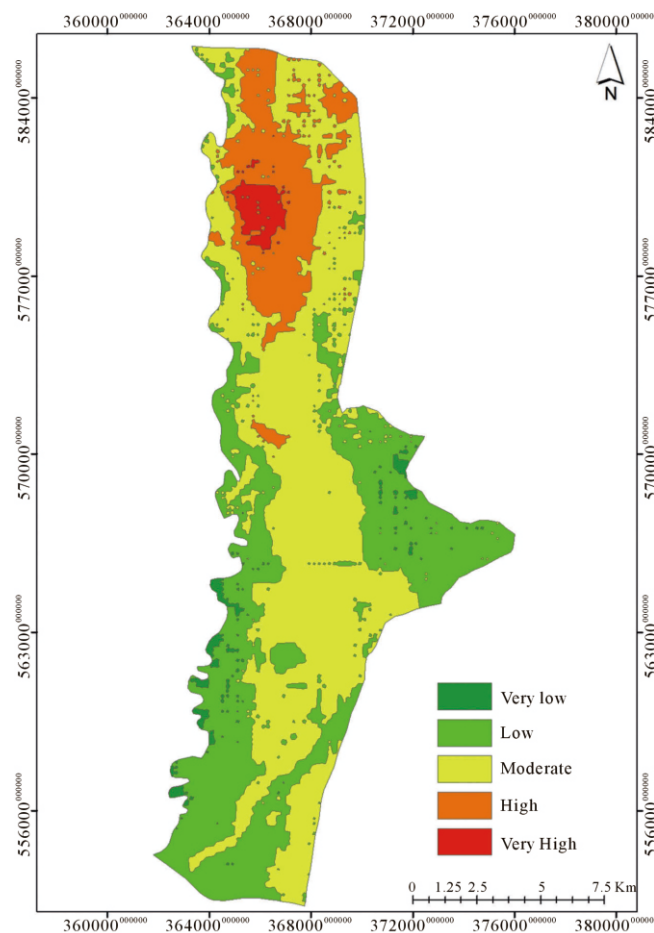




Journal of Water Resource and Protection

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



ISSN: 1945-3094



Journal Editorial Board

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

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

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 Atkinson	University of North Texas, USA
Dr. Amitava Bandyopadhyay	Universtiy of Calcutta, India
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	Hubei University, China
Dr. Pan Liu	Wuhan University, China
Prof. Jiho Min	Chonbuk 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	South Valley University, Egypt
Dr. Dipankar Saha	Ministry of Water Resources Government of India, India
Prof. Vladimir Soldatov	National Academy of Sciences, Belarus
Prof. Matthias Templ	Vienna University of Technology, Austria
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
Prof. Fan Zhang	Chinese Academy of Sciences, China
Prof. Xiyang Zhang	Chinese Academy of Sciences, China
Dr. Chunli Zheng	Xi'an Jiaotong University, China

Editorial Assistant

Vivian Qi	Scientific Research Publishing, USA	Email: jwarp@scirp.org
------------------	-------------------------------------	---

TABLE OF CONTENTS

Volume 4 Number 3

March 2012

Chemical Characterization of Tomato Industry Wastewater, Florida, United States	
M. K. Chahal, G. S. Toor, B. M. Santos.....	107
Particle Swarm Optimization for Identifying Rainfall-Runoff Relationships	
C.-M. Chou.....	115
Runoff Estimation for Suggested Water Harvesting Sites in the Northern Jordanian Badia	
S. AlAyyash, R. Al-Adamat, H. Al-Amoush, O. Al-Meshan, Z. Rawjefih, A. Shdeifat, A. Al-Harabsheh, M. Al-Farajat.....	127
Vulnerability of Groundwater System in Central Jordan Valley/Pollution Indicators and Decontamination Process	
M. Alraggad, S. Al-Saleh, H. Al-Amoush, A. H. Jasem, D. Isied.....	133
Input Quantity and Distribution of Hexachlorocyclohexane (HCH) in the Jiaozhou Bay Waters	
D. F. Yang, Z. R. Ding, Z. Q. Miao, H. Z. Xu, H. Y. Bai.....	140
Optimization Model for Management of Water Quality in a Tidal River Using Upstream Releases	
M. Z. Belayneh, S. M. Bhallamudi.....	149
Evaluation of Meandering Characteristics Using RS & GIS of Manu River	
M. Deb, D. Das, M. Uddin.....	163

The figure on the front cover is from the article published in *Journal of Water Resource and Protection*, 2012, Vol. 4, No. 3, pp. 133-139 by Marwan Alraggad, *et al.*

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.

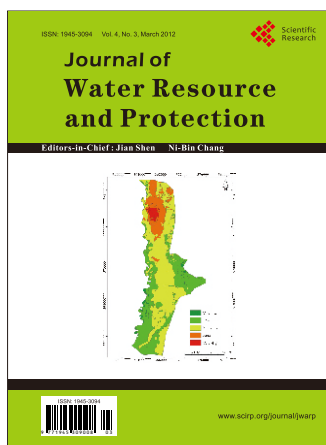
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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 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: jwarp@scirp.org



Call for Papers

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

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

Website and E-Mail

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

Email: jwarp@scirp.org