Special Issue

Acoustic Properties of Materials

Message from the Guest Editor

Acoustic properties are important solid physical characteristics of materials. The acoustic properties of materials have a close relationship with their structures, especially for porous materials or composite materials. By studying acoustic properties like the sound absorption coefficient (SAC) and sound transmission loss (STL) of materials with different frequencies, the effects of the internal structural information can be further understood. The study of the acoustic properties of materials has many applications. For example, from comparative analyses of experimental results and theoretical models, researchers may determine empirical functions between structural characteristic parameters and explore further applications of these functions, such as the nondestructive testing of composites and the evaluation of textiles. The vibration of heavy equipment and its noise control have also gained increasing attention from researchers of various research backgrounds (material science, mechanical engineering, sustainability, applied physics, etc.).

Guest Editor

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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