

Special Issue

Hybrid and Polymer Assemblies

Message from the Guest Editors

Polymer self-assembly has become extremely attractive for both biological (drug delivery, tissue engineering, scaffolds) and nonbiological (packaging, semiconductors) applications. In nature, a number of key biological processes are driven by polymer self-assembly, for instance, protein folding. Impressive morphologies can be assembled from polymers thanks to a diverse range of interactions involved, e.g., electrostatics, hydrophobic, host-guest interactions. Both 2D and 3D tailor-made assemblies can be designed through modern powerful techniques and approaches such as the layer-by-layer and the Langmuir-Blodgett deposition, hard and soft templating. This Special Issue highlights contributions (research papers, short communications, and review articles) that focus on recent developments in polymer self-assembly for fundamentally understanding both the assembly phenomenon and real applications

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Deadline for manuscript submissions

closed (31 December 2021)



Micromachines

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Impact Factor 3.0
CiteScore 5.2
Indexed in PubMed



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