical solution based routes to lower temperature deposition of metal oxides
 Authors : A. Hardy^{1,2}, C. De Dobbelaere¹, K. Schellens¹, L. Jaspers^{1,3}, M.L. Calzada⁴, R. Peeters³, M.K. Van Bael^{1,2} 1 Hasselt University, Inorganic and Physical Chemistry-IMO, Agoralaan building D B-3590, Diepenbeek, Belgium 2 IMEC vzw, Division IMOMECE, Agoralaan building D, B-3590 Diepenbeek, Belgium 3 XIOS Hogeschool Limburg, Packaging Institute, Agoralaan building H, B-3590 Diepenbeek, Belgium 4 Instituto de Ciencia de Materiales de Madrid, C.S.I.C., Cantoblanco E-28049 Madrid, Spain V
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- 17:00 Controlling photoinduced magnetization in nanocrystalline manganese zinc ferrite thin films
 Authors : Urusa Alan¹, Franklin Wong¹, Joanna Bettinger^{1,3}, Alex Grutter^{1,2}, Elke Arenholz^{1,4}, Yuri Suzuki^{1,2} 1. Department of Materials Science and Engineering, UC Berkeley 2. Materials Science Division, Lawrence Berkeley National Laboratory 3. SLAC National Accelerator Laboratory 4. Advanced Light Source, Lawrence Berkeley National Laboratory V
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- 17:15 Properties of Ba doped SrCu₂O₂ Transparent Conducting Thin Films Prepared by Pulsed Laser Deposition Technique
 Authors : Dong-Kyun Shin, Chul-Ho Bae, Hee Young Lee and Jai-Yeoul Lee
 Department of Materials Science and Engineering, Yeungnam University, Gyongsan, Korea 712-749 P2
1
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- 17:15 Optimization of dielectric oxides grown by Atomic Layer Deposition technology for electronic devices
 Authors : S. Gieraltowska¹, L. Wachnicki¹, B.S. Witkowski¹, T.A. Krajewski¹, M. Godlewski^{1,2}, E. Guzewicz¹ 1Polish Academy of Sciences, Institute of Physics, al. Lotników 32/46, Warszawa 02-668, Poland 2Cardinal Stefan Wyszyński University, College of Science, Department of Mathematics and Natural Sciences, Warszawa, Poland P2
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- [add to my program](#) [\(view full abstract\)](#)
- 17:15 Synthesis, structural characterizations and nanoscale piezoresponse studies of Ln₂Ti₂O₇ (Ln = Lanthanides) ferroelectric thin films
 Authors : S. Saitzek¹, A. Tebano², A. Ferri¹, S. Zhenmian¹, R. Desfeux¹ 1 Univ Lille Nord de France, F-59000 Lille; UArtois, UCCS, F-62300 Lens; CNRS, UMR8181, F-59650 Villeneuve d'Ascq, France 2 Università di Roma Tor Vergata, Dipartimento di Ingegneria Meccanica, I-00133 ROMA, Italy P2
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- [add to my program](#) [\(view full abstract\)](#)
- 17:15 Epitaxial sputtered LaTiO₃+delta oxide film : structural and dielectric study
 Authors : C. Le Paven¹, A. Ziani¹, Q. Simon¹, S. Rioual², R. Benzerga¹, L. Le Gendre¹, Y. Lu¹, F. Tessier³, F. Cheviré³, H. Kassem⁴, V. Vigneras⁴, A. Sharaiha¹ 1 Institut d'Electronique et de Télécommunications de Rennes (IETR) UMR-CNRS 6164, Université de Rennes 1, IUT Saint Briec, UEB, F-22004 Saint Briec cedex, France 2 Laboratoire de Magnétisme de Brest, FRE 3117, Université de Bretagne Occidentale, UEB, F-29238 Brest, France 3 Sciences Chimiques de Rennes (SCR) UMR-CNRS 6226, Université de Rennes 1, UEB, F-35042 Rennes cedex, France 4 Laboratoire de l'Intégration du Matériau au Système(IMS) UMR-CNRS 5218, Université de Bordeaux 1, F-33607 Pessac, France P2
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- 17:15 Correlation of high temperature X-ray photoemission valence band spectra and conductivity in strained LaSrFeNi-oxide on SrTiO₃(110)
