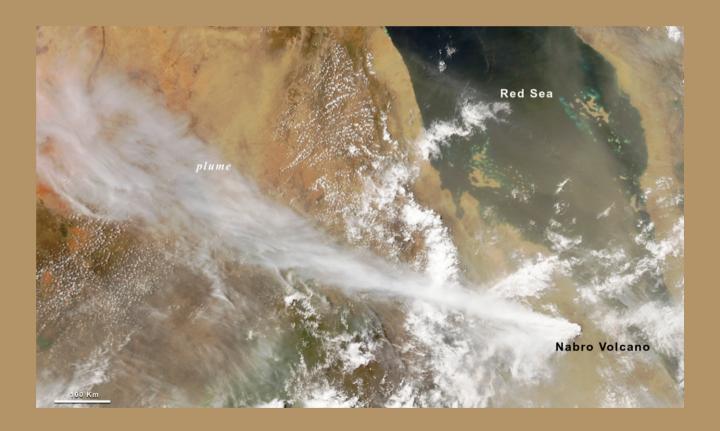


Journal of Water Resource and Protection

Editors-in-Chief: Jian Shen Ni-Bin Chang





Journal Editorial Board

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

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

Editors-in-Chief

Prof. Jian ShenCollege of William and Mary, USAProf. Ni-Bin ChangUniversity of Central Florida, 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 Cakmak Department of Environmental Engineering,

Çukurova University, Turkey

Prof. Peter Dillon Trent University, Canada

Dr. Jane HeyworthUniversity of Western Australia, AustraliaDr. Madan Kumar JhaIndian 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 Yang

US 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 4	April 2013
Laboratory Validation of an Integrated Surface Water—Groundwater Model	
T. D. Sparks, B. N. Bockelmann-Evans, R. A. Falconer	377
Coupling Singular Spectrum Analysis with Artificial Neural Network to Improve Accuracy of Sediment Load Prediction	
S. Heng, T. Suetsugi.	395
Response of the Plankton to a Fresh Water Pulse in a Fresh Water Deprived, Permanently Open South African Estuary	
P. W. Froneman, P. D. Vorwerk.	405
Environmental Assessment of Natural & Anthropogenic Hazards and Impact on Seawater Desalination along Red Sea Coast of Saudi Arabia	
O. S. Aburizaiza, N. A. Zaigham, Z. A. Nayyar, G. A. Mahar, A. Siddiq, S. Noor	414
Influence of Anthropogenic Activities of Groundwater from Hand Dug Wells within the Precarious Settlements of Southern Abidjan, Côte d'Ivoire: Case of the Slums of Anoumabo (Marcory) and Adjouffou (Port-Bouët)	
I. Osemwegie, Y. Mairie-Solange Oga, K. E. Ahoussi, Y. B. Koffi, A. Michel Kouassi, J. Biémi	427
Assessment of the Impact of the Landfill on Groundwater Quality: A Case Study of the Mediouna Site, Casablanca, Morocco	
D. Smahi, O. El Hammoumi, A. Fekri.	440
Adsorption of Three Commercial Dyes onto Chitosan Beads Using Spectrophotometric Determination and a Multivariate Calibration Method	
M. Mincea, V. Patrulea, A. Negrulescu, R. Szabo, V. Ostafe	446
Chemical and Microbiological Parameters in Fresh Water and Sediments to Evaluate the Pollution Risk in the Reno River Watershed (North Italy)	
C. Ferronato, M. Modesto, I. Stefanini, G. Vianello, B. Biavati, L. V. Antisari	458
Identification of Inundation Hazard Zones in Manas Basin, China, Using Hydrodynamic Modeling and Remote Sensing	
L. Ning, H. L. Liu, A. M. Bao	469
Evaluating the Impacts of Forest Clear Cutting on Water and Sediment Yields Using SWAT in Mississippi	
S. Khanal, P. B. Parajuli	474

The figure on the front cover is from the article published in Journal of Water Resource and Protection, 2013, Vol. 5, No. 4, pp. 414-426 by Omar Siraj Aburizaiza *et al*.

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 .

Editors-in-Chief

Prof. Jian Shen Prof. Ni-Bin Chang College of William and Mary, USA University of Central Florida, 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. Jane Heyworth Dr. Madan Kumar Jha Dr. Paul Kay Prof. Zhaohua Li 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

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
- 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