

Organization Report

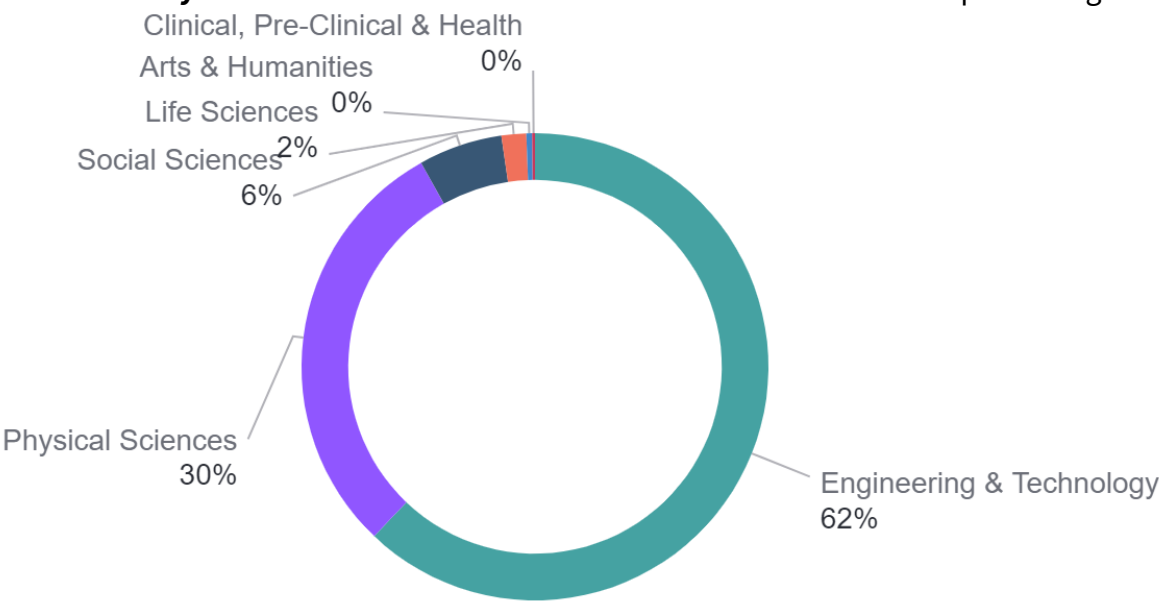
Visualize research, collaboration, and most cited documents across an Organization.

Organization Name: National Technical University Kharkiv Polytechnic Institute | Date range:
2015 - 2021 | Include ESCI documents

Research Performance

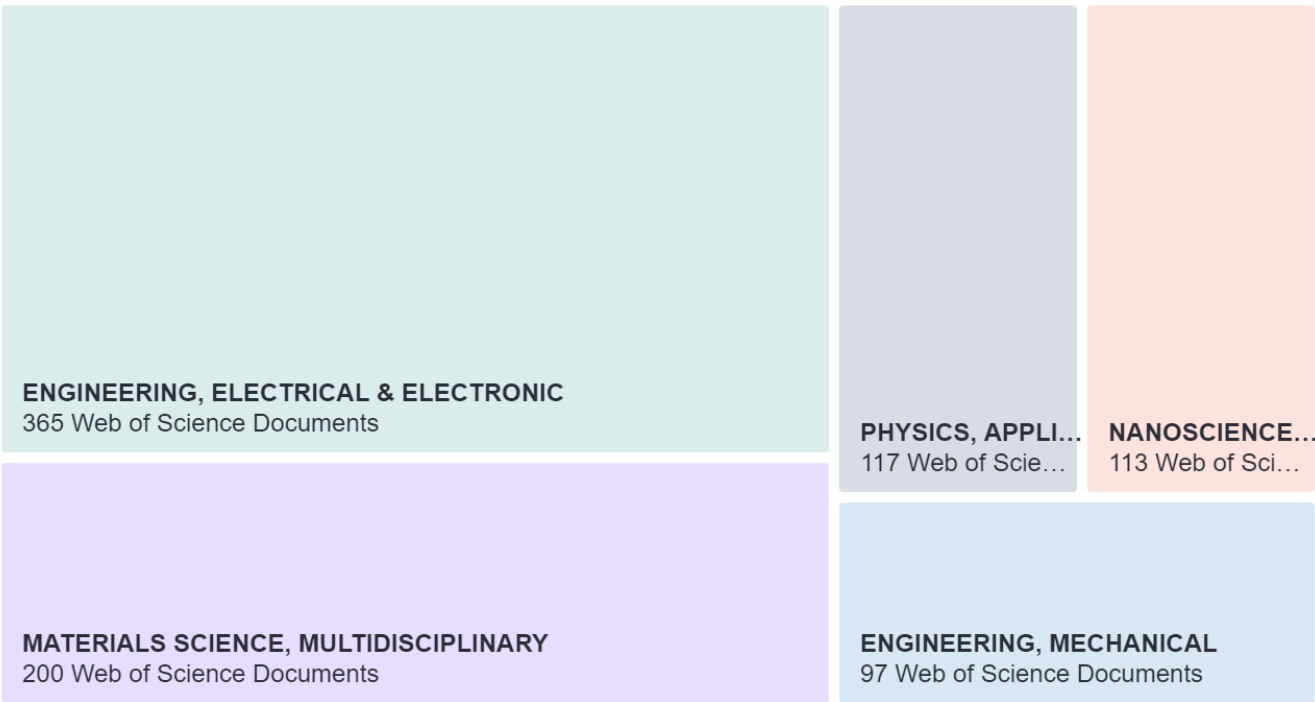
Overview

Documents Published by GIPP Research Areas In which research area are authors publishing most?



