

Special Issue

Mechanics and Thermodynamics of Materials

Message from the Guest Editor

Due to the rapid technological development, various heterogeneous materials are developed, including composites, foams, and micro- and nanostructured materials. Some of them inspired by nature itself, and therefore, structures with biological origin also deserve attention. The engineering applications of such materials require a deeper understanding and modeling capabilities. Such research programs consist of both experimental and theoretical works. In the present Special Issue, we focus primarily on the mechanical and thermodynamical description of materials, including both solids and fluids. The issue will cover a wide range of modeling: various rheological behaviors, thermomechanical description, non-equilibrium processes, and investigating chemical properties. Thus, in this SI, we aim to give a brief overview of up-to-date results, and as such, both original and review papers are welcome.

Guest Editor

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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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