

Dmitri Basov

Columbia University, USA

db3056@columbia.edu

Plasmonic Nanostructures

In this talk I will discuss recent experiments on nano-imaging of plasmon polaritons in graphene-based nanostructures. The focus will be on controlling nano-optical phenomena with the electric field. We implemented several variants of photonic crystals for plasmon polaritons [Xiong et al. Nature Communications 10, 4780 (2019) and Science 362, 1153 (2018)]. I will also discuss recent progress in multi-messenger nano-imaging recently implemented in our laboratory (Nature Materials 2020 <https://doi.org/10.1038/s41563-019-0533-y>).