Special Issue

Fabrication and application of micro/nano-textured surfaces

Message from the Guest Editors

A micro/nanotextured surface is a surface which is covered with micro/nanosized structures. Generally, the geometrical architectures (i.e., surface roughness micro/nanosized structures) greatly determine the physical properties of solid surfaces. Especially for micro/nanotextured surfaces, these properties include hydrophobic/hydrophilic, antifouling, and anticorrosion. Micro/nanosized structures are currently gaining popularity because of their special applications due to their unique physical properties. In nature, we have found the micro/nanotexture of naturally occurring surfaces such as cicada and dragonfly wings, lotus leaves, shark skin, etc. For example, the micro and nanoscale hierarchical structure on lotus leaves is responsible for their unique superhydrophobic and self-cleaning properties. The discovery of these structures and their various resulting properties has led to a large research focus in mimicking the surface structure of these naturally occurring surfaces to reproduce their behaviors. This Special Issue will cover but not be limited to micro/nanotextured surfaces fabrication (including novel approaches), characterization and applications.

Guest Editors

Prof. Dr. Chang-Hwan Choi

Department of Mechanical Engineering, Stevens Institute of Technology, Hoboken, NJ, USA

Prof. Qing Wang

Director of Institute of Nanoengineering, College of Civil Engineering and Architecture, Shandong University of Science and Technology, 579 Qianwangang Road, Qingdao 266590, China

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Micromachines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
micromachines@mdpi.com

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Prof. Dr. Ai-Qun Liu
Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China

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