 Authors : A. Braun¹, X. Zhang^{2,3}, Y. Sun⁴, U. Müller¹, Z. Liu⁵, S. Erat^{1,6}, M. Ari⁷, H. Grimmer⁸, S. S. Mao^{2,3}, T. Graule¹ 1 Empa, Swiss Federal Laboratories for Materials Science & Technology CH - 8600 Dübendorf, Switzerland 2 University of California Berkeley Berkeley CA 94720, USA 3 Lawrence Berkeley National Laboratory Berkeley CA 94720, USA 4 Stanford Synchrotron Radiation Lightsource Menlo Park CA 94025, USA 5 Ernest Orlando Lawrence Berkeley National Laboratory Berkeley CA 94720, USA 6 ETH Zürich-Swiss Federal Institute of Technology, CH-8037 Zürich, Switzerland 7 Erciyes University Kayseri 38039, Turkey 8 Paul Scherrer Institut CH - 5232 Villigen PSI, Switzerland P2
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 17:15 Impact of the ambient humidity on the kinetics of formation of ferroelectric domains in monocrystalline LiTaO₃. P2
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 Authors : A. Brugère¹, B. Gautier², S. Gidon¹ ¹ CEA-LETI-MINATEC, 38054 Grenoble cedex 9, France ² Lyon Institute of Nanotechnology (INL), INSA Lyon, 69621 Villeurbanne, France
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 17:15 Optical Properties and Band Gap Characterization of High-K Oxides P2
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 Authors : O. Fursenko, J. Bauer, G. Lupina, P. Dudek, M. Lukosius, Ch. Wenger, P. Zaumseil IHP, Im Technologiepark 25, D-15236 Frankfurt (Oder), Germany
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 17:15 Dielectric properties of TiTaO thin films elaborated by rf magnetron sputtering P2
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 Authors : Ahlem ROUAHI¹, 3, Fatiha CHALLALI², Alain SYLVESTRE¹, Fadhel EL KAMEL³, Christophe VALLEE⁴, Béchir YANGUI³, Antoine GOULLET² ¹Grenoble Electrical Engineering Laboratory (G2ELab), Joseph Fourier University (UJF), 25 Rue des Martyrs, BP 166, 38042 Grenoble Cedex 9, France ² Département Electronique et technologies numériques Polytech Nantes, site de la chantrerie, rue Christian Pauc, BP 50609, 44306 Nantes cedex 3 ³ Laboratory for Materials, Organization and Properties (Lab MOP), Campus Universities-El Manar, 2092 Tunis, Tunisia ⁴ Microelectronics Technology Laboratory (LTM), CEA/LETI/D2NT/LTM, Joseph Fourier University (UJF), 17 Avenue des Martyrs, 38054 Grenoble 9, France
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 17:15 A two-dimensional view on the preferential orientation of Yttria-Stabilized zirconia thin films P2
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 Authors : Jérika Lamas, Wouter Leroy and Diederik Depla Ghent University, Department of Solid State Sciences, Research group DRAFT
Resume : Yttria-stabilized zirconia (YSZ) has been extensively studied as an electrolyte for Solid Oxide Fuel Cells (SOFC) due to its high ionic conductivity at high temperature. Reducing the thickness of the YSZ electrolyte is one possible solution to lower the operational temperature of the SOFC. The use of YSZ thin films asks for the controlled low temperature deposition with a full understanding of the influence of deposition parameters on the crystallographic properties of YSZ. Magnetron sputtering was used to deposit YSZ thin films from two sources, enabling to modify in a flexible way the sample composition. The thin film composition was obtained from EDS measurements, resulting in one principal parameter axis. To obtain a more fundamental understanding, the influence of the deposition parameters (target-substrate distance and discharge current) was translated into the energy per arriving atom, resulting in a second principal parameter axis. In this way, a two dimensional map was obtained showing the crystallographic orientation as a function of the energy per arriving atom and the sample composition. This map shows generally that with the addition of Y and the increase of energy per arriving atom, the orientation changes from a mixture of [111] and [220] to a complete [111] out-of-plane orientation, resulting of a competition between the fastest growth direction and the lowest surface energy. However, this two-dimensional view shows also some unresolved trends.
