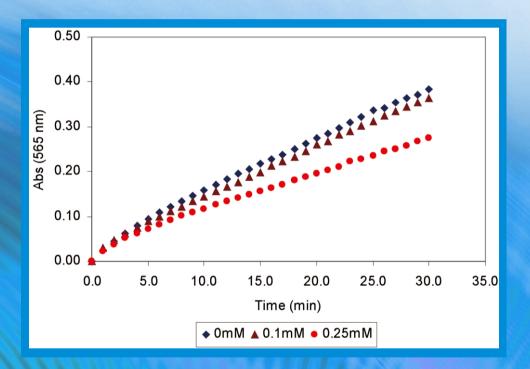


American Journal of Analytical Chemistry





www.scirp.org/journal/ajac

Journal Editorial Board

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

http://www.scirp.org/journal/ajac

.....

Editor-in-Chief

Prof. Raman Venkataramanan

Editorial Board

Prof. Talal Ahmad Aburiai Dr. Mohamed Said Attia Dr. Ilia Brondz **Dr. Rocio Maceiras Castro** Dr. Parthasarathi Chakraborty Prof. Doo Soo Chung Dr. Jimmy Thomas Efird Prof. Pilar Campíns Falcó Dr. Lizhen Gao Dr. Gustavo Stoppa Garbellini Prof. Bin Hu Dr. Abubakr M. Idris Dr. Muntean Edward Ioan Dr. Harald John Dr. Harish C. Joshi Dr. Satoshi Kaneco Prof. Do Hyun Kim Prof. Jilie Kong Prof. Raghavendra V. Kulkarni Dr. Vanya Bogdanova Kurteva Dr. Igor K. Lednev Prof. Gaëtane Lespes Dr. Kong M. Li Dr. Xiuli Lin Prof. Robert J. Linhardt Prof. Robert H. Lipson Prof. Yang Liu Prof. Georges Lognay Dr. John M. Luk Dr. Liiie Men Dr. Tanja Mimmo Prof. Vladimir M. Mirsky Prof. Subhash Chandra Mojumdar Dr. Kingsuk Mukhopadhyay Prof. K. Natarajan Dr. Mu. Naushad Prof. Li Niu Dr. Montserrat Hidalgo Núñez Dr. Hyun Gyu Park Prof. Tae Jung Park Dr. Surendra Prasad Dr. Ziyaur Rahman Prof. Susana Rodríguez-Couto Dr. José Manuel Amigo Rubio Dr. Hans Sanderson Prof. Alberto Chisvert Sanía Dr. Rajat Sethi Prof. Mostafa Abdel-Aty Shehata Dr. Ardeshir Shokrollahi Prof. James E. Smith **Prof. Xuping Sun** Dr. Yugang Sun Prof. Demetrius G. Themelis Prof. Ciddi Veeresham Dr. Tony Velkov Prof. Gavin M. Walker Prof. Thomas P. West Prof. Hui-Fen Wu Dr. Qingli Wu Dr. Fernando Wypych Prof. Tangfu Xiao Dr. Chun Yang Prof. George Zachariadis Prof. Anyun Zhang Prof. Jianwen Zhang Prof. Tonglai Zhang

University of Pittsburgh, USA

University of Jordan, Jordan Ain Shams University, Egypt University of Oslo, Norway University of Vigo, Spain National Institute of Oceanography, India Seoul National University, Korea (South) University of North Carolina, USA University of Valencia, Spain University of Western Australia, Australia São Paulo State University, Brazil Wuhan University, China King Khalid University, Saudi Arabia University of Agricultural Sciences and Veterinary Medicine (USAMV) Cluj-Napoca, Romania Bundeswehr Institute of Pharmacology and Toxicology, Germany Emory University, USA Mie University, Japan Korea Advanced Institute of Science and Technology, Korea (South) Fudan University, China BLDEA's College of Pharmacy, India Bulgarian Academy of Sciences, Bulgaria University at Albany, USA Université de Pau et des Pays de l'Adour, France University of Sydney, Australia Wake Forest University, USA Rensselaer Polytechnic Institute (RPI), USA University of Victoria, Canada Chinese Academy of Sciences, China Gembloux Agro-Bio Tech, Belgium National University of Singapore, Singapore Johnson & Johnson, USA Free University of Bolzano, Italy Lausitz University of Applied Sciences, Germany University of New Brunswick, Canada Defence Materials & Stores Research & Development Establishment, India Bharathiar University, India King Saud University, Saudi Arabia Chinese Academy of Sciences, China University of Alicante, Spain Korea Advanced Institute of Science and Technology, Korea (South) Korea Advanced Institute of Science and Technology, Korea (South) University of the South Pacific, Fiji Food and Drug Administration, India Unit of Environmental Engineering, Spain University of Copenhagen, Denmark Aarhus University, Denmark University of Valencia, Spain Texas A&M Health Science Center, USA Cairo University, Egypt Yasoui University, Iran The University of Alabama in Huntsville, USA Chinese Academy of Sciences, China Argonne National Laboratory, USA Aristotle University of Thessaloniki, Greece Kakatiya University, India Deakin University, Austria Queen's University Belfast, UK South Dakota State University, USA National Sun Yat-sen University, Chinese Taipei Rutgers University, USA Universidade Federal do Paraná, Brazil Chinese Academy of Sciences, China Nanyang Technological University, China Aristotle University of Thessaloniki, Greece Zhejiang University, China Beijing University of Chemical Technology (BUCT), China Beijing Institute of Technology, China



