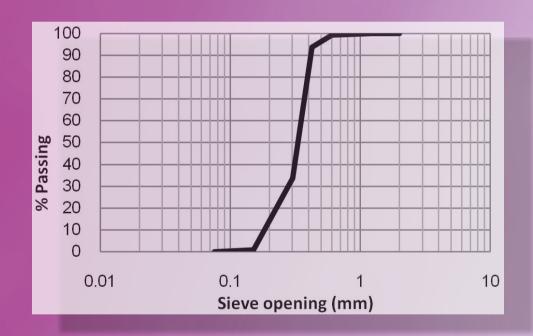


Journal of Water Resource and Protection





Journal Editorial Board

ISSN: 1945-3094 (Print) ISSN: 1945-3108 (Online)

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

Editor-in-Chief

Prof. Jian Shen College of William and Mary, USA

Editorial Board

Dr. Assad Ahmed Al-Thukair King Fahd University of Petroleum & Minerals, Saudi Arabia

Prof. Sam F. AtkinsonUniversity of North Texas, USADr. Amitava BandyopadhyayUniversity of Calcutta, IndiaDr. Helen BridleHeriot-Watt University, UK

Prof. M. Ekrem Çakmak Department of Environmental Engineering,

Çukurova University, Turkey

Prof. Peter Dillon Trent University, Canada

Dr. Karina Gin
 Dr. Jane Heyworth
 Dr. Madan Kumar Jha
 National University of Singapore, Singapore
 University of Western Australia, Australia
 Indian Institute of Technology, India

Dr. Paul Kay
 Prof. Zhaohua Li
 Dr. Pan Liu
 University of Leeds, UK
 Hubei University, China
 Wuhan University, China

Dr. Damodhara Rao MailapalliUniversity of Wisconsin, Madison, USADr. Arash MassoudiehThe Catholic University of America, USAProf. Jiho MinChonbuk National University, South KoreaProf. Ping-Feng PaiNational Chi Nan University, Chinese Taipei

Dr. Dhundi Raj Pathak Osaka Sangyo University, Japan

Prof. Mohamed Nageeb Rashed Aswan University, Egypt

Dr. Dipankar Saha Ministry of Water Resources Government of India, India

Prof. Vladimir Soldatov Institute of Physical Organic Chemistry, Belarus

Prof. Matthias Templ Vienna University of Technology, Austria

Dr. Stijn W. H. Van Hulle Ghent University, Belgium

Prof. Aswani K. Volety

Florida Gulf Coast University, USA

Prof. Muqi Xu

Chinese Academy of Sciences, China

Prof. Xiaohua Yang

Beijing Normal University, China

Dr. Y. Jeffrey YangUS Environmental Protection Agency, USA

Dr. Jinsheng You University of Nebraska, USA

Prof. Fan ZhangChinese Academy of Sciences, ChinaProf. Xiying ZhangChinese Academy of Sciences, ChinaDr. Chunli ZhengXi'an Jiaotong University, China



TABLE OF CONTENTS

Volume 5 Number 11 N	lovember 2013
Purification of Stormwater Using Sand Filter	
A. M. Nassar, K. Hajjaj.	1007
Bacteriological Analysis of Well Water Sources in the Bambui Student Residential Area	
N. R. Ngwa, N. Chrysanthus.	1013
Semiconductor Wastewater Treatment Using Tapioca Starch as a Natural Coagulant	
M. O. Fatehah, S. Hossain, T. T. Teng.	1018
Coliforms and Helminth Eggs Removals by Coagulation-Flocculation	
Treatment Based on Natural Polymers	
E. Zamudio-Pérez, N. Rojas-Valencia, I. Chairez, L. G. Torres	1027
Environmental Issues of a Marine Protected Area in a Tectonic Estuary in the Tropical	
Eastern Pacific: Uramba (Malaga Bay Colombia): Context, Biodiversity, Threats and Chal	lenges
J. Cantera Kintz, E. Londoño-Cruz, L. M. Mejía-Ladino, L. Herrera-Orozco, C. A. Satizabal, N. Uribe-Cast	añeda1037
Numerical Simulation of Unsteady Friction in Transient Two-Phase Flow with Godunov M	lethod
S. Bousso, M. Fuamba	1048
Ion Exchange Equilibrium between DOWEX 1X8 Resin Modified	
by Polyethyleneimine and Electrolyte Solutions	
C. Hannachi, F. Guesmi, K. Missaoui, H. Tounakti, B. Hamrouni	1059
Natural and Anthropogenic Influence in Water Quality: The Case of Linares City, NE Mex	rico
L. Lizárraga-Mendiola, J. Návar, A. Blanco-Piñón, Ma. Del R. González-Sandoval, H. De-León-Gómez	1066
Effectiveness of Moringa oleifera Defatted Cake versus Seed in the Treatment	
of Unsafe Drinking Water: Case Study of Surface and Well Waters in Burkina Faso	
A. Kabore, B. Savadogo, F. Rosillon, A. S. Traore ¹ , D. Dianou	1076
Phytoplankton Communities in a Coastal Site of Natural Riserve	
"Lake of Tarsia-Mouth of River Crati"-Northern Ionian Sea, Calabria (Italy)	
A. G. C. Marincola, L. Ruffolo, D. Cozza, R. Cozza.	1087
Delineation of Shallow Aquifers of Umuahia and Environs,	
Imo River Basin, Nigeria, Using Geo-Sounding Data	
U. Ugada, A. I. Opara, T. T. Emberga, F. D. Ibim, A. I. Omenikoro, E. N. Womuru	1097
Regional Drought Severity Assessment at a Basin Scale in the Limpopo Drainage System	
B. F. Alemaw, J. M. Kileshye-Onema, D. Love	1110
Presence of Multidrug-Resistant E. coli, Enterococcus spp. and Salmonella spp.	
in Lakes and Fountains of Porto, Portugal	
C. E. Flores, L. Loureiro, L. J. Bessa, P. M. da Costa.	1117

