

Summary for National Technical University Kharkiv Polytechnic Institute

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Mixed year ranges ▾

Summary metrics

Entity: National Technical University Kharkiv Polytechnic Institute · Within: All subject areas (QS) · Year range: 2019 to 2025 · Data source: Scopus, up to 11 Dec 2024

3,209 ▲

Scholarly Output 

36.7% Open Access

1,771 ▲

Authors

0.74

Field-Weighted Citation Impact 

0.17

Field-Weighted Citation
Impact Median

10,217

Citation Count 

3.2

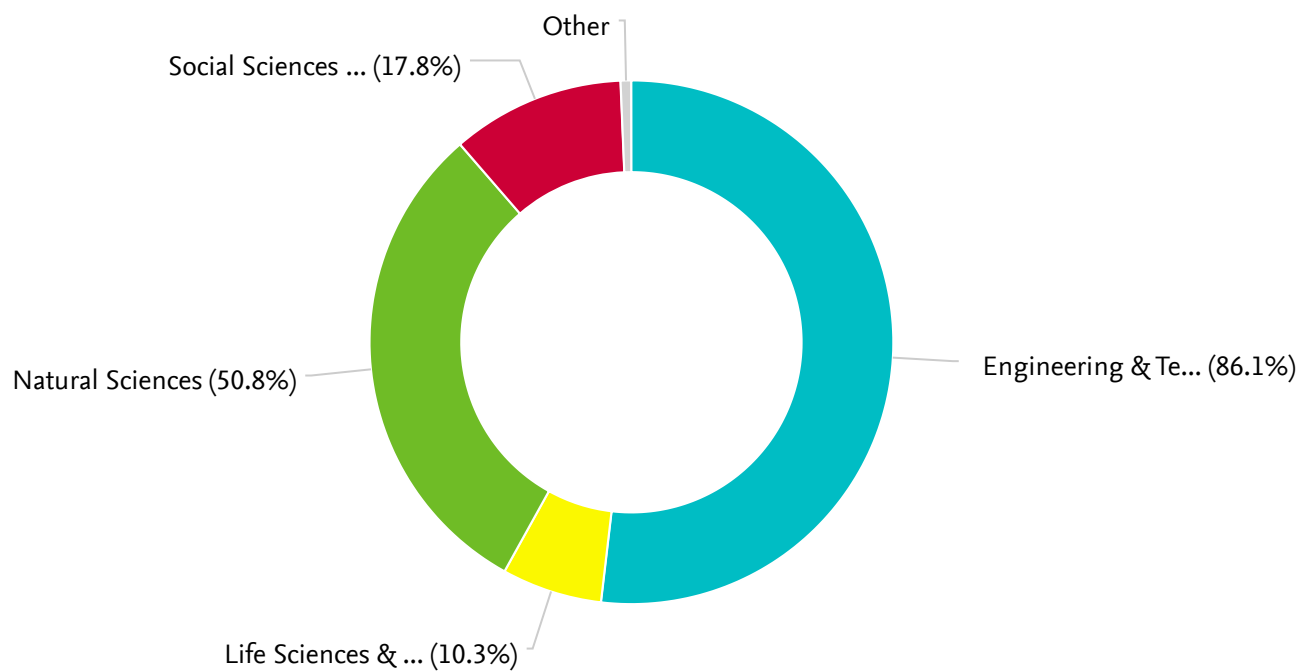
Citations per Publication 

24

h5-index






Publication share by Subject Area

Entity: National Technical University Kharkiv Polytechnic Institute · Within: All subject areas (QS) · Year range: 2019 to 2025 · Data source: Scopus, up to 11 Dec 2024



Top 5 Research Topic Clusters

Entity: National Technical University Kharkiv Polytechnic Institute · Within: All subject areas (QS) · Year range: 2019 to 2025 · Data source: Scopus, up to 11 Dec 2024

Topic Cluster	At this Institution			Worldwide
	Scholarly Output	Publication Share	Field-Weighted Citation Impact	Prominence percentile
Power Electronics; Control System; Predictive Control Model TC.12	100	0.19% ▼	1.04	93.329 
Quality of Service; Internet Protocol; Network Architecture TC.76	87	0.79% ▲	1.37	28.319 
Industry; Information Technology; Business Model TC.47	68	0.18% ▼	0.50	97.449 
Gaussian Process; Kriging; Machine Learning TC.619	66	0.46% ▼	2.69	48.855 
Gasification; Pyrolysis; Coal Combustion TC.340	50	0.27% ▼	0.19	84.500 

Outputs in Top 10% Citation Percentiles summary

Entity: National Technical University Kharkiv Polytechnic Institute · Within: All subject areas (QS)
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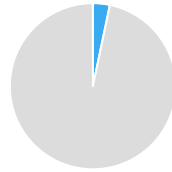


National Technical University
Kharkiv Polytechnic Institute
7.9%

Ukraine
7.2%

Publications in Top 10% Journal Percentiles by CiteScore Percentile

Entity: National Technical University Kharkiv Polytechnic Institute · Within: All subject areas (QS)
· Year range: 2019 to 2025 · Data source: Scopus, up to 11 Dec 2024



