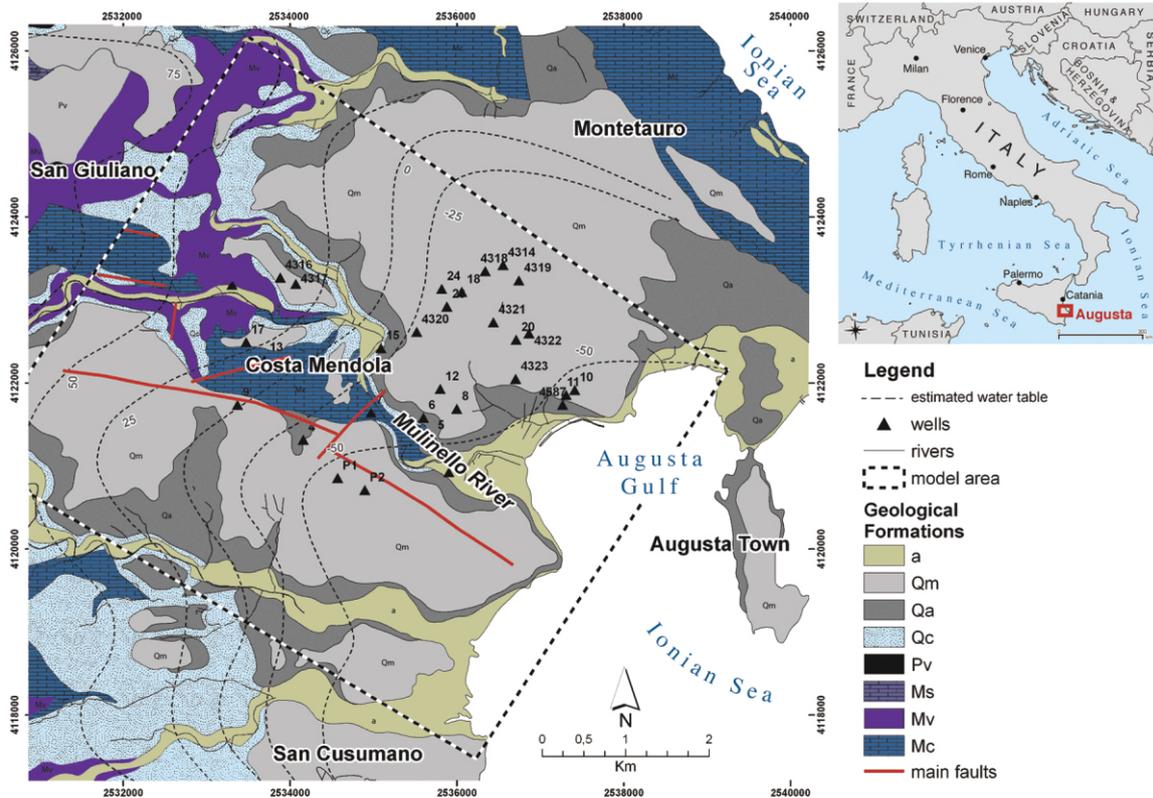




Journal of Water Resource and Protection

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
Prof. Ni-Bin Chang

College of William and Mary, USA
University of Central Florida, USA

Editorial Board

Prof. Sam Atkinson University of North Texas, USA
Dr. Amitava Bandyopadhyay University 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)
Dr. Dhundi Raj Pathak Osaka Sangyo University, Japan
Prof. Ping-Feng Pai National Chi Nan University, Taiwan (China)
Dr. Mohamed Nageeb Rashed South Valley University, Egypt
Dr. Dipankar Saha Ministry of Water Resources Govt. of India, India
Prof. Vladimir Soldatov National Academy of Sciences, Belarus
Prof. Matthias Templ Vienna University of Technology
Prof. Aswani K. Volety Florida Gulf Coast University, USA
Prof. Muqi Xu Chinese Academy of Sciences, China
Prof. Fan Zhang Chinese Academy of Sciences, China
Prof. Xiyang Zhang Chinese Academy of Sciences, China
Dr. Chunli Zheng Dalian University of Technology, China

