Special Issue

Applications of Scanning Probe Microscopy (SPM)-Methods in Materials Science

Message from the Guest Editor

The inventions of scanning tunneling microscopy (STM) in 1980 and atomic force microscopy (AFM) in 1985 revolutionized the nano-scale characterization of materials surfaces. While the application of STM is limited to conductive materials, AFM can be applied on virtually any materials, from soft (living cells, tissues, gels, and polymers) to hard (metals, ceramics, and glasses). SPM is now an unavoidable tool to characterize the response of materials and devices to various solicitations with nanometer resolution and beyond. We invite researchers to contribute to the Special Issue on "Applications of Scanning Probe Microscopy (SPM)—Methods in Materials Science". This Special Issue is intended to serve as a forum covering recent developments and applications of SPM in the field of materials science.

Guest Editor

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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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