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 17:15 A low temperature solution-processed ZrO₂ gate insulator using a high-pressure annealing method P2
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 Authors : Si Joon Kim, Doo Hyun Yoon, Seok Min Ko, You Seung Rim, and Hyun Jae Kim School of Electrical and Electronic Engineering, Yonsei University, 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749, Republic of Korea
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 17:15 Magneto-optical response of iron oxide nanoparticle suspension: time-dependent studies P2
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 Authors : N.L. Dmitruk, S. Z. Malynych V.E Lashkaryov Institute for Physics of Semiconductors, NAS of Ukraine, 41 Prospect Nauki, Kyiv 03028, Ukraine
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 17:15 Li₄Ti₅O₁₂ for low dimensionality Li-ion batteries : powder synthesis and thin films deposition P2
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 Authors : C.Jamin (University of Liège) , B.Vertruyen (University of Liège), R.Clouts (University of Liège), F.Boschini (University of Liège)
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 17:15 WITHDRAWN P2
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 Authors : Withdrawn
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- 17:15 Low temperature solution-processed oxide thin film transistor by modulation of composition ratio
 Authors : Woong Hee Jeong, Dong Lim Kim, You Seung Rim, and Hyun Jae Kim*
 School of Electrical and Electronic Engineering, Yonsei University, 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749, Republic of Korea, 120-749
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- 17:15 Dielectric properties of Ba(Zn_{1/3}Ta_{2/3})O₃ thin films on Pt-coated Si substrates
 Authors : L. Nedelcu (1), M. I. Toacsan (1), A. M. Vlaicu (1), A. Ioachim (1), F. Gherendi (2), C.R. Luculescu (2), and N. B. Mandache (2), (1) National Institute of Materials Physics, Multifunctional Materials and Structures Laboratory, PO Box MG-7, 077125 Bucharest-Magurele, Romania, (2) National Institute for Lasers, Plasmas and Radiation Physics, Plasma Physics and Nuclear Fusion Laboratory, PO Box MG-36, 077125 Bucharest-Magurele, Romania
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- 17:15 CexAlyOz/TiN stack analysis for MIM applications: Effect of annealing and the metal electrode deposition method
 Authors : C. Baristiran Kaynak¹, M. Lukosius¹, B. Tillack^{1,2}, Ch. Wenger¹, A. Abrutis³, M. Skapas³ ¹IHP, Im Technologiepark 25, 15230, Frankfurt Oder, Germany ²Technische Universität Berlin, HFT4, Einsteinufer 25, 10587, Berlin, Germany ³Department of General and Inorganic chemistry, Vilnius University, 24 Naugarduko, 03225 Vilnius, Lithuania
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- 17:15 Growth mechanism and thermal conductivity measurements of La₅Ca₉Cu₂₄O₄₁ thin films deposited on SrTiO₃ (110) by PLD
 Authors : E. Svoukis*¹, G. I. Athanasopoulos¹, Th. Altantzis², Ch. Lioutas², R. Saint-Martin³, A. Revcolevschi³, and J. Giapintzakis*¹ ¹)Department of Mechanical and Manufacturing Engineering, University of Cyprus, 75 Kallipoleos Avenue, PO Box 20537, 1678 Nicosia, Cyprus ²)Department of Physics, Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece ³)LPCES - ICMMO - Bât 410, Université Paris-Sud XI, 15, rue Georges Clémenceau, 91405 Orsay Cedex, France *
 Corresponding authors: E. Svoukis email: esvouk01@ucy.ac.cy, J. Giapintzakis email: giapintz@ucy.ac.cy
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- 17:15 An innovative plasma-assisted route to Co₃O₄ nanomaterials for energy and sensing applications
 Authors : D. Barreca,^a D. Bekermann,^b E. Comini,^c A. Devi,^d R. A. Fischer,^d P. Fornasiero,^e A. Gasparotto,^b M. Gavagnin,^b V. Gombac,^e C. Maccato,^b T. Montini,^e O. I. Lebedev,^f C. Sada,^g G. Sberveglieri,^c S. Turner,^h E. Tondello^a a CNR-ISTM and INSTM, Department of Chemistry, Padova University, 35131 Padova, Italy; b Department of Chemistry, Padova University and INSTM, 35131 Padova, Italy; c CNR-IDASC, SENSOR Lab, Department of Chemistry and Physics, Brescia University, 25133 Brescia, Italy; d Lehrstuhl für Anorganische Chemie II, Ruhr-University Bochum, 44780 Bochum, Germany; e Department of Chemical and Pharmaceutical Sciences, ICCOM-CNR Trieste Research Unit, INSTM Trieste Research Unit, Trieste University, 34127 Trieste, Italy; f Laboratoire CRISMAT – ENSICAEN, UMR 6508 CNRS, Caen Cedex, France; g Department of Physics, CNISM, Padova University, 35131 Padova, Italy; h Electron Microscopy for Materials Science (EMAT), Antwerp University, 2020 Antwerpen, Belgium.
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- 17:15 Roughness evolution, crystalline phase and layer stacking faults in short-period atomic layer deposited HfO₂/Al₂O₃ and TiO₂/Al₂O₃ multilayers.
