

# Dmitry Grebenyuk

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## Education

<b>Lomonosov Moscow State University</b> , PhD, Inorganic Chemistry Thesis: «Coordination polymers and polynuclear clusters based on aliphatic rare earth carboxylates»	2018 – 2022
<b>Lomonosov Moscow State University</b> , MSc cum laude, Chemistry	2012 – 2018

## Experience

<b>Senior Lecturer</b> , Faculty of Materials Science, Shenzhen MSU-BIT University	2023 – Present
<b>Engineer</b> , Department of Chemistry, Lomonosov Moscow State University	2019 – 2023
<b>Teaching Assistant</b> , Faculty of Materials Science, Shenzhen MSU-BIT University	2019 – 2023
<b>PhD Student</b> , Department of Chemistry, Lomonosov Moscow State University	2018 – 2022

## Selected Publications

- **Grebnyuk, D.**, Shaulskaya, M., Shevchenko, A., Zobel, M., Tedeeva, M., Kustov, A., Sadykov, I., Tsymbarenko, D. Tuning the Cerium-Based Metal–Organic Framework Formation by Template Effect and Precursor Selection. *ACS Omega* **2023**, 8 (50), 48394–48404.
- Tsymbarenko, D., **Grebnyuk, D.**, Burlakova, M., Zobel, M. Quick and robust PDF data acquisition using a laboratory single-crystal X-ray diffractometer for study of polynuclear lanthanide complexes in solid form and in solution. *J. Appl. Cryst.* **2022**, 55, 890–900.
- **Grebnyuk, D.**, Zobel, M., Polentarutti, M., Ungur, L., Kendin, M., Zakharov, K., Degtyarenko, P., Vasiliev, A., Tsymbarenko, D. A Family of Lanthanide Hydroxo Carboxylates with 1D Polymeric Topology and  $\text{Ln}_4$  Butterfly Core Exhibits Switchable Supramolecular Arrangement. *Inorg. Chem.* **2021**, 60 (11), 8049–8061.

Full list available at: [scholar.google.com](https://scholar.google.com)

## Skills & Expertise

**Research:** Lanthanide coordination chemistry, Metal–organic frameworks, Crystallography (SC-XRD, PXRD), Total scattering and PDF analysis, Synchrotron beamtime (Diamond, Elettra, ESRF)

**Computing:** Python, Machine learning for structure prediction from PDF data, DFT & molecular simulations (VASP, RASPA), High-performance computing, Crystallographic software (SHELX, Olex2)

**Languages:** Russian (native), English (fluent), Mandarin Chinese (HSK4)

## Teaching & Supervision

- Developed and taught undergraduate course "Introduction to Chemistry" (co-authored course textbook)
- Taught seminars and laboratory sessions for "Comprehensive Inorganic Chemistry" (undergraduate), lectures for "History of Materials Science" (postgraduate)
- Supervised 20 thesis projects on MOFs and luminescent materials; 14 students continued to graduate programs