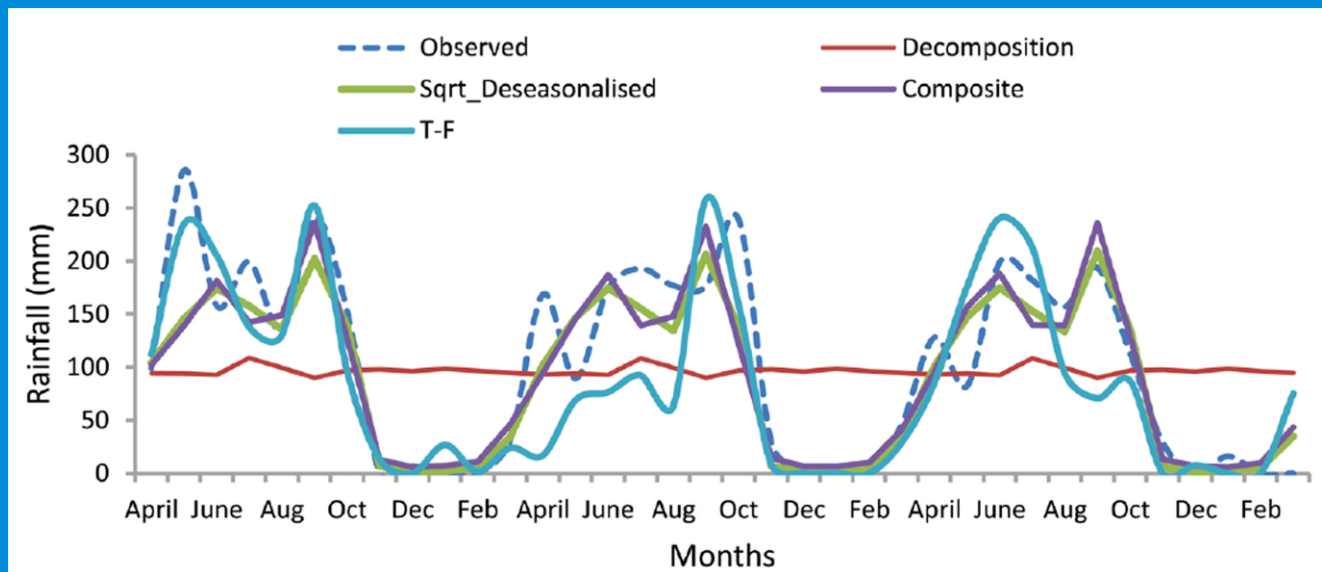




# Open Journal of Modern Hydrology



ISSN: 2163-0461



9 772163 046003 03

# Journal Editorial Board

ISSN: 2163-0461 (Print), 2163-0496 (Online)

