Research Group for Structural Control of Materials and Spin Systems

- Modeling of Spin-Orbit Coupling Effect on Magnetization Dynamics
- Development of magnetic materials for spintronic devices
- Understanding of magnetic domain walls and interfaces
- Spin dynamics in magnetic nanostructures
- Applications of magnetic materials in data storage and spintronics

Ferromagnetic Materials
- First-principles calculations of magnetic properties
- Synthesis and characterization of novel magnetic materials
- Magnetic domain wall dynamics
- Spin-orbit torque effects in magnetic materials

Research Group for Superheavy Elements

- Discovery of superheavy elements
- Chemical and physical properties of superheavy elements
- Nuclear structure and stability
- Development of new methods for producing superheavy elements

Research Group for Actinide Materials Science

- Actinide chemistry and nuclear materials science
- Fuel cycle technologies
- Nuclear energy production and waste management
- Development of new actinide materials for nuclear applications