Special Issue

Intelligent Material Structures for Vibration Suppression, Energy Harvesting, Structural Health Monitoring

Message from the Guest Editors

This Special Issue aims to provide a platform for leading researchers and experts from around the world to share their latest findings and insights on the developments in intelligent material structures and systems for vibration suppression, energy harvesting, and Structural Health Monitoring. The articles in this issue will cover a wide range of topics, including, but not limited to:

- The design and fabrication of intelligent materials for vibration suppression, energy harvesting, and Structural Health Monitoring applications.
- The optimization of intelligent material systems for specific applications, such as aerospace, automotive, and civil engineering.
- The development of refined theoretical modelling methods for intelligent material structures and systems.
- The design of shunt circuits to realize active tuning of electromechanical properties of intelligent material systems.
- The study of the impacts of ambient environmental conditions on the performance of intelligent material systems.
- The development of control algorithms for intelligent material systems to improve energy harvesting, vibration suppression, and Structural Health Monitoring performance.

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Deadline for manuscript submissions

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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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