

European Journal of Chemistry

An International Open Access Journal

Editor-in-Chief

Hakan Arslan

Department of Chemistry, Faculty of Arts and Science, Mersin University, 33343, Mersin, Turkey

E-mail: editor@eurjchem.com, Telephone : +1.770.7231568, Fax : +1.770.7231568

Associate Editors

Waldemar Adam, *University of Wuerzburg, Wuerzburg, Germany*

Syed A. A. Rizvi, *Nova Southeastern University, Fort Lauderdale, FL, USA*

İskender Yılıgör, *Koç University, Istanbul, Turkey*

Editorial Board

İlhan A. Aksay, *Princeton University, Princeton, NJ, USA*

Diane J. Burgess, *University of Connecticut, Connecticut, CT, USA*

Luca Gonsalvi, *Istituto di Chimica dei Composti Organometallici-CNR, Firenze, Italy*

Vinod Kumar Gupta, *Indian Institute of Technology, Roorkee, India*

Mehmet A. Oturan, *Université Paris-Est Marne-la-Vallée, Marne La Vallée, France*

Cora E. MacBeth, *Emory University, Atlanta, GA, USA*

Andrei Rotaru, *National Institute for Laser, Plasma and Radiation Physics, Bucharest, Romania*

Bekir Çetinkaya, *Ege University, Izmir, Turkey*

Djamaladdin G. Musaev, *Emory University, Atlanta, GA, USA*

Mehmet Sarikaya, *University of Washington, Seattle, WA, USA*

Satoshi Kaneco, *Mie University, Tsu, Japan*

Atta-ur-Rahman, *University of Karachi, Karachi, Pakistan*

Abdel Omri, *Laurentian University, Sudbury, ON, Canada*

Xueming Yang, *Chinese Academy of Sciences, Dalian, China*

Alexander I. Boldyrev, *Utah State University, Logan, UT, USA*

Miral Dizdaroğlu, *The National Institute of Standards and Technology, Gaithersburg, MD, USA*

Suleyman I. Allakhverdiev, *Russian Academy of Sciences, Pushchino, Russian Federation*

Dilhan M. Kalyon, *Stevens Institute of Technology, Hoboken, NJ, USA*

Don VanDerveer, *Clemson University, Clemson, SC, USA*

Marko D. Mihovilovic, *Vienna University of Technology, Vienna, Austria*

Ram K. Agarwal, *Chaudhary Charan Singh University, Sahibabad, India*

Veysel Turan Yılmaz, *Uludag University, Bursa, Turkey*

Jinlong Gong, *Tianjin University, Tianjin, China*

İsmail Özdemir, *İnönü University, Malatya, Turkey*

Paraskevas D. Tzanavaras, *Aristotelian University of Thessaloniki, Thessaloniki, Greece*

Tahir Cagin, *Texas A&M University, College Station, TX, USA*

Copyeditors

Duc Do, *Chicago State University, Chicago, IL, USA*

Murat Unlu, *E. I. DuPont de Nemours, Wilmington, DE, USA*

Syed A.A. Rizvi, *Nova Southeastern University, Fort Lauderdale, FL, USA*

Bilge Baytekin, *Northwestern University, Evanston, IL, USA*

Sheri Lense, *Pacific Northwest National Laboratory, Richland, WA, USA*

Ahmet Tarık Baykal, *The Scientific and Technological Research Council of Turkey, Ankara, Turkey*

European Journal of Chemistry is a peer-reviewed journal that publishes original research and review articles as well as letters in all areas of chemistry (Analytical Chemistry, Inorganic Chemistry, Organic and Bioorganic Chemistry, Biochemistry, Theoretical and Applied Physical Chemistry, Pharmaceutical Chemistry, Applied and Materials Chemistry, Chemical Technology, Agro Chemical Technology, Pharmaceutical Technology, Colloid Chemistry, Interfacial Chemistry, Surface Chemistry, Chemical Engineering, Green Chemistry, etc.). For full details, see the Guide for Authors.

European Journal of Chemistry (ISSN: 2153-2249 (print) / 2153-2257 (online)) is published quarterly and is available exclusively at www.eurjchem.com

European Journal of Chemistry is indexed and/or abstracted by ■ Chemical Abstracts Service (CODEN: EJCUA9) (USA) ■ Medical Journal Links ■ EBSCO ■ ProQuest ■ Ulrich's Periodicals Directory ■ Elektronische Zeitschriftenbibliothek ■ Google Scholar ■ Open J-Gate ■ JournalTOCs ■ Academic Journal Database ■ Evisa ■ ABC Chemistry Free Chemical Information ■ WorldCat ■ Sherpa/Romeo ■ The Open Access Digital Library ■ The Library of Congress (USA).

European Journal of Chemistry is a member of CrossRef (The Digital Object Identifier (DOI®) System) and CrossRef Cited-by Linking.

Publication program, **2016**: Volume **7** (4 issues). Subscription prices, per volume, including postage and handling: 800 USD (Print). Subscription should be sent to *European Journal of Chemistry*, 4614 Lavista Road, Tucker, GA, 30084, USA. Orders and enquiries for earlier volumes should be sent the subscription address.

Production and Advertising Office: 4614 Lavista Road, Tucker, GA, 30084, USA. Tel: +1.770.7231568, Fax: +1.770.7231568

Production/Managing Editor: Ergah Pektaş.

European Journal of Chemistry Online. Visit our website at <http://www.eurjchem.com>

© 2016 European Journal of Chemistry. Printed in USA on acid-free paper, bleached without the use of chlorine.

European Journal of Chemistry

ISSN 2153-2249 (Print) / ISSN 2153-2257 (Online) © 2016 Atlanta Publishing House LLC - All rights reserved - Printed in the USA

DOI: <http://dx.doi.org/10.5155/eurjchem.7.4.i-1.1516>