 Authors : M. de Pauli (1), P. Fernández-Siles (1), C. C. Bof Bufon (2), A. Malachias (1) (1) Laboratorio Nacional de Luz Sincrotron, CEP 13083-970, C.P. 6192, Campinas, Brazil. (2) Institute for Integrative Nanoscience, IFW Dresden, Helmholtzstr. 20, D-01069 Dresden, Germany
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- 17:15 Band alignment and chemical properties at Ti_{0.3}Al_{0.7}O_y/Si interface
 Authors : Yu.Yu. Lebedinskii¹, A.V. Zenkevich¹, S.A. Gudkova², A.M. Markeev² and A.P. Alekhin² ¹NRNU Moscow Engineering Physics Institute, 31 Kashirskoe chaussee, 115409 Moscow, Russia ²Moscow Institute of Physics and Technology, 9 Institutskii per., Dolgoprudny, 141700 Moscow region, Russia
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- 17:15 Investigation of nanoscale electromechanical fatigue in Pb(Mg_{1/3}Nb_{2/3})O₃-PbTiO₃ thin films by piezoresponse force microscopy
 Authors : A. Gatoux ¹, A. Ferri ¹, A. Da Costa ¹, M. Detalle ², D. Rémiens ³, R. Desfeux ¹ ¹Univ Lille Nord de France, F-59000 Lille; UArtois, UCCS, F-62300 Lens;
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- 17:15 Dielectric oxynitride LaTiOxNy thin films
 Authors : H. NGuyen1,2, A. Ziani1, R. Benzerga1, C. Le Paven-Thivet1, D. Fasquelle3, Y. Lu1, L. Le Gendre1, X. Castel1, C. Delaveaud2, Tessier4, F. Chevire4, A. Sharaiha1, J.C. Carru3. 1 Institut d'Electronique et de Télécommunications de Rennes (IETR)UMR-CNRS 6164, University of Rennes 1 IUT Saint Brieuc, 18 rue Henri Wallon 22004 Saint Brieuc cedex, France 2 CEA-Leti, DRT/DCIS/SMOC/LCARE, Minatec, 38054 Grenoble, France 3Unité de Dynamique et Structure des Matériaux Moléculaires (UDSMM) EA4476, Université du Littoral Côte d'Opale, 50 rue Ferdinand Buisson F-62228 Calais cedex, France. 4 Sciences Chimiques de Rennes (SCR) UMR CNRS 6226, équipe "Verres et Céramiques", Université de Rennes 1, UEB, F-35042 Rennes cedex, France. P2
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- 17:15 Study of the working pressure effect on NdNiO3 reactive sputter deposited films and annealing process improvement.
 Authors : A. Boileau1, F. Capon1, J.F. Pierson1, S. Barrat1 and P. Laffez2 1 Institut Jean Lamour, CP2S, UMR CNRS 7198, Ecole des Mines, Parc de Saurupt, 54042 Nancy, France. 2 Université de Tours, IUT de Blois, Laboratoire d'Electrodynamique des Matériaux Avancés, UMR CNRS CEA 6187, 15 rue de la chocolaterie, 41000 Blois, France. P2
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- 17:15 Raman scattering studies of hexagonal rare earth RMnO3
 Authors : Nguyen Thi Minh Hien1, Su-Young Oh1, Xiang-Bai Chen2, D. Lee3, S. -Y. Jang3, T. W. Noh3, and In-Sang Yang1,* 1 Dept. of Physics and Division of Nano-Sciences, Ewha Womans University, Seoul 120-750, Korea 2 Department of Applied Physics, Konkuk University, Chungju, Chungbuk 380-701, Korea 3 ReCOE & FPRD, Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea P2
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- 17:15 Ferroelectric properties of Pr and Mn co-substituted BiFeO3 thin films deposited on Pt and LaNiO3 electrodes: A comparative study
 Authors : Zheng Wen, Xuan Shen, Di Wu, and Aidong Li Department of Materials Science and Engineering and National Laboratory of Solid State Microstructures, Nanjing University, Nanjing 210093, China P2
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- 17:15 Materials studies and optimization for low leakage sub-0.5 nm EOT ALD SrxCiTiyOz based MIM capacitors for 2X nm DRAM and beyond
 Authors : M.A. Pawlak, Min-Soo Kim, B. Kaczer, M. Popovici, J. Swerts, T. Kazuyuki, K. Opsomer, A. Franquet, P. Favia, R. Olivier, H. Bender, C. Vrancken, C. Demeurisse, Wan-Chih Wang, V. V. Afanas'ev, I. Debusschere, L. Altimime, J.A. Kittl IMEC Belgium P2
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- 17:15 Ceramics and thin films Eu1-xCaxCoO3-z (x=0-0.5).
