



## State-of-the-Art Macromolecules in Japan

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### Message from the Collection Editors

Molecules are the smallest units of materials. Among them, macromolecules are huge molecules, usually diameter ranging from about 10 to 1,000 nm. Our lives depend on various macromolecules, plastics, resins, and fibers. Our bodies are also made of macromolecules, such as proteins, nucleic acids, sugar chains. Most macromolecules are polymers. Proteins are polymers of amino acids. Nylon is a polyamide polymer. The development of novel materials and the advancement of life science depend on the studies of macromolecules.

Macromolecular science pursues a deeper understanding of the structure, property, and reactivity of macromolecules.

Macromolecular science and technology is multi-disciplinary research that combines physics, chemistry, biology, and engineering. A large number of research teams in Japan from different institutions and universities are working together and devoting considerable efforts to develop and study various macromolecules. This Special Issue is committed to providing an overview of the macromolecular sciences and technologies in Japan.





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## Message from the Editor-in-Chief

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