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Disciplineⁱ environmental engineering, mining and power engineering

Bibliometric indicators

1.	Number of journal publications in WoS/ Scopus	532 / 52
2.	Citations (WoS/Scopus) excluding self-citations	401/ 549
3.	Hirsch index (WoS/Scopus)	13/14
4.	Hirsch index in Google Scholar	18
5.	Citations in Google Scholar	1084

1. The number of PhD students who have graduated under your supervision: 5
2. The number of PhD students currently supervised: 4
3. Are you currently accepting new PhD students:
 - a. Polish Yes
 - b. Foreign Yes

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

Experimental investigation of novel processes of nitrogen removal from wastewater, including anammox, deammonification, and commamox (in comparison with the conventional nitrification-denitrification processes), interaction with other processes such as phosphorus and Sulphur removal

Mathematical modeling, computer simulation and optimization of energy consumption in municipal wastewater treatment plants

Greenhouse (GHG) gas production/emission, carbon footprint and life-cycle analysis (LCA) in municipal wastewater treatment plants

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

1. Is funding available for experimental work: Yes/No/not needed
2. Is the equipment needed to complete a PhD project available in your lab/department: Yes/No/not needed

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.	K Wisniewski, M Kowalski, J Makinia. Modeling nitrous oxide production by a denitrifying-enhanced biologically phosphorus removing (EBPR)	7.051/ 2.358/7.55	2018

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	activated sludge in the presence of different carbon sources and electron acceptors. Water research 142, 55-64		
2.	X Lu, T DS Pereira, HE Al-Hazmi, J Majtacz, Q Zhou, L Xie, J Makinia. Model-Based Evaluation of N2O Production Pathways in the Anammox-Enriched Granular Sludge Cultivated in a Sequencing Batch Reactor. Environmental science & technology 52 (5), 2800-2809	6.653/ 1.889/6.58	2018
3.	M Maktabifard, E Zaborowska, J Makinia. Achieving energy neutrality in wastewater treatment plants through energy savings and enhancing renewable energy production. Reviews in Environmental Science and Bio/Technology, 1-35	5.716/?/6.27	(fill in)
4.	K Wisniewski, A di Biase, G Munz, JA Oleszkiewicz, J Makinia. Kinetic characterization of hydrogen sulfide inhibition of suspended anammox biomass from a membrane bioreactor. Biochemical Engineering Journal 143, 48-57	3.226 /1.149/3.18	2019
5.	A Tuszynska, M Kaszubowska, P Kowal, S Ciesielski, J Makinia. The metabolic activity of denitrifying microorganisms accumulating polyphosphate in response to addition of fusel oil. Bioprocess and biosystems engineering 42 (1), 143-155	2.139/?/2.22	2019

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

No	Project title, the name of the Principal Investigator (PI) and the institution the project was carried out	Year awarded	Role in the project
1.	Identification, characterization and modeling of the COMAMMOX process – a new chain in the the nitrogen cycle in wastewater treatment systems, Jacek Mąkinia, Gdansk University of Technology, Warsaw University of Technology, Warmia-Mazury University	2018	PI

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2.	A model sludge management in a wastewater treatment plant focused on increasing the renewable energy production and nutrient recovery, Ewa Zaborowska, Gdańsk University of Technology	2017	R
3.	Development of the technology for preparation substrates used in methane co-fermentation by disintegration methods, Krzysztof Czerwionka, Gdańsk University of Technology, Warsaw University of Technology, Institute of Chemistry and Nuclear Technique	2017	R
<p>Additional relevant information – (no more than 1600 characters)^{iv} (Please fill in here)</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)