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Engineered Biomaterials: Design, Modeling, Synthesis, Characterization and Applications

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Message from the Guest Editors

The last two decades have witnessed an exponential growth in cutting-edge research in the field of engineered biomaterials. The diversified use of these valuable biomaterials, either at the nanoscale, microscale, or macroscale, ranges from drug-delivery agents, imaging and detection nanoshuttles in cancer research and therapy, and implants, to name a few. Multiscale simulations are being used as an important tool to design and investigate biomaterials due to the rapid development of computational algorithms and resources. It is powerful in studying the properties of such biomaterials along with their interaction with biological systems. Therefore, a combined research approach consisting of experiments, theoretical analysis, and computational simulations are of paramount importance to acquire new knowledge in the area of biomaterials and accelerate the emergence of innovative and efficient bio-applications.

To this end, we extend this invitation to submit innovative research articles and reviews on subjects pertaining to engineered biomaterials, structures or particles, design or modelling, production methods, characterization, and demonstrations of bio-applications.



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Special Issue



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