



Molecular Insights into Soft Materials

Guest Editors:

Dr. Xiaoyun Yan

Dr. Shu Wang

Dr. Changxia Shi

Dr. Shucong Li

Prof. Dr. Jianxun Ding

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Message from the Guest Editors

From hydrogels, plastics, elastomers, and liquid crystals to polymeric composites, soft materials have emerged as a versatile platform in various applications, including wearable devices, biomedical implants, intelligent/responsive materials, the food industry, chemical/biological material recycling, substance absorption/separation, energy storage, and catalysis. These diverse applications stem from the emergent chemical, electronic, optical, and mechanical properties inherent in soft materials, facilitated by meticulous control over their nano-, meso-, and macroscopic structures. At the core of this multi-level manipulation lies the mastery of a molecular-level structure, serving as the foundational basis for all functionalities.

This Special Issue aims to present an updated view on achieving advanced material structures, properties, or functions through molecular design. We welcome research articles and review manuscripts that align with the aforementioned aspects, contributing to a deeper understanding of the molecular intricacies underlying the remarkable features of soft materials.





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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

Message from the Editor-in-Chief

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Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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