Dimitry Grebenyuk

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Education

Lomonosov Moscow State University, PhD, Inorganic Chemistry — 2018 – 2022
Thesis: «Coordination polymers and polynuclear clusters based on aliphatic rare earth carboxylates»

Lomonosov Moscow State University, MSc cum laude, Chemistry — 2012 – 2018

Experience

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

Selected Publications

- **Grebenyuk, 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., **Grebenyuk, 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.
- **Grebenyuk, 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 Ln_4 Butterfly Core Exhibits Switchable Supramolecular Arrangement. *Inorg. Chem.* **2021**, *60* (11), 8049–8061.

Full list available at: 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 courses: "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 19 thesis projects on MOFs and luminescent materials; 14 students continued to graduate programs