Advanced Materials Structures for Sound and Vibration Damping

Message from the Guest Editor

Noise and mechanical vibration belong to negative environmental factors in many cases. They can have an adverse effect on human health, accuracy of manufacture, service life of processing equipment and tools, labor protection and so on. For these reasons, it is necessary to eliminate undesirable noise and mechanical vibration by appropriate means. There are different possibilities to reduce excessive noise and mechanical vibrations.

The aim of this Special Issue is to develop advanced material structures for noise and vibration damping. The articles presented in this Special Issue will cover various topics that have a significant influence on sound absorption and mechanical vibration damping of material structures, ranging from but not limited to manufacturing technologies of materials, composite and multilayer structures, mathematical simulations and experimental investigation of vibroacoustic properties, production efficiency, mechanical properties, and practical applications of advanced material structures, among others. Topics are also open to utilization of different types of recycled materials for these purposes, which can be also beneficial to our environment.
Editor-in-Chief

Prof. Dr. Maryam Tabrizian
James McGill Professor, Professor of Biomedical Engineering, Professor of Bioengineering, Professor of Experimental Surgery, Department of Biomedical Engineering, Faculty of Medicine/Faculty of Dentistry, Duff Medical Science Building, 3775 University Street, Montreal, QC H3A 2B4, Canada

Message from the Editor-in-Chief

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Contact Us

Materials
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/materials
materials@mdpi.com
@Materials_Mdpi