

Magnetolectric technology optical solar container

Then, electrical properties (ferroelectricity, piezoelectricity and conduction), magnetolectric couplings and optical effects (photovoltaic, photocatalytic, mechanical-optical, etc.) ...

A 3D metamaterial developed at Aalto University demonstrates an isotropic and resonant nonreciprocal magnetolectric (NME) response in the visible frequency range, enabling technologies such as true ...

Magnetolectric technology is also an interesting contender for more efficient, transportable power generation in beamed laser-power applications or for solar conversion in harsh environments like ...

Recently, we developed a solar control of magnetism, allowing the magnetic moment to be manipulated by sunlight instead of the magnetic field, current, or laser. Here, binary and ternary ...

Magnetolectric coupling, as a fundamental physical nature and with the potential to add functionality to devices while also reducing energy consumption, has been challenging to be probed in freestanding ...

In this article, we discuss recent progresses on the understanding of magnetolectric coupling mechanisms and the design of magnetolectric heterostructures guided by theory and ...

In particular, our symmetry analysis indicates the existence of a magnetolectric electro-optical effect, derived from the simultaneous presence of Berry curvature and magnetic moment, which requires ...



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