

ISSN: 2156-8251

Volume 14, Number 10, October 2023



# American Journal of Analytical Chemistry

ISSN: 2156-8251



9 772156 825004 10

<https://www.scirp.org/journal/ajac>

# Journal Editorial Board

ISSN Print: 2156-8251 ISSN Online: 2156-8278

<https://www.scirp.org/journal/ajac>

---

## Editor-in-Chief

**Prof. Raman Venkataramanan** University of Pittsburgh, USA

## Editorial Board

**Prof. Hutaf Mustafa Baker** Al al-Bayt University, Jordan  
**Dr. Jimmy Thomas Efirid** University of North Carolina, USA  
**Dr. Paola Fermo** University of Milan, Italy  
**Dr. Elisa Gonzalez-Romero** University of Vigo, Spain  
**Prof. Alireza Heidari** California South University (CSU), Irvine, California, USA  
**Prof. Bin Hu** Wuhan University, China  
**Dr. Abubakr M. Idris** King Khalid University, Saudi Arabia  
**Dr. Harald John** Bundeswehr Institute of Pharmacology and Toxicology, Germany  
**Dr. Sa'ib J. Khouri** American University of Madaba, Jordan  
**Prof. Raghavendra V. Kulkarni** BLDEA's College of Pharmacy, India  
**Dr. Kong M. Li** University of Sydney, Australia  
**Prof. Robert J. Linhardt** Rensselaer Polytechnic Institute (RPI), USA  
**Dr. Kingsuk Mukhopadhyay** Defence Materials & Stores Research & Development Establishment, India  
**Prof. K. Natarajan** Bharathiar University, India  
**Prof. Hyun Gyu Park** Korea Advanced Institute of Science and Technology, South Korea  
**Dr. Tuan Dinh Phan** Texas Southern University, USA  
**Prof. Surendra Prasad** University of the South Pacific, Fiji  
**Dr. Nikola Sakac** University of Zagreb, Croatia  
**Dr. Hans Sanderson** Aarhus University, Denmark  
**Dr. Muzafar Sharipov** Bukhara State University, Uzbekistan  
**Dr. James Smith** University of Alabama in Huntsville, USA  
**Prof. Xuping Sun** Chinese Academy of Sciences, China  
**Prof. Ciddi Veeresham** Kakatiya University, India  
**Prof. Tangfu Xiao** Chinese Academy of Sciences, China  
**Dr. George Zachariadis** Aristotle University of Thessaloniki, Greece  
**Prof. Anyun Zhang** Zhejiang University, China

# Table of Contents

**Volume 14    Number 10**

**October 2023**

**Simultaneous Determination of 2- and 3-MCPD Esters in Infant Formula Milk Powder and Edible Vegetable Oils by Gas Chromatography-Mass Spectrometry**

H. Yao, S. Q. Zeng, X. H. Wang, H. Li, B. Du.....421

**Differential Pulse Voltammetric Simultaneous Determination of Paracetamol and Omnipaque on Boron Doped Diamond Electrode: Application to Natural Tomato, Carrot, Cucumber Juices and Wastewater**

K. K. Martin, S. S. Placide, K. B. Albert, G. C. Quand-Même, F. T. A. Appia, K. K. Sylvestre, L. Ouattara.....434

**Y Zeolites Modified by Organosilane for Toluene Adsorption under High Humidity Condition**

B. Y. Zhang, K. Zhang, Z. Q. Duan, J. P. Zhu, J. N. Gao.....451

**Methods for the Determination of Stable Isotopes of Carbon and Nitrogen Directly in Valine, Proline, Glutamine, and Glutamic Acid**

L. Farulava, L. Eliashvili, V. Betlemidze, B. Sulava.....467

# American Journal of Analytical Chemistry (AJAC)

## Journal Information

### SUBSCRIPTIONS

The *American Journal of Analytical Chemistry* (Online at Scientific Research Publishing, <https://www.scirp.org/>) is published monthly by Scientific Research Publishing, Inc., USA.

#### Subscription rates:

Print: \$89 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 and reuse rights for the front matter of the journal:

Copyright © 2023 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

#### Copyright for individual papers of the journal:

Copyright © 2023 by author(s) and Scientific Research Publishing Inc.

#### Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

#### Disclaimer of liability

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: [ajac@scirp.org](mailto:ajac@scirp.org)



# American Journal of Analytical Chemistry

ISSN Print: 2156-8251 ISSN Online: 2156-8278

<https://www.scirp.org/journal/ajac>

**American Journal of Analytical Chemistry** is a peer reviewed international journal dedicated to the latest advancement of analytical chemistry. The goal of this journal is to keep a record of the state-of-the-art research and to promote study, research and improvement within its various specialties. With an open access publication model of this journal, all interested readers around the world can freely access articles online. Now we sincerely invite you to submit your research manuscript to **AJAC**.

## Editor-in-Chief

**Prof. Raman Venkataramanan**

University of Pittsburgh, USA

## Subject Coverage

The American Journal of Analytical Chemistry publishes original papers including but not limited to the following fields:

- Analytical Chemistry Applications in Engineering
- Atomic and Molecular Spectroscopy (UV, IR, Raman, NMR, MS, Microscopy, FS)
- Chemical Sensors, Biosensors and Related Technologies
- Chemometrics
- Chemosensitive Materials
- Chromatography and Electrophoresis
- Composite Materials
- Electroanalysis and Electroanalytical Techniques
- Environmental, Clinical, Biological and Agrochemical Applications
- Environmental, Health and Forensic Analysis
- High-Throughput Screening
- Ion Exchange Materials
- Novel Extraction and Microextraction Procedures
- Sample Preparation
- Separation Techniques for Hazardous Substances
- Thermal Analysis

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the AJAC.

## Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

## Website and E-Mail

<https://www.scirp.org/journal/ajac>

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