

# Open Journal of Air Pollution



ISSN: 2169-2653



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

# Journal Editorial Board

ISSN: 2169-2653 (Print) ISSN: 2169-2661 (Online)

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

---

## Editorial Board

<b>Dr. Tianfeng Chai</b>	National Oceanic and Atmospheric Administration, USA
<b>Dr. Xinguang Cui</b>	Huazhong University of Science and Technology, China
<b>Dr. Eva Gallego</b>	Polytechnic University of Catalonia, Spain
<b>Dr. Xiaoming Hu</b>	University of Oklahoma, USA
<b>Prof. Kuruvilla John</b>	University of North Texas, USA
<b>Dr. Atef Mohamed Fathy Mohammed</b>	National Research Centre, Cairo, Egypt
<b>Dr. P. G. Ranjith</b>	Monash University, Australia
<b>Dr. Shafiqur Rehman</b>	King Fahd University of Petroleum & Minerals, Saudi Arabia
<b>Dr. Tiziano Tirabassi</b>	National Researches Council, Italy
<b>Prof. Debi Prasad Tripathy</b>	Department of Mining Engineering, National Institute of Technology, India
<b>Prof. Ying I. Tsai</b>	Chia Nan University of Pharmacy and Science, China
<b>Dr. Feng Zhang</b>	University of Maryland, USA

# Table of Contents

**Volume 12    Number 3**

**September 2023**

**Outlier Detection of Air Quality for Two Indian Urban Cities Using Functional Data  
Analysis**

M. Ahmad, W. H. Cheng, Z. Xu, A. Kalam.....79

**Analysis of the Level of Pollutants in the ICS Location Area**

S. D. Ka Dia, I. Samb, O. Niass, T. A. Seck, G. Ka.....92

# Open Journal of Air Pollution (OJAP)

## Journal Information

### SUBSCRIPTIONS

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

#### **Subscription rates:**

Print: \$59 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 © 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: [ojap@scirp.org](mailto:ojap@scirp.org)

# Call for Papers



## Open Journal of Air Pollution

ISSN: 2169-2653 (Print) ISSN: 2169-2661 (Online)

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

*Open Journal of Air Pollution (OJAP)* 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 air pollution.

### Editorial Board

Dr. Tianfeng Chai  
Dr. Xinguang Cui  
Dr. Eva Gallego  
Dr. Xiaoming Hu  
Prof. Kuruvilla John  
Dr. Atef Mohamed Fathy Mohammed

Dr. P. G. Ranjith  
Dr. Shafiqur Rehman  
Dr. Tiziano Tirabassi  
Prof. Debi Prasad Tripathy  
Prof. Ying I. Tsai  
Dr. Feng Zhang

### 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 in hard copy. The areas of Open Journal of Air Pollution (OJAP) include but are not limited to the following fields:

- **Atmospheric Observations, Modeling, and Analysis**
  - Ambient Air Quality
  - Meteorology and Planetary Boundary Layer
  - Community Multi-Scale Air Quality Models
  - Natural/Anthropogenic Pollutant Emissions and Inventories
  - Air Quality and Climate Change Interactions
  - Air Quality Impact
  - Evaluation of Model Performance
- **Atmospheric Processes**
  - Biospheric-Atmospheric Exchange
  - Chemistry, Physics and Microbiology
  - Transport, Deposition, Accumulation, Acid Precipitation
- **Climate Impact and Interaction**
  - Environmental Impact of Built Environments
  - Impact of Climate Change
- **Environmental Awareness**
  - Ecological Implications and Environmental Jurisprudence
  - Education and Community Engagement

Health and Welfare Effects Associated with Air Pollution  
Policy, Standards and Regulation

- **Environmental Toxicology**
  - Organic Compounds, Metals and Other Inorganic Compounds
  - Routes and Kinetics
  - Risk Assessment
- **Indoor Air Pollution (IAQ)**
  - Control Techniques
  - Indoor Air Pollutant
  - Thermal Comfort and Perceived Air Quality
- **Innovative Methods in the Study of Air Pollution**
  - Bio-Monitoring and Biomarkers of Exposure
  - CO<sub>2</sub> Capture as Measure of GHG Emission Mitigation
  - Environmental Biotechnology in Removing Air Pollutants
  - Gene-Sequencing and Bio-Informatics for Microbiology Studies
  - Space Based Remote Sensing Air Quality Observations
  - Wireless Sensors and Smartphone Monitoring

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

<https://www.scirp.org/journal/ojap> E-mail: [ojap@scirp.org](mailto:ojap@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](mailto:sub@scirp.org)**

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