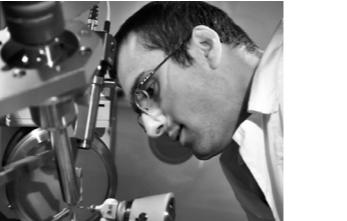


Laboratory for Structural Research



Head

Janusz Zachara

Current research

- Structural chemistry of lithium, sodium and magnesium salts and electrolytes for the use in rechargeable batteries
- The hierarchy of intermolecular interactions in crystal structures of boronic acids, their derivatives and co-crystals
- Structural, electronic and energetic studies of arsenic(III) oxide polymorphs and intercalates
- Structural studies of organometallic compounds containing main-group and transition metals
- Development of bond-valence vector model

Staff

Izabela Madura
Andrzej Ostrowski
Maciej Dranka
Piotr Guńka

Current PhD students

Piotr Guńka
Karolina Czerwińska
Michał Hapka

Former PhD students

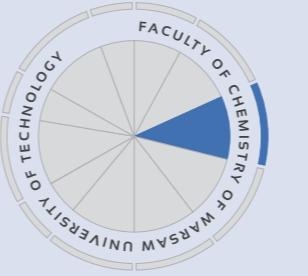
Monika Mazur

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Research profile

Structural chemistry
Inorganic chemistry
Crystal engineering
Periodic quantum mechanical computations
Single crystal X-ray diffraction
Powder diffraction
Rietveld analysis

Collaboration

Center for Advanced Radiation Sources,
The University of Chicago (USA) – Yu-Sheng
Chen

Faculty of Chemistry, Adam Mickiewicz
University (Poland) – Andrzej Katrusiak

Organometallic Synthesis Laboratory,
Faculty of Chemistry, University of Warsaw
(Poland) – Andrzej Katrusiak,

Faculty of Chemistry, Rzeszow University of
Technology (Poland) – Jan Kalemkiewicz

Research equipment

- Gemini A Ultra X-ray Diffraction System from Agilent Technologies
- Seifert HZG-4 Diffractometer for powder diffraction measurements
- High Pressure and High Temperature Equipment

