

Special Issue on
**Nanoscale Building Blocks of Metamaterials and
Metasurfaces**

CALL FOR PAPERS

Metamaterials and metasurfaces (MM/MS) are rationally designed structures with macroscopic properties that arise from their geometric configuration, in addition to their underlying chemical composition. MM/MS offer unprecedented control of the emission, propagation, and absorption of electromagnetic radiation—from microwave to UV frequencies—as well as mechanical vibrations. The successful realization of MM/MS requires the judicious choice of constituent materials and fabrication processes and often pushes the limits of conventional material and processing technology.

In this Special Issue of the Journal of Nanomaterials, we seek submissions pertaining to the nanoscale building blocks of MM/MS. We welcome manuscripts reporting the theory, design, simulation, synthesis, fabrication, characterization, analysis, and optimization of nanomaterials and nanostructures for MM/MS. We encourage submissions with applications across domains, from electromagnetics and optics, to mechanics and acoustics, and chemistry and biology. Review articles are also welcomed.

Potential topics include but are not limited to the following:

- ▶ Analytical design of MM/MS incorporating nanoscale components
- ▶ Numerical simulation of MM/MS incorporation nanoscale components
- ▶ Computational design of novel materials for use in MM/MS
- ▶ Synthesis and fabrication of nanoscale components for MM/MS
- ▶ Novel techniques for nanostructuring MM/MS
- ▶ Techniques for characterizing nanoscale components of MM/MS
- ▶ New applications emerging from MM/MS enabled by nanomaterials

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jnm/nbbm/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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