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Acoustics



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The “Acoustics” Section of Applied Sciences is open to receive high quality original research and review articles related to all aspects and applications of acoustic and elastic waves, as well as vibrations both in their active and passive form. This includes cases where waves are deliberately excited for monitoring purposes (such as ultrasound applied on a human patient, or structure), as well as study of seismic waves or acoustic emissions originating from crack propagation within a material, or acoustic conditions in a concert hall. The focus is on the development of innovative techniques and material properties or processes monitored. The innovation can be the technique itself or the material being inspected. All manuscripts submitted for publication in this section will undergo a thorough peer review process and will be published rapidly online on acceptance.

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- Wave dispersion and waveguides
- Fundamental studies on scattering and viscous media
- Monitoring of innovative materials based on mechanical waves
- Seismic waves
- Vibrations, damping and noise control
- Nonlinear acoustics
- Transducers technology
- Wireless monitoring and energy harvesting
- Combination of mechanical wave techniques with other techniques, for structural health monitoring purposes
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