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Modeling of Structure Formation in Soft Materials

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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

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Message from the Editor-in-Chief

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