The figure on the front cover is from the article published in Journal of Water Resource and Protection, 2013, Vol. 5, No. 11, pp. 1007-1012 by Abdel Majid Nassar and Kamel Hajjaj.

Copyright © 2013 SciRes.

Journal of Water Resource and Protection (JWARP)

Journal Information

SUBSCRIPTIONS

The *Journal of Water Resource and Protection* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$79 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©2013 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: jwarp@scirp.org



Journal of Water Resource and Protection (JWARP)

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

ISSN:1945-3094 (Print), 1945-3108 (Online)

JWARP is an international refereed journal dedicated to the latest advancement of water resource and protection. The goal of this journal is to keep a record of the state-of-the-art research and promote the research work .

Editor-in-Chief

Prof. Jian Shen College of William and Mary, USA

Editorial Board

Dr. Assad Ahmed Al-Thukair
Prof. Sam F. Atkinson
Dr. Amitava Bandyopadhyay
Dr. Helen Bridle
Prof. M. Ekrem Çakmak
Prof. Peter Dillon
Dr. Karina Gin
Dr. Jane Heyworth
Dr. Madan Kumar Jha

Dr. Pan Liu
Dr. Damodhara Rao Mailapalli
Dr. Arash Massoudieh
Prof. Jiho Min
Prof. Ping-Feng Pai
Dr. Dhundi Raj Pathak
Prof. Mohamed Nageeb Rashed
Dr. Dipankar Saha
Prof. Vladimir Soldatov

Prof. Matthias Templ

Dr. Stijn W. H. Van Hulle

Prof. Aswani K. Volety Prof. Muqi Xu Prof. Xiaohua Yang Dr. Y. Jeffrey Yang Dr. Jinsheng You Prof. Fan Zhang Prof. Xiying Zhang Dr. Chunli Zheng

Subject Coverage

Dr. Paul Kay

Prof. Zhaohua Li

This journal invites original research and review papers that address the following issues in water resource and protection. Topics of interest include, but are not limited to:

- Agricultural Water Management
- Ecological Restoration and Receiving Water Impacts
- Economic, Sociological, and Environmental Considerations of Water Resources
- Fresh Water Security
- Ground Water Monitoring & Modeling
- Industrial Ecology and Water Sustainability
- Innovative Technologies and Engineering Solutions for Water Resources Protection
- Marine and Freshwater Conservation
- Mine Water and the Environment
- Monitoring, Modeling and Prediction of Water Pollution
- Remote Sensing for Water Resources Management
- Sea Water Utilization

- Stormwater Management and Low Impact Development
- Surface Runoff and Ground Water Pollution Control
- Urban Water
- Water and Environment
- Water Infrastructure and Life Cycle Assessment
- Water Policy and Governance
- Water Purification and Wastewater Treatment
- Water Quality Management and Ecosystems Modeling
- Water Quality Monitoring and Assessment
- Water Quality, Pollutant Exposure and Health
- Water Research & Education
- Water Resources and Climatic Change
- Water Resources Protection and Management
- Water Resources Restoration and Sustainable Use

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 **JWARP**.

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/jwarp

Email: jwarp@scirp.org

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science, by delivering superior scientific publications and scientific information solution provider that enable advancement in scientific research.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, world-wide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- •High visibility for maximum global exposure with open access publishing model
- •Rigorous peer review of research papers
- Prompt faster publication with less cost
- •Guaranteed targeted, multidisciplinary audience





Website: http://www.scirp.org Subscription: sub@scirp.org Advertisement: service@scirp.org