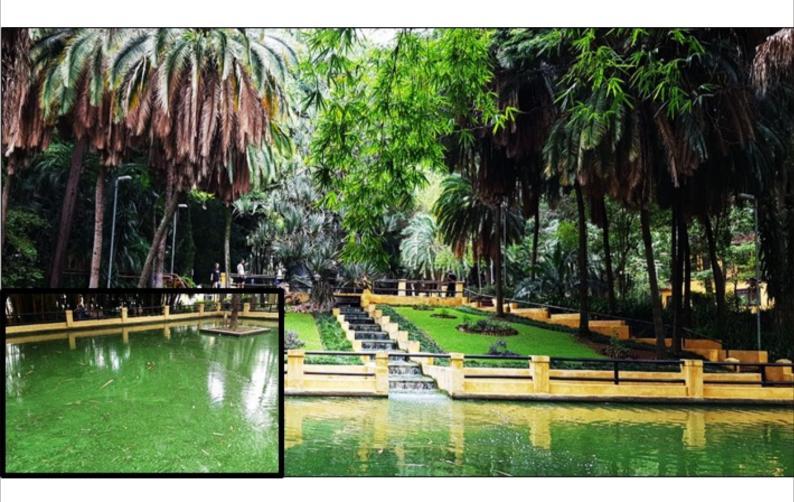




Journal of Water Resource and Protection





Journal Editorial Board

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

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

Editorial Board

Prof. Isam Mohammed Abdel-Magid Imam Abdulrahman Bin Faisal University, Saudi Arabia

Prof. Berhanu Fanta Alemaw University of Botswana, Botswana

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

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

Dr. Amitava Bandyopadhyay University of Calcutta, India

Prof. Júlio César R. de Azevedo Universidade Tecnológica Federal do Paraná, Brazil

Prof. Taisheng Du China Agricultural University, China

Dr. Karina Yew-Hoong GinNational University of Singapore, Singapore

Prof. Madan Kumar Jha Indian Institute of Technology, India

Dr. Paul Kay
 Dr. Hadi Memarian Khalilabad
 Prof. Zhaohua Li
 Prof. Pan Liu
 University of Birjand, Iran
 Hubei University, China
 Wuhan University, China

Dr. Damodhara Rao MailapalliIndian Institute of Technology, IndiaDr. Arash MassoudiehThe Catholic University of America, USAProf. Jiho MinChonbuk National University, South Korea

Prof. Martin Mundo-Molina University of Chiapas, Mexico

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

Prof. Umed PanuLakehead University, CanadaProf. Mohamed Nageeb RashedAswan University, Egypt

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

Prof. Vladimir Soldatov Institute of Physical Organic Chemistry, Belarus

Prof. Thies Thiemann United Arab Emirates University, UAE

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

Prof. Aswani K. Volety Florida Gulf Coast University, USA

Dr. Yiping (Rocky) Wu Earth Resources Observation and Science (EROS) Center, USA

Prof. 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
Dr. Chunli Zheng
Xi'an Jiaotong University, China
Prof. Abdel Razik Ahmed Zidan
Mansoura University, Egypt



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

Table of Contents

Volume 15 Number 4	April 2023
Estimating Evapotranspiration Using Chloride Mass Balance in a New Mexico Paired Basin Study 2009-2019	
A. C. Lewis, D. Cadol.	115
Assessment of Groundwater Quality for Drinking and Irrigation Uses in the Samba Dia Area, Central West Senegal	
A. Sarr, S. Ndoye, A. L. T. Djanni, S. Faye	130
Assessing Water Resources Access of Nouhao Sub-Basin, Burkina Faso	
W.G. Noba, I. Damiba, A. Doumounia, I. Zongo, F. Zougmore	140

Journal of Water Resource and Protection (JWARP) Journal Information

SUBSCRIPTIONS

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

Subscription rates:

Print: \$89 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 and reuse rights for the front matter of the journal:

Copyright © 2023 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

http://creativecommons.org/licenses/by/4.0/

Copyright for individual papers of the journal:

Copyright © 2023 by author(s) and Scientific Research Publishing Inc.

Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

Disclaimer of liability

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)

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

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

JWARP is an international refereed journal dedicated to the latest advancements in 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 .

Editorial Board

 ${\bf Prof.\ Is am\ Mohammed\ Abdel-Magid}$

Prof. Berhanu Fanta Alemaw Dr. Assad Ahmed Al-Thukair

Prof. Sam F. Atkinson

Dr. Amitava Bandyopadhyay

Prof. Júlio César R. de Azevedo

Prof. Taisheng Du

Dr. Karina Yew-Hoong Gin

Prof. Madan Kumar Jha

Dr. Paul Kay

Dr. Hadi Memarian Khalilabad

Prof. Zhaohua Li Prof. Pan Liu

Dr. Damodhara Rao Mailapalli

Dr. Arash Massoudieh

Prof. Jiho Min

Prof. Martin Mundo-Molina

Prof. Ping-Feng Pai

Prof. Umed Panu

Prof. Mohamed Nageeb Rashed

Dr. Dipankar Saha

Prof. Vladimir Soldatov

Prof. Thies Thiemann

Dr. Stiin W. H. Van Hulle

Prof. Aswani K. Volety

Dr. Yiping (Rocky) Wu

Prof. Muqi Xu

Prof. Xiaohua Yang

Dr. Y. Jeffrey Yang

Dr. Jinsheng You

Dr. Chunli Zheng

Prof. Abdel Razik Ahmed Zidan

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
- 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

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

E-mail: jwarp@scirp.org