Plasmonics: Fundamentals and Applications

Stefan Alexander Maier 2007-01-01 Consider a major field of photonics, plasmonics offers the potential to create and guide light below the diffraction limit and promises a new generation of highly miniaturized photonic devices. This book is committed to providing an in-depth overview and the current state of the field. Coverage includes plasmonics, waveguides, cavity opto-electronics, nano-photonics and the emerging field of active plasmonics stimulating interactions of surface plasmons with active media.

Surface Plasmons on Smooth and Rough Surfaces and on Gratings - Haozhe Barankovitch 2008-04-18 This book reviews the properties of plasmonic systems that deposit electromagnetic surface waves or surface plasmon polaritons. These systems, whether smooth or corrugated, are very significant in a variety of applications. In the latter case, the corrugations can help to strongly couple the surface plasmon polaritons in the far-field with electromagnetic fields. The authors have included a variety of applications in plasmonics, including surface-enhanced Raman scattering was discovered. Nevertheless, it is in this last decade that a very significant explosion of applications for plasmonics has occurred. A number of surface plasmon polariton systems have been described, including those plasmonic antennas on metal nanoparticles, plasmonics and nanotechnology.

Handbook of Surface Plasmonics - Richard B. M. Schwartz 2017-07-30 Surface plasmon resonance (SPR) plays a dominant role in real-time interaction sensing of biomolecular binding events, this book provides a total system description including optics, electronics and sensor surfaces for a wide-range of sensor users.

Modern Introduction To Surface Plasmonics

Modern Introduction To Surface Plasmonics - Irina 2010-09-05 The book introduces graduate students in physics, optics, materials science and electrical engineering to surface plasmon, and applications of surface plasmon physics.

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The book discusses various applications of optics in materials research. Each chapter of the book has a problem and reference section to facilitate the reader’s understanding. The book is aimed at assisting materials scientists and engineers who want to become experts in the design and optimization of materials.

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Chemical Functionalization of Carbon Nanomaterials

Chemical Functionalization of Carbon Nanomaterials

Nanoplasmonics

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Optically Induced Nanostructures

Optically Induced Nanostructures

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