

## New Material Platforms & Metasurface Designs for Plasmonics and Quantum Photonics

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### Abstract

We outline the recent progress in the development of novel plasmonic materials and their applications in nano-optics, plasmonics, and quantum photonics. In particular, we will discuss the advances in the fields of refractory plasmonic devices, metasurface designs, and room-temperature quantum photonics with color centers in diamond.

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*All staff and students are invited to attend.*



**Professor Vladimir M. Shalaev**

Vladimir M. Shalaev, Scientific Director for Nanophotonics at Birck Nanotechnology Center and Distinguished Professor of Electrical and Computer Engineering at Purdue University, specializes in nanophotonics, plasmonics, and optical metamaterials. Vladimir M. Shalaev has received several awards for his research in the field of nanophotonics and metamaterials, including the Max Born Award of the Optical Society of America for his pioneering contributions to the field of optical metamaterials, the Willis E. Lamb Award for Laser Science and Quantum Optics, Rolf Landauer medal of the ETOPIIM (Electrical, Transport and Optical Properties of Inhomogeneous Media) International Association, the UNESCO Medal for the development of nanosciences and nanotechnologies and IEEE Photonics Society William Streifer Scientific Achievement Award. He is a Fellow of the IEEE, APS, SPIE, MRS and OSA. Prof. Shalaev has authored three books, twenty-eight invited book chapters and over 400 research publications.

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