Units: Web of Science Documents

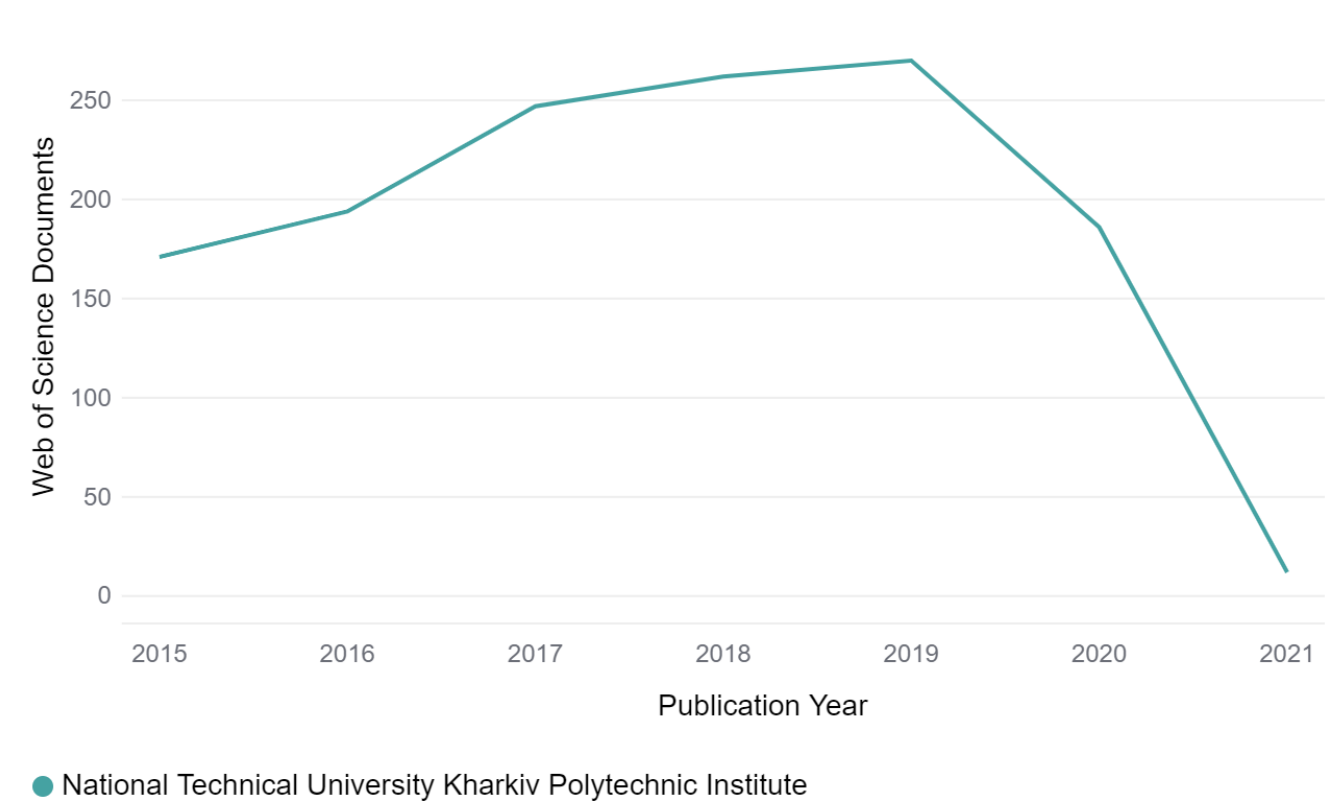
Documents Published by WoS Categories In which categories are authors publishing most?



