

Special Issue

Metallurgy by Severe Plastic Deformation

Message from the Guest Editors

Severe plastic deformation (SPD) has become a well-established mechanical metallurgy process to improve the mechanical/physical/chemical properties of metals. The present Special Issue aims to compile the state of the art in the field of SPD research through high-level papers, proposed by excellent research groups active in the field of SPD. The main aim is to show that SPD processes are able to change the metallurgical state of metals, so it should be recognized as an efficient process to perform metallurgical transformations in metals. All fields of SPD research are included—experimental as well as simulation/modeling. Propositions are especially expected to solve the two main problems of SPD materials: low formability and low thermal stability of the microstructures, which currently represent the price to pay for the extremely high elastic limits in metals that undergo SPD.

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Deadline for manuscript submissions

closed (20 May 2023)



Materials

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Impact Factor 3.1
CiteScore 5.8
Indexed in PubMed



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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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