Special Issue

Multifunctional Hybrid Nanostructured Membranes

Message from the Guest Editor

In this Special Issue, we would like to promote advances in the design, preparation and characterization of hybrid composite membranes based on nanostructured active materials, for applications in environmental purification and decontamination, but also in health care, biosensing or smart packaging. Contributions for the topics below are welcome:

- Effects of 0D, 1D or 2D nanostructuration on the photocatalytic efficiency;
- Designing and developing new emerging nanophotocatalyst and sensing nanostructures based on both size-dependent and shape-dependent properties;
- Correlations between photocatalytic efficiency and antimicrobial activity, self-cleaning properties;
- Photocatalitic activity and sorption capacity of magnetic nanostructured oxides and their composites;
- Magnetic photonanocatalysts, nanosorbents and related membranes;
- Solving recovery back-up issues by magnetic photonanocatalysts and nanosorbents;
- Composite functional nanofibers and related membranes by electrospinning or hybrid electrospinning-sol-gel techniques;
- Environmental purification and decontamination, biosensors, and smart packaging.

Guest Editor

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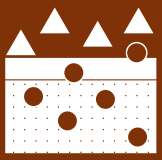

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Message from the Editor-in-Chief

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 accessjournal 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.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
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