Special Issue

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

Message from the Guest Editors

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.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2019)

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About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 22 days after submission; acceptance to publication is undertaken in 4.5 days (median values for papers published in this journal in the second half of 2024).