

RAFAL OWARZANY

CONTACT DETAILS

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EDUCATION

2015 – NOW University of Warsaw, Faculty of Chemistry, PhD candidate in Laboratory of Technology of Novel Functional Material, Centre of New Technologies, University of Warsaw

2013 – 2015 University of Warsaw, Faculty of Physics and Faculty of Chemistry, MSc Nanostructures Engineering, dissertation: "Alkali metal amidoboranes as hydrogen storage material and precursors towards nanocrystalline boron nitride."

2013 – 2014 Warsaw University of Technology, Faculty of Mathematics and Information Science, BSc Informatics, interrupted

2010 – 2013 University of Warsaw, Faculty of Physics and Faculty of Chemistry, BSc Nanostructures Engineering, dissertation: "Synthesis and characterisation of zinc amidoborane."

PROFESSIONAL EXPERIENCE

2011 – NOW member of Laboratory of Technology of Novel Functional Materials, Centre of New Technologies, University of Warsaw

03 – 04.2015 Internship in Department of Nanotechnology at Institute of Ceramics and Building Materials

07 – 08.2013 Internship in MBE grup in Semiconductors Laboratory in Institute of High Pressure Physics of Polish Academy of Sciences

PUBLICATIONS

- INORGANIC CHEMISTRY, 55 (2016) 37 R. Owarzany, K. J. Fijalkowski, T. Jaroń, P. J. Leszczyński, Ł. Dobrzycki, M. K. Cyrański, and W. Grochala, title: "Complete series of alkali metal $M(\text{BH}_3\text{NH}_2\text{BH}_2\text{NH}_2\text{BH}_3)$ hydrogen stores accessed via metathesis in organic solvents", article
- CRYSTALS, 6 (2016) 88 R. Owarzany, P. J. Leszczyński, K. J. Fijalkowski, and Wojciech Grochala, title: "Mono- and Bimetallic Amidoboranes", review

CONFERENCES

- 08.2016 MH 2016: 15th International Symposium on Metal-Hydrogen Systems, Interlaken, Switzerland, oral presentation: "Rubidium and caesium amidoboranes"
- 10.2015 FUNMAT2015: International Conference on Functional Molecular Materials, Kraków, Poland, poster: "Alkali metal amidoboranes"
- 03.2015 Open Readings, Vilnius, Lithuania, oral presentation: "Alkali metal amidoboranes as onboard hydrogen storage materials and boron nitride precursors"
- 09.2014 IIOFCN: 2nd Polish Forum of Inorganic Chemistry, Wrocław, Poland, poster "Amidoborany rubidu i cezu.", eng.: "Rubidium and caesium amidoboranes"
- 09.2014 ECOSS 30: European Conference On Surface Science, Antalya, Turkey, poster "Rubidium and caesium amidoboranes - precursors for boron-nitrogen ceramics."
- 09.2013 ISMech 2013: International Symposium on Mechanochemistry in Synthesis and Nanoscience, Ossa, Poland, poster "Low temperature mechanochemical synthesis of zinc amidoborane"

ADDITIONAL INFORMATION

LANGUAGES	English - upper intermediate German - elementary Polish - native
COMPUTING SKILLS	Excel, Word, Power Point - intermediate C, C++, Python, Matlab, Mathematica - basics
KNOWN RESEARCH TECHNIQUES	IR spectroscopy, Raman spectroscopy, UV-VIS spectroscopy, AFM, STM, termogravimetry, scanning and tunneling electron microscopy, X-ray diffraction, XPS
INTERESTS	cycling, trips in Bieszczady and Tatry Mountains