

Egor Novikov

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Education

PhD in Chemical and Biomolecular Engineering

Years of education: 2024 – now

University: University of California, Irvine

MS in Chemistry

Years of education: 2022 – 2024

University: New Mexico Highlands University, Las Vegas, NM

MS in Chemical Technology

Years of education: 2018 - 2020

University: Higher School of Technology and Energy, St. Petersburg State University of Industrial Technology and Design, St. Petersburg, Russia

BS in Chemistry

Years of education: 2014 - 2018

University: Higher School of Technology and Energy, St. Petersburg State University of Industrial Technology and Design, St. Petersburg, Russia

Teaching & Advising

Teaching Assistant

February, 2022 – 2024

Department of chemistry, New Mexico Highlands University, Las Vegas NM

- *Lab preparation and teaching a section of instrumental analysis, a course of general chemistry II, analytical chemistry, chemistry lab 7, and thermodynamics*
- *Grading lab notebooks and reports*

Publications

- Koksharov, A.V.; Derkacheva, O. Y.; Sukhov, D. A.; **Novikov, E. M.**; Leiman, V. I. Variation of Parameters of Organochlorine Compounds, Whiteness, and Absorption Spectra During Multistage Bleaching of Cellulose. *Fibre Chemistry*. **2018**, 50, 215-218
- Koksharov, A.V.; Derkacheva, O. Y, **Novikov, E. M.** Evaluation of the AOX Parameter in Sulphate Hardwood Bleached Pulp from the IR Spectra. *www. issledo.ru Editorial board*. **2018**, p.47
- Marquez, J.: **Novikov, E.**; Rigin, S.: Fonari, S, M.; Castañeda, R.; Kornilova, T.; Timofeeva, V, T. Exploiting Supramolecular Synthons in Cocrystals of Two Racetams with 4-Hydroxybenzoic Acid and 4-Hydroxybenzamide Coformers. *Chem*. **2023**, 5(2), 1089-1100.
- Gogia, A.; **Novikov E. M.**; Guzei, I. A.; Fonari, M. S.; Timofeeva, T. V. Crystal structure and characterization of a new one-dimensional copper (II) coordination polymer containing a 4-aminobenzoic acid ligand. *Acta Cryst*. **2024**, E80, 330-334.
- Yamba, Z.; Peoble, A.; **Novikov, M. E.**; Castañeda, R.; Tatiana V. T. Interplay of Isomorphs and Polymorphs of Amidino-Copper (II) Complexes with Different Halides. *Cryst*. **2024**, 14, 319.
- Shambilova, G. K.; Bukanova, A. S.; Kalauova, A. S.; Kalimanova, D. Z.; Abilkhayirov, A. I.; Makarov, I. S.; Vinogradov, M. I.; Makarov, G. I.; Yakimov, S. A.; Koksharov, A. V; **Novikov,**

- E. M.** An Experimental Study on the Solubility of Betulin in the Complex Solvent Ethanol-DMSO. *Processes*. **2024**, 12(6), 1179.
- Nijhuis, M. R.; Yamba, Z.; **Novikov, E.**; Fonari, M. S.; Timofeeva, T. V.; Castaneda, R. A Series of Zinc Mononuclear Complexes with Imidoyl Amidine Ligands: Syntheses, Crystal Structures, and Photoluminescence Properties. *Chemistry*. **2024**, 6(4), 760-772.
 - **Novikov, M. E.**; Nijhuis, M. R.; Izuchukwu E. C.; Adu-Effah, N.; Nduul, S. A.; Kutzner, J. A Closer Look at the Common Molar Mass Experiment. *J. Chem. Educ.* **2024**, 101(8), 3240–3245.
 - **Novikov, M. E.**; Campos, J. G.; Read de Alaniz, J.; Fonari, S. M.; Timofeeva, T. V. Synthesis, molecular and crystal structures of 4-amino-3,5-di-fluoro-benzo-nitrile, ethyl 4-amino-3,5-di-fluoro-benzoate, and di-ethyl 4,4'-(diazene-1,2-di-yl)bis--(3,5-di-fluoro-benzoate). *Acta Cryst.* **2024**, E80, 867-872.
 - **Novikov, M. E.**; Castaneda, R. A.; Fonari, M. S.; Timofeeva, T. V. A 1:1 flavone cocrystal with cyclic trimeric perfluoro-o-phenyl-enemercury. *Acta Cryst.* **2024**, E80, 717-720.

Work Experience

Senior process-engineer

KNAUF PETROBOARD

February 2020 – January 2021

(**Company production:** paperboard from wastepaper in different variations including coated cardboard)

- management Compliance with the requirements of local and world standards in the field of quality control of finished products and raw materials;
- Develop new strategy of paperboard production;
- Lead projects cost saving;
- Leading projects of reconstruction;
- Lead the process of paperboard production;
- Solve problems of technological processes;
- Increase of product quality;
- Create technological documentation according standard like ISO 9001:2015;
- Compliance with the work schedule of employees of the quality department.

Lead engineer of quality department

KNAUF PETROBOARD

February 2021 – January 2022

(**Company production:** paperboard from wastepaper in different variations including coated cardboard)

- Develop new strategy of paperboard production;
- Lead projects cost saving;
- Leading projects of reconstruction;
- Lead the process of paperboard production;
- Solve problems of technological processes;
- Increase of product quality.

Process-engineer

Mondi

August 2018 – January 2020

(**Company production:** Pulp and Paper production)

- Lead the process of paperboard production;
- Lead the new trials to improve technological processes;
- Solve problems of technological processes;
- Increasing of product quality;
- Making and developing technological documentation according standard (ISO 9001:2015).

Process-engineer intern.

ILIM GROUP

June 2017 – August 2017

(Company production: Pulp and Paper production)

- Learning new technological processes;
- Development of documentation of pulp production;
- Making technological instruction.

Technical Skills

- Work with analytical instruments: FT-IR, UV-Vis, Single XRD, Fluorescent spectrometer, NMR, Raman spectroscopy
- Leading reconstructing projects documentations
- Skills of synthetic chemistry synthesis
- Analyse and refining structure in Olex 2
- Building graphs in origin and MestReNova
- Drawing structures in ChemDraw
- MS office especially Excel
- Industrial skills: working with equipment in pulp and paper making production
- Making technological schemes
- Managing laboratory and industrial trials

Languages

English, Russian

Internship and conferences

- 2022 Southwest Regional Meeting of the American Chemical Society in Baton Rouge, LA.
- 2022 MRS Fall Meeting & Exhibit in Boston, MA.
- 2022 New Mexico Research Symposium, in Albuquerque, NM.
- 2023 ACA Summer Course for Chemical Crystallography, in Northwestern University, IL.
- 2023 Summer internship in UC Santa Barbara, CA.
- 2024 American Chemical Society Spring New Orleans, Louisiana. March 17-21.
- 2024 High Energy X-ray Techniques (HEXT) Workshop, May 14-15, Cornell University, Ithaca, NY.