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Academic title: Prof., Ph.D., D.Sc., full professor

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Disciplineⁱ physical sciences

Bibliometric indicators

1.	Number of journal publications in WoS/ Scopus	56
2.	Citations (WoS/Scopus) excluding self-citations	552
3.	Hirsch index (WoS/Scopus)	13
4.	Hirsch index in Google Scholar	
5.	Citations in Google Scholar	

1. The number of PhD students who have graduated under your supervision: 7

2. The number of PhD students currently supervised: 3

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

1. Calculations of relativistic structures of heavy and recently discovered superheavy atoms. That may include estimations of the atomic electric dipole moments (EDM) as a sign of symmetry breaking as foreseen by standard model of particle physics.
2. Diatomic and triatomic molecules. Studies of different properties like electronic and rovibrational structure and transition moments with possible inclusion of spin-orbit couplings. Development of software needed for spectra assignment. Studies of association and dissociation processes by time-dependent methods.
3. Modelling selected plasmonic systems in the nanoscale, in particular arrays of gold and silver nanoparticles, and metamaterials. Simulations of electromagnetic field propagation through these systems.

PhD Advisor form

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

1. Is funding available for experimental work: Not applicable
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.	P. Syty, J.E. Sienkiewicz, L. Radžiute, G. Gaigalas, P. Rynkun, J. Bieroń/ Continuum wave functions for estimating the electric dipole moment: Calculation based on a multiconfiguration Dirac-Hartree-Fock approximation/ Physical Review A	2.91/Q1/0	2019
2.	A. Gapska, M. Łapiński ¹ , P. Syty, W. Sadowski, J. E. Sienkiewicz, B. Kocęńska/ Au–Si plasmonic platforms: synthesis, structure and FDTD simulations/ Beilstein Journal of Nanotechnology	3.19/Q1/0	2018
3.	P. Jasik, J. Kozicki, T. Kilich, J.E. Sienkiewicz, N.E. Henriksen/ Electronic structure and rovibrational predissociation of the 2(1)Pi state in KLi/ Physical Chemistry Chemical Physics	3.91/Q1/0	2018
4.	M. Wiatr, P. Jasik, T. Kilich, J.E. Sienkiewicz, H. Stoll/ Quasirelativistic potential energy curves and transition dipole moments of NaRb/ Chemical Physics	1.71/Q2/1	2018
5.	P. Jasik, J.E. Sienkiewicz, J. Domsta, N.E. Henriksen/ Electronic structure and time-dependent description of rotational predissociation of LiH/ Physical Chemistry Chemical Physics	3.91/Q1/0	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.	Theoretical simulation of vibrational spectroscopies based on the Raman effect, Julien Guthmuller, Gdańsk University of Technology	2016	co-PI
2.	Ultrafast charge transfer in ion-atom collision investigated by molecular quantum dynamics methods, Marta Łabuda, Gdańsk University of Technology	2013	co-PI

PhD Advisor form

3.	Structural studies of diatomic molecules and dynamics of processes in the field of strong ultra-short electromagnetic pulses, Józef E. Sienkiewicz, Gdańsk University of Technology	2010	PI
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Additional relevant information – (no more than 1600 characters)^{iv}

December 2018, Consortium of Gdańsk University of Technology and Jagiellonian University: grant application to the NCN regarding the calculation on heavy and superheavy atoms. November 2018, grant application to the COST Action with the Proposal OC-2018-2-23458 " Attosecond Chemistry " as a Secondary Proposer. The Main Proposer, Prof. Fernando Martín of the Universidad Autónoma de Madrid.

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)