Special Issue

Development and Application of Novel Membranes

Message from the Guest Editors

The most common membranes in wastewater treatment are made of polysulphone (PSF) and poly(ether)sulfone (PES). However, due to their hydrophobicity, tjey are highly susceptible to fouling. Different physical and chemical membrane modification processes have been tried out, including modification of membrane materials before membrane formation up to graph polymerization, plasma treatment, physical preadsorption, and others. This Special Issue aims to cover recent developments and advances in all aspects of novel membranes and their applications, including membrane processes, combined processes (including one membrane step), modified membranes, new materials, the possibility of recycling and reusing membranes, and new technologies to reduce fouling and improve the efficiency of enhanced processes. Keywords

- modified membranes
- physical membrane modification process
- chemical membrane modification process

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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