

## Special Issue

# Advances in Architectural Acoustics and Vibration

### Message from the Guest Editor

Architectural acoustics and vibration control are pivotal in shaping the built environment to provide optimal acoustic performance and enhance occupant comfort. As urbanization continues to thrive and noise pollution becomes a prominent issue, the importance of understanding and implementing cutting-edge solutions in this field has never been greater. This Special Issue intends to bring together leading researchers, engineers, architects, and acousticians to share their valuable insights, expertise, and research findings, including but not limited to:

Computational simulation and modeling techniques for predicting acoustic behavior.

Psychoacoustics and its influence on architectural design.

Sustainable architectural acoustics and environmentally friendly materials.

Innovative acoustic materials and treatments for optimizing acoustic performance.

Noise reduction strategies in various architectural spaces.

Vibration analysis and structural dynamics in building design.

Case studies of successful acoustic design in real-world architectural projects.

I appreciate your consideration, and I look forward to receiving your valuable contributions to this Special Issue.

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### Guest Editor

Dr. Sanjay Kumar

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### Deadline for manuscript submissions

closed (20 August 2025)



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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