

Special Issue

New Insights in Wettability and Surface Repellency of Advanced Materials

Message from the Guest Editors

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.

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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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