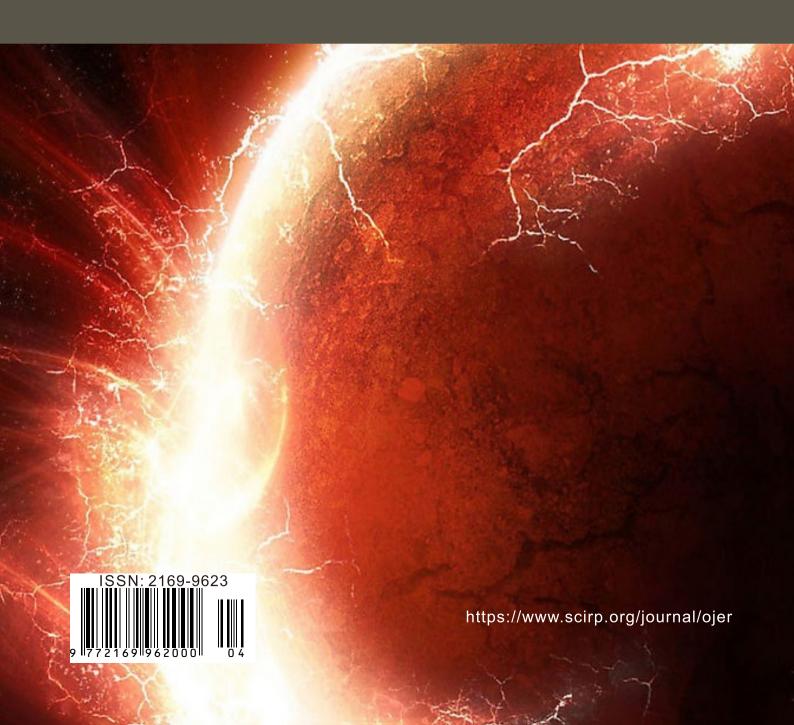


# Open Journal of Earthquake Research



### **Journal Editorial Board**

ISSN Print: 2169-9623 ISSN Online: 2169-9631

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

.....

#### Editor-in-Chief

Prof. Masashi Hayakawa Hayakawa Institute of Seismo Electromagnetics Co., Ltd., Japan

#### **Editorial Board**

**Dr. Jalal Akbari** Malayer University, Iran

Prof. Carlos Chastre NOVA University of Lisbon, Portugal

Prof. M. T. A. Chaudhary Imam Muhammad Ibn Saud University, Saudi Arabia

**Prof. Salvatore De Lorenzo** University of Bari, Italy

**Prof. Mabrouk Djeddi** Department of Geophysics, Faculty of Hydrocarbons and Chemistry, M'Hamed

Bougara University, Algeria

Prof. Vincenzo Gattulli Università dell'Aquila, Italy

Dr. Dragomir K. Gospodinov Plovdiv University, Bulgaria

**Dr. Raja R. Hussain** King Saud University, Saudi Arabia

**Dr. Arzu Kocabas** Mimar Sinan Fine Arts University, Türkiye

**Prof. Tariq M. Nahhas** Umm AlQura University, Saudi Arabia

Dr. Vunganai Midzi Council for Geoscience, Engineering and Geohazard Unit, South Africa

Dr. Fabrizio Mollaioli Sapienza University of Rome, Italy

**Dr. Abbas Moustafa**Minia University, Egypt

**Prof. Stelios M. Potirakis** Department of Electrical and Electronics Engineering, University of West

Attica, Greece

**Prof. Junwon Seo** Iowa State University, USA

**Dr. Gloria Terenzi**University of Florence, Italy

Prof. Theodoros M. Tsapanos Aristotle University of Thessaloniki, Greece

**Prof. R. B. S. Yadav** Kurukshetra University, India



ISSN Online: 2169-9631 ISSN Print: 2169-9623

## **Table of Contents**

Volume 12	Number 4	November 2023
Earthquake unde	r Control: Is It Feasible?	
A. L. Buchachenk	.0	159
SeisGuard: A Sof Model	tware Platform to Establish Automatic	ally an Earthquake Forecasting
X. L. Liu, Y. J. Ga	o, M. Li	177
Participation in I Issues and Challe	Disaster Risk Reduction (DRR) Educati inges	on: Analysing the Practices,
Y. R. Pant		198
- •	tions to Remote 2022 Tonga Eruption asus): Hydrogeology, Geomagnetics an	• •
T. Chelidze, G. M	elikadze, G. Kobzev, T. Jimsheladze, N. Dovg	gal223

#### Open Journal of Earthquake Research (OJER) Journal Information

#### **SUBSCRIPTIONS**

The *Open Journal of Earthquake Research* (Online at Scientific Research Publishing, <a href="https://www.scirp.org/">https://www.scirp.org/</a>) is published quarterly by Scientific Research Publishing, Inc., USA.

#### Subscription rates:

Print: \$59 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: <a href="mailto:sub@scirp.org">sub@scirp.org</a>

#### **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: ojer@scirp.org



# Open Journal of Earthquake Research

ISSN Print: 2169-9623 ISSN Online: 2169-9631

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

**Open Journal of Earthquake Research (OJER)** is an open access journal published quarterly. 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 all aspects of earthquake research.

#### Subject Coverage

All manuscripts must be prepared in English, and are subject to a rigorous 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:

- Earthquake Engineering
   Base isolation and vibration control
   Dynamic properties of soil
   Earthquake-resistant design
   Infrastructure risk assessment
   Lifeline earthquake engineering
   Nonstructural components
   Seismic analysis of structures
   Seismic code development
   Seismic site effects
   Seismic soil-structure interaction
- Earthquake Risk Management
   Casualty and loss estimation
   Emergency planning and disaster relief
   Insurance and financial risk
   Lessons from past earthquakes
   Partnership model for risk reduction
   Policymaking and land use planning
   Precautionary measures
   Preparedness for earthquakes
   Public education and awareness
   Recovery and reconstruction
- Seismology
  Earthquake early warning
  Earthquake ground motions
  Earthquake prediction
  Earthquake-induced tsunami
  Historical seismicity
  Intensity measures
  Measuring and locating earthquakes
  Plate tectonics and faulting
  Seismic hazard
  Source characterization

#### Notes for Intending Authors

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.

#### Website and E-mail

https://www.scirp.org/journal/ojer E-mail: ojer@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





Website: https://www.scirp.org Subscription: sub@scirp.org Advertisement: service@scirp.org