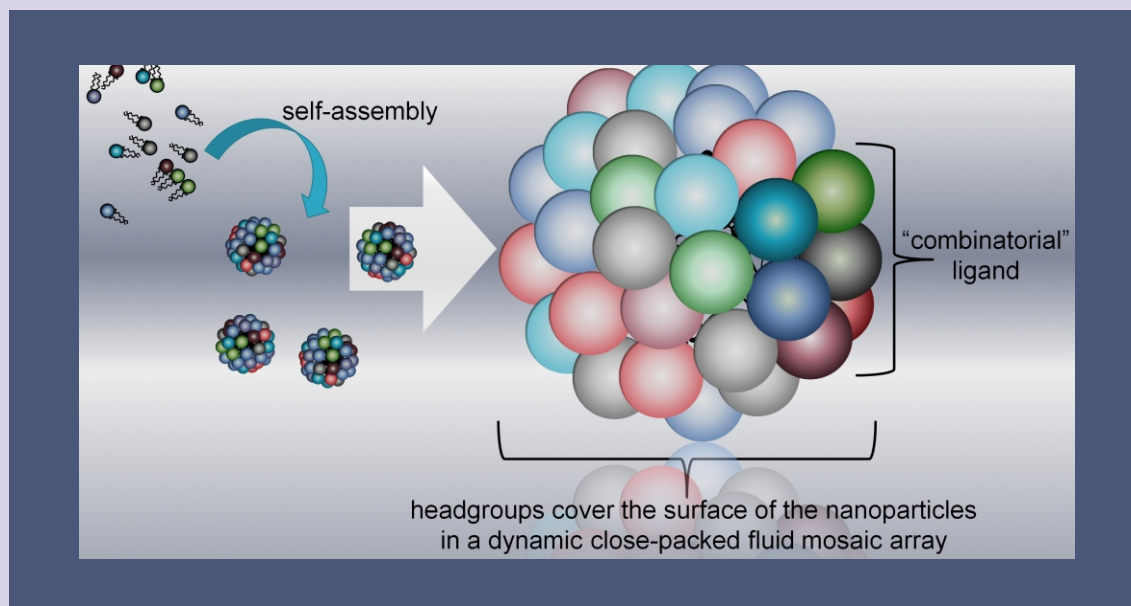




# International Journal of Organic Chemistry



ISSN: 2161-4687



# Journal Editorial Board

ISSN: 2161-4687 (Print), 2161-4695 (Online)

<http://www.scirp.org/journal/ijoc>

---

## Editor-in-Chief

**Dr. Bouzid Menaa**

Fluorotronics Inc., USA

## Editorial Board

**Dr. Yousef Ahmadibeni**  
**Prof. Pher G. Andersson**  
**Dr. Jacques Andrieu**  
**Dr. Daniel J. Canney**  
**Dr. Changle Chen**  
**Prof. Won-Jea Cho**  
**Dr. Jean-Christophe Cintrat**  
**Dr. Maria do Ceu Goncalves da Costa**  
**Prof. Richard Daniellou**  
**Prof. Mircea Darabantu**  
**Prof. Valerian Dragutan**  
**Dr. Marta Feroci**  
**Dr. Giuseppe Gattuso**  
**Dr. Giuliano Giambastiani**  
**Prof. Hyun-Joon Ha**  
**Dr. Todd A. Houston**  
**Prof. Hsu-Shan Huang**  
**Prof. David Allen Hunt**  
**Dr. Jalal Isaad**  
**Dr. Tasneem Islam**  
**Prof. Madeleine M. Joullié**  
**Prof. Teruyuki Kondo**  
**Dr. Lajos Kovacs**  
**Dr. Rakesh Kumar**  
**Dr. Vanya Bogdanova Kurteva**  
**Prof. Roberto Fernandez Lafuente**  
**Prof. Gilles Lemercier**  
**Prof. Emanuela Licandro**  
**Prof. Yonghong Liu**  
**Prof. Zhiping Luo**  
**Dr. Xiang Ma**  
**Dr. Matthew P. D. Mahindaratne**  
**Dr. Victor Mamane**  
**Prof. Pedro Máximo Emilio Mancini**  
**Prof. Joseph S. Merola**  
**Prof. Andrei V. Nikolaev**  
**Prof. Nagatoshi Nishiwaki**  
**Prof. Cosmas Okoro**  
**Dr. Anna Orlova**  
**Prof. Martin Pomerantz**  
**Dr. Olivier Renaudet**  
**Prof. Sylvain Routier**  
**Prof. Orazio Tagliatela Scafati**  
**Dr. Peter J. H. Scott**  
**Prof. Kazuo Shinozuka**  
**Prof. Branco Stanovnik**  
**Dr. Xue-Long Sun**  
**Prof. Thies Thiemann**  
**Prof. Ramon Rios Torres**  
**Prof. Didier Villemin**  
**Dr. Yanming Wang**  
**Prof. Piotr Pawel Wieczorek**  
**Prof. Noriyuki Yonezawa**

