

Research Institute of Physics

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Publications

Article

Nanometer-scale confinement of whispering gallery plasmonic modes upon slit excitation

Henrik Parsamyan, Roza Gabrielyan, Gurgen Arabajyan, Hovhannes Haroyan, Khachatur Nerkararyan

Nanoscale Advances 2026 1314 - 1321

<https://pubs.rsc.org/en/content/articlelanding/2026/na/d5na00985e>

Article

Slotted gap-surface plasmon resonator as an efficient platform for sensing

Roza Gabrielyan, Gurgen Arabajyan, Torgom Yezekyan, Henrik Parsamyan

Optics Express 2025 2593-2603

Article

Quasi-bound states in the continuum in finite waveguide grating couplers

Roza Gabrielyan, Torgom Yezekyan, Sergey I. Bozhevolnyi

Nanophotonics 2025 4053-4061

Conference

Engineering Electromagnetic Hotspots in Gap-Surface Plasmon Resonators

Henrik Parsamyan, Roza Gabrielyan, Gurgen Arabajyan, Torgom Yezekyan

2024 72 - 73

<https://indico.cern.ch/event/1400449/overview>