



## Integrated Plasmonic Devices

Guest Editors:

**Dr. Satyendra Mishra**

Department of Electrical Engineering and Computer Engineering, Laval University, Québec, QC G1V 0A6, Canada

**Dr. Akhilesh Kumar Mishra**

Department of Physics, Indian Institute of Technology Roorkee, Roorkee 247667, Uttarakhand, India

**Dr. Samir Kumar**

Department of Electronics and Information Engineering, Korea University, Sejong 30019, Korea

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### Message from the Guest Editors

The unique optical properties of surface plasmons (SPs) have led to many important applications in multidisciplinary fields, such as chemistry, biology, materials, renewable energy, and information sciences and technologies. Plasmonic sensors, stemming from the local electromagnetic (EM) field enhancement and the ultra-sensitivity of surface plasmon resonance (SPR) to the surrounding medium, have seen prosperous growth in recent years. Plasmonics can remarkably enhance the interaction strength between photons and materials, spurring the fast-growing developments of plasmon-enhanced fluorescence, Raman spectroscopy, heat generation, photoacoustics, photocatalysis, nonlinear optics, solar energy conversion, and so on.

- Plasmonic meta-surface
- Fiber-optic-based plasmonic sensor
- Surface-enhanced Raman scattering (SERS)
- Surface-enhanced infrared absorption
- Plasmonic based devices
- Plasmonic-enhanced light-matter interactions