Columbus State University, USA  
Uppsala University, Sweden  
Universite de Bourgogne, France  
Temple University, USA  
Celanese Corporation, USA  
Chonnam National University, Korea (South)  
Laboratoire de Chimie Combinatoire et de Criblages à Haut Débit, France  
National Laboratory of Energy and Geology, Portugal  
University of Orleans, France  
University Babes-Bolyai Cluj-Napoca, Romania  
Romanian Academy of Sciences, Romania  
University "La Sapienza", Italy  
University of Messina, Italy  
Italian National Research Council, Italy  
Hankuk University of Foreign Studies, Korea (South)  
Griffith University, Australia  
National Defence Medical Center, Chinese Taipei  
College of New Jersey, USA  
Laboratoire de Génie et Matériaux Textiles (GEMTEX), France  
Roosevelt University, USA  
University of Pennsylvania, USA  
Kyoto University, Japan  
University of Szeged, Hungary  
University of Alberta, Canada  
Bulgarian Academy of Sciences, Bulgaria  
Consejo Superior de Investigaciones Científicas, Spain  
Université de Reims Champagne-Ardenne, France  
Università degli Studi di Milano, Italy  
Chinese Academy of Sciences, China  
Texas A&M University, USA  
State Key Lab of New Drug and Pharmaceutical Process, China  
University of Texas at San Antonio, USA  
University of Nancy, France  
Universidad Nacional del Litoral, Argentina  
Virginia Polytechnic Institute and State University, USA  
University of Dundee, UK  
Kochi University of Technology, Japan  
Tennessee State University, USA  
Uppsala University, Sweden  
The University of Texas at Arlington, USA  
University of Grenoble, France  
University of Orleans, France  
University of Naples, Italy  
University of Michigan Medical School, USA  
Gunma University, Japan  
University of Ljubljana, Slovenia  
Cleveland State University, USA  
United Arab Emirates University, UAE  
University of Barcelona, Spain  
University of Caen, France  
Case Western Reserve University, USA  
Opole University, Poland  
Tokyo University of Agriculture and Technology, Japan

## Editorial Assistant

**Karen Zhang**

Scientific Research Publishing, USA

Email: [ijoc@scirp.org](mailto:ijoc@scirp.org)

