



## Hyperbolic Metamaterials: Novel Phenomena and Applications

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### Message from the Guest Editors

Dear Colleagues,

Hyperbolic metamaterials are extremely anisotropic uniaxial materials, which behave like a metal in one direction and like a dielectric in the orthogonal direction. Hyperbolic metamaterials were originally introduced to overcome the diffraction limit of optical imaging. Soon thereafter, it was realized that hyperbolic metamaterials demonstrate a number of novel phenomena resulting from the broadband singular behavior of their density of photonic states. These novel phenomena and applications include super resolution imaging, new stealth technologies, enhanced quantum-electrodynamic effects, thermal hyperconductivity, superconductivity, and interesting gravitation theory analogues. This Special Issue will be devoted to the fast experimental and theoretical progress in this fascinating field.

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*Guest Editors*





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## Message from the Editor-in-Chief

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