



100th Anniversary of Brillouin Scattering

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Message from the Guest Editor

The year 2022 marks hundred years since the discovery of Brillouin scattering by L. Brillouin in 1922. Nowadays, the term Brillouin scattering is extensively used as the inelastic light scattering in the gigahertz range. Owing to the non-contact method, phase transition, liquid-glass transition, and polymerization have been studied by changing temperature, pressure, and external fields such as electric and magnetic fields and stress. Recently, the exiting light source is extended to UV and X-ray, which covers the terahertz-nanometer range. Brillouin scattering imaging or Brillouin microscopy enables the detection of elastic heterogeneity, which is useful for in vivo diagnostics. Investigations of various excitations, not only acoustic phonon, but also magnon and fracton, for example, provide new insights into physics, chemistry, mineralogy, biology, pharmacy, medical science, and engineering.

This Special Issue will be devoted to the Brillouin scattering study of these various fields for hard and soft materials. Original research papers and review articles are cordially invited.





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