Special Issue

Metallic Nanowires and Their Applications

Message from the Guest Editors

Metallic nanowires are unique materials in the large family of plasmonic nanostructures. First of all, they exhibit plasmon resonance, which is rather broad, covering the visible spectral range and even stretching out to the infrared. In addition, their tens-of-microns lengths facilitate efficient propagation of energy via surface plasmon polaritons over distances much larger than the optical resolution of microscopy systems. This property allows for remote optical addressing and readout, as well as photoactivation of light-dependent processes. Last, but not least, the positions of the nanowires can be determined with relatively simple optical systems, making them applicable as geometric platforms. The combination of all three characteristics of metallic nanowires has led to a multitude of fundamental and applied research, with the latter focusing primarily on optoelectronics, photovoltaics and sensorics. Therefore, we invite you to submit manuscripts for this Special Issue. Full papers, communications, and reviews are all welcome.

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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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