# Special Issue

# Microscopy Techniques in Advanced Materials

## Message from the Guest Editors

This Special Issue is dedicated to scanning probe microscopy (SPM) applications in the field of materials science. The SPM technique allows us to measure, visualize, and determine the properties of materials in the nanoscale. Research articles are welcomed that focus on any of the following topics: nanoparticles and nanocomposites used for signal increasing in SPMs, probe modification and the use of different kinds of probes, and the representation of data analysis obtained by such techniques. The characterization of polymers, biological samples, hard/soft surfaces, and new techniques can offer new possibilities for manipulating and detecting data in different ranges of speed and accuracy at the microscale. Therefore, research regarding the accurate positioning and manipulation of nano- and micro-sized objects by micro-robotics, micro-grippers, micro-electromechanical systems, etc., are also welcomed. In addition, articles related to biological and nonbiological material analyses using various microscopy techniques, such as light, fluorescence, confocal, etc., together with any advanced tools, and algorithms for visual data analysis will be considered in this issue.

## Guest Editors

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## Deadline for manuscript submissions

closed (20 December 2022)

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# About the Journal

## Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

## Editor-in-Chief

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