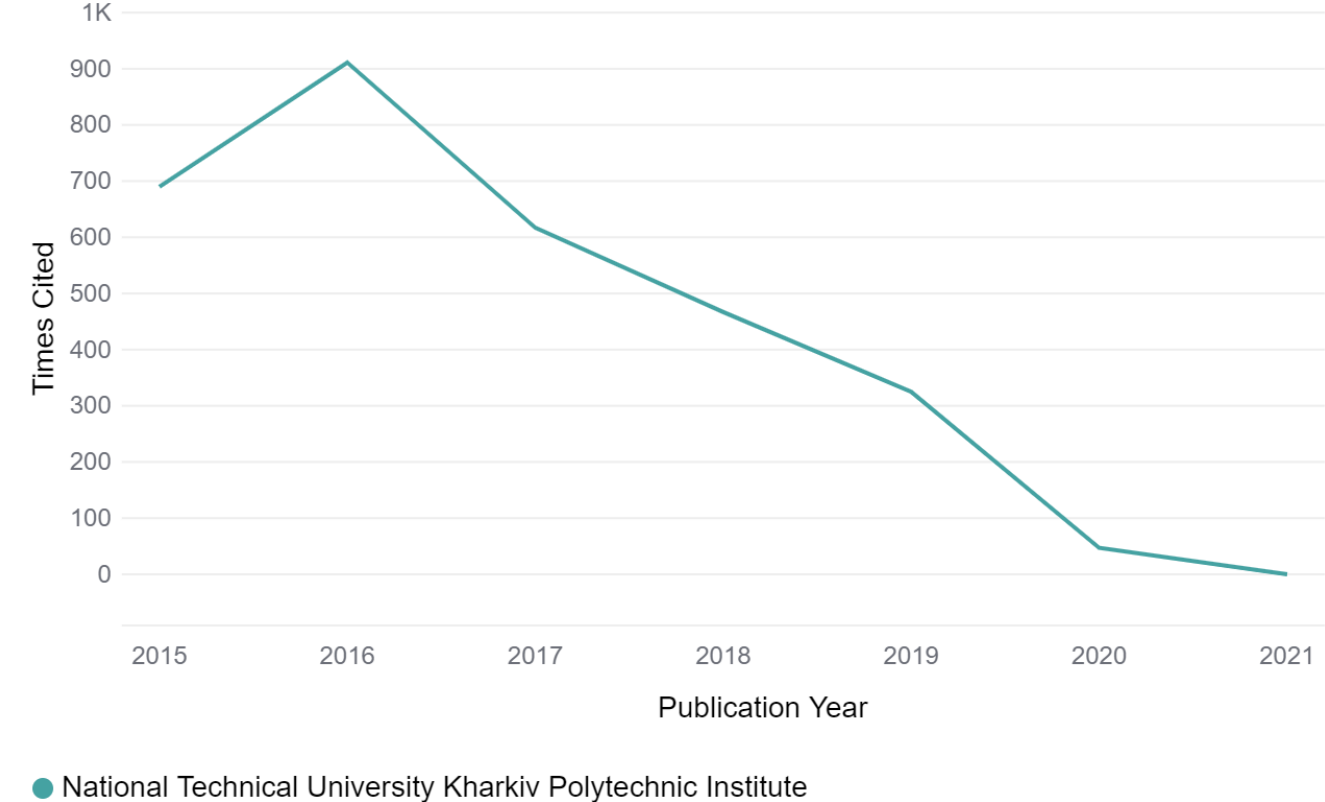
Box size indicates Web of Science Documents ⓘ

Productivity

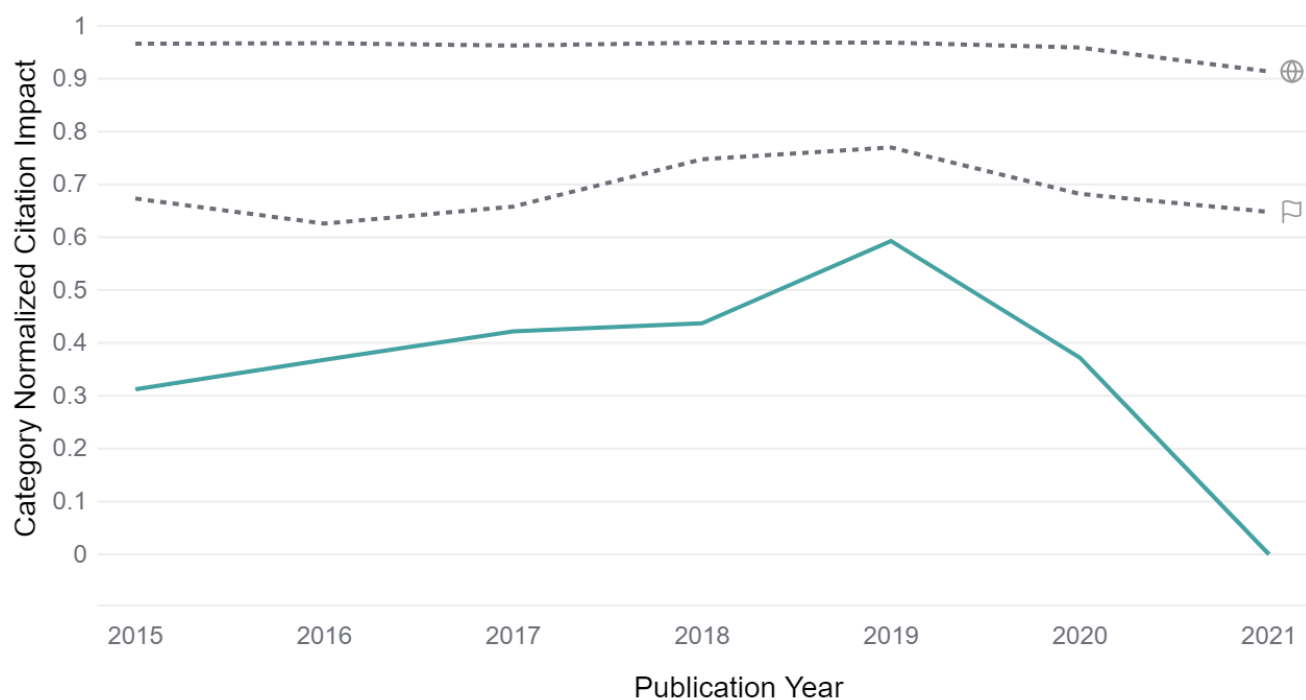
Documents Published per Year How many documents have authors published?



