

Arabian Journal of Chemistry

Editor-in-Chief

Prof. Abdulrahman Abdullah Alwarthan
Chemistry Department, College of Science
King Saud University, Riyadh
Kingdom of Saudi Arabia
E-mail: awarthan@ksu.edu.sa

Vice-Editors-in-Chief

Prof. Sultan T. Abu-Orabi
President of Yarmouk University, Irbid-Jordan
Jordanian Chemical Society, Arab Union of Chemists
Secretary General
E-mail: Abuorabi@excite.com

Prof. Yousry M. Issa
Chemistry Department, Cairo University
Cairo, Egypt
E-mail: yousrymi@yahoo.com

Editorial Board

Prof. Belkheir Hammouti
Director, Laboratory of Applied Chemistry and
Environment, Faculty of Science
University of Mohammed Premier, Morocco
E-mail: hammoutib@yahoo.com

Prof. Mamia El Rhazi
Chemistry Department
Faculty of Science and Technology
Hassan II University – Mohammedia, Morocco
E-mail: elrhazim@hotmail.com

Prof. Hassan M. Al-Hazimi
Chemistry Department
Science College, King Saud University, Saudi Arabia
E-mail: hhazimi@ksu.edu.sa

Prof. Hamad Z. Al-Khathlan
Chemistry Department
Science College, King Saud University, Saudi Arabia
E-mail: Khathlan@ksu.edu.sa

Prof. Ibrahim A. Jibril
Chemistry Department
Yarmouk University, Irbid, Jordan
E-mail: iajibril@yahoo.com

Prof. El Sayed H. El Ashry
Chemistry Department, Faculty of Science
University of Alexandria, Alexandria, Egypt
E-mail: eelashry60@hotmail.com

Dr. Lassaad Baklouti
Laboratoire de Chimie des Interactions Moleculaires
Faculte de Sciences de Bizerte
7021 Zarzouna, Tunisie
E-mail: bakloutilassaad@yahoo.fr

Prof. Saad M. H. Ayoub
Chemistry Department
Elneleen University, Khartoum, Sudan

Prof. Abdalsalam A. Daffalla
Chemistry Department
Science College,
Sudan University of Science, Technology
P.O. Box: 407, Khartoum, Sudan
E-mail: aadafa@hotmail.com

Prof. Ahmed-Yacine Badjah-Hadj-Ahmed
University of Science and Technology
Houari Boumadiene, Faculty of Chemistry
BP 32 El Alia., 16111 Bab Ezzouar, Algiers, Algeria
E-mail: Ybadjah@hotmail.com

Abdelkader Bengueddach
laboratoire de Chimie des Materiaux
Department of Chemistry
Faculty of Science, University of Oran
P.O. Box 1524 el Mnouar
31000-Oran, Algeria
E-mail: aek-bengueddach@univ.oran.dz

Mohammad Hourani
Department of Chemistry, Al Balqa Applied
University, Al-Salt, Jordan
E-mail: mhouran@bau.edu.jo

Prof. Mahmoud F. Farhat
Professor of Organic Chemistry
Chemistry Department, Faculty of Science
Al-Fateh University, P.O. Box: 13494
Tripole, Libya
E-mail: mf_farhat@yahoo.com

Prof. Nouria A. Al-Awadi
Professor of Organic Chemistry
Department of Chemistry
Faculty of Science
P.O. Box: 5969 Safat-13060
Kuwait University
E-mail: eam_he5@kuc01.kuniv.edu.kw

Dr. Abdulaziz A. AlNajjar
Applied Science, College of Technological Studies
Public Authority of Applied Education and Training
P.O. Box 34484 Adailia, 73255
Kuwait
e-mail: anajjar_55@yahoo.com

Dr. Ameera Saeed Al-Haddad
University of Bahrain, Kingdom of Bahrain
Department of Chemistry
P.O. Box 32028
Issa Town
Kingdom of Bahrain
E-mail: ameera@sci.uoh.bh

Prof. Salah S Al-Labeia
Chemistry Department
Science College
Basrah University
Basrah, Iraq
salah_al_labeia@yahoo.com

Prof. Faris T. Abachi
Pharmaceutical Chemistry
College of Pharmacy
Mosul University
Mosul, Iraq
farisabachi@yahoo.com