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

---

## Editor-in-Chief

**Prof. Andrea Vacca**

The 2nd University of Napoli, Italy

## Editorial Board

**Dr. Jan Adamowski**

McGill University, Canada

**Dr. Bahman Jabbarian Amiri**

University of Tehran, Iran

**Dr. Shadab Anwar**

Missouri University of Science and Technology, USA

**Prof. Anil Bhardwaj**

Punjab Agricultural University, India

**Dr. Bruno Capaccioni**

University of Bologna, Italy

**Dr. Darryl E. Carlyle-Moses**

Thompson Rivers University, Canada

**Dr. Yushun Chen**

University of Arkansas, USA

**Dr. Manish Kumar Goyal**

Indian Institute of Technology, India

**Prof. Ching-Chuan Huang**

National Cheng Kung University, Chinese Taipei

**Dr. Michele Iervolino**

Second University of Naples, Italy

**Prof. A. W. Jayawardena**

University of Hong Kong, China

**Prof. Bahaa Khalil**

McGill University, Canada

**Prof. Björn Klöve**

University of Oulu, Finland

**Dr. Zhiming Lu**

Los Alamos National Laboratory, USA

**Prof. Hillel Rubin**

Technion-Israel Institute of Technology, Israel

**Dr. Osvaldo Salazar**

University of Chile, Chile

**Prof. Miklas Scholz**

University of Salford, UK

## Table of Contents

**Volume 4    Number 3**

**July 2014**

**Stochastic Characteristics and Modelling of Monthly Rainfall Time Series of Ilorin, Nigeria**

A. I. Edwin, O. Y. Martins.....67

**Spatio-Temporal Prediction of Root Zone Soil Moisture Using Multivariate Relevance Vector Machines**

B. Zaman, M. McKee.....80

**Short Report: Identifying Sources of Subsurface Flow—A Theoretical Framework Assessing Hydrological Implications of Lithological Discontinuities**

M. Reiss, P. Chiffard.....91

**Evidence on Night Movements of Macroinvertebrates to Macrophytes in a Pampean Stream**

N. Ferreira.....95

# **Open Journal of Modern Hydrology (OJMH)**

## **Journal Information**

### **SUBSCRIPTIONS**

The *Open Journal of Modern Hydrology* (Online at Scientific Research Publishing, [www.SciRP.org](http://www.SciRP.org)) is published quarterly by Scientific Research Publishing, Inc., USA.

#### **Subscription rates:**

Print: \$69 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### **SERVICES**

#### **Advertisements**

Advertisement Sales Department, E-mail: [service@scirp.org](mailto:service@scirp.org)

#### **Reprints (minimum quantity 100 copies)**

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### **COPYRIGHT**

#### **COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:**

Copyright © 2014 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 © 2014 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.

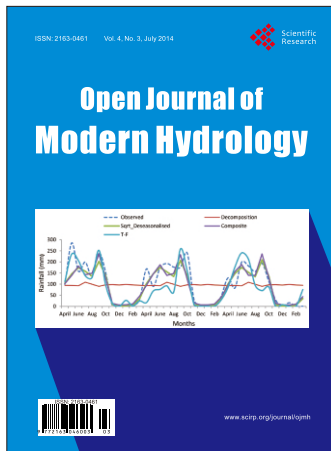
#### **DISCLAIMER OF LIABILITY**

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: [ojmh@scirp.org](mailto:ojmh@scirp.org)



## Open Journal of Modern Hydrology

ISSN: 2163-0461 (Print) ISSN: 2163-0496 (Online)

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

**Open Journal of Modern Hydrology (OJMH)** is an international journal dedicated to the latest advancement of modern hydrology. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of hydrology.

### Editorial Board

Dr. Jan Adamowski  
Dr. Bahman Jabbarian Amiri  
Dr. Shadab Anwar  
Prof. Anil Bhardwaj  
Dr. Bruno Capaccioni  
Dr. Darryl E. Carlyle-Moses  
Dr. Yushun Chen  
Dr. Manish Kumar Goyal  
Prof. Ching-Chuan Huang

Dr. Michele Iervolino  
Prof. A. W. Jayawardena  
Prof. Bahaa Khalil  
Prof. Björn Klöve  
Dr. Zhiming Lu  
Prof. Hillel Rubin  
Dr. Osvaldo Salazar  
Prof. Miklas Scholz

### Subject Coverage

All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

- Ecohydrology
- Environmental Hydraulics
- Groundwater Hydrology
- Hydrochemistry
- Hydrographic Survey
- Hydrography
- Hydrometeorology
- Land Hydrology
- Limnology
- Regional Hydrology
- Rivers and Estuaries Hydrology
- Soil Science
- Urban Hydraulics
- Water Resource Systems

We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

### 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/ojmh>

E-mail: [ojmh@scirp.org](mailto:ojmh@scirp.org)

## ***What is SCIRP?***

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

## ***What is Open Access?***

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



**Scientific  
Research**

**Website: <http://www.scirp.org>**

**Subscription: [sub@scirp.org](mailto:sub@scirp.org)**

**Advertisement: [service@scirp.org](mailto:service@scirp.org)**