



Machine Learning Applications in Polymeric Biomaterials

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Message from the Guest Editors

Dear Colleagues,

Polymers are the largest and most versatile class of biomaterials extensively applied for therapeutic applications. From natural to synthetic polymers, the possibilities to design and modify their physical–chemical properties make these systems of great interest in a wide range of biomedical applications as diverse as drug delivery systems, organ-on-a-chip, diagnostics, tissue engineering, etc.

With rapid advances in computational power, machine learning (ML) has boomed as an effective tool to discover new materials. The combination of machine learning with high-throughput theoretical predictions and high-throughput experiments has shifted from the traditional trial and error paradigm to a data-driven paradigm. In the field of polymers, ML has also found its applications in finding new materials with the desired performance.

The purpose of this Special Issue is to highlight recent achievements from biomaterials discovery and characteristic prediction to final applications in the field of biomedicine.





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Message from the Editor-in-Chief

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I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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