Advisory International Board

Prof. Issa Yavari
Chemistry Department
Tarbiat Modarres University, Tehran, Iran
E-mail: yavarisa@modares.ac.ir

Dr. Paul S. Francis
School of Life and Environmental Sciences
Deakin University, Geelong
Victoria 3217, Australia
E-mail: psf@deakin.edu.au

Prof. Jose Martinez Calatayud
Chemistry Department
University of Valencia, Valencia, Spain
E-mail: jose.martinez@uv.es

Prof. Robert G. Michel
Department of Chemistry, University of Connecticut
55 North Eagleville Road, Storrs, CT 06269-3060
E-mail: robert.g.michel@uconn.edu

Prof. Motaza M. Khater
Chemistry Department
Cairo University, Cairo, Egypt
E-mail: motazakhater117@yahoo.com

Prof. Jacques Vicens
Directeur de recherche at CNRS
UMR 7178-CNRS
Institut Pluridisciplinaire Hubert Curien
Universite Louis Pasteur de Strasbourg
Laboratoire de Conception Moleculaire
ECPM25, rue Becquerel F-67087, France
E-mail: vicens@chimie.u-strasbg.fr

Prof. Jean-Michel Kauffmann
Free University of Brussels

Lab, Instrumental Analysis and Bioelectrochemistry
Pharmaceutical Institute, ULB 205/6
Campus Plain B-1050 Brussels, Belgium
E-mail: jmkauf@ulb.ac.be

Prof. Essam Khamis Al-Hanash
Vice-Dean for Graduate Studies & Research
Faculty of Science, Mohram Bey, Alexandria University
Alexandria, Egypt
E-mail: ekaijac@yahoo.com

Prof. Bryan R. Henry
University of Guelph, Department of Chemistry
Guelph, Ontario N1G 2W1, Canada
E-mail: Chmhenry@uoguelph.ca

Prof. Samy El-Shall
Department of Chemistry, Virginia Commonwealth
University, Richmond, Virginia 23284-2006, USA
E-mail: mselshal@vcu.edu.

Prof. Jin, Jung-II (M)
35-41 Ku-Ui 2-Dong
Kwang-Jin Ku, Seoul 133-202, Korea
Chemistry Department and Center for Electro- and
Responsive Molecules, College of Sciences,
Korea University, 5-1 Anam-Dong, Seoul 136-701, Korea
E-mail: jijin@korea.ac.kr, jijin@kcsnet.or.kr

Prof. Alan Townshend
The University of Hull, Department of Chemistry
Hull, HU6 7RX, United Kingdom
E-mail: a.townshend@hull.ac.uk

Dr. Danielle M. Cleveland
18347 woodland Ridge Drive # 14, Spring Lake, MI 49456
E-mail: danielle.cleveland@uconn.edu

Prof. Yuhua Sun
Institute of Coal Chemistry, Chinese Academy of Sciences
P.O. Box: 165, Taiyuan, Shanxi, 030001, PR. China
E-mail: yhsun@sxicc.ac.cn

Prof. Ishaque Khan
Director, Materials and Chemical Synthesis Program
Department of Biological Chemical and Physical Sciences
College of Science and Letters, Room 125 E110W
32nd Street, Chicago, IL 60616-3793
E-mail: khan@117.edu

Prof. Mikhail M. Krayushkin
Head of Laboratory of Heterocyclic Compounds
N.D.Zelinsky Institute of Organic Chemistry
Russian Academy of Sciences
119991, Moscow, Leninsky Prospekt 47, Russia
E-mail: mkray@ioc.ac.ru

Prof. Volker Schurig
Institute of Organic Chemistry, University of Tübingen
Auf der Morgenstelle 18, 72076, Tübingen, Germany
E-mail: Volker.schurig@uni-tuebingen.de

Prof. Angel Rios Castro
Department of Analytical Chemistry and Food Tech.
Faculty of Chemistry,
University of Castilla-La Mancha
AV. Camilo Jose Cela, 10, E-13004 Ciudad Real, Spain
Phone: +34 926 295232/Fax: +34 926 295318
E-mail: angel.rios@uclm.es

Prof. Faiza M. Al-Kharafi
Department of Chemistry, Faculty of Science
Kuwait University, Kuwait
E-mail: chesc@kuc01.kuniv.edu.kw