

Coatings and Modification of Nanofiltration Membranes

Guest Editor:

Dr. Shuangmei XueInstitute for Advanced Study,
Shenzhen University, Shenzhen,
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Message from the Guest Editor

Extensive efforts have been made to improve the structural and surface properties of nanofiltration membranes for enhanced separation properties and application performance. The emergence of nanomaterials and functional polymers provides new solutions for the modification of NF membranes. Many key factors that affect the separation performance, applications and long-term stability of nanofiltration membranes can be readily tuned through coatings and modifications. We believe that the coating and modification of nanofiltration membranes are ideal candidates for effective and industrially feasible methods for producing next-generation membranes.

Therefore, we are assembling a Special Issue of *Coatings* on the Modification of Nanofiltration Membranes to encourage researchers and to provide them with a platform on which to publish their novel studies. In particular, the topics of interest include but are not limited to:

- Nanocomposite nanofiltration membranes;
- Surface topography modifications;
- Antifouling coatings and modifications;
- Grafting and functionalization;
- Multilayer membranes;
- Novel coatings and characterizations.

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Special Issue

Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New
Ceramics and Fine Processing,
School of Materials Science &
Engineering, Tsinghua University,
Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam
Mickiewicz University in Poznań,
ul. Wszechnicy Piastowskiej 3, 61-
614 Poznań, Poland

Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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Coatings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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