Special Issue

Advanced Computational Methods in Manufacturing Processes

Message from the Guest Editors

Manufacturing processes of advanced materials become more complex as materials tend to depend on tailored process routes. Computational methods together with phenomenological, empirical modeling and simulation approaches support the optimization, further enhancement and development of materials and processes. This Special Issue aims to bring together contributions from experts in the field of advanced computational modeling and simulation that focus their efforts on the manufacturing processes of modern advanced materials. Contributions are welcome to focus on all computational aspects of manufacturing processes embracing process and microstructural relevant aspects and approaches, which are critical for the production of advanced materials and alloys. Simulation approaches alone works validated by industrial practices and/or enhanced by experimental aspects are welcome.

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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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