Times Cited Per Year How many times have authors been cited?

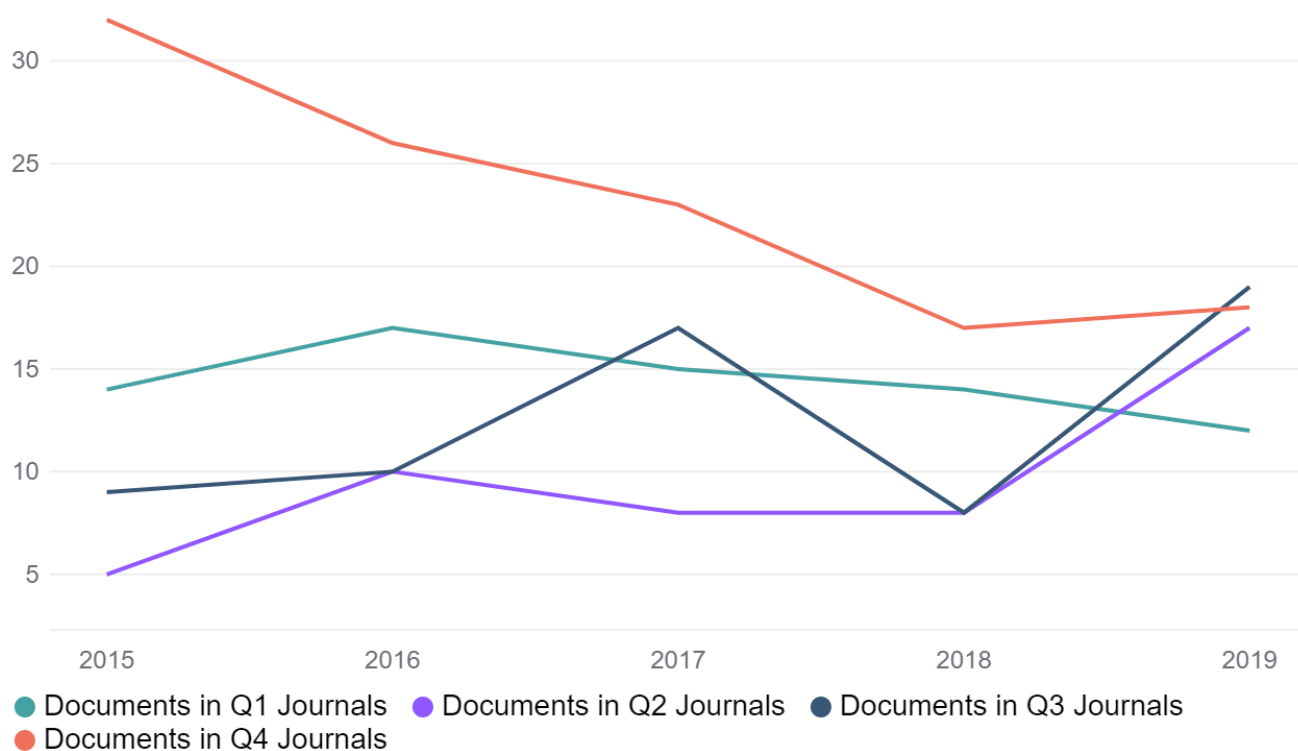


Category Normalized Citation Impact per Year What is the citation impact?



🌐 Global Baseline
🇺🇦 Baseline (UKRAINE)
● National Technical University Kharkiv Polytechnic Institute


Documents Published per JIF Quartile per Year How many documents have authors published in highly cited journals?



