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SPM in Materials Science

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

This special issue will focus on recent advances in the field of materials science and engineering facilitated by the use of scanning probe microscopy (SPM) instrumentation and methodologies. Example of topics within the scope of this issue include; studies of the nanoelectronic and magnetic properties of materials, nanoscale dynamic mechanical properties of materials, single cell mechanics and mechanotransduction, integration of SPM with chemical characterization techniques, atomic manipulation, high resolution imaging of biological materials and engineered tissues, nanoscale tribology, friction, lubrication, wear, nanoscale adhesion, atomic force microscope-based nanoindentation, single molecule force spectroscopy, and spatially specific nanomechanics.

Dr. Christine Ortiz
Guest Editor



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Special issue



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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.

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