



Active Plasmonics and Tuneable Plasmonic Metamaterials (A Wiley-Science Wise Co-Publication)

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This book, edited by two of the most respected researchers in plasmonics, gives an overview of the current state in plasmonics and plasmonic-based metamaterials, with an emphasis on active functionalities and an eye to future developments. This book is multifunctional, useful for newcomers and scientists interested in applications of plasmonics and metamaterials as well as for established researchers in this multidisciplinary area.

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Editorial Review

From the Back Cover

Provides an overview of the current and future states of plasmonics and plasmonic-based metamaterials, with an emphasis on active functionalities

Plasmonics refers to the science and technology of manipulating electromagnetic signals by coherent coupling of photons to free electron oscillations at the interface between a conductor and a dielectric. Over the last ten years, this research field has emerged as an extremely promising technology with several fields of application such as information technology, energy, high-density data storage, life sciences, and security.

Active Plasmonics and Tuneable Plasmonic Metamaterials provides a collection of authoritative reviews in plasmonics from the most well-respected scientists in this fast-growing and technologically important field. It covers active plasmonics functionalities in waveguide-based systems as well as metamaterials with an emphasis on electric-field and optically-driven integrated plasmonic sources, nonlinear plasmonic elements, tuneable plasmonic metamaterials, and plasmonic nanolasers.

Chapter coverage includes:

- Spaser, Plasmonic Amplification, and Loss Compensation
- Nonlinear Effects in Plasmonic Systems
- Plasmonic Nanorod Metamaterials as a Platform for Active Nanophotonics
- Transformation Optics for Plasmonics
- Loss Compensation and Amplification of Surface Plasmon Polaritons
- Controlling Light Propagation with Interfacial Phase Discontinuities
- Integrated Plasmonic Detectors
- Terahertz Plasmonic Surfaces for Sensing
- Subwavelength Imaging by Extremely Anisotropic Media
- Active and Tuneable Metallic Nanoslit Lenses

Ideal for researchers and students in the fields of plasmonics, photonics, and nanotechnology, this book describes in depth the road already traveled in plasmonics and the future possibilities of this rich and vital technology.

About the Author

ANATOLY V. ZAYATS, PhD, is Professor of Experimental Physics and the Head of the Experimental Biophysics and Nanotechnology Group at King's College London. He also leads the UK EPSRC research program on active plasmonics. He is a Fellow of the Institute of Physics, the Optical Society of America, and SPIE.

STEFAN MAIER, PhD, is the Co-Director of the Centre for Plasmonics and Metamaterials at Imperial College London. He was the recipient of the 2010 Sackler Prize in the Physical Sciences and the 2010 Paterson Medal of the Institute of Physics. A Fellow of the OSA and Institute of Physics, Dr. Maier has published over 130 journal articles in the area of nanoplasmonics, and is a frequent invited speaker at international conferences.

Users Review

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David Hogan:

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