## TABLE OF CONTENTS

Volume 2    Number 1

March 2012

<b>Synthesis and Plasma Stability of Disulfide-Bridged Cyclic Endomorphin-1 Derivatives</b> F. M. Mansfeld, I. Toth.....	1
<b>An Efficient Synthesis of Pyrido[2,3-<i>d</i>]pyrimidine Derivatives via One-Pot Three-Component Reaction in Aqueous Media</b> S. Abdolmohammadi, S. Balalaie.....	7
<b>Facile Synthesis of Novel Chiral Bicyclic Thioureas and Their Crystal Structures</b> P.-A. Wang, H.-F. Nie, L.-J. Yan, S.-Y. Zhang.....	15
<b>A New Facile Route to Chlorination of Alcohols via Lewis Acid AlCl<sub>3</sub></b> H. C. Ma, Z. K. Bao, L. H. Bai, W. Cao.....	21
<b>Stereo-Selective Synthesis of 5-Norbornene-2-<i>exo</i>-carboxylic Acid—Rapid Isomerization and Kinetically Selective Hydrolysis</b> M. Kanao, A. Otake, K. Tsuchiya, K. Ogino.....	26
<b>A New and Efficient Method for the Synthesis of Pyrimido[2,1-<i>b</i>]benzothiazole Derivatives</b> F. Chadegani, F. Darviche, S. Balalaie.....	31
<b>Claisen and Intermolecular Rearrangement of Cinnamyloxynaphthalenes</b> Y. Okada, D. Imanari.....	38
<b>Stereoselective Synthesis of <i>cis</i>-Substituted-3'-anilino-2',3'-dihydro-4-2'-benzo[<i>b</i>]furanlylcoumarins via Intramolecular Aldol Reactions</b> L. A. Shastri, S. L. Shastri, M. V. Kulkarni, V. K. Gupta, S. Goswami.....	44
<b>Highly Efficient Synthesis of Novel Fluorine Bearing Quinoline-4-carboxylic Acid and the Related Compounds as Amylolytic Agents</b> M. S. T. Makki, D. A. Bakhomah, R. M. Abdel-Rahman.....	49
<b>3-Phenyl/Pyridinyl Derivatives of <i>Trans</i>-2-(aryl/heteryl)vinyl-3<i>H</i>-quinazolin-4-ones: Synthesis and Fluorescent Properties</b> E. V. Nosova, T. V. Stupina, G. N. Lipunova, M. S. Valova, P. A. Slepukhin, V. N. Charushin.....	56
<b>Unusual Catalytic Process Involving OH and NH Exchange</b> R. M. Ramadan, A. K. Abu Al-Nasr.....	64
<b>Comparative Efficacy of Polyamine-Based Scavenger Resins</b> K. Sandhya, B. Ravindranath.....	71
<b>Lipopeptides for the Fragment-Based Pharmaceuticals Design</b> Z. M. Ziora, N. Wimmer, R. New, M. Skwarczynski, I. Toth.....	75
<b>Surface Tension, Density and Viscosity Studies on the Associative Behaviour of Oxyethylene-Oxybutylene Diblock Copolymers in Water at Different Temperatures</b> A. Khan, I. Bibi, S. Pervaiz, K. Mahmood, M. Siddiq.....	82
<b>Sulfuric Acid Immobilized on Silica Gel as Highly Efficient and Heterogeneous Catalyst for the One-Pot Synthesis of 2,4,5-Triaryl-1<i>H</i>-imidazoles</b> B. Maleki, H. K. Shirvan, F. Taimazi, E. Akbarzadeh.....	93

The figure on the front cover is from the article published in International Journal of Organic Chemistry, 2012, Vol. 2, No. 1, pp. 75-81 by Zyta M. Ziora, *et al.*

# **International Journal of Organic Chemistry (IJOC)**

## **Journal Information**

### **SUBSCRIPTIONS**

The International Journal of Organic Chemistry (Online at Scientific Research Publishing, [www.SciRP.org](http://www.SciRP.org)) is published quarterly by Scientific Research Publishing, Inc., USA.

#### **Subscription rates:**

Print: \$39 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### **SERVICES**

#### **Advertisements**

Advertisement Sales Department, E-mail: [service@scirp.org](mailto:service@scirp.org)

#### **Reprints (minimum quantity 100 copies)**

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### **COPYRIGHT**

Copyright©2012 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

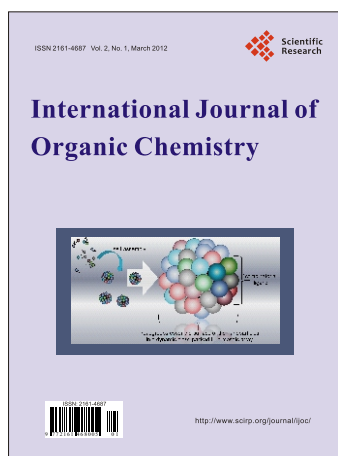
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

