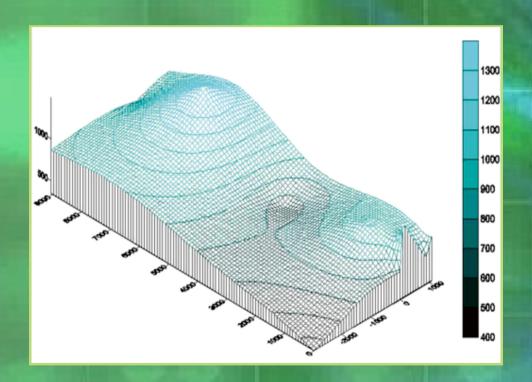
ISSN: 1945-3094 Vol. 4, No. 10, October 2012



Journal of Water Resource and Protection

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





www.scirp.org/journal/jwarp

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

Prof. Sam F. Atkinson University of North Texas, USA

Prof. Peter Dillon Trent University, Canada

Dr. Jane Heyworth University of Western Australia, Australia

Dr. Madan Kumar Jha Indian Institute of Technology, India

Prof. Zhaohua Li

Dr. Pan Liu

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, Korea (South)

Prof. Ping-Feng Pai National Chi Nan University, Chinese Taipei

Dr. Dhundi Raj Pathak Osaka Sangyo University, Japan

Dr. Mohamed Nageeb Rashed Aswan University, Egypt

Dr. Dipankar SahaMinistry of Water Resources Government of India, India

Prof. Vladimir Soldatov Institute of Physical Organic Chemistry, Belarus

Prof. Matthias Templ Vienna University of Technology, Austria

Prof. Aswani K. VoletyFlorida Gulf Coast University, USAProf. Muqi XuChinese Academy of Sciences, ChinaProf. Xiaohua YangBeijing 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 4 Number 10 | October 2012 |
|---|--------------|
| Water Myths: The Illusion of Canada's Endless Water Supply H. Gordon-Smith | 807 |
| Whither the Community? Lessons Madagascar Can Learn from Israel's Water Policy R. R. Marcus | 812 |
| Process Window Determination for Biofiltration by the Taguchi Metho M. C. Law, H. Chua, K. P. Cheng, C. W. Kan | d 831 |
| Relative Depth Effects on Corrugated Culvert Roughness J. S. Toews, S. P. Clark | 838 |
| Monitoring of Pesticides Residues in Italian Mineral Waters by Solid P Extraction and Gas Chromatography Mass Spectrometry A. M. Tarola, R. Preti | |
| Calibration of Channel Roughness for Mahanadi River, (India) Using HEC-RAS Model P. K. Parhi, R. N. Sankhua, G. P. Roy | 847 |
| High Performance Liquid Chromatographic Identification and Estima of Phthalates in Sewer Waste and a Receiving River in Ibadan City, Southwestern Nigeria G. O. Adewuyi | |
| Determination of Genotoxic Pollution of Some Hospital Wastewater with Salmonella Ames Test A. R. Atasoy, E. Karakece, M. Petek, L. Alpsoy, A. Kiran | 859 |
| A Rainfall Distribution for the Lampao Site in the Chi River Basin, Tha B. Kumphon, A. Kaew-man, P. Seenoi | |
| Comparison between Multi-Layer Perceptron and Radial Basis Functi Networks for Sediment Load Estimation in a Tropical Watershe H. Memarian, S. K. Balasundram | |
| Seasonality in Abundance, Biomass and Production of the Phytoplankt of Welala and Shesher Wetlands, Lake Tana Sub-Basin (Ethiopia) T. Wondmagegne, A. Wondie, M. Mingist, J. Vijverberg | |
| Geophysical Contribution for the Determination of Aquifer Properties in Memve Ele, South Cameroon H. L. E. Nkoungou, P. N. Nouck, D. Bisso, S. Assembe, E. M. Dicoum | |
| Artificial Neural Networks for Event Based Rainfall-Runoff Modeling A. Sarkar, R. Kumar | 891 |

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: \$59 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: 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
College of William and Mary, USA
Prof. Ni-Bin Chang
University of Central Florida, USA

Editorial Board

Prof. Sam F. Atkinson Prof. Peter Dillon Dr. Jane Heyworth Dr. Madan Kumar Jha Prof. Zhaohua Li Dr. Pan Liu

Dr. Damodhara Rao Mailapalli

Dr. Arash Massoudieh

Prof. Jiho Min Prof. Ping-Feng Pai Dr. Dhundi Raj Pathak Dr. Mohamed Nageeb Rashed Dr. Dipankar Saha

Prof. Vladimir Soldatov Prof. Matthias Templ 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
- Aquatic Conservation: Marine and Freshwater Ecosystems
- Ecology and Management of Inland Waters
- Economic, Sociological, and Environmental Considerations of Water Resources
- Ground Water Monitoring & Remediation
- Innovative Technologies and Engineering Solutions for Water Resources Protection
- Mine Water and the Environment
- Monitoring, Modeling and Prediction of Water Pollution
- Sea Water Utilization
- Surface and Ground Water Systems and Water Pollution Control
- Urban Water
- Water, Air & Soil Pollution

- Water and Environment
- Water Chemistry and Technology
- Water History
- Water Policy
- Water Purification and Wastewater Treatment
- Water Quality Assessment
- Water Quality and Ecosystems Modeling
- Water Quality, Exposure and Health
- Water Research & Education
- Water Resources and Climatic Change
- Water Resources Management
- Water Resources Protection and Sustainable Use
- Water Resources Restoration and Management
- Water Science and Technology

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.

Email: jwarp@scirp.org

Website and E-Mail