National Technical University
Kharkiv Polytechnic Institute
3.3%

Ukraine
7.4%

International Collaboration summary

Entity: National Technical University Kharkiv Polytechnic Institute · Within: All subject areas (QS)
· Year range: 2019 to 2025 · Data source: Scopus, up to 11 Dec 2024



National Technical University
Kharkiv Polytechnic Institute
24.5%

Ukraine
31.6%

Academic-Corporate Collaboration summary

Entity: National Technical University Kharkiv Polytechnic Institute · Within: All subject areas (QS)
· Year range: 2019 to 2025 · Data source: Scopus, up to 11 Dec 2024



National Technical University
Kharkiv Polytechnic Institute
0.4%

Ukraine
1.5%

Publications with Highest FWCI

Entity: National Technical University Kharkiv Polytechnic Institute · Within: All subject areas (QS) · Year range: 2019 to 2025 · Data source: Scopus, up to 11 Dec 2024

Publication	Citations	Field-Weighted Citation Impact
<p>Application of the computer vision system for evaluation of pathomorphological images. Gargin, V., Radutny, R., Titova, G. and 3 more (2020) Proceedings - IEEE International Conference on Electronics and Nanotechnology, ELNANO, pp. 469-473.</p>	79	29.72
<p>Treatment of determination method for strength characteristics of reinforcing steel by using thread cutting method after temperature influence. Kovalov, A., Otrosh, Y., Rybka, E. and 3 more (2020) Materials Science Forum, 1006, pp. 179-184.</p>	40	19.62
<p>Methods to Manage Data in Self-healing Systems. Kovalenko, A., Kuchuk, H. (2022) Studies in Systems, Decision and Control, 425, pp. 113-171.</p>	27	18.35
<p>Design and research of environmental friendly polymeric materials modified by humic substances. Lebedev, V., Tykhomyrova, T., Miroshnichenko, D. and 3 more (2023) AIP Conference Proceedings, 2684.</p>	6	15.07
<p>Optimal design of vortex chamber pump. Rogovyi, A., Korohodskyi, V., Khovanskyi, S. and 2 more (2021) Journal of Physics: Conference Series, 1741 (1).</p>	27	14.67

Most cited publications

Entity: National Technical University Kharkiv Polytechnic Institute · Within: All subject areas (ASJC) · Year range: 2019 to 2025 · Data source: Scopus, up to 11 Dec 2024

Publication	Citations	Field-Weighted Citation Impact
<p>Large magnetic gap at the Dirac point in Bi₂Te₃/MnBi₂Te₄ heterostructures. Rienks, E.D.L., Wimmer, S., Sánchez-Barriga, J. and 18 more (2019) <i>Nature</i>, 576 (7787), pp. 423-428.</p>	206	6.89
<p>COVID-19 vaccinations: The unknowns, challenges, and hopes. Mohamed, K., Rzymiski, P., Islam, M.S. and 21 more (2022) <i>Journal of Medical Virology</i>, 94 (4), pp. 1336-1349.</p>	88	4.87
<p>Application of the computer vision system for evaluation of pathomorphological images. Gargin, V., Radutny, R., Titova, G. and 3 more (2020) <i>Proceedings - IEEE International Conference on Electronics and Nanotechnology, ELNANO</i>, pp. 469-473.</p>	79	29.72
<p>Parameter identification of cutting forces in crankshaft grinding using artificial neural networks. Pavlenko, I., Saga, M., Kuric, I. and 4 more (2020) <i>Materials</i>, 13 (23), pp. 1-12.</p>	57	2.90
<p>Increasing of equipment efficiency by intensification of technological processes. Fesenko, A., Basova, Y., Ivanov, V. and 3 more (2019) <i>Periodica Polytechnica Mechanical Engineering</i>, 63 (1), pp. 67-73.</p>	48	3.82

Publications by SDG

Entity: National Technical University Kharkiv Polytechnic Institute · Within: All subject areas (THE) · Year range: 2014 to 2023 · Data source: Scopus, up to 11 Dec 2024

SDG	Scholarly Output	Field-Weighted Citation Impact	Citation Count
SDG 1: No Poverty	3	0.27	11
SDG 2: Zero Hunger	8	0.52	43
SDG 3: Good Health and Well-being	95	0.89	428
SDG 4: Quality Education	45	1.05	152
SDG 5: Gender Equality	2	0.18	1
SDG 6: Clean Water and Sanitation	34	0.47	173
SDG 7: Affordable and Clean Energy	434	0.96	2,590
SDG 8: Decent Work and Economic Growth	45	0.90	297
SDG 9: Industry, Innovation and Infrastructure	215	1.02	1,155
SDG 10: Reduced Inequality	14	0.40	55
SDG 11: Sustainable Cities and Communities	47	0.58	162
SDG 12: Responsible Consumption and Production	43	0.53	240
SDG 13: Climate Action	19	0.52	111
SDG 14: Life Below Water	0	0.00	0
SDG 15: Life on Land	7	1.12	18
SDG 16: Peace, Justice and Strong Institutions	8	0.51	8
Total	828	0.96	4,537