Editorial Assistant

Vivian QI Scientific Research Publishing Email: jwarp@scirp.org

TABLE OF CONTENTS

Volume 3 Number 5

May 2011

Geotechnical Parameters Impact on Artificial Ground Water Recharging Technique for Urban Centers P. Patel, M. Desai, J. Desai.....	275
Groundwater Protection Using Numerical Simulations Applied to the Carbonate Aquifer Resource in the Augusta's Industrial Area (Sicily, Italy) A. Carloni, E. Guastaldi, V. Ferrara, C. Gallo.....	283
Groundwater Recharge through Infiltration Process: A Case Study of Umudike, Southeastern Nigeria M. U. Igboekwe, A. Ruth.....	295
An Examination of the Factors Involved in Agricultural Reuse: Technologies, Regulatory and Social Aspects E. Ranieri, H. Leverenz, G. Tchobanoglous.....	300
Assessment of Spatial Variation of Groundwater Quality and Its Relationship with Land Use in Perth Metropolitan P. R. Sarukkalige.....	311
Monitoring Groundwater Contamination Using Surface Electrical Resistivity and Geochemical Methods A. O. Akankpo, M. U. Igboekwe.....	318
Drought Monitoring Methodology Based on AVHRR Images and SPOT Vegetation Maps M. A. Owrangi, J. Adamowski, M. Rahnamaei, A. Mohammadzadeh, R. A. Sharifan.....	325
Performance of Reactive Powder Concrete Containing Arsenic S. Ande, B. Berdanier, V. Ramakrishnan.....	335
Hydro-Geochemical Characteristics of Groundwater beneath the Gaza Strip M. Al-Khatib, H. Al-Najar.....	341

The figure on the front cover is from the article published in *Journal of Water Resource and Protection*, 2011, Vol. 3, No. 5, pp. 283-294, by Andrea Carloni, *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©2011 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.

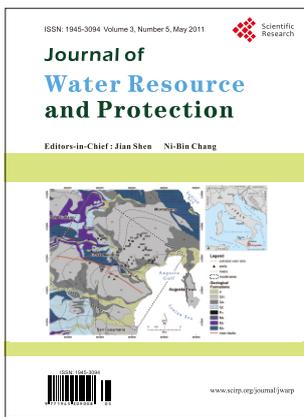
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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



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 in these fast moving areas.

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
Dr. Dhundi Raj Pathak
Prof. Ping-Feng Pai
Dr. Mohamed Nageeb Rashed
Dr. Dipankar Saha
Prof. Vladimir Soldatov
Prof. Matthias Templ
Prof. Aswani K. Volety
Prof. Muqi Xu
Prof. Fan Zhang
Prof. Xiyang Zhang
Dr. Chunli Zheng

University of North Texas, USA
Universtiy of Calcutta, India
Trent University, Canada
University of Western Australia, Australia
Indian Institute of Technology, India
Hubei University, China
Wuhan University, China
Chonbuk National University, Korea (South)
Osaka Sangyo University, Japan
National Chi Nan University, Taiwan (China)
South Valley University, Egypt
Ministry of Water Resources Govt. of India, India
National Academy of Sciences, Belarus
Vienna University of Technology
Florida Gulf Coast University, USA
Chinese Academy of Sciences, China
Chinese Academy of Sciences, China
Chinese Academy of Sciences, China
Dalian University of Technology, China

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:

- Economic, sociological, and environmental considerations of water resources and sustainable use of water resources
- Innovative technologies and engineering solutions for water resources protection
- Monitoring, modeling and prediction of water pollution (watershed, lakes, rivers, estuaries, and coasts)
- Sea water utilization
- Surface and ground water systems and water pollution

- control
- Water management automation system
- Water purification and wastewater treatment (mechanical, biological, chemical, and other treatments)
- Water resources and climatic change
- Water resources conservation
- Water resources protection and sustainable use
- Water resources restoration and management
- Water resources study and water quality assessment

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