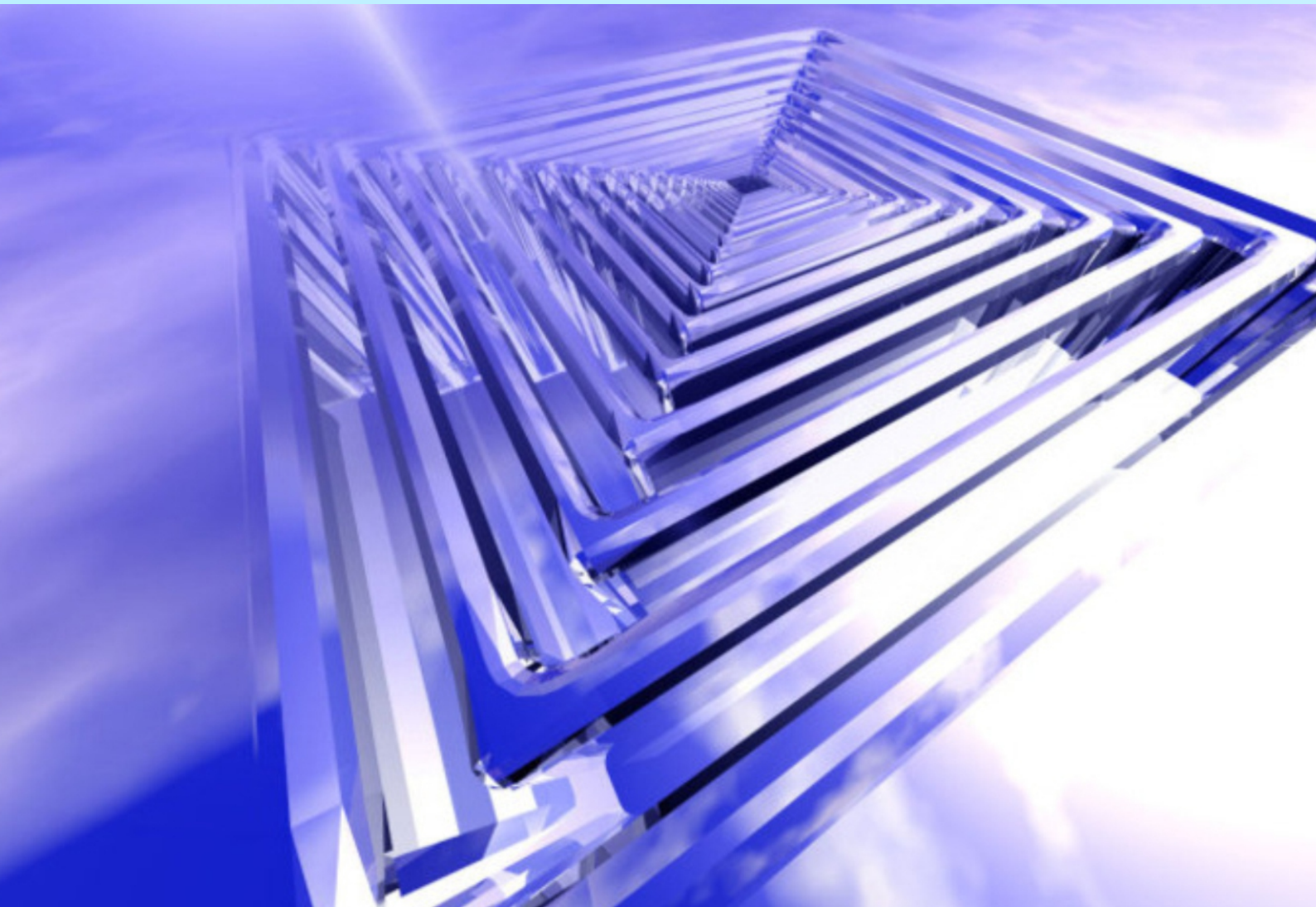


ISSN: 2162-5999

Volume 13, Number 2, June 2023



Open Journal of Safety Science and Technology



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

JOURNAL EDITORIAL BOARD

ISSN: 2162-5999 (Print) ISSN: 2162-6006 (Online)

