

Name of the advisor: Tomasz Klimczuk**Academic title: professor Ph.D., D.Sc., Eng.**Orcid ID number: <https://orcid.org/0000-0002-7089-4631>**Department of Solid State Physics****Faculty of Applied Physics and Mathematics****Gdańsk University of Technology****Phone: +48 58 348 6611****E-mail: tomasz.klimczuk@pg.edu.pl****Personal web page: www.pg.edu.pl/web/032d9c7d87_tomasz.klimczuk****Disciplineⁱ materials engineering****Bibliometric indicators**

1.	Number of journal publications in WoS/ Scopus	(Please fill in here)
2.	Citations (WoS/Scopus) excluding self-citations	2419 / 2559
3.	Hirsch index (WoS/Scopus)	26 / 27
4.	Hirsch index in Google Scholar	26
5.	Citations in Google Scholar	3584

1. The number of PhD students who have graduated under your supervision: 1

2. The number of PhD students currently supervised: 5

3. Are you currently accepting new PhD students:

- a. Polish Yes
- b. Foreign Yes

Research interests or topics offered for PhD research (no more than 2000 characters)ⁱⁱ

I am interested in searching new exotic compounds. In my laboratory we use solid state chemistry and arc-melting method to get polycrystalline samples. We also grow crystals using solution growth, vapour transport and floating zone method.

I am very much interested in powder x-ray diffraction studies and our laboratory is equipped with superior D2Phaser x-ray diffractometer (Brucker).

Whatever we get - we must know what are the physical properties of a synthesized compound. Low temperature heat capacity, resistivity, magnetoresistivity and magnetic susceptibility are studied by Physical Property Measurement System (Quantum Design) down to 1.9 K and under magnetic field up to 9 T.

PhD Advisor form

Funding or special equipment needed to carry out a PhD project ⁱⁱⁱ:

1. Is funding available for experimental work: Yes
2. Is the equipment needed to complete a PhD project available in your lab/department: Yes

Most recent publications in WoS/SCOPUS journal – no more than 5 published after 1.01.2017

No	Authors/title/journal	Journal IF/Quartile – for WoS and SNIP/ CiteScore for SCOPUS	Publication year
1.	Karolina Górnicka, Weiwei Xie, Elizabeth M. Carnicom, Robert J. Cava, and Tomasz Klimczuk Synthesis and physical properties of the 10.6 K ferromagnet NdIr ₃ Physical Review B	3.836	2019
2.	Elizabeth M. Carnicom, Weiwei Xie, Zoe Yang, Karolina Górnicka, Tai Kong, Tomasz Klimczuk,§ and Robert J. Cava Importance of Specific Heat Characterization when Reporting New Superconductors: An Example of Superconductivity in LiGa ₂ Rh Chemistry of Materials	9.89	2019
3.	M.J. Winiarski, J.-C. Griveau, E. Colineau, K. Wochowski, P. Wiśniewski, D. Kaczorowski, R. Caciuffo, T. Klimczuk Synthesis and properties of AxV ₂ Al ₂₀ (A = Th, U, Np, Pu) ternary actinide aluminides Journal of Alloys and Compounds	3.779	2017
4.	Kamil K. Kolincio, Marta Roman, Michał J. Winiarski, Judyta Strychalska-Nowak, and Tomasz Klimczuk Magnetism and charge density waves in RNiC ₂ (R = Ce, Pr, Nd) Physical Review B	3.836	2017
5.	T. Klimczuk, A.B. Shick, S. Khmelevskiy, A.L. Kozub, b, K.K. Kolincio, J.-C. Griveau, E. Colineau, R. Eloirdi, R. Caciuffo Structural and physical characterization of NpPt ₂ In ₇ Journal of Alloys and Compounds	3.779	2017

Most recent externally funded projects you were involved in – no more than 3

No	Project title, the name of the Princ. Investigator (PI) and the institution the project was carried out	Year awarded	Role in the project
1.	New Materials with Electronic and Magnetic Correlations National Science Centre (Poland)	2019	PI
2.	New Heusler-type compounds based on alkaline earth metals National Science Centre (Poland)	2018	PI

PhD Advisor form

3.	Magnetism and superconductivity in selected intermetallic compounds National Science Centre (Poland)	2016	PI
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Additional relevant information – (no more than 1600 characters)^{iv}

I am looking for passionate students who are not afraid of working with hot furnaces, using x-ray diffractometer, glove-box, etc.

It is expected that 3 of 5 PhD students in my research team will graduate in the next 12 months.

ⁱ You may select up to two disciplines out of 12 disciplines represented in the Doctoral School

ⁱⁱ Observe the limit of not more than 300 words

ⁱⁱⁱ Leave only one answer

^{iv} Add any other relevant information eg. awards for PHD students whom you supervised (no more than 200 words)