

“固体所青联会”第三十八期学术论坛

报告题目: Multifunctional magnetoplasmonic materials: Characterization and Application

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主办单位: 中科院固体物理研究所青年联合会

中科院青年创新促进会合肥物质科学研究院小组

报告摘要:

Multifunctional magnetoplasmonic ($\text{Au-Fe}_x\text{O}_y$) nanomaterials are characterized by some features of iron oxide and gold, such as surface chemistry, special optical properties, and superparamagnetic properties, which have helped to draw much attention to their catalytic, environmental, and biomedical applications. In this presentation, the state of the art of this rapidly developing field is described. We present the developments in different approaches to integrating the magnetic and plasmonic properties in a single nanoparticle with different morphological traits. Specific plasmonic and magneto-optical properties of magnetoplasmonic nanoparticles are explained; this information should shed light on the future development of multifunctional magnetoplasmonic nanomaterials.

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