Special Issue

Advances in Mechanoluminescence Materials and Technology

Message from the Guest Editors

This Special Issue will address advances in processing, characterization, technology development of mechanoluminescent (ML) materials. As stimuli-responsive materials, ML materials are capable of emitting light under dynamic force/pressure such as pressing, stretching, bending, shaking, peeling, scraping, squeezing, wind blowing, and raindrop impacting. The phenomenon of ML is also called mechanically induced/excited luminescence, piezo-luminescence, or tribo-luminescence. With the rapid development of smart sensing and advanced lighting and display technologies, ML materials have received increasing attention in recent years. The mechanical energy used to excite ML is ubiquitously available in natural objects and living bodies, and the development of ML technology makes it a unique light source to enable advanced sensing, display, energy, and environmental applications. Original papers are solicited on all types of mechanoluminescence materials and technologies. Of particular interest are recent developments in advanced materials, characterizations, processes, device designs, mechanisms, and applications.

Guest Editors

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Deadline for manuscript submissions

closed (20 April 2022)

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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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