

# Arseniy Burov, MSc

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## Research interests

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## Ongoing Research

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- ✎ Li-ion charge transfer at interface between solid-state electrolyte LLZO and metallic Li
- ✎ Study of surface reconstruction in  $\text{LiVPO}_4\text{F}$  cathode material.

## Education

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- 2020 – 2022    ✎ **Skolkovo Institute of Science and Technology** (Diploma with distinction)  
**Program:** Materials Science. MSc student.  
**Masters's thesis:** *DFT study of  $\text{Li}^+$  charge transfer at  $\text{Li}/\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$  interfaces*
- 2016 – 2020    ✎ **Moscow Institute of Physics and Technology (State University)**  
**Program:** Department of General and Applied Physics. BSc student.  
**Bachelor's thesis:** *The study of the atomic volumes of the chemical elements under pressure via first-principle calculations*

## Skills

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| <b>Languages</b>         | ✎ Russian (native), English (upper-intermediate), Deutsch (B1)   |
| <b>Knowledge</b>         | ✎ Quantum physics, computational chemistry, condensed matter physics, thermodynamics, density functional theory, materials science |
| <b>Programming</b>       | ✎ Python, C++, Linux, Fortran  |
| <b>Software packages</b> | ✎ VASP, FHI-aims, LAMMPS, ABINIT, WIEN2k   |

## Miscellaneous Experience

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### Relevant events

- 2021    ✎ **VI International Conference of Young Scientists 2021** “Solid state chemistry of battery materials”
- 2022    ✎ **International Scientific Student Conference 2022.** (Novosibirsk State University). Oral presentation “Computational modeling of  $\text{Li}/\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$  interfaces with low resistance”

## Miscellaneous Experience (continued)

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- 📖 **Baikal Materials Science Forum.** Oral Presentation “Computational modelling of Li<sup>+</sup> charge transfer at Li/Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub>”

### Awards and Achievements

- 2021 📖 **Industrial Immersion.** Best project in Materials Science
- 2022 📖 **International Scientific Student Conference 2022.** (Novosibirsk State University). Diploma of the 3<sup>rd</sup> degree
  
- 📖 **Skoltech’s MSc.** Best thesis project in computational Material Science track