Molecular Plasmonics: Nanoscale Sensing and Spectroscopy

Thursday, October 15, 2015 12:30 p.m.
Iowa Advanced Technology Center (IATL)
Conference Room, 104

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Professor of Biomedical Engineering,
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Abstract

Professor Van Duyne discovered surface-enhanced Raman spectroscopy (SERS), invented nanosphere lithography (NSL), and developed ultrasensitive nanosensors based on localized surface plasmon resonance (LSPR) spectroscopy. His research interests include all forms of surface-enhanced spectroscopy, plasmonics, nanoscale biosensors, atomic layer deposition (ALD), atomic force microscopy (AFM), scanning tunneling microscopy (STM), ultra-high vacuum (UHV) STM, UHV-tip-enhanced Raman spectroscopy (UHV-TERS), and surface-enhanced femtosecond stimulated Raman spectroscopy (SE-FSRS).


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