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3D Printing in Membrane Preparation and Fouling Control

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Message from the Guest Editors

Additive manufacturing (AM), colloquially 3D printing, has been expanding in many production processes and fields of life. It accelerates and drives forward the processing of goods used in various life spheres. The technology is proficient in joining various materials for creating 3D objects in plenty of shapes using 3D modeling. In additive manufacturing, objects are formed by a layer-by-layer method (LbL) as opposed to traditional manufacturing technologies. Various types of materials used, and optimization of surface within numerous shapes display the potential of AM technologies in the preparation of membranes and membrane modules, too. The interplay of materials and shapes enabled in AM technologies is expected to accelerate membrane preparation, assist membrane fouling control, and the production of modules with a high surface to volume ratio, and new spacer and turbulence promoter geometries. Consequently, the improved efficiency of both membrane/module production and their application is expected.

- Membrane preparation
- Additive manufacturing
- Fouling control
- 3D-printed spaces/ turbulence promoters/
membrane modules/ microfluidic devices



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Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375).

Membranes is an international, peer-reviewed open access journal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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