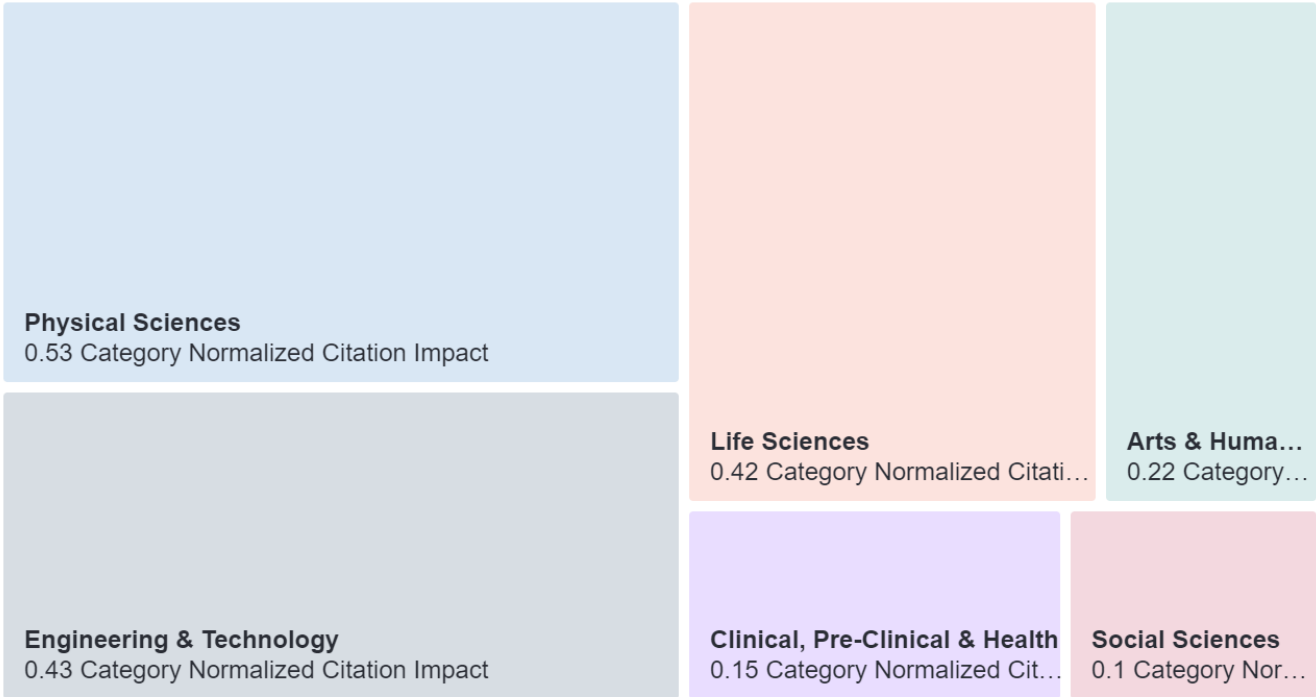
● Documents in Q1 Journals
● Documents in Q2 Journals
● Documents in Q3 Journals
● Documents in Q4 Journals

% of Documents per JIF Quartile What percentage of documents have authors published in highly cited journals?



 Baseline for All Items

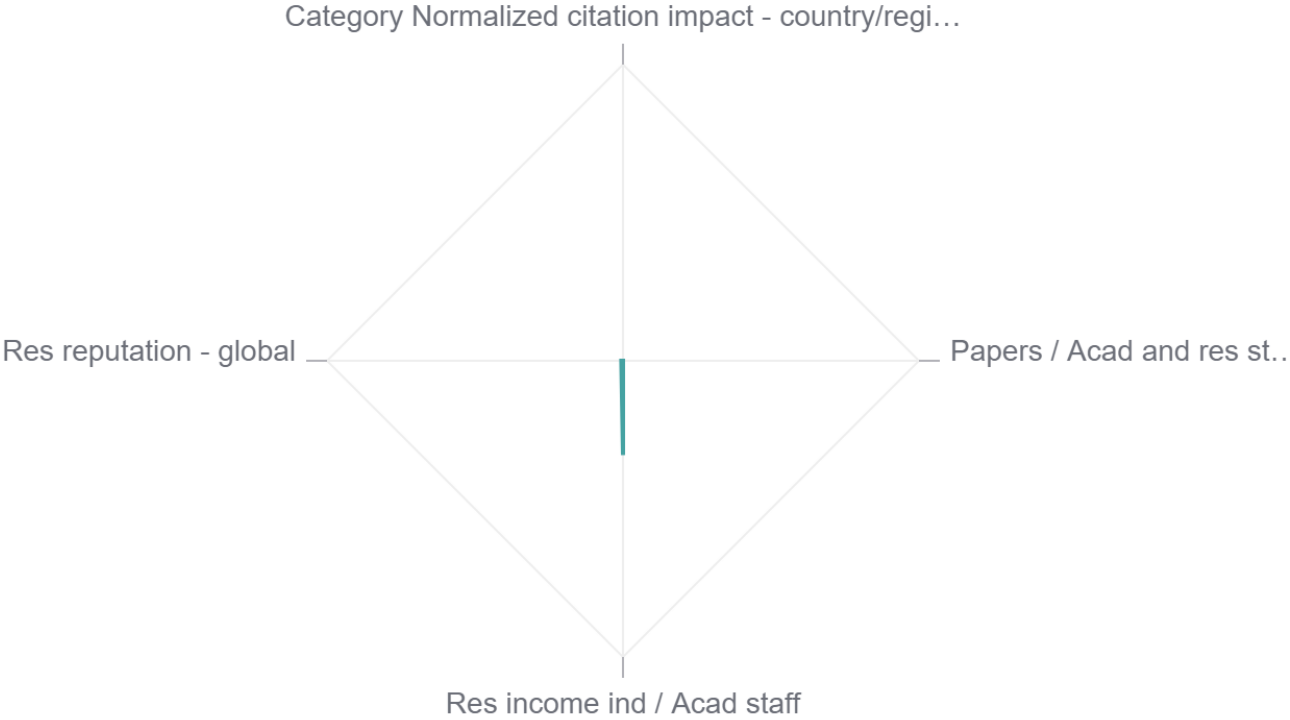
Category Normalized Citation Impact by GIPP Categories In which categories are authors having the most citation impact?



