

David Wei

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David Wei's team works to discover novel electronic and optical properties of metallic and semiconductor nanomaterials.

Biography

David Wei's team works to discover novel electronic and optical properties of metallic and semiconductor nanomaterials and their implications for electronics, photonics, energy, and biomedicine. A fundamental understanding of the structure-dependent localized optical properties of nanostructures with sub-10 nanometer resolution will lead to comprehensive knowledge of the surface plasmon-directed growth of novel anisotropic nanostructures, and design rules for the synthesis and fabrication of hybrid nanostructures with optimized properties for solar energy harvesting, conversion and storage, photocatalysis, and chemical and biological detection. These high impact, interdisciplinary projects combine analytical chemistry, physical chemistry, inorganic chemistry and materials science and engineering.

Industry Expertise

Chemicals

Areas of Expertise

Solar Energy Conversion, Surface Chemistry

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