Special Issue

Multiscale Simulation of Advanced Materials and Structures

Message from the Guest Editors

With the emergence, fast spread, and rapid implementation of AI for science (AI4S) in ubiquitous fields, AI for material science based on the well-known Materials Genome Initiative (MGI) has revolutionized material discovery by integrating computational design, experimental validation, and data-driven approaches. With the rapid development of the MGI, the computational design of materials, especially the multiscale simulation of materials, has attracted increasing attention among the material science community. As a result, we are launching a Special Issue entitled “Multiscale Simulation of Advanced Materials and Structures”. This Special Issue will harness the synergy between MGI principles and multiscale methodologies to address major challenges in designing advanced materials and structures for applications in aerospace, energy, biomedical systems, and sustainable infrastructure.

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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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