Box size indicates Category Normalized Citation Impact ⓘ

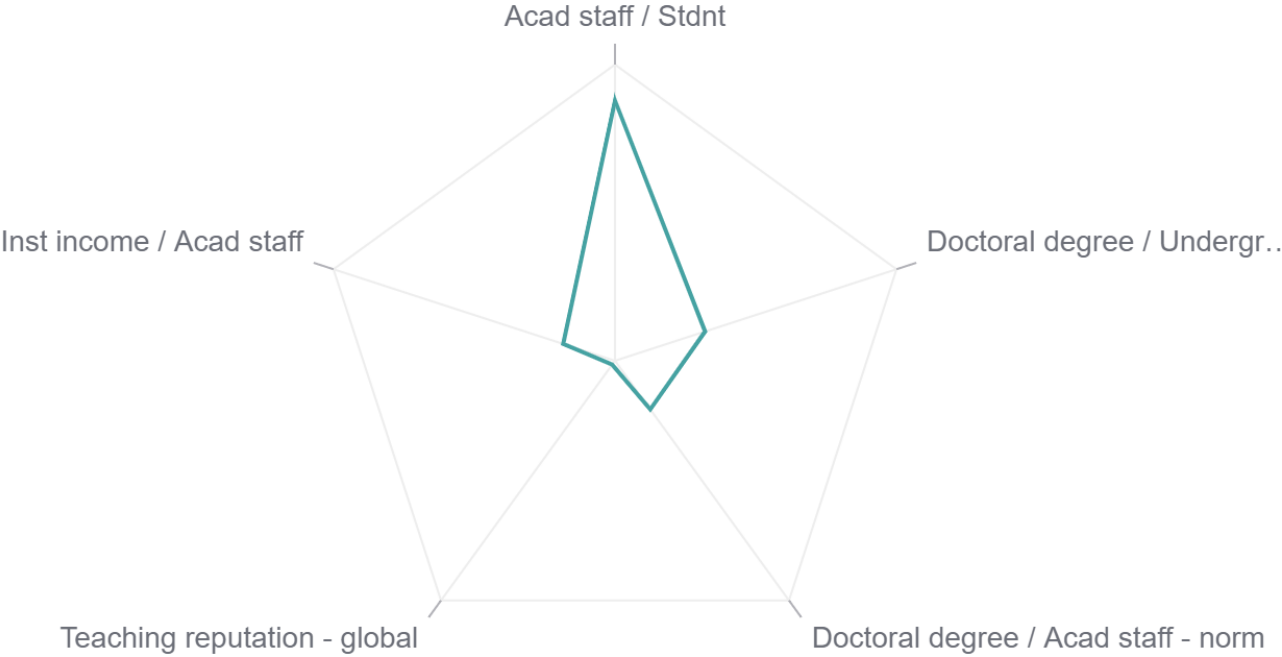
Reputation Survey

Research Indicators How does documents published and citation impact compare to institution demographics?



● National Technical University Kharkiv Polytechnic Institute

Teaching Indicators How does teaching reputation compare to institution demographics?