TABLE OF CONTENTS

Volume 3 Number 5 May 2012 Micelle Mediated Extraction of Iron and Its Determination in Geological, Geochemical, Hydrogeochemical, **Biogeochemical and Process Solutions** Multivariate Statistical Analysis of Phyllite Samples Based on Chemical (XRF) and Mineralogical Data by XRD An Optical Based Biosensor for the Determination of Ammonium in Aqueous Environment Flame Atomic Absorption Spectrometric Determination of Trace Amounts of Zinc and Thallium in Different Matrixes after Solid Phase Extraction on Modified Multiwalled Carbon Nanotubes Development and Validation of Stability Indicating RP-LC Method for Estimation of Ranolazine in **Bulk and Its Pharmaceutical Formulations** Polyaniline/AgCl Hybrid Materials for Selective Determination of Dopamine by Electrochemical Methods A Validated Stability Indicating RP-UPLC Method for Atrovastain Calcium

The figure on the front cover is from the article published in American Journal of Analytical Chemistry, 2012, Vol. 3, No. 5, pp. 364-370 by Nur Ellina Azmi, *et al.*

American Journal of Analytical Chemistry (AJAC)

Journal Information

SUBSCRIPTIONS

The American Journal of Analytical Chemistry (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$39 per issue. To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies) Reprints Co-ordinator, Scientific Research Publishing, Inc., USA. E-mail: 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 assumes 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

Call for Papers



Editor-in-Chief

Prof. Raman Venkataramanan

Editorial Board

Prof. Talal Ahmad Aburjai Dr. Mohamed Said Attia Dr. Ilia Brondz Dr. Rocio Maceiras Castro Dr. Parthasarathi Chakraborty Prof. Doo Soo Chung Dr. Jimmy Thomas Efird Prof. Pilar Campins Falcó Dr. Lizhen Gao Dr. Gustavo Stoppa Garbellini Prof. Bin Hu Dr. Abubakr M. Idris Dr. Muntean Edward Ioan Dr. Harald John Dr. Harish C. Joshi Dr. Satoshi Kaneco Prof. Do Hyun Kim Prof. Jilie Kong Prof. Raghavendra V. Kulkarni Dr. Vanya Bogdanova Kurteva Dr. Igor K. Lednev Prof. Gaëtane Lespes

American Journal of Analytical Chemistry

ISSN Print: 2156-8251 ISSN Online: 2156-8278 http://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.

University of Pittsburgh, USA

Dr. Kong M. Li Dr. Xiuli Lin Prof. Robert J. Linhardt Prof. Robert H. Lipson Prof. Yang Liu Prof. Georges Lognay Dr. John M. Luk Dr. Lijie Men Dr. Tanja Mimmo Prof. Vladimir M. Mirsky Prof. Subhash Chandra Mojumdar Dr. Kingsuk Mukhopadhyay Prof. K. Natarajan Dr. Mu. Naushad Prof. Li Niu Dr. Montserrat Hidalgo Núñez Dr. Hyun Gyu Park Prof. Tae Jung Park Dr. Surendra Prasad Dr. Ziyaur Rahman Prof. Susana Rodríguez-Couto Dr. José Manuel Amigo Rubio

Dr. Hans Sanderson Prof. Alberto Chisvert Sanía Dr. Rajat Sethi Prof. Mostafa Abdel-Aty Shehata Dr. Ardeshir Shokrollahi Prof. James E. Smith Prof. Xuping Sun Dr. Yugang Sun Prof. Demetrius G. Themelis Prof. Ciddi Veeresham Dr. Tony Velkov Prof. Gavin M. Walker Prof. Thomas P. West Prof. Hui-Fen Wu Dr. Qingli Wu Dr. Fernando Wypych Prof. Tangfu Xiao Dr. Chun Yang Prof. George Zachariadis Prof. Anyun Zhang Prof. Jianwen Zhang Prof. Tonglai Zhang

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

http://www.scirp.org/journal/ajac E-mail: ajac@scirp.org