 Authors : KuzmovaTatyana1, Kamenev Anton1, VasilchikovaTatyana2 Lomonosov Moscow State University 1Department of Materials Science, Moscow, Russia P2
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 2Department of Physics, Moscow, Russia
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- 17:15 Pulsed laser Deposition of epitaxial PZT films on STO and Si substrates for non-volatile memory applications
 Authors : A.S. Borowiak1, G. Niu2, P. Lecoecur 3, V. Pillard3, D. Albertini1, N. Baboux1, B. Vilquin2, B. Gautier1 1 Institut des Nanotechnologies de Lyon, INSA de Lyon, 20, avenue Albert Einstein, 69621 Villeurbanne, France 2 Institut des Nanotechnologies de Lyon, Ecole Centrale de Lyon, 36 avenue Guy de Collongue, 69134 Ecully cedex, France 3 Institut d'Electronique Fondamentale, Université Paris-Sud, Bât. 220, 91405 Orsay cedex, France. P2
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- 17:15 Remanent resistance changes in metal- PrCaMnO-metal sandwich device structures
 Authors : M. Scherff, B.-U. Meyer, S. Raabe, J. Norpoth, J. Hoffmann, Ch. Jooss Institute of Materials Physics, University of Goettingen, Germany P2
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- 17:15 Thickness dependence of dielectric properties in BaTiO₃ thin films in view of integration for energy storage
 Authors : Shenghong YAO¹, Alain SYLVESTRE¹, Ahlem ROUABI¹, Fadhel EI KAMEL¹, François WEISS², Patrice. GONON³ 1.Grenoble Electrical Engineering Laboratory (G2ELab), -Joseph Fourier University (UJF), 25 Rue des Martyrs, BP 166, 38042 Grenoble Cedex 9, France 2. Laboratoire des Matériaux et du Génie Physique (LMGP), Grenoble INP Minatec, BP257, 3 Parvis Louis Néel, 38016 Grenoble, France 3. Microelectronics Technology Laboratory (LTM), 17 rue des Martyrs, 38054 Grenoble Cedex, France
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- 17:15 Residual stresses in Y₂O₃ thin films grown by Ion beam Sputtering
 Authors : B. Lacroix (1), F. Paumier (2), R. J. Gaboriaud (2) (1) CIMAP, UMR 6252, CNRS-ENSICAEN-CEA-UCBN, 6 Bd Maréchal Juin, 14050 Caen, France (2) Institut Pprime, CNRS-Université de Poitiers, SP2MI BP 30179, 86962 Chasseneuil Futuroscope, France
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- 17:15 Dielectric response of nanocrystalline BaTiO₃ films
 Authors : 1M. Tyunina, 2B. Malic, 1M. Plekh, 1J. Narkilahti, 2M. Kosec 1Microelectronics and Materials Physics Laboratories, University of Oulu, PL4500, FI-90014 Oulun yliopisto, Finland 2Jožef Stefan Institute, Jamova 39, 1000 Ljubljana, Slovenia
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- 17:15 Dielectric NaNbO₃ – SrTiO₃ interface
 Authors : M. Tyunina and M. Plekh Microelectronics and Materials Physics Laboratories, University of Oulu, PL4500, FI-90014 Oulun yliopisto, Finland
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- 17:15 STRAIN RELAXATION IN PEROVSKITE-STRUCTURED POTASSIUM TANTALATE THIN FILMS
 Authors : J. Narkilahti and M. Tyunina Microelectronics and Materials Physics Laboratories, P.O.B 4500, University of Oulu, FI-90014, Finland
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- 17:15 Tetragonal tungsten bronze K-Ta-Nb-O nanorods epitaxially grown on oxide substrates by pulsed laser deposition
 Authors : Q. Simon¹, V. Demange¹, V. Dorcet¹, P. Boullay², I. Péron¹, V. Bouquet¹, S. Députier¹, M. Guilloux-Viry¹ 1 Sciences Chimiques de Rennes, UMR 6226 CNRS/UR1 Campus scientifique et technologique de Beaulieu 35042 Rennes, France 2 Laboratoire de Cristallographie et Sciences des Matériaux (CRISMAT), UMR 6508 CNRS/ENSICAEN 6, boulevard du Maréchal Juin 14050 Caen CEDEX 4, France
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- 17:15 Nucleation and growth mechanisms of strained induced Ce_{1-x}GdxO_{2-y} nanostructures
 Authors : Albert Queraltó (1), Marta Gibert (2), Teresa Puig (1), Xavier Obradors (1) (1) Institut de Ciència de Materials de Barcelona (ICMAB-CSIC), Campus Universitat Autònoma de Barcelona, 08193 Bellaterra, Catalonia, Spain. (2) Département de Physique de la Matière Condensée, University of Geneva, 24 Quai Ernest-Ansermet, 1211 Genève 4, Switzerland.
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- 17:15 Electro-optic effects for PLZT thin films integrated in a full oxide heterostructure.