● National Technical University Kharkiv Polytechnic Institute

Collaboration

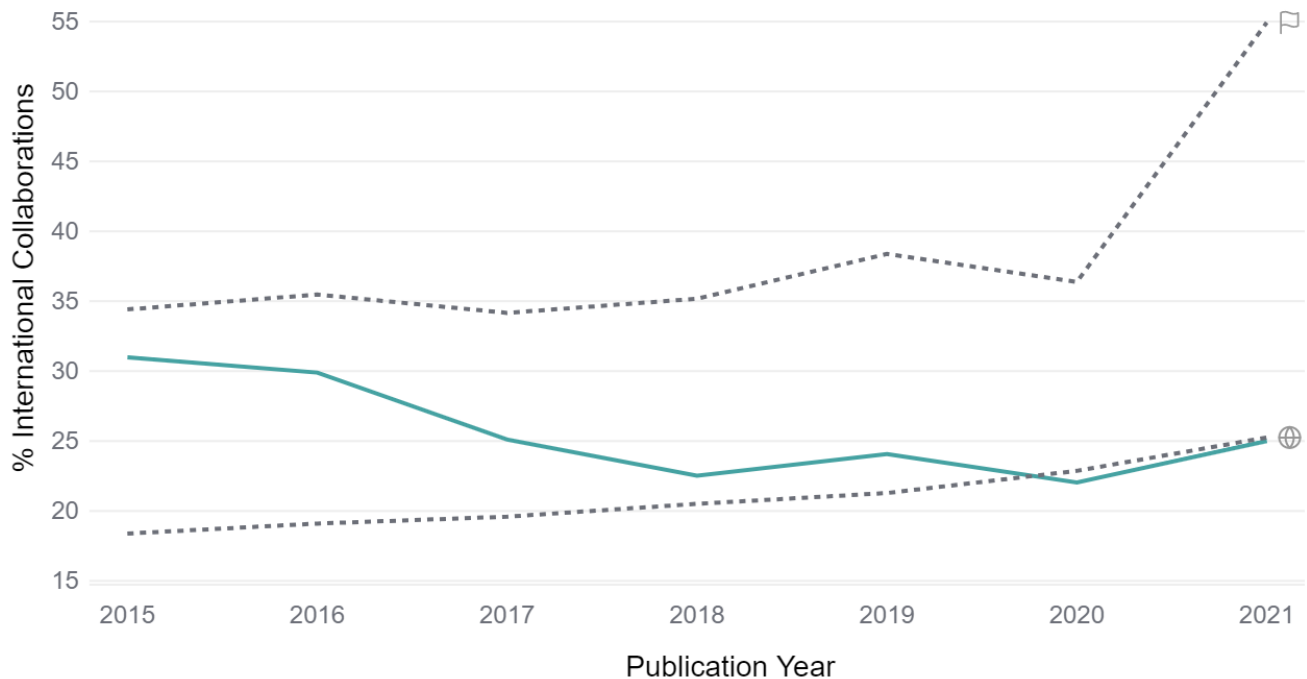
International Collaboration

Collaborations by Country/ Region Where are co-authors located?



% International Collaborations per Year

Are international collaborations more frequent than the global and country average?



Global Baseline
 Baseline (UKRAINE)
 National Technical University Kharkiv Polytechnic Institute

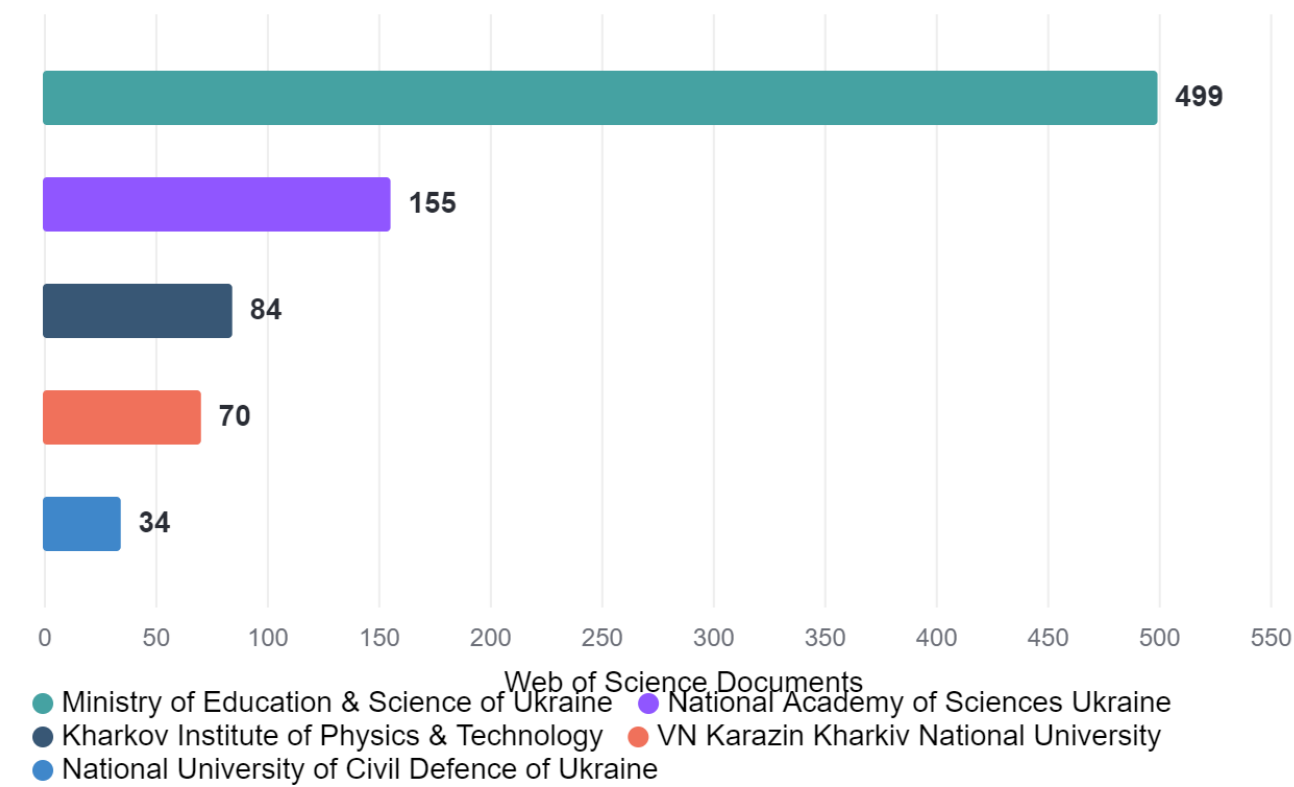
Collaborations by Country and Research Area

Are international collaborations focused in particular research areas and regions?

