



materials



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Manufacturing and Mechanics of Materials

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Message from the Guest Editor

This Special Issue, focused on manufacturing and mechanics of materials, follows the main orientation of the journal *Materials*. The main focus will be on intelligent manufacturing and the application of advanced materials with a higher complexity of properties. The editorial board expects scientific presentations focused on modern automated production processes with artificial intelligence, innovative technologies based on additive manufacturing and 3D printing, precision manufacturing, the utilisation of multifunctional properties of materials for producing the complex machine elements and non-traditional kinematic structures, diagnostics of the production machines and equipment.

This Special Issue will be certainly enriched by original articles on experimental research and computer modelling of advanced materials' properties, scientific studies in the field of the experimental analysis and modelling defects, the prediction of fatigue damage of materials with different properties or in the field of destructive and non-destructive testing. It is an honour and pleasure for me to invite you to cooperate in creating this Special Issue.



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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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