Special Issue

Materials under High Pressure

Message from the Guest Editors

Materials experience a series of interesting changes under extreme high pressure, including flow, plastic deformation, phase transformation, fracture, temperature rise and chemical reactions. High pressure can be generated by die compression, high-velocity impact or explosions. This Special Issue 'Materials under high pressure' will focus on the recent research findings on high pressure-related problems in all types of materials. The main topics to be covered include processing technology, state-of-the-art characterization, testing, theoretic modeling and simulation. We welcome the submission of communications, original research papers and reviews on the following, or related, topics:

- material flow mechanism under high pressure;
- microstructural evolution;
- severe plastic deformation;
- high-velocity impact;
- materials or structures under explosion;
- impact-initiated chemical reactions.

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Deadline for manuscript submissions

closed (10 October 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/110672

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About the Journal

Message from the Editorial Board

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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