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Wetting on Micro/Nano-Scale: From Fundamentals to Application

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Deadline for manuscript submissions:
closed (30 September 2019)

Message from the Guest Editors

Dear Colleagues,

Wetting refers to the study of how a liquid deposited on a solid (or liquid) substrate spreads out, with dewetting being the reverse process (the retraction of a liquid over a solid). It is a process that underpins many industries, from mineral processing to personal care and cosmetics. Although wetting phenomena are evident on the macroscopic scale (such as seeing water droplets slide off superhydrophobic plant leaves), the quantitative study of wetting is best performed with consideration of processes and characteristics on very small length scales. The goal of this Special Issue is to encourage the submission of articles on wetting and dewetting phenomena that focus on nanoscale aspects of the process (nanostructures, molecular processes, small bubbles and droplets, precursor films). Also, submissions that have a strong connection to the consequences of wetting (and dewetting) in applications that result from nano-scale variations and properties are encouraged.

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Guest Editors