Special Issue

Nonlinear Vibration Isolation and Energy Harvesting Devices

Message from the Guest Editors

Nonlinear vibration isolation and energy harvesting are increasingly vital for enhancing mechanical performance and enabling sustainable energy solutions, especially in complex engineering systems. Effective vibration control ensures structural safety and system accuracy, while ambient vibrations offer a promising energy source. The developments of high-performance nonlinear vibration isolation and energy harvesting systems require multidisciplinary innovation, including novel structures, smart materials, nonlinear dynamics, and integrated system design. In particular, coupling vibration energy harvesting with suppression yields systems that both suppress vibrations and produce usable power. The purpose of this Special Issue is to present the latest research advances in nonlinear vibration isolation and energy harvesting, whether pursued separately or in integrated systems. We welcome original research on novel mechanisms, theoretical models, structural designs, fabrication techniques, system integration, and applications. Review articles offering comprehensive overviews of current knowledge and future challenges are also welcome.

Guest Editors

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