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Development and Application of Novel Membranes (2nd Edition)

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Message from the Guest Editors

Dear Colleagues,

The development and application of membranes is not a novel topic, but is still a field of interest full of new opportunities, as they present certain advantages.

In industrial processes, different types of membranes have been used, including microfiltration, ultrafiltration, nanofiltration, reverse osmosis, electrodialysis, and pervaporation, among others. The most common membranes in wastewater treatment are made of polysulphone and poly(ether)sulfone. However, due to their hydrophobicity, they are highly susceptible to fouling. Different physical and chemical membrane modification processes have been carried out, including modification of membrane materials before membrane formation, graph polymerization, plasma treatment, physical preadsorption, and others.

This Special Issue aims to cover the recent developments and advances in all aspects of novel membranes and their applications, including membrane processes, combined processes (including one membrane step), modified membranes, novel materials, the possibility of recycling and reusing membranes, and new technologies to reduce fouling and improve the efficiency of enhanced processes.

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Message from the Editor-in-Chief

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