



Contribution ID: 71

Type: **Poster**

Plasmonic Lightning-rod Effect

Our study deals with experimental and theoretical research on the plasmonic lightning-rod effect. Electron energy loss spectroscopy has been used to investigate the electromagnetic response of plasmonic antennas and to study the impact of the curvature of their surfaces on the local enhancement of an electromagnetic field. A systematic growth of the field enhancement with the increasing local curvature of a plasmonic antenna has been observed representing the quantified manifestation of the plasmonic lightning-rod effect.

Primary author: REPA, Rostislav (Brno University of Technology, Institute of Physical Engineering)

Co-authors: Mr FOLTÝN, Michael (Brno University of Technology, Institute of Physical Engineering); HORÁK, Michal (Brno University of Technology); ŠIKOLA, Tomáš (Brno University of Technology); KRÁPEK, Vlastimil (Brno University of Technology)

Presenter: REPA, Rostislav (Brno University of Technology, Institute of Physical Engineering)

Session Classification: Posters

Track Classification: Topics: Optoelectronics and nanophotonics