 Authors : 1 N.D. Scarisoreanu, 2 G. Dinescu, 2 A. Andrei, 2 R. Birjega, 2 V. Ion, 3 F. Craciun, 4 C. Galassi and 2M. Dinescu. 1National Institute for Research and Development in Microtechnologies, Iancu Nicolae 126A , 077190 Bucharest, Romania. 2 National Institute for Laser, Plasma and Radiation Physics, PO Box MG-16 Magurele, 077125 Bucharest, Romania 3CNR-ISC, Istituto dei Sistemi Complessi, Via del Fosso del Cavaliere 100, I-00133 Rome, Italy 4CNR-ISTEC, Via Granarolo 64, I-48018 Faenza, Italy
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- 17:15 Raman spectroscopy of epitaxial BiCrO₃ thin films grown on different substrates
 Authors : Andreas Talkenberger(1), Kannan Vijayanandhini(2), Christian Roeder(1), David Rafaja(3), Miryam Arredondo(2), Ionela Vrejoiu(2), Cameliu Himcinschi(1) (1)TU Bergakademie Freiberg, Institute for Theoretical Physics, D-09596 Freiberg, Germany – (2)Max Planck Institute of Microstructure Physics, Weinberg 2, D-06120 Halle, Germany – (3)TU Bergakademie Freiberg, Institute of Materials Science, D-09596 Freiberg, Germany
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- 17:15 Electrical properties of low-temperature Al₂O₃/Polymer/Al₂O₃ tri-layer dielectric film
 Authors : Hongki Cha*, Hee Ok Kim, Jonghyurk Park, Sang Chul Lim, Seongdeok Ahn, Seong Yeol Kang *Corresponding author. Tel: +82-10-3764-8476 E-mail: cha8476@etri.re.kr Electronic Paper Technology Research Team, Convergence Components & Materials Research Laboratory, Electronics and Telecommunications Research Institute (ETRI), 218 Kajong-dong, Yuseong-gu, Daejeon 305-700, Republic of Korea P2 40
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 Authors : L.Khomenkova, X. Portier, C. Labbe, F.Gourbilleau CIMAP, UMR CNRS/CEA/Ensicaen/UCBN, ENSICAEN, 6 Bd. Maréchal Juin, 14050 Caen Cedex, France P2 41
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- 17:15 Micro to Nanoscale Modelling and Simulation of the Atomic Layer Deposition of Hafnium Oxide
 Authors : C. Mastail^{1,2,3}, A. Estève^{1,2}, M. Djafari Rouhani^{1,2}, S. Olivier^{1,2}, J.-M. Ducéré^{1,2}, 1 CNRS ; LAAS ; 7 avenue du Colonel Roche, F-31077 Toulouse, France P2 42
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 Authors : M. Filipescu, V. Ion, B. Mitu, M. Dinescu National Institute for Laser, Plasma and Radiation Physics, P.O. Box MG 16, RO- 77125 Magurele, Bucharest, Romania
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- 17:15 Development of new amorphous oxide semiconductors P2 44
 Authors : Woo-Seok Cheong*, Chan-Hwa Hong, Sung Mook Chung, and Jae-Heon Shin
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- 17:15 Epitaxial ferroelectric heterostructures with large lattice mismatch P2 45
 Authors : M. Tyunina, J. Levoska, M. Plekh, J. Narkilahti Microelectronics and Materials Physics Laboratories, University of Oulu, PL4500, FI-90014 Oulun yliopisto, Finland
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- 17:15 AVD and ALD growth and properties of Sr, Ti and Nb doped Ta₂O₅ MIM Capacitors P2 46
 Authors : M. Lukosius¹, T. Blomberg², G. Ruhl³, and Ch. Wenger¹ 1 IHP, Im Technologiepark 25, 15236 Frankfurt (Oder), Germany 2 ASM Microchemistry Ltd., Väinö Auerin katu 12 A, 00560 Helsinki, Finland 3 Infineon, Wernerwerkstr. 2, 93049 Regensburg, Germany
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- 17:15 Skin layer of BiFeO₃ single crystals P2 47
 Authors : Xavier Mart¹, Julia Herrero-Albillos², Pilar Ferrer^{3,4}, Vaclav Holy¹, Marin Alexe⁵, Gustau Catalan^{6,7} 1 Charles University in Prague, Czech Republic 2 Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Berlin, Germany 3 SpLine (BM25), ESRF, Grenoble, France. 4 Instituto de Ciencia de Materiales de Madrid ICMM-CSIC, Madrid, Spain. 5 Max Planck Institute of Microstructure Physics, Halle, Germany 6 Institut Català de Recerca i Estudis Avançats (ICREA), Catalunya, Spain 7 Centre d'Investigacions en Nanociència i Nanotecnologia (CIN2), Barcelona, Spain
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 Authors : Wenbin Chen, Kevin G. McCarthy, Mehmet Çopuroğlu, Shane O'Brien, Richard Winfield, and Alan Mathewson Tyndall National Institute and Dept. of Electrical & Electronic Engineering, University College Cork, Ireland
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 Authors : K. Opsomer (1), M. Popovici (1), M. Pawlak (1), C. Detavernier (2), and J.A. Kittl (1) (1) Imec, Kapeldreef 75, B-3001 Heverlee, Belgium (2) Universiteit Gent, Krijgslaan 281/S1, B-9000 Gent, Belgium
