

Ponomarev Ivan — 24 years old, postgraduate student, intern researcher at IMET RAS. He entered the Dmitry Mendeleev University of Chemical Technology of Russia in 2016 with a training profile 18.05.02 at the department “Technology of Rare elements and Nanomaterials based on them” on full-time education on a budget basis. He defended his graduate qualification work “Synthesis of nanostructured composite graphene-CeO₂” which he performed at IMET RAS (since November 2020), with honors, and received the qualification of “engineer of chemical technology” in 2022. Currently he is studying at the 1st year of the postgraduate course of IMET RAS in the training profile 6.2.5 Powder metallurgy and composite materials.

His research interests include nanopowders of rare metal oxides, in particular ceria, fine-grained ceramics based on them, as well as hybrid nanostructures based on graphene.

He has experience in the production of oxygen-free graphene, the synthesis of metal oxide nanopowders by sol-gel method, as well as the synthesis of nanostructured composites based on oxygen-free graphene and metal oxides.

The obtained results of his practical work were published in the form of 1 article in the publication from the list of the Higher Attestation Commission and 1 article in the of Scopus and WoS publications, and were also presented by himself at 10 Russian conferences with international participation. Based on the conference materials 13 theses were published. The results were also presented in “Technosreda 2021 exhibition” at Exhibition of Achievements of National Economy. Also he is a co-author of the Russian patent for the invention RU 2790846 C1 (2023), A method for producing nanostructured composites based on oxygen-free graphene and aluminum or cerium oxides. He was repeatedly awarded with diplomas for the best reports at conferences.