### **PRODUCTION INFORMATION**

For manuscripts that have been accepted for publication, please contact:

E-mail: [ijoc@scirp.org](mailto:ijoc@scirp.org)



# International Journal of Organic Chemistry (IJOc)

ISSN 2161-4687 (Print) ISSN 2161-4695 (Online)

<http://www.scirp.org/journal/ijoc>

**International Journal of Organic Chemistry (IJOc)** is an international, specialized, English-language journal devoted to publication of original contributions concerning all fields of organic chemistry. It is an open-access, peer-reviewed journal describing the synthetic approach and the design of new molecules for applications in medicinal chemistry, but also for the synthesis of precursors for new materials (solid or liquid) that have an interest in materials sciences and nanotechnology, homogeneous and heterogeneous catalysis.

## Editor-in-Chief

Dr. Bouzid Menaa

Fluorotronics Inc., USA

## Editorial Board

Dr. Yousef Ahmadibeni  
Prof. Pher G. Andersson  
Dr. Jacques Andrieu  
Dr. Daniel J. Canney  
Dr. Changle Chen  
Prof. Won-Jea Cho  
Dr. Jean-Christophe Cintrat  
Dr. Maria do Ceu Goncalves da Costa  
Prof. Richard Daniellou  
Prof. Mircea Darabantu  
Prof. Valerian Dragutan  
Dr. Marta Feroci  
Dr. Giuseppe Gattuso  
Dr. Giuliano Giambastiani  
Prof. Hyun-Joon Ha  
Dr. Todd A. Houston  
Prof. Hsu-Shan Huang  
Prof. David Allen Hunt  
Dr. Jalal Isaad

Dr. Tasneem Islam  
Prof. Madeleine M. Joullie  
Prof. Teruyuki Kondo  
Dr. Lajos Kovacs  
Dr. Rakesh Kumar  
Dr. Vanya Bogdanova Kurteva  
Prof. Roberto Fernandez Lafuente  
Prof. Gilles Lemerrier  
Prof. Emanuela Licandro  
Prof. Yonghong Liu  
Prof. Zhiping Luo  
Dr. Xiang Ma  
Dr. Matthew P. D. Mahindaratne  
Dr. Victor Mamane  
Prof. Pedro Máximo Emilio Mancini  
Prof. Joseph S. Merola  
Prof. Andrei V. Nikolaev  
Prof. Nagatoshi Nishiwaki  
Prof. Cosmas Okoro

Dr. Anna Orlova  
Prof. Martin Pomerantz  
Dr. Olivier Renaudet  
Prof. Sylvain Routier  
Prof. Orazio Tagliatella Scafati  
Dr. Peter J. H. Scott  
Prof. Kazuo Shinozuka  
Prof. Branco Stanovnik  
Dr. Xue-Long Sun  
Prof. Thies Thiemann  
Prof. Ramon Rios Torres  
Prof. Didier Villemin  
Dr. Yanming Wang  
Prof. Piotr Pawel Wieczorek  
Prof. Noriyuki Yonezawa

## Subject Coverage

Contributions that concerns with analytical characterization, advanced techniques and the studies of properties for new synthesized molecules will also be highlighted. All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

- Fluorescent Molecules and Dyes
- Organo-Metallics
- Polymers
- Surfactants among Others
- Synthesis of Reagents

The journal publishes the highest quality original full articles, communications, notes, reviews, special issues and books, covering both the experimental and theoretical aspects of organic chemistry.

## Notes for Intending Authors

Papers are acceptable provided they report important findings, novel insights or useful techniques within the scope of the journal. All manuscript must be prepared in English, and are subjected to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by prints in hard copy. It will be available through <http://www.scirp.org/journal/ijoc>.

## Website and E-Mail

<http://www.scirp.org/journal/ijoc>

Email: [ijoc@scirp.org](mailto:ijoc@scirp.org)