

Water and Oil Repellent Surfaces

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Deadline for manuscript
submissions:

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Message from the Guest Editor

Dear Colleagues,

In the last two decades, materials of extreme wetting properties (MEWP) have received significant attention, as they offer new perspectives providing numerous potential applications. Recent studies suggest that metals, semiconductors, ceramics, polymers (natural and synthetic), and modern materials such as nanocomposites and graphene can be tuned to MEWP following cost-effective and eco-friendly methods and materials.

The scope of this Special Issue will serve as a forum for papers on the following concepts:

- Water-repellent coatings for building protection;
- Waterborne coatings with extreme wetting properties;
- Water-repellent cellulose surfaces (fabrics, paper);
- Robust ; Transparent ; Self-recovery water/oil repellent surfaces;
- Water-repellent coatings for automobiles, aircrafts, and ships;
- Graphene: from superhydrophilic to superhydrophobic surfaces.



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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies 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 in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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