

## Special Issue

# Innovative Composite Materials for Sound Absorption and Insulation (Second Volume)

### Message from the Guest Editor

In recent years, we have observed a growing interest in sound absorption and sound insulation as a consequence of the ever-increasing awareness of the adverse effects that noise and lack of acoustic comfort may have on human health. Such an interest has consequently stimulated researchers (and industry) to propose new materials with improved characteristics. It clearly represents a challenge for researchers, but at the same time, they offer new opportunities to experiment with cutting-edge solutions, like those based on the use of composite materials, also including nanotechnologies, “green” vegetal and animal fibers, metal/ceramic/polymer matrixes, or even the more “advanced” acoustic metamaterials. At the same time, new or updated mathematical models and simulation tools will be needed to explain and predict the acoustic behavior of such composite materials. Research articles, review articles and communications relating to theory, simulation, fabrication, properties characterization and applications of sound-absorbing and sound-insulating composite materials are all invited for this Special Issue.

### Guest Editor

Prof. Dr. Francesco Martellotta

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### Deadline for manuscript submissions

closed (20 October 2022)



## Materials

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### Message from the Editor-in-Chief

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