Special Issue

Membrane Materials for Gas Separation

Message from the Guest Editors

We cordially invite you to submit your original work or review article to this Special Issue, “Membrane Materials for Gas Separation”. Membrane-based separation processes have progressively become important technology for industrial separations due to their low energy consumption, easy operation, and small footprint. Relevant applications, such as CO2 capture, oxygen enrichment, hydrogen purification, biogas upgrading, natural gas processing, and olefin/paraffin separations are currently using membrane-based technology. Nevertheless, there are still a significant improvements to be made in the process, ranging from the creation of new materials to the final testing of the processed membrane under real conditions. This Issue is dedicated to advances in separation mechanisms, separation performance, material selection, material processing, modelling, operational stability, and up-scaling. Topics of interest include ... For more, please visit:https://www.mdpi.com/journal/materials/special_issues/gas_separation

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Deadline for manuscript submissions

closed (30 June 2020)

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Message from the Editor-in-Chief

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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