Special Issue

Research on Vibration of Composite Structures

Message from the Guest Editors

This Special Issue of *Materials* focuses on the vibration behavior of composite structures, aiming to bring together the most innovative theoretical breakthroughs, numerical simulation methods, and experimental characterization techniques in this field. The Special Issue focuses on the following research directions: (a) theoretical modeling and numerical simulation, such as analytical and numerical methods, multi-scale dynamics modeling, and nonlinear vibration analysis; (b) experimental characterization techniques, such as advanced testing methods, extreme environmental vibration test, damping performance evaluation; (c) vibration control and optimization, such as passive/active control technologies, smart material applications, and machine learning-assisted optimization. This Special Issue especially welcomes original research on advanced composite systems and their engineering applications.

Guest Editors

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Message from the Editor-in-Chief

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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