Special Issue

Modeling of the Structure, Properties, Processes and Surface of Materials

Message from the Guest Editor

The aim of this Special Issue is to publish original scientific papers describing research work devoted to designing the structure, properties, surface and material processes of all kinds of modern engineering materials, with a particular emphasis on computer modelling techniques, such as, for example, finite element method, finite volume method, Monte Carlo method, molecular dynamics, DFT, etc., but also other computer methods aimed at improving the functionality and application of materials. However, it must be clear that it concerns application in science or engineering and practical use of the results of the designed and tested materials. The focus can be on developing new methods, mathematical models and numerical methods, or using the existing ones, which will help to formulate new conclusions after experimental verification, or after comparison with other methods.

Guest Editor

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Deadline for manuscript submissions

closed (10 February 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/55730

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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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