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Special Issue Reprint

Recent Trends in Polymer Membranes

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This Reprint comprises one editorial and twelve contributions that focus on the design, fabrication, structural and functional regulation, and applications of various polymeric membranes, aiming to enhance their utilization in environmental science. The collected studies demonstrate that the rational design of polymer composition, microstructure, and surface functionality plays a pivotal role in improving membrane performance. Furthermore, the integration of emerging materials, scalable fabrication techniques, and multifunctional modification strategies is expected to significantly broaden the applicability of polymeric membranes in areas such as water treatment, energy conversion, gas separation, environmental remediation, and biomedical applications.

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