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 Authors : R. Bachelet, N. Dix, I. Fina, C. Kanamadi, L. Fábrega, F. Sánchez, and J. Fontcuberta. Institut de Ciència de Materials de Barcelona, ICMA-B-CSIC, Campus UAB, 08193 Bellaterra, Spain. P2
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- 17:15 Low temperature amorphous growth of semiconducting YBaCuO oxide thin films in view of bolometric infrared detection
 Authors : Annick F. DEGARDIN (UPMC Univ Paris 6 and SUPELEC) Aur?e GENSBITTEL (UPMC Univ Paris 6 and SUPELEC) Vishal S. JAGTAP (SUPELEC) Alain J. KREISLER (UPMC Univ. Paris 6) P2
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- 17:15 Strain-induced distortions in the Mn-O-Mn bonding angle in orthorhombic YMnO₃ thin films
 Authors : X. Marti¹, F. Jimenez-Villacorta², J.A. Gallastegui³, V. Holy¹, I. Fina⁴, L. Fabrega⁴, R. Bachelet⁴, F. Sanchez⁴, J. Fontcuberta⁴ ¹ Charles University in Prague, Faculty of Mathematics and Physics, Czech Republic ² Department of Chemical Engineering, Northeastern University, United States ³ Spline (BM25), ESRF, Grenoble, France ⁴ Institut de Ciència de Materials de Barcelona (ICMA-B-CSIC), Spain P2
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- 17:15 Integration of Epitaxial Barium Titanate onto Silicon via RF-Sputtering using MBE-grown Seed Layers
 Authors : S. Abel*, C. Marchiori*, M. Sousa*, D. Caimi*, H. Siegwart*, C. Rossel*, and J. Fompeyrine* *IBM Research – Zurich, Säumerstrasse 4, 8803 Rüschlikon, Switzerland P2
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 Authors : M. Benedicto¹, B. Galiana¹, H. Stange¹, I. Cornago², J. Bravo², E. Bravo², J. M. Molina-Aldareguia³, S. Monaghan⁴, K. Cherkaoui⁴, P. K. Hurley⁴, C. S. Wong⁵, N. S. Bennett⁵, P. J. McNally⁵, P. Tejedor¹ ¹Department of Nanostructures and Surfaces, Instituto de Ciencia de Materiales de Madrid, ICMM-CSIC, C/ Sor Juana In?de la Cruz, 3 28049-Madrid, Spain. ²Department of Electric and Electronic Engineering, Universidad P?ca de Navarra, Campus Arrosadia, s/n 31006-Pamplona, Spain ³Nanomechanics and Micromechanics of Advanced Materials, IMDEA-Materiales, C/ Profesor Aranguren, s/n 28040-Madrid, Spain. ⁴Micro-Nanoelectronics Centre, Tyndall National Institute, University College Cork, Lee Maltings, Prospect Row, Cork, Ireland. ⁵Nanomaterials Processing Laboratory, The Rince Institute, School of Electronic Engineering, Dublin City University, Dublin 9, Ireland. P2
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 Authors : Alain J. KREISLER (LGEP UPMC Univ. Paris 6) Jean-Claude VILLEGIER (INAC CEA Grenoble) Annick F. DEGARDIN (LGEP SUPELEC and UPMC Univ. Paris 6) P2
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 Authors : Andrey R. Kaul (1), Sergey V. Samoilenkov (2), Anton V. Markelov (3), Vadim A. Amelichev (3), Andrey V. Blednov (3), Alexander L. Vasiliev (4), Vladimir V. Roddatis (4) (1) Department of Chemistry, Moscow State University, Russia (2) Institute of High Temperatures RAS, Moscow, Russia (3) SuperOx Company, Moscow, Russia (4) National Research Center "Kurchatov Institute", Moscow, Russia P2
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 Authors : Hyoung Jeen Jeen, Patrick Mickel, A.F. Hebard, Amlan Biswas (Department of Physics, University of Florida, Gainesville, FL 32611) Valentin Craciun (Major Analytical Instrumentation Center University of Florida Gainesville, FL 32611) P2 59
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- 17:15 Characterization of sol-gel derived TiO₂/ZrO₂ films and powders by Raman spectroscopy
 Authors : A. Naumenko¹, Yu. Gnatyuk², N. Smirnova² ¹Faculty of Physics, National Taras Shevchenko University of Kyiv, 2, Acad Glushkova prosp., build. 1, Kyiv 03680, Ukraine ²Institute of Surface Chemistry, Ukrainian National Academy of Sciences, 17 Gen. Naumov str., Kyiv 03164, Ukraine P2 60
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 Authors : M. Boudard, C. Girardot, S. Pignard, N.Ihzaz, L. Rapenne, A. Bartasyte LMGP, MINATEC Bâtiment INPG, UMR 5628 CNRS/INPG, 3 Parvis Louis Néel, BP 257, 38016 Grenoble Cedex 1, France P2 61
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- 17:15 SrSn_{1-x}Ti_xO₃ thin films grown by PLD on various substrates for photocatalysis and gas sensors applications
