# Table of Contents

**Volume 5  Number 11  August 2014**

**Structural and Thermal Properties of Tb, Ce Doped Y\textsubscript{2.97}Gd\textsubscript{0.03}Al\textsubscript{2}Ga\textsubscript{3}O\textsubscript{12} Single Crystals**

M. Faheem, K. Lynn..........................695

**Methodology for the Determination of Trace and Minor Elements in Minerals and Fused Rock Glasses with Laser Ablation Associated with Quadrupole Inductively Coupled Plasma Mass Spectrometry (LA-Q-ICPMS)**

S. Andrade, H. H. Ulbrich, C. de B. Gomes, L. Martins..........................701

**Physical and Chemical Matrix Effects in Soil Carbon Quantification Using Laser-Induced Breakdown Spectroscopy**


**Optimized Assay for Hydrogen Peroxide Determination in Plant Tissue Using Potassium Iodide**


**Development and Validation of a Method for Simultaneous Determination of Metformin Hydrochloride and Sitagliptin Phosphate in a Formulation by RP-HPLC**

P. B. N. Prasad, K. Satyanarayana, G. Krishnamohan..........................737

**Optimization of Photocatalytic Degradation of Phenol Using Simple Photocatalytic Reactor**


---

The figure on the front cover is from the article published in American Journal of Analytical Chemistry, 2014, Vol. 5, No. 11, pp. 743-750 by Innocent Udom, et al.
American Journal of Analytical Chemistry (AJAC)

Journal Information

SUBSCRIPTIONS


Subscription rates:
Print: $89 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)
E-mail: sub@scirp.org

COPYRIGHT

COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:
Copyright © 2014 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 © 2014 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
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
http://www.scirp.org/journal/ajac E-mail: ajac@scirp.org