

## Scientific projects

- **Research on the electronic structure and hyperfine parameters of the sigma phase of selected iron alloys** (Project of the Ministry of Science and Higher Education carried out in 2009-2012, settled based on 8 publications in peer-reviewed journals), project manager.
- **Research on the properties of the sigma phase in three-component systems containing iron** (NCN project implemented in 2013-2016, settled based on 5 publications in peer-reviewed journals and a chapter in a book), project manager.
- **Theoretical and experimental study of the influence of forming energy and temperature on the phase composition and properties of high entropy alloys obtained using an innovative method** (NCN project implemented in 2016-2021, settled based on 9 publications in peer-reviewed journals), project manager.
- **Designing functional properties of high-entropy spinels by analyzing their structure at the atomic level** (NCN project started in 2023, running), project manager.