 Authors : A.L.M. Oliveira^{1,3}, S. Ollivier¹, V. Bouquet¹, S. Députier¹, M. Guilloux-Viry¹, R. Lebullenger¹, O. Merdrignac-Conanec¹, I.T. Weber², A .G. Souza³, I. M. G. Santos³ ¹Sciences Chimiques de Rennes, UMR 6226 CNRS/ Université de Rennes 1, Campus de Beaulieu, 35042 Rennes Cedex, France ²LIMC, Dept. de Química Fundamental, CCEN, Universidade Federal de Pernambuco, CEP 50740-540, Recife, PE, Brazil ³LACOM/ INCTMN, Dept. de Química, Universidade Federal de Paraíba, CEP 58059-900, João Pessoa, PB, Brazil P2 62
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 Authors : Aurelie GENSBITTEL (LGEP SUPELEC & UPMC Univ. Paris 6) Olivier DUBRUNFAUT (LGEP SUPELEC & UPMC Univ. Paris 6) Alain KREISLER (UPMC Univ. Paris 6) Annick DEGARDIN (LGEP SUPELEC & UPMC Univ. Paris 6) P2 63
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- 17:15 Magnetic and electrical properties of ferromagnetic nanocomposites based on Co nanoparticles in Al₂O₃ matrix
 Authors : G.V. Lashkarev¹, M.V. Radchenko¹, M.E. Bugaiova¹, V.I. Sichkovskiy¹, V.I. Lazorenko¹, M.I. Danylenko¹, Y.A. Stelmakh², L.A. Krushynskaya², W. Knoff³, T. Story³, S.P. Kolesnik⁴ ¹I.M. Frantsevich Institute for Problems of Material Science, National Academy of Sciences of Ukraine, 3 Krzhizhanovskogo str., Kyiv, Ukraine, radch@isp.kiev.ua ²E.O. Paton Electric Welding Institute, National Academy of Sciences of Ukraine, 68 Gorkogo str., Kyiv, Ukraine ³Institute of Physics, Polish Academy of Sciences, Al. Lotnikow 32/46, Warsaw, Poland ⁴V.E. Lashkarev Institute of Semiconductor Physics, National Academy of Sciences of Ukraine, Kyiv, Ukraine P2 64
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- 17:15 Nanoporous tungsten oxide based multilevel memory device with resistive and electrochromic switching
 Authors : Wei-Ting Wu¹, Jen-Sue Chen¹, Jih-Jen Wu² ¹. Department of Materials Science and Engineering, National Cheng Kung University, Tainan, Taiwan. ². Department of Chemical Engineering, National Cheng Kung University, Tainan, Taiwan. P2 65
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 Authors : V.N.Andreev, V.A.Klimov, Baikov Yu.M. Ioffe Physical Technical Institute of RAS 26 Polytechnicheskaja, Saint-Petersburg, 194021 Russia baikov.solid@mail.ioffe.ru P2 66
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 Authors : S.V. Jagadeesh Chandra¹, and Chel Jong Choi^{1,2} ¹School of Semiconductor and Chemical Engineering, Semiconductor Physics Research Center, Chonbuk National University, Jeonju 561-756, Korea ²Department of BIN Fusion Technology, Chonbuk National University, Jeonju 561-756, Korea
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 Authors : J. Schwarzkopf, A. Duk, M. Schmidbauer, F. Waidick, G. Wagner, R. Fornari Leibniz Institute for Crystal Growth, Max-Born-Str. 2, 12489 Berlin, Germany
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 Authors : Leander Dillemans¹, Ruben Lieten¹, Mariela Menghini¹, Tomas Smets¹, and Jean-Pierre Locquet¹ ¹Department of Physics and Astronomy, KU Leuven, Leuven, Belgium
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 Authors : M.Saraiva, D. Depla Department of Solid State Sciences, Ghent University, Krijgslaan 281/S1, B-9000 Gent, Belgium L.C. Costa, M.A. Valente, M.P.F. Graça I3N – Aveiro, Physics Department, Aveiro University, Campus Universitário de Santiago, 3810 – 193, Aveiro – Portugal
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 Authors : S. V. Zaytsev, D. A. Khoviv, A. N. Kharin, A. M. Khoviv Voronezh state university, Russia
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 Authors : Cornelia SIMA^{a,b}, C. GRIGORIU^a, C. TAZLOANU^b, S. ANTOHEB ^aNational Institute for Laser, Plasma and Radiation Physics, Laser department, 409 Atomistilor street, P.O. Box MG-36, 077125, Bucharest-Magurele, Romania ^bUniversity of Bucharest, Faculty of Physics, 405 Atomistilor street, P. O. Box MG-11, 077125, Bucharest-Magurele, Romania Corresponding author: Cornelia Sima, E-mail: simac@ifin.nipne.ro, tel: +40 21 4574027, fax: +40 21 4574467
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 Authors : H. Fakhouri, W.Smith, J. Pulpytel, F. Arefi-Khonsari. Laboratoire de Génie
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Comparison of charge transport in epitaxial ferroelectric films with perovskite structure

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