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Self-assembly at the Microscopic Scale

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Message from the Guest Editors

Dear Colleagues,

In addition to creating patterns and structures with spatiotemporal orders, self-assembly underlies many natural and artificial processes. At the microscopic scale, static self-assembly gives rise to many ordered structures seen in nanocrystals, biominerals, and colloidal crystals, whereas dynamic self-assembly produces a variety of spatiotemporal patterns of microswimmers, bacteria, and cells. From the perspective of fundamental science, dynamic self-assembly—often termed self-organization—is a fertile ground for discovering novel non-equilibrium phenomena and uncovering fundamental physicochemical principles. From a technological perspective, self-assembly can create materials and devices with structures, properties, or functions unattainable by other means. In this Special Issue, we invite original research papers and review articles from researchers working in all areas related to self-assembly at the microscopic scale. We seek to showcase this diverse, yet interconnected, research under the theme of self-assembly at the microscopic scale. We look forward to receiving your submission.

Prof. Dr. Karl F. Böhringer
Prof. Dr. Wendong Wang

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Message from the Editor-in-Chief

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