Special Issue

Modeling of Structure Formation in Soft Materials

Message from the Guest Editor

Soft materials are fascinating, ubiquitous and relevant for diverse applications at the interface between physics, chemistry, materials science, chemical engineering and biology. While recent advances in experimental and theoretical methods have offered significant insights into the structure of soft materials and increased understanding of their properties, important challenges remain. Many challenges can be overcome by computer modeling, in this way leading to a higher degree of understanding of the structure formation of soft materials and the unveiling of the structure–property relation that is required for the design of materials with tailor-made properties. This Special Issue aims to achieve two objectives: (i) to present novel computational methodologies that go beyond the current state of the art and are suitable for soft materials, and (ii) to highlight important contributions to our understanding in the structure formation of soft materials by modelling methods.

Keywords

- modelling of soft materials
- quantum/atomistic/molecular/continuum/stochastic modeling
- Artificial Intelligence
- multiscale computer simulation
- structure formation and properties

Guest Editor

Dr. Panagiotis Theodorakis

Institute of Physics, Polish Academy of Sciences, Al. Lotników 32/46, 02-668 Warsaw, Poland

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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