

## Special Issue

# Molecular Dynamics Simulations in Nanocomposites

### Message from the Guest Editor

Polymer-, metal-, and ceramic-matrix nanocomposites have shaped the landscape of novel advanced engineering materials today. With the advent of nanomaterials, new task-specific composites have emerged that exhibit multifunctionality at new levels with tunability of properties surpassing what was possible before. Nanocomposites have found applications in biological, aerospace, automotive, defense, drug delivery, and other wide-ranging systems. It is now possible to create functionally graded, stimuli-responsive, and other smart materials using traditional or recently developed nanocomposite fabrication methods, such as direct mixing, solution mixing, melt-mixing, in situ polymerization, layer-by-layer assembly, etc. The promise of nanocomposites hinges upon the possibility of manipulating matter at nanoscale.

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### Guest Editor

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### Deadline for manuscript submissions

closed (10 August 2022)



## Materials

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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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