

Name of the advisor: Piotr Kowalczyk

Academic title: Ph.D., D.Sc., Eng., Associate Professor

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Disciplineⁱ control, electronic and electrical engineering

Bibliometric indicators

1.	Number of journal publications in WoS/ Scopus	25 (16 articles) / 37
2.	Citations (WoS/Scopus) excluding self-citations	88 / 95
3.	Hirsch index (WoS/Scopus)	6 / 6
4.	Hirsch index in Google Scholar	7
5.	Citations in Google Scholar	154

1. The number of PhD students who have graduated under your supervision: 0

2. The number of PhD students currently supervised: 0

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

Main research interests are electromagnetic-wave scattering, numerical methods, filter design, complex materials, metamaterial applications at microwave frequencies, electromagnetic analysis of periodic structures and conformal antenna design.

Methods of analysis: mode matching, method of moments, spectral domain approach, finite element method, hybrid methods, nonlinear eigenvalue problems.

PhD Advisor form

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

1. Is funding available for experimental work: No
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. Kowalczyk/On root finding algorithms for complex functions with branch cuts/Journal of Computational and Applied Mathematics	1.632/Q1(WoS)-1.363 (SNIP)/1.69	2017
2.	P. Kowalczyk, W. Marynowski/Efficient Complex Root Tracing Algorithm for Propagation and Radiation Problems/ IEEE Transactions on Antennas and Propagation	4.13/Q1(WoS)-2.244(SNIP)/4.65	2017
3.	P. Kowalczyk/Global Complex Roots and Poles Finding Algorithm Based on Phase Analysis for Propagation and Radiation Problems/IEEE Transactions on Antennas and Propagation	4.13/Q1(WoS)-2.244(SNIP)/4.65	2018
4.	M. Warecka, R. Lech and P. Kowalczyk/Propagation in the Open Cylindrical Guide of Arbitrary Cross Section with the Use of Field Matching Method/IEEE Transactions on Antennas and Propagation	4.13/Q1(WoS)-2.244(SNIP)/4.65	2018
5.	P. Kowalczyk, R. Lech, M. Warecka, A. Kusiek/Electromagnetic Plane Wave Scattering from a Cylindrical Object with an Arbitrary Cross Section Using a Hybrid Technique/Journal of Electromagnetic Waves and Applications	0.864/Q4(WoS)-0.604 (SNIP)/1.00	2019

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.	Development of new algorithms for finding and tracking roots in the complex domain for the analysis of electrodynamic problems- PI:Piotr Kowalczyk- Gdańsk University of Technology	2018	PI
2.	„EDISON - Electromagnetic Design of flexible SensOrs” (TEAM TECH/2016-1/6) - PI: Micha ³ Mrozowski - Gdańsk University of Technology	2016	R

PhD Advisor form

3.	Study of field phenomena occurring in the scattering of electromagnetic wave in new materials and their application in microwave technology and millimeter waves - PI:Jerzy Mazur - Gdańsk University of Technology	2014	R
Additional relevant information – (no more than 1600 characters)^{iv} (Please fill in here)			

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)