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# Liquid-Solid Interfacial Phenomena on Complex Surfaces

Guest Editors:

#### Prof. Dr. António Luis N. Moreira

Instituto Superior Técnico, University of Lisbon, Av. Rovisco Pais 1, 1049-001 Lisboa, Portugal

#### Dr. Ana Moita

 CINAMIL—Centro de Investigação Desenvolvimento e Inovação da Academia Militar, Academia Militar, Instituto Universitário Militar, Rua Gomes Freire, 1169-203 Lisboa, Portugal
IN+—Center for Innovation, Technology and Policy Research, Instituto Superior Técnico, Universidade de Lisboa, Avenida Rovisco Pais, 1049-001 Lisboa, Portugal

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## Message from the Guest Editors

#### Dear Colleagues,

Liquid-solid interfacial phenomena play a paramount role in numerous applications within various fields, from industrial cooling to biomedical applications. Liquid cooling processes, particularly those relying on liquid phase change, strongly depend on the surface properties. Within this scope, great effort has been put toward the development of complex surfaces with custom-made topographic and wetting characteristics to enhance heat and mass transfer. Major applications address pool and flow boiling heat transfer enhancement at both the macro and micro scale, as well as biomedical applications in socalled labs-on-chips. While significant advances in microand nano-fabrication techniques have allowed the development of numerous strategies for the manufacturing of complex surfaces with custom-made wetting properties, the accurate description of the governing transport phenomena and of the appropriate wetting models has not yet been achieved, and still requires significant numerical and experimental work...



**Special**sue





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#### **Editor-in-Chief**

#### Prof. Dr. Sergei Odintsov

1. Institució Catalana de Recerca i Estudis Avançats (ICREA), Passeig Luis Companys, 23, 08010 Barcelona, Spain 2. Institute of Space Sciences (ICE-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

#### Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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