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Advances in Mechanoluminescence Materials and Technology

Guest Editors:

Dr. Chunfeng Wang

Dr. Dengfeng Peng

Dr. Dong Tu

Deadline for manuscript submissions:
closed (20 April 2022)

Message from the Guest Editors

Dear Colleagues,

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.

Dr. Chunfeng Wang
Dr. Dengfeng Peng
Dr. Dong Tu

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Message from the Editor-in-Chief

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Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

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