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A metamaterial (from the Greek word $\mu\eta\tau\alpha$, meaning "beyond") is a material engineered to have a property that is not found in naturally occurring materials. They are made from assemblies of multiple elements fashioned from composite materials such as metals or plastics. The materials are usually arranged in repeating patterns, at scales that are smaller than the wavelengths of the ...

Metamaterial - Wikipedia

Negative-index metamaterial or negative-index material (NIM) is a metamaterial whose refractive index for an electromagnetic wave has a negative value over some frequency range.. NIMs are constructed of periodic basic parts called unit cells, which are usually significantly smaller than the wavelength of the externally applied electromagnetic radiation. The unit cells of the first ...

Negative-index metamaterial - Wikipedia

Professor Nikolay Zheludev is a world leader in the field of experimental nanophotonics and metamaterials. The new research fields of nanophotonics and metamaterials are closely interlinked.

Professor Nikolay Zheludev, PhD, DSc - Nanophotonics

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MEMBERSHIP OF PROFESSIONAL BODIES. 2018 - Chair of Publication Committee, IEEE Antennas and Propagation Society. 2015 - International advisory committee (IAC) of the Comin Labs project in France.

Prof Yang Hao - School of Electronic Engineering and

01 September 2010. In Fig. 1a of the version of this Review originally published, the graph labelled '2- μm -thick Si wafer' is that for a 10- μm -thick wafer.

Plasmonics for improved photovoltaic devices | Nature

REVIEW Plasmonic Photothermal Effects Based on Dynamic Optical Filtering Qiongchan Gu, Bowen Xu, Hang Zhao, Sheng Hu, Xiaoxiao Jiang, and Jiangtao Lv

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The optical properties of the Ag-Sb 2 S 3 nanoporous plasmonic absorbers depend weakly on the type of substrate. The Ag-Sb 2 S 3 nanoporous structure was fabricated on polyimide, SiO 2 and Si substrates by simultaneously co-sputtering Ag and Sb 2 S 3, see Fig. 1a. The resultant Ag-Sb 2 S 3 surface appears black to the eye, as shown in photos in Fig. 1a. The SEM images of the Ag-Sb 2 S 3 ...

Flexible omnidirectional and polarisation-insensitive

Plasmonic Switching and Encoding. Authors: George Rajna Comments: 73 Pages. Such plasmonic

resonances have significant roles in biosensing with ability to improve the resolution and sensitivity required to detect particles at the scale of the single molecule. [40]

viXra.org e-Print archive, Quantum Physics

Although SbSe₂-based layered compounds have been predicted to be high-performance thermoelectric materials and topological materials, most of these compounds obtained experimentally have been insulators so far.

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Fig. 1a illustrates the overall concept of the multi-channel f-PAS. BM in the human cochlear is naturally designed with an asymmetric trapezoidal shape that has numerous resonance frequencies by varying the width and thickness of the BM along the cochlea spiral, providing advantages of resonance-based sensing and frequency tuning capability (Fig. 1a-i).

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