

Special Issue

Thin Liquid Films and Dispersed Systems—from Fundamentals to Applications

Message from the Guest Editor

Thin liquid films control the stability of foams, emulsions, and suspensions as their basic structural units. Flotation froths and other complex fluids used in the industry depend significantly on the wetting films between the particles and the bubbles/oil droplets. The rheological behavior of food colloids and blood stream depends on the stability of the thin liquid films between the soft particles. Therefore, this Special Issue aims at covering all the fundamental and industrial aspects related to thin liquid films, foams, emulsions, and complex fluids.

Specifically, the issue will cover works on:

- Surfaces forces in thin liquid films;
- Hydrodynamics of thin liquid films;
- Capillary phenomena in thin liquid films;
- Ion-specific effects in thin liquid films;
- Thin wetting films and wetting phenomena;
- Surfactant adsorption layers;
- Foam drainage and rheology of foams;
- “Smart” foams and emulsions;
- Industrial and medical applications of complex fluids based on thin liquid films.

Guest Editor

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About the Journal

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.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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