

Plasmon-Empowered Nanophotonics: from Circuitry to Metasurfaces

Tuesday, 30 August 2022 11:30 (30 minutes)

Latest developments in nanophotonics associated with advantageous use of surface plasmon polaritons, hybrid excitations involving free electron oscillations in metals and electromagnetic fields in dielectrics, are overviewed. Special attention is given to the progress in ultra-compact photonic circuitry, including modulators and detectors, and plasmonic metasurfaces dynamically controlling propagation of light.

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Session Classification: FWD 1 Planar waveguide devices