

Topical Collection

State-of-the-Art Macromolecules in Russia

Message from the Collection Editors

At present, polymer chemistry is progressing rapidly to address the challenges of the twenty-first century. New catalytic solutions for petrochemical industry, advanced biodegradable materials for household and biomedical applications, recycling and up-cycling of polymer wastes, polymers from renewable raw materials, macromolecular photonics, power source membranes and electrolytes—this is not a complete list of current areas of research. This Topical Collection focuses on creating a multidisciplinary forum of discussion on recent advances in polymer chemistry in the Russian Federation. All topics related to the design, synthesis, characterization, post-modification of macromolecules, new macromolecular structures, mechanisms explaining the formation of macromolecular architectures, polymerization kinetics and thermodynamics, and application of synthetic and biological macromolecules are covered, including biomacromolecules (proteins, nucleic acids, polysaccharides, lipids, etc.), sustainable macromolecules, degradable polymers, and conjugated polymers. Computational studies offering new insights into an understanding of experimental results will also be appreciated.

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