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

Editors-in-Chief

Prof. Singiresu S. Rao

University of Miami, USA

Dr. Jo-Ming Tseng

Central Taiwan University of Science and Technology, Chinese Taipei

Editorial Board

Dr. Rabiul Ahasan

University of Oulu, Finland

Prof. Fakhru'l-Razi Ahmadun

Universiti Putra Malaysia, Malaysia

Prof. Aidy Ali

National Defence University of Malaysia (UPNM), Malaysia

Dr. Pedro Martins Arezes

School of Engineering of the University of Minho, Portugal

Prof. Corneliu BOB

University "Politehnica" of Timisoara, Romania

Prof. José J. Cañas

University of Granada, Spain

Dr. Baoping Cai

China University of Petroleum, China

Dr. Alan Hoi-Shou Chan

City University of Hong Kong, China

Dr. Jianwei Cheng

China University of Mining and Technology (CUMT), China

Prof. Bruno Fabiano

University of Genoa, Italy

Dr. Frank A. Felder

The State University of New Jersey, USA

Dr. Tifeng Jiao

Yanshan University, China

Dr. In-Ju Kim

University of Sharjah, UAE

Prof. Fausto Pedro García Márquez

University of Castilla-La Mancha, Spain

Dr. Deepak M.D.

National Institute of Construction Management and Research, Pune, India

Dr. Panagiotis Mitropoulos

San Diego State University, USA

Dr. Yuichi Otsuka

Nagaoka University of Technology, Japan

Prof. K. Balaji Rao

CSIR-Structural Engineering Research Centre, India

Prof. Chi-Min Shu

National Yunlin University of Science and Technology (YunTech), Chinese Taipei

Prof. Isabelle Sochet

Industrial Risk Engineering Department, Institute of Technology INSA Centre Val de Loire, France

Dr. Paolo Vestrucci

University of Bologna, Italy

Prof. Xin Ye

California State Polytechnic University, USA

Table of Contents

Volume 13 Number 2

June 2023

Review of Blast Waves Analysis, Design, Structural and Materials Responses

A. K. Taha, A. Osman, M. S. Zahran.....27

The Impact of Cyber Security on Business: How to Protect Your Business

E. M. Kala.....51

**Non-Newtonian Fluids and Uncontrolled Emission of Toxic Gases:
A Major Threat to Worker Safety**

T. N. McManus.....66

Open Journal of Safety Science and Technology (OJSST)

Journal Information

SUBSCRIPTIONS

The *Open Journal of Safety Science and Technology* (Online at Scientific Research Publishing, <https://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

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: ojstt@scirp.org



Open Journal of Safety Science and Technology

ISSN: 2162-5999 (Print) ISSN: 2162-6006 (Online)

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

Open Journal of Safety Science and Technology (OJSST) is an openly accessible 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 different areas of safety science and technology.

Editors-in-Chief

Prof. Singiresu S. Rao

University of Miami, USA

Dr. Jo-Ming Tseng

Central Taiwan University of Science and Technology, Chinese Taipei

Subject Coverage

The field of Safety Science and Technology is the most challenging and hot topic among all branches of science. This field is also quite interdisciplinary in character. OJSST aims to publish research papers in the following areas:

- Aerospace vehicle safety
- Blast safety
- Bridge safety engineering
- Chemical health and safety
- Coal, gas and rock burst
- Construction and building safety
- Dam safety
- Drug safety
- Ecotoxicology and environmental safety
- Emergency management and evacuation
- Explosion performance and safety of hazardous materials
- Fatigue, lifetime and reliability
- Fire control and extinguishing
- Fire experiment and property research
- Fire extinguishing agent and fire equipment
- Food safety
- Gas and dust control in coal mine
- Gas explosion and safety
- Human factors and ergonomics
- Leakage of combustible and toxic materials
- Machinery safety
- Numerical simulation of fire
- Occupational health and human behavior
- Patient safety in surgery
- Performance and process of burning
- Public security
- Robot safety
- Safety assessment and risk analysis
- Safety engineering
- Safety management
- Safety monitoring and supervision
- Safety of chemical reaction tank and pressure vessel
- Safety of tunnel and metro construction
- Slope stability
- Smoke control
- Spontaneous combustion in coal mine
- Structural safety
- Theories and methods of safety science
- Traffic and transportation safety
- Ventilation
- Work safety in coal mine
- Other aspects of safety science and technology

Website and E-Mail

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

E-mail: ojsst@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
Publishing**

Website: <https://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org