Special Issue

Machine Learning Applications in Polymeric Biomaterials

Message from the Guest Editors

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

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

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.

Editor-in-Chief

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