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Plasmonics has already revolutionized molecular imaging, cancer research, optical communications, sensing, spectroscopy, and metamaterials development. This book is a collective effort by several research groups to push the frontiers of plasmonics research into the emerging area of harnessing and generation of photon angular momentum on micro- and nanoscales. It offers a glimpse into the ongoing research efforts to develop new types of plasmonic vortex–pinning platforms and chiral nanostructures for light harvesting, bio(chemical) sensing, drug discovery, and nanoscale energy transfer.

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Editorial Review

Review

"This book admirably illustrates the richness and fascinating physics of chiroptical effects in light scattering and of plasmonic vertical effects, including the generation of twisted light and concentration of light via nanoscale vortices 'pinned' to metallic nanostructures."

?Prof. Federico Capasso, Harvard University, USA

"This book provides excellent and comprehensive discussions of the rapidly emerging field of chiral nanoplasmonics and will undoubtedly serve as the standard reference for many years to come."

?Prof. Peter Nordlander, Rice University, USA

"This book reveals the beauty of optical phenomena associated with the twisting of photons and plasmons and introduces the readers to the state-of-the-art toolbox in theory and experiments to explore this exciting area."

?Prof. Nicholas X. Fang, Massachusetts Institute of Technology, USA

"This book goes a long way in making the emerging field of singular and chiral nanoplasmonics accessible to a broad audience!"

?Prof. Mikael Käll, Chalmers University of Technology, Sweden

"This timely book brings the most up-to-date concepts on the interaction between structured light and nanostructured matter in this rapidly evolving field."

?Prof. Vladimir M. Shalaev, Purdue University, USA

"Recent years have seen a burgeoning interest in the field of plasmonics. This book brings together contributions from several groups of international researchers who succeed in capturing and conveying the excitement associated with two specific aspects of plasmonics-enhanced light-matter interactions: chiro-optical effects and vortical effects. These effects are carefully elucidated in 15 highly specialized chapters. Concepts are well illustrated with figures and images and the text is supported, when necessary, by detailed mathematics. The target audience is probably advanced researchers, but the price point is very reasonable. This is a challenging read but the rewards are considerable. For example, the future of interdisciplinary research?from light harvesting to drug discovery?is treated in this volume."

?K. Alan Shore, Bangor University School of Electronic Engineering, Wales, UK

About the Author

Svetlana V. Boriskina is a research scientist at the Massachusetts Institute of Technology, USA. She

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Nikolay I. Zheludev is a professor of physics at the University of Southampton, UK. He directs the Centre for Photonic Metamaterials at Southampton University, UK and the Centre for Disruptive Photonic Technologies at Nanyang Technological University, Singapore. Prof. Zheludev received his MSc, PhD, and DSc from Moscow State University, Russia.

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