PhD Advisor form

Name of the advisor: Jan Wajs

Academic title: PhD, DSc, Eng

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Discipline[i] mechanical engineering; environmental engineering, mining and power engineering

Bibliometric indicators

1.	Number of journal publications in WoS/ Scopus	24 (WoS) / 33 (Scopus)
2.	Citations (WoS/Scopus) excluding self-citations	96 (WoS) / 90 (Scopus)
3.	Hirsch index (WoS/Scopus)	7 (WoS) / 7 (Scopus)
4.	Hirsch index in Google Scholar	9
5.	Citations in Google Scholar	319

1. The number of PhD students who have graduated under your supervision: 2
2. The number of PhD students currently supervised: 2
3. Are you currently accepting new PhD students:
   a. Polish Yes
   b. Foreign No

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Research interests or topics offered for PhD research (no more than 2000 characters)[ii] Scientific interests include: heat transfer by boiling and condensation in conventional and minichannel flows; methods of heat transfer intensification with application in modern compact heat exchangers; development of high performance heat exchangers; cogeneration / trigeneration systems for distributed energy sources (based on fossil fuels and renewable energy sources), micro-CHP with organic Rankine cycle application, high-temperature heat pump, recovery systems for utilization of waste heat from technological and energy processes.

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.	Wajs J., Mikielewicz D., Jakubowska B. / Performance of the domestic micro ORC equipped with the shell-and-tube condenser with minichannels / Energy	4.968 / Q1 – WoS 1.923 / 5.60 – Scopus	2018

2.	Wajs J., Mikielewicz D., Fornalik-Wajs E., Bajor M. / High performance tubular heat exchanger with minijet heat transfer enhancement / Heat Transfer Engineering	1.216 / Q3 – WoS 0.844 / 1.29 – Scopus	2018
3.	Mikielewicz D., Wajs J., Mikielewicz J. / Alternative cogeneration thermodynamic cycles for domestic ORC / Chemical and Process Engineering	0.892 / Q4 – WoS 0.701 / 0.82 – Scopus	2018
4.	Mikielewicz D., Wajs J. / Possibilities of heat transfer augmentation in heat exchangers with minichannels for marine applications / Polish Maritime Research	0.763 / Q3 – WoS 0.788 / 0.99 – Scopus	2017
5.	Barański J., Jewartowski M., Wajs J., Orłowski K., Pikała T. / Experimental examination and modification of chip suction system in circular sawing machine / Drvna Industrija	0.616 / Q3 – WoS 0.574 / 0.54 – Scopus	2018

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.	Micro-CHP with a high-performance turbine set developed by MAPU Sp. z o.o. as a breakthrough in the field of unconventional low-power energy / Jan Wajs / Gdansk University of Technology as subcontractor	2018	PI
2.	Inovative trigeneration unit for production of electricity, heat and cold for distributed energy sector with reduced environmental emission / Dariusz Mikielewicz / Gdansk University of Technology and VBW Sp. z o.o.	2018	co-PI

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3.	Development of an innovative product in a form of the integrated heating system for a residential building using multimodal energy sources to extend the offer of BMB Santech / Jan Stąsiek / Gdansk University of Technology	2017	co-PI

Additional relevant information – (no more than 1600 charters)[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)