



Head

Stawomir Podsiadło

Current research

- Synthesis of novel environment friendly materials for photovoltaics and spintronics
- Synthesis of nanoparticles for electronics
- Single crystal growth of chalcogenides and nitrides for electronics

Selected publications

Bacewicz R., Antonowicz J., Podsiadło S., Schorr S., *Local Structure in $\text{Cu}_9\text{ZnSnS}_4$ Studied by the XAFS Method*, Solid State Communications, 177, 54, 2014

Podsiadło S., Białogłowski M., Matyszczyk G., Marek P., Gebicki W., Bacewicz R., Stachowicz M., Dłuzewski P., Wozniak K., *Synthesis of Bulk Kesterite - a Prospective Photovoltaic Material*, European Journal of Inorganic Chemistry, 2014, 4730, 2014

Zajac M., Gosk J., Kaminska M., Twardowski A., Szyszko T., Podsiadło S., *Paramagnetism and Antiferromagnetism d-d Coupling in GaMnN Magnetic Semiconductor*, Applied Physics Letters, 79, 2432, 2001

Gebicki W., Strzeszewski J., Kamler G., Szyszko T., Podsiadło S., *Raman Scattering Study of Ga_1-xMnxN Crystals*, Applied Physics Letters, 76, 3870, 2000

Zajac M., Gosk J., Grzanka E., Kaminska M., Twardowski A., Strojek B., Szyszko T., Podsiadło S., *Possible Origin of Ferromagnetism in $(\text{Ga,Mn})\text{N}$* , Journal of Applied Physics, 93, 4715, 2003

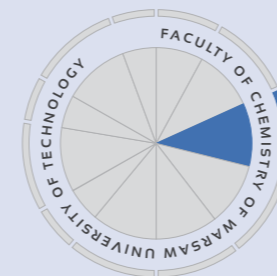
Paszkowicz W., Pelka J.B., Knapp M., Szyszko T., Podsiadło S., *Lattice Parameters and Anisotropic Thermal Expansion of Hexagonal Boron Nitride in the 10-297.5 K Temperature Range*, Applied Physics A: Materials Science and Processing, 75, 431, 2002

Current PhD students

Mohammad Fadaghi

Former PhD students

Paweł Dominik
Andrzej Pawelec
Grzegorz Weisbrod
Grzegorz Kamler
Tomasz Szyszko
Beata Strojek
Michał Kamiński



Research profile

Nanotechnology
Photovoltaics
Spintronics
Nitrides
Chalcogenides

Research equipment

- Horizontal tube furnace Carbolite CTF 12/65/550
- Vertical tube furnace Carbolite GVC 12/750
- Chamber furnace Carbolite ELF 11/6

Collaboration

Institute of Physics, Polish Academy of Sciences (Poland)

Faculty of Chemistry, University of Durham (UK)

Van der Waals-Zeeman Institute, University of Amsterdam (The Netherlands)

Department of Chemical Engineering, Kansas State University (USA)

Scientific Awards

- Commendation for Maciej Białogłowski on the EMRS 2014 Fall Meeting (Warsaw, September 15-18) for an oral presentation: *Synthesis of Magnetic Doped Kesterite Single Crystals* given at Symposium N titled *Crystallography in materials science: Novel methods for novel materials*
- Scholarship of the Minister of Science and Higher Education for Maciej Białogłowski (2014/2015)

