



an Open Access Journal by MDPI

New Insights in Wettability and Surface Repellency of Advanced Materials

Guest Editors:

Dr. Xianghui Hou

Faculty of Engineering,
University of Nottingham,
Nottingham NG7 2RD, UK

Dr. Jie Wang

School of Materials Science and
Engineering, Nanjing Institute of
Technology, Nanjing 211167,
China

Deadline for manuscript
submissions:

closed (20 April 2023)

Message from the Guest Editors

Dear Colleagues,

Research topics on wettability and surface repellency of materials have received tremendous interest in the past few decades, strongly motivated by their wide range of industrial applications due to their self-cleaning, anti-fouling, anti-soiling, antibacterial, and ice mitigation properties. The attachment and accretion of undesirable liquid/solid substances, micro-bacteria, or marine organisms on construction surfaces significantly pose serious operational and health/safety challenges. Various surface design strategies of advanced materials have been applied to mitigate the impacts of the unfavourable substance accretion, and different levels of success have been achieved.

Other concepts of materials development regarding surface repellency will be included in this Special Issue, e.g. slippery liquid-infused porous surfaces (SLIPS), elastomer coatings, and gels.

Contributions including research papers, communications, and critical reviews are invited for submission to this Special Issue, covering the recent progress in materials fabrication, evaluation of performance, testing methodologies, and simulation of wettability and surface repellency of materials.



mdpi.com/si/130784

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)