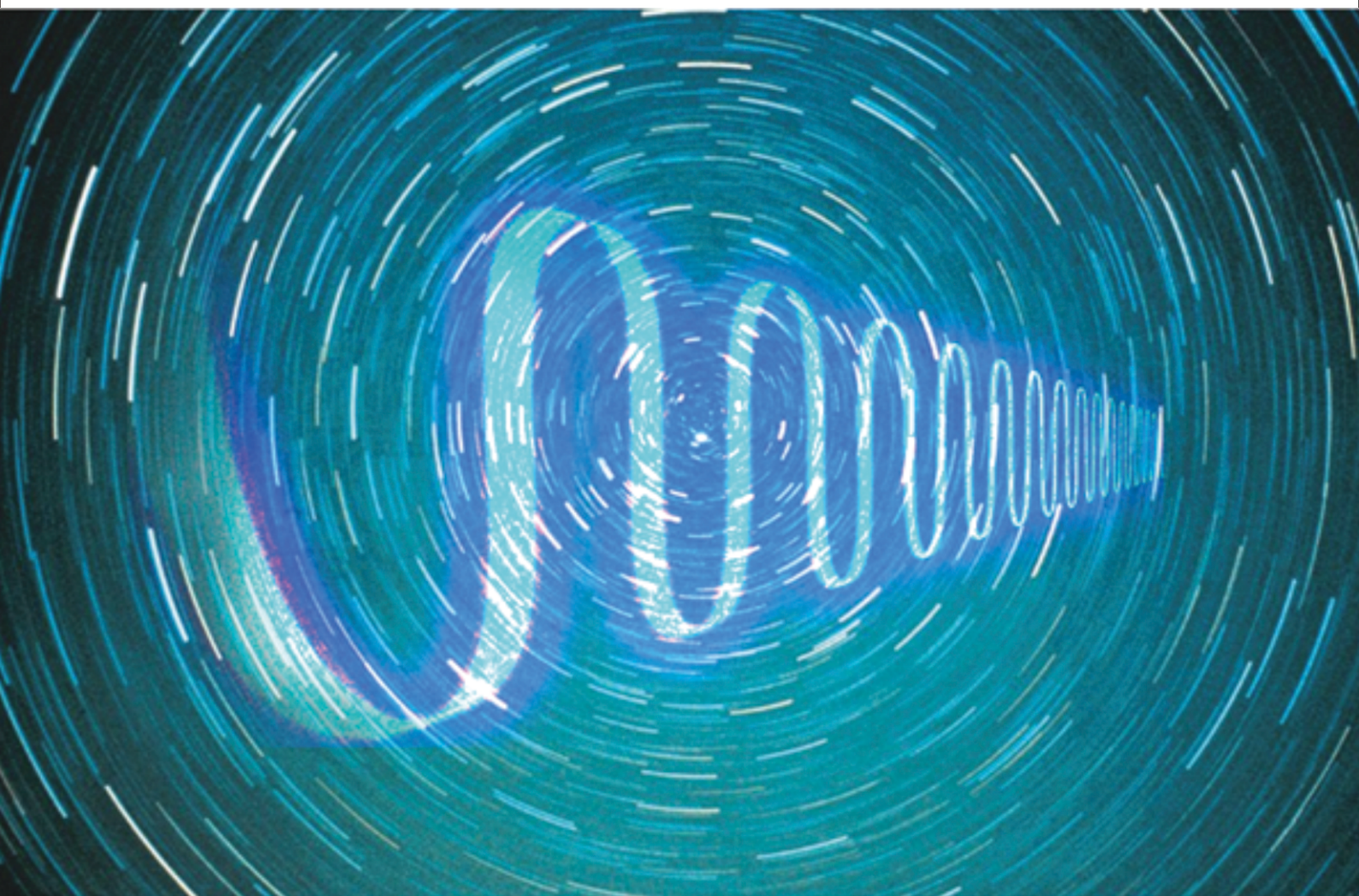


ISSN: 2162-5786

Volume 13, Number 2, June 2025



# Open Journal of Acoustics



ISSN:2162-5786



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

# Journal Editorial Board

ISSN 2162-5786 (Print) ISSN 2162-5794 (Online)

