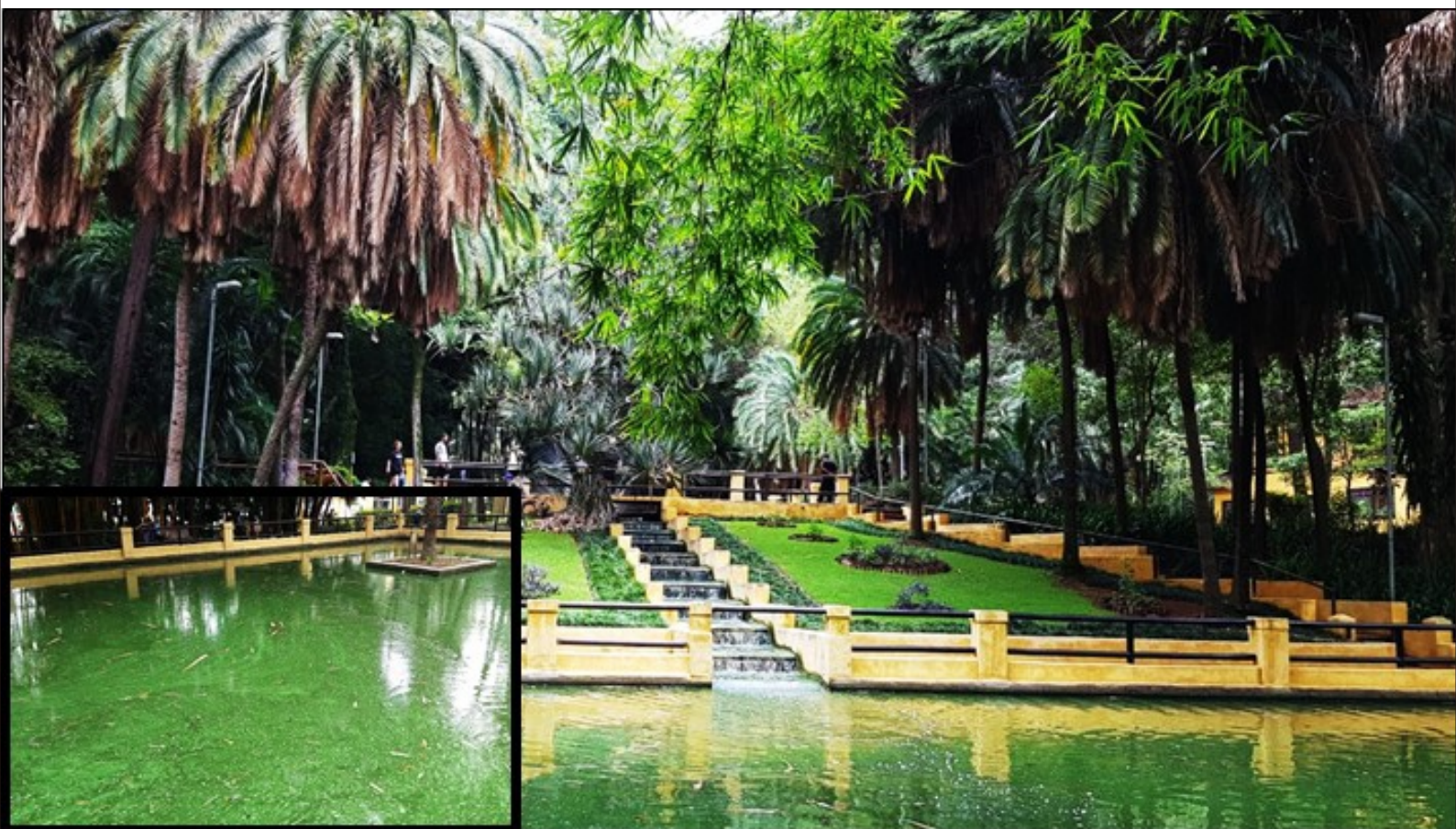


Journal of Water Resource and Protection



ISSN: 1945-3094



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

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 Gin	National University of Singapore, Singapore
Prof. Madan Kumar Jha	Indian Institute of Technology, India
Dr. Paul Kay	University of Leeds, UK
Dr. Hadi Memarian Khalilabad	University of Birjand, Iran
Prof. Zhaohua Li	Hubei University, China
Prof. Pan Liu	Wuhan University, China
Dr. Damodhara Rao Mailapalli	Indian Institute of Technology, India
Dr. Arash Massoudieh	The Catholic University of America, USA
Prof. Jiho Min	Chonbuk National University, South Korea
Prof. Martin Mundo-Molina	University of Chiapas, Mexico
Prof. Ping-Feng Pai	National Chi Nan University, Chinese Taipei
Prof. Umed Panu	Lakehead University, Canada
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. 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 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
Dr. Chunli Zheng	Xi'an Jiaotong University, China
Prof. Abdel Razik Ahmed Zidan	Mansoura University, Egypt

Table of Contents

Volume 14 Number 9

September 2022

Analysis of Hydrological Characteristics: A Case Review of the Niger Delta T. K. S. Abam, D. M. J. Fubara.....	611
Sludge Pollution Control from Crude Oil Tank Cleaning C. C. Adigwe, I. L. Nwaogazie, E. Ugwoha, A. O. David, N. G. Elemuo.....	632
Effectiveness of Centralized Wastewater Treatment Plant in Removing Emerging Contaminants: A Case Study at Kuching, Malaysia K. K. Kuok, P. C. Chiu, Md. R. Rahman, M. K. B. Bakri, M. Y. Chin.....	650

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 © 2022 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 © 2022 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.

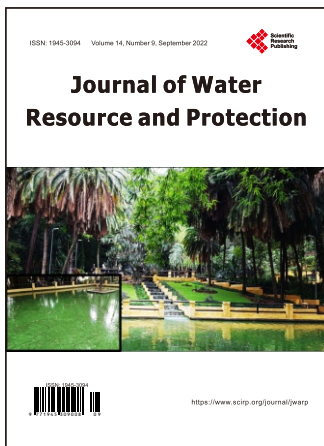
Disclaimer of liability

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 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.

Editorial Board

Prof. Isam 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. Stijn 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