

Name of the advisor: Małgorzata Szczerska

Academic title: Ph.D. D.Sc. Eng.

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Disciplineⁱ Control, electronic and electrical engineering

Bibliometric indicators

1.	Number of journal publications in WoS/ Scopus	(Please fill in here)
2.	Citations (WoS/Scopus) excluding self-citations	423 (WoS) / 567 Scopus
3.	Hirsch index (WoS/Scopus)	13 (WoS)/ 16 Scopus
4.	Hirsch index in Google Scholar	16
5.	Citations in Google Scholar	634

1. The number of PhD students who have graduated under your supervision: 2

2. The number of PhD students currently supervised: 4

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

My main area of research is biophotonics and I focus on the use of low-coherence interferometry, fiber-optic technology and the application of optical measurements in biomedicine. Apart from my main research subjects, I also deal with research in the area of using low-coherence interferometry in metrology, constructing an electronic system supporting behavioral therapy for children with the autism spectrum disorder, investigating the biocompatibility of new optoelectronic materials with biological tissues.

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.	Hirsch M., Majchrowicz D., Wierzba P., Weber M., Bechelany M., Jędrzejewska-Szczerska M./ Low-Coherence Interferometric Fiber-Optic Sensors with Potential Applications as Biosensors/ Sensors	IF=2.033	2017
2.	Majchrowicz D., Kosowska M., Sankaran K. J., Struk P., Wąsowicz M., Sobaszek M., Haenen K., Jędrzejewska-Szczerska M./ Nitrogen-Doped Diamond Film for Optical Investigation of Hemoglobin Concentration/Materials	IF=2.654	2018
3.	Marzejon M., Kosowska M., Majchrowicz D., Bułto-Piontecka B., Wąsowicz M., Jędrzejewska-Szczerska M./Optical-Spectrometry-Based Method for Immunosuppressant Medicine Level Detection in Aqueous Solutions/ Sensors	IF=2.677	2018
4.	Marzejon M., Kosowska M., Majchrowicz D., Bułto-Piontecka B., Wąsowicz M., Jędrzejewska-SzczerskaM./Label-free optical detection of cyclosporine in biological fluids/Journal of Biophotonics	IF=3.768	2018
5.	Listewnik P., Hirsch M., Struk P., Weber M., Bechelany M., Jędrzejewska-Szczerska M./Preparation and Characterization of Microsphere ZnO ALD Coating Dedicated for the Fiber-Optic Refractive Index Sensor/ Nanomaterials	IF=3.504	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.	The stress control system in children with developmental disorders	2018	PI
2.	The Bekker Programme - University of Cambridge	2018	PI

PhD Advisor form

3.	(Please fill in here)	(fill in)	Wybierz element.
<p>Additional relevant information – (no more than 1600 characters)^{iv}</p> <p>I am the author and co-author of three patents and six patent applications. Several technical achievements, of which I was a co-founder, were presented at exhibitions of inventions and won medals.</p> <p>For a number of years, I have been involved in activities related to the popularization of science among people from outside the university. Since 2013 I have been a Visor of the Optical Society of American Student Chapter and BioPhoton Students Science Club at Gdańsk University of Technology. From 2016 I have also been an OSA Traveling Lecturer.</p>			

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)