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Liquid–Fluid Interfaces and Dynamics

Guest Editors:

Dr. Liping Wei

Dr. Shunli Zheng

Prof. Dr. Guirong Yang

Deadline for manuscript submissions:
closed (31 May 2023)

Message from the Guest Editors

Dear Colleagues,

In the oil and natural gas industry, the energy and power industry, the chemical and pharmaceutical industry, and the medical and healthcare indstry, the varaible fluids of liquid, gas, gas–liquid, and liquid–liquid mixture interact with the walls of pipes, vessels, and reactors during their transport, reaction, and mixing. The purpose of this Special Issue is to report the notable investigations of scientists and engineers in the areas of multiphase flow, multiphase interaction, material corrosion mechanisms in fluids, surface modifiacation, and coatings.

The scope of Special Issue will cover, but will not be limited to, the following contents:

Multiphase inteface behaviors;
Multiphase flow and wall interactions;
Material corrsion behavior within static and dyamics fluids;
Surface modification produced by different processes;
Phase-change processes of materials;
Theoretical calculation of a surface or interface;
Phase-interface behavior of energy materials.

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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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