Special Issue

Nanocomposite Membranes for Water Treatment

Message from the Guest Editor

Membrane technology in water and wastewater treatment as well as water desalination has been extensively developed as several promising nanomaterials were used for the polymeric membrane modification. Its incorporation into the membrane matrix has been overcoming the challenges of conventional polymeric membranes, and stimulating its application to water treatment. The development of nanocomposite membranes is being undertaken with the aim to overcome performance declines driven by membrane fouling, energy intensiveness, and endowing selectivity to specific solutes. Future perspectives will focus on the developing superhydrophobic membrane for membrane distillation and plasmonic membranes for energy efficiency. In this Special Issue, the fabrication, application of nanocomposite membrane to water and wastewater treatment and water desalination are thoroughly discussed. In particular, this Special Issue includes both nanocomposite materials and nanocomposite membranes that have achieved enhanced performance on separation efficiency. It is my great pleasure to invite you to submit a manuscript for the Special Issue. Full papers, communications, and reviews are all welcomed.

Guest Editor

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Deadline for manuscript submissions

closed (10 May 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

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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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