



## Jan Taler

**Academic degrees :** Prof. Dr. Hab. Eng., Corresponding Member of the PAS

**Position :** full profesor

**Engineering - technical field**

**Discipline** Environmental engineering, mining and energy

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### Academic qualifications:

1. Head of the Department of Energy at the Faculty of Environmental and Energy Engineering, Cracow University of Technology
2. Corresponding Member of the Polish Academy of Sciences (since 2020)
3. Member of the Council of Scientific Excellence in Poland for the 2019-2023 term
4. Member of the Central Commission for Degrees and Titles 2012-2018
5. Section Editor of "Direct Heat Conduction-Inverse and Optimisation" in the "Encyclopedia of Thermal Stresses" published by Springer
6. Vice-Chairman of the Committee on Thermodynamics and Combustion of the Polish Academy of Sciences (2012 – 2016)
7. Editor of the Journal of Thermal Science (Springer) and Journal of Thermal Stresses (Taylor & Francis)
8. Member of the State Committee for Scientific Research (8 years), Member of the NCBR Council (2 years)
9. Member of the Scientific Council of the Institute of Fluid-Flow Machinery, Polish Academy of Sciences (10 years)
10. Member of the Scientific Council of the Institute for Ferrous Metallurgy (4 years)

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### Membership in professional and academic boards:

1. Member of the Scientific Council of the International Centre for Heat and Mass Transfer, Ankara, Turkey (since 2018)
2. Corresponding Member of the Polish Academy of Sciences (since 2020)
3. Member of the Committee on Thermodynamics and Combustion of the PAS
4. Chairman of the Scientific Committees of Scientific Conferences: Modern Technologies and Energy Devices, International Conference on Cleaner Energy Transition
5. Member of the Steering Committee of the International Conference on Heat, Mass and Momentum Transfer

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### Academic merits:

1. Number of promoted PhD graduates in technical sciences: 21
2. Ranked in the TOP 2% of the most cited scientists globally according to Elsevier and Stanford University since 2020
3. H-index according to the Scopus database: 33, Number of citations in the Scopus database: over 4400
4. Scientific output encompassing over 470 publications, 170 of which are indexed in the Web of Science and Scopus databases. Total Impact Factor of publications is over 600.
5. Author or co-author of 13 scientific books (including those published by Springer and Nova Science)
6. Author of 11 chapters (totaling about 200 pages) in the prestigious 11-volume "Encyclopedia of Thermal Stresses" published by Springer

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### Professional qualifications/language skills:

Language skills: English – fluent, German – fluent, Russian – fluent

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### Research field :

Mechanical engineering and thermal power engineering, inverse heat conduction problems, heat transfer engineering, measurement of heat flux and heat transfer coefficient, numerical modeling (CFD) of heat exchangers, thermal stresses, structural analysis by finite element method (FEM), optimization of heating and cooling processes of thick-walled pressure components in conventional and nuclear power units

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### Address

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### Useful links :

[Profile PAS](#)

[Researcher profile – Jan Taler – Cracow University of Technology](#)