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

---

## Editor-in-Chief

**Prof. Wen L. Li**

Advanced Engineering and Technologies, USA

## Honorary Editor-in-Chief

**Prof. Danilo Capecci**

Università di Roma La Sapienza, Spain

## Editorial Board

**Prof. Luigi Maxmilian Caligiuri**

University of Calabria, Italy

**Prof. Antonio Carcaterra**

University “La Sapienza”, Italy

**Prof. Kuifu Chen**

China Agricultural University, China

**Prof. Roger H. L. Chen**

West Virginia University, USA

**Prof. Massimo Garai**

University of Bologna, Italy

**Dr. Jose V. Garcia-Perez**

Universitat Politècnica de València, Spain

**Prof. Luís Manuel Cortesão Godinho**

University of Coimbra, Portugal

**Prof. Guoyong Jin**

Harbin Engineering University, China

**Prof. Lok C. Lew Yan Voon**

Wright State University, USA

**Prof. Fengming Li**

Harbin Institute of Technology, China

**Dr. Yi-Yang Li**

The Chinese University of Hong Kong, China

**Dr. Tian Ran (Terry) Lin**

Queensland University of Technology, Australia

**Prof. Cheuk-Ming Mak**

The Hong Kong Polytechnic University, China

**Prof. S. V. Ranga Nayakulu**

Guru Nanak Institutions-Technical Campus (GNITC), India

**Dr. Qiao Sun**

University of Calgary, Canada

**Dr. Eng Leong Tan**

Nanyang Technological University, Singapore

**Dr. Antonio Uris**

Universidad Politécnica de Valencia, Spain

**Prof. Morten Willatzen**

University of Southern Denmark, Denmark

**Prof. Shefeng Yan**

Chinese Academy of Sciences, China

# Table of Contents

**Volume 13    Number 2**

**June 2025**

**Assessment of Ponderosa Pine Bark Acoustic Properties**

R. J. Malahowski, E. F. Mendoza, C. J. Mann ..... 17

**Optimization of Operating Room Monitor Alarm Sounds  
Based on Intelligent Audio Processing**

Y. Liu, J. Wang, X. Y. Pi, Z. M. Gao, Q. Sun ..... 36

# Open Journal of Acoustics (OJA)

## Journal Information

### SUBSCRIPTIONS

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

#### Subscription rates:

Print: \$79 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 © 2025 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 © 2025 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: [oja@scirp.org](mailto:oja@scirp.org)



**Call for Papers**

# Open Journal of Acoustics

ISSN 2162-5786 (Print) ISSN 2162-5794 (Online)

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

**Open Journal of Acoustics (OJA)** is an international journal dedicated to the latest advancement of acoustics. 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 acoustics.

## Editor-in-Chief

Prof. Wen L. Li

Advanced Engineering and Technologies, USA

## Honorary Editor-in-Chief

Prof. Danilo Capecchi

Università di Roma La Sapienza, Spain

## Editorial Board

Prof. Luigi Maxmilian Caligiuri

Prof. Antonio Carcaterra

Prof. Kuifu Chen

Prof. Roger H. L. Chen

Prof. Massimo Garai

Dr. Jose V. Garcia-Perez

Prof. Luís Manuel Cortesão Godinho

Prof. Guoyong Jin

Prof. Lok C. Lew Yan Voon

Prof. Fengming Li

Dr. Yi-Yang Li

Dr. Tian Ran (Terry) Lin

Prof. Cheuk-Ming Mak

Prof. S. V. Ranga Nayakulu

Dr. Qiao Sun

Dr. Eng Leong Tan

Dr. Antonio Uris

Prof. Morten Willatzen

Prof. Shefeng Yan

University of Calabria, Italy

University "La Sapienza", Italy

China Agricultural University, China

West Virginia University, USA

University of Bologna, Italy

Universitat Politècnica de València, Spain

University of Coimbra, Portugal

Harbin Engineering University, China

Wright State University, USA

Harbin Institute of Technology, China

The Chinese University of Hong Kong, China

Queensland University of Technology, Australia

The Hong Kong Polytechnic University, China

Guru Nanak Institutions-Technical Campus (GNITC), India

University of Calgary, Canada

Nanyang Technological University, Singapore

Universidad Politècnica de València, Spain

University of Southern Denmark, Denmark

Chinese Academy of Sciences, China

## Subject Coverage

This journal invites original research and review papers that address the following issues in acoustics. Topics of interest include, but are not limited to:

- Acoustic and Speech Signal Processing
- Acoustic Material
- Acoustic Measurement
- Acoustic Problems in Information Science
- Acoustic Signal Processing
- Acoustic Transducer, Acoustic Measurements and Methods
- Architectural Acoustics and Electroacoustics
- Fluid Dynamics and Acoustics
- Infrasonics
- Linear Acoustics
- Musical Acoustics
- Noise, Noise Effects and Control
- Nonlinear Acoustics
- Other Physical and Acoustic-Related Issues and Cross-Disciplinary
- Photo-Acoustics
- Physical, Psychological Acoustics and Bioacoustics
- Sound of Water and Marine Acoustics
- Structural Acoustics and Vibration
- Ultrasonics in Medicine
- Ultrasonics Sonochemistry
- Ultrasonics, Quantum Acoustics and Acoustic Effects

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 **OJA**.

## 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/oja>

Email: [oja@scirp.org](mailto:oja@scirp.org)