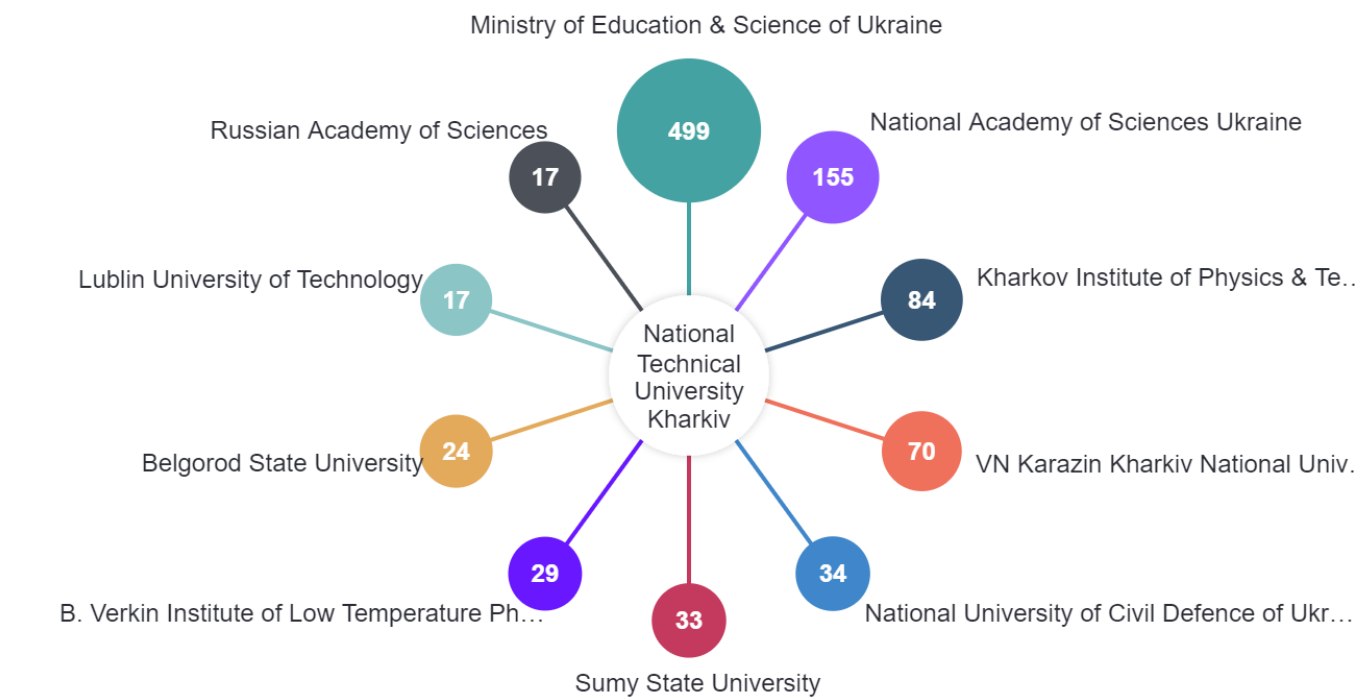
	UKRAINE	RUSSIA	POLAND	USA	GERMANY (FED REP)	KAZAKHSTAN	FRANCE	UNITED KINGDOM	HUNGARY	ENGLAND
MATERIALS SCIENCE, MULTIDISCIPLINARY	92	14	12	6	7	4	6	8	2	6
PHYSICS, APPLIED	77	12	8	7	5	7	4	6	1	6
PHYSICS, CONDENSED MATTER	33	5	3	2	5	5	4	3	1	3
ENGINEERING, ELECTRICAL & ELECTRONIC	73	2	3	2	5	1	1	0	0	0
MECHANICS	37	2	15	4	11	0	0	7	0	4
PHYSICS, MULTIDISCIPLINARY	16	3	5	0	3	0	2	0	0	0
PHYSICS, NUCLEAR	45	8	1	2	2	0	0	0	0	0
NANOSCIENCE & NANOTECHNOLOGY	49	17	2	2	1	1	1	1	0	1
ENGINEERING, MECHANICAL	36	3	9	3	6	1	0	4	0	4
OPTICS	19	2	6	2	1	6	1	0	0	0

Collaborating Institutions

Top Collaborating Organizations Who are most frequent collaborating organizations?



Top Collaborating Academic Organizations Who are most frequent collaborating academic organizations?



Reputation Survey

International Mix How does international collaboration compare to the institution's international demographics?

