

Advances and Prospects in Plasmonics

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This panel talk will focus on recent advances in plasmonics—the manipulation of light by metal nanostructures—and challenges and prospects for the next several years. We will discuss advances in (1) the synthesis, fabrication, and scaling of plasmonic structures and materials; (2) modeling of hybrid plasmonic systems and quantum plasmonics; (3) realization of plasmonic devices; and (4) a range of applications. We will also describe key growth areas for light-matter interactions at the nanoscale.

Teri W. Odom is Board of Lady Managers of the Columbian Exposition Professor of Chemistry and Professor of Materials Science and Engineering at Northwestern University. She is Executive Editor of ACS Photonics. She has received numerous awards, including the International Precious Metals Institute Carol Tyler Award, an NIH Director's Pioneer Award, and an MRS Outstanding Young Investigator Award.