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About the Center for Metamaterials and Integrated Plasmonics

A metamaterial (from the Greek word μετά meta, meaning "beyond" and the Latin word materia, meaning "matter" or "material") is any material engineered to have a property that is not found in naturally occurring materials. They are

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made from assemblies of multiple elements fashioned from composite materials such as metals and plastics. The materials are usually arranged in repeating ...

Metamaterial - Wikipedia

Metamaterials also offer the potential to create superlenses, which could allow

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imaging below the diffraction limit that is the minimum resolution that can be achieved by conventional glass lenses. Transformation optics is a technique that simplifies the modeling of optical devices by altering the coordinate system to control the trajectories ...

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Metamaterial cloaking is the usage of

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metamaterials in an invisibility cloak. This is accomplished by manipulating the paths traversed by light through a novel optical material. Metamaterials direct and control the propagation and transmission of specified parts of the light spectrum and demonstrate the potential to render an object seemingly invisible.

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