

## AFZAL ASYA MOKHAMMADOVNA

### Education:

- In 2019, I graduated from the Bachelor's degree in RUDN with a degree in 04.03.01-Chemistry, defended with honors diploma on the topic "Synthesis and physico-chemical properties of nanostructured composite powder based on oxygen-free graphene and ZrO<sub>2</sub>"; the work was performed at IMET RAS.

- In 2021, I completed my master's degree at the RUDN University in the direction 04.04.01-Chemistry with a diploma with honors, successfully defended my master's thesis on the topic "Development of a method for producing composite powders based on graphene and ZrO<sub>2</sub> for fine-grained ceramics" and was awarded a diploma of the Student Research Council for the best thesis of the I degree (RUDN, June 29, 2021); the work was performed at IMET RAS.



### Professional activity:

- Currently, I am a 2nd year postgraduate student at IMET RAS in the direction 06.22.01-Materials Technology and am preparing a PhD thesis on the topic "Obtaining fine-grained ceramics from composite nanostructured powders based on graphene and zirconium oxide", the experimental basis of which I developed earlier.

- I am an employee of IMET RAS as a research engineer, a specialist in the field of synthesis of nanostructures.

### Main scientific achievements:

- The results of my scientific activity have been published in the form of **9 articles** in Russian and international journals (RSC Nanoscale Advances, Fullerenes Nanotubes and Carbon Nanostructures, RSC New Journal of Chemistry, Materials, Inorganic Materials: Applied Research) and **27 theses**; 4 articles are included in the Q1 journals, 1 article – in the Q2 journal, 2 articles – in the journals of the Higher Attestation Commission.

**h-index:** Scopus, WoS – 2, RSCI – 2.

- I presented the results of the work at 6 international, 5 Russian conferences as the poster and oral presentations, as well as at a scientific and technical seminar held at MIREA and "Technosreda 2021" exhibition; oral and poster presentations were awarded: **diploma of the III degree LXX** of the open international student scientific conference "SSC-2020" within the framework of the 155th anniversary of Moscow Polytechnic University, **diploma of the winner** of the XVII Russian Annual Conference of Young Researchers and Postgraduates "Physico-chemistry and technology of inorganic materials", **diploma for the best oral presentation** presented within the framework of the XVIII Russian Annual Conference of Young Researchers and Postgraduates "Physico-chemistry and technology of inorganic materials", SuperJob Agency **certificate** No. 2234734924.

- **2 patents** for the invention of the Russian Federation (RU 2788977 C1, 2023 and RU 2790846 C1, 2023) have been obtained, an **application** (register №2023107319 dated 28.03.2023) has been filed.

- I am a laureate of the **scholarship** of the President of the Russian Federation (01.09.2020-31.08.2021).

- I was **twice** awarded a state academic **scholarship** to students for special achievements in research activities (01.03.2020-30.06.2020, 01.02.2021-31.04.2021).

- I am the **head of the grant** under the "UMNIK" program (2022-2023) and the **head of the grant** within the framework of the "Young Scientists 2.0" competition (2023).

- I am a **performer under grants**: RFBR No. 19-03-00554\_a (2019-2021), RSF No. 20-19-00514 (2020-2022), RSF No. 23-19-00413 (2023-2025).