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Hyperbolic Metamaterials: Novel Phenomena and Applications

Guest Editors:

Dr. Igor Smolyaninov
Department of Electrical & Computer Engineering, University of Maryland, College Park, MD 20742, USA

Prof. Dr. Vera Smolyaninova
Department of Physics, Astronomy and Geosciences, 8000 York Road, Towson, MD 21252, USA

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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.

Dr. Igor Smolyaninov
Prof. Dr. Vera Smolyaninova
Guest Editors

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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
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