



materials



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Materials under Pressure

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Deadline for manuscript submissions:

closed (17 February 2022)

Message from the Guest Editors

Pressure, like temperature, is one of the fundamental thermodynamic variables. High-pressure research has been advancing in recent decades with the development of various high-pressure instruments and probing techniques using synchrotron radiation light sources. Recent high-pressure research has shed a new light on condensed matter physics, chemistry, and materials science, including high T_c superconductors, exotic metals, pressure-induced transition, auxetic materials, molecular storage of transmitting media, dislocation and grain rotation of nanomaterials, etc. Studies on pressure dimension are rapidly expanding and providing challengeable and potential issues of science and technology. The upcoming Special Issue, entitled “Materials under High Pressure”, aims to present diverse fields, including 1) experimental, theoretical, and computational research of material physics, chemistry, and application, and 2) synchrotron-based technical approaches and others.



mdpi.com/si/58552

Special issue



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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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