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FIELDS OF INTEREST

In situ and *operando* X-ray absorption spectroscopy of nanomaterials;
Catalysis; DFT;
Metal-Organic Frameworks;
Noble metals; Zeolites;
FTIR and Raman spectroscopies



LANGUAGES

Russian (native speaker)
English (upper intermediate)
Spanish (elementary)



EDUCATION

2018 – present PhD student, The Smart Materials Research Institute, Southern Federal University, Rostov-on-Don, Russia

PhD Project: “Formation of active metal centers in metal-organic frameworks by means of X-ray absorption spectroscopy and X-ray diffractions”

Supervisor: Prof. Alexander V. Soldatov

2016 – 2018 Master degree in Physics, The Smart Materials Research Center, Southern Federal University, Rostov-on-Don, Russia

2012 – 2016 Bachelor degree in Physics, Department of Physics, Southern Federal University, Rostov-on-Don, Russia



RESEARCH EXPERIENCE

2017 – 2022 Participated in over 10 experiments at synchrotron facilities
ESRF (France), Hamburg (Germany), KISI-Kurchatov (Russia), ALBA (Spain)

2019 – 2023 Head of the projects

RSF # 22-23-01007 (budget 3 M RUB)
FASIE # 340ГVЦЭC8-D3/56400 (budget 0.5 M RUB)
Haldor Topsoe # S-02363/ABUL (7,200 EUR)

2017 – present Projects executor

RFBR, RSF, FCPIR, Grants of Ministry of Education and Science, Grants of The President of the Russian Federation

Jan – Jun 2020 Long-term internship in Haldor Topsoe R&D (Denmark)

Project: “Computational study of the Raman spectra of Y zeolite”
Supervisor: Prof. Pablo Beato



PUBLICATIONS (*h*-index 5)

Tereshchenko, A. et al. *Inorg. Chem.*, 2022, 61, 9, 3875-38, [10.1021/acs.inorgchem.1c03340](https://doi.org/10.1021/acs.inorgchem.1c03340)

Usoltsev, O. et al. *Nanomaterials*, 2020, 10 (9), 1643, [10.3390/nano10091643](https://doi.org/10.3390/nano10091643)

Kirichkov, M. et al. *Metals*, 2020, 10 (6), 810, [10.3390/met10060810](https://doi.org/10.3390/met10060810)

Bugaev, A. et al. *ChemComm*, 2020, 56, 13097-13100, [10.1039/D0CC05050D](https://doi.org/10.1039/D0CC05050D)

Bugaev, A. et al. *Catalysis Today*, 2019, 336, 33-39, [j.cattod.2019.03.054](https://doi.org/10.1016/j.cattod.2019.03.054)

Skorynina, A. et al. *Radiation Physics and Chemistry*, 2019, 175, [j.radphyschem.2018.11.033](https://doi.org/10.1016/j.radphyschem.2018.11.033)

Bugaev, A. et al. *Data in Brief*, 2019, 25, 104208, [j.dib.2019.104280](https://doi.org/10.1016/j.dib.2019.104280)

Kamyshova, E. et al. *Radiation Physics and Chemistry*, 2019, 175, [j.radphyschem.2019.02.003](https://doi.org/10.1016/j.radphyschem.2019.02.003)

Bugaev, A. et al., *Metals*. 2018, 8(2), 135, [10.3390/met8020135](https://doi.org/10.3390/met8020135)



PATENT

RU190702U1 “Cell for spectral diagnostics” 23/04/2019



AWARDS

- RF Presidential Scholarship to study abroad in the academic year 2021/2022
- Scholarship of the Russian President (Russia, 2020)
- XXV General Assembly and Congress of the International Union of Crystallography - IUCr Bursary (Czech Republic, 2021)
- MOFSchool2019 Bursary (Italy, 2019 and 2021)
- Winner of Scholarship in the field of X-ray spectroscopy named M.A. Blokhin (Russia, 2020)
- Winner of Haldor Topsoe Program for PhD students (Russia, 2020)
- Scholarship of the Russian Federation Government (Russia, 2020, 2021)
- Individual scholarship of Rector of Southern Federal University (Russia, 2019)
- I Prize in SFedU Endowment Fund "Breakthrough of the Year 2019 - Scholarship for Young Scientists" (Russia, 2019)
- I Prize in Scientific conference "Design of multifunctional structures: theory and synthesis" (Russia, 2019)
- Travel Grants for participation in XFEL and DESY Users Meetings (Germany, 2019 and 2020)
- Special award "For excellent proposal prize" from the company "Haldor Topsoe" (Russia, 2019)
- III Prize at the International Workshop for Young Researchers "Smart Materials & Mega-Scale Research Facilities" (Russia, 2019)



ORAL CONTRIBUTIONS AT CONFERENCES

- International Workshop on Synchrotron and Neutron Radiation (IWSN 2021) 6-7.12.2021. Rostov-on-Don (Russia)
- XXV General Assembly and Congress of the International Union of Crystallography (IUCr 2021) 14-22.08.2021. Prague (Czech Republic)
- 5th All-Russian scientific conference "Actual problems of the theory and practice of heterogeneous catalysts and adsorbents" 30.06–02.07.2021. Kostroma (Russia)
- XXVII International scientific conference of students, graduate students and young scientists "Lomonosov-2020" 10-27.11.2020. Moscow (Russia)
- 3rd All-Russian Conference "Methods for studying the composition and structure of functional materials" (MISSFM-2020) 1-4.09.2020. Novosibirsk (Russia)
- Scientific conference "Design of polyfunctional structures: theory and synthesis" 04.2019. Rostov-on-Don (Russia)
- XI International Conference "Mechanisms of Catalytic Reactions" (MCR-XI) 7-11.10.2019. Sochi (Russia)
- 1st International School on Advanced Porous Materials (MOFSchool2019) 17-21.06.2019. Como (Italy)
- 7th International School for Young Researchers: "Smart Nanomaterials" IWSN2018. 04.2018. Rostov-on-Don (Russia)
- International Workshop for young researchers "Smart Materials & Mega-Scale Research Facilities". 10.2018. Rostov-on-Don (Russia)
- IX scientific conference of young scientists "Innovations in chemistry: achievements and prospective – 2018". 05.2018. Moscow (Russia)