applied sciences

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Special Issue

# Brillouin Scattering and Optomechanics

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*Deadline for manuscript submissions:*
*31 December 2017*

## Message from the Guest Editors

The science of the interaction of sound and light, including acousto-optics, has recently witnessed the emergence of new topics and directions that lead to novel fundamental effects and applications. Optomechanical structures, including phoxonic crystals—also known as simultaneous photonic and phononic crystals—are presently being investigated in order to obtain very efficient interactions in tiny volumes. They allow for the control of phonons with photons, but also for ultimate sensing applications. Concurrently, opto-acoustical interactions in micro- and nanoscale optical resonantors, fibers, and waveguides are being seen in a new light thanks to new materials and structures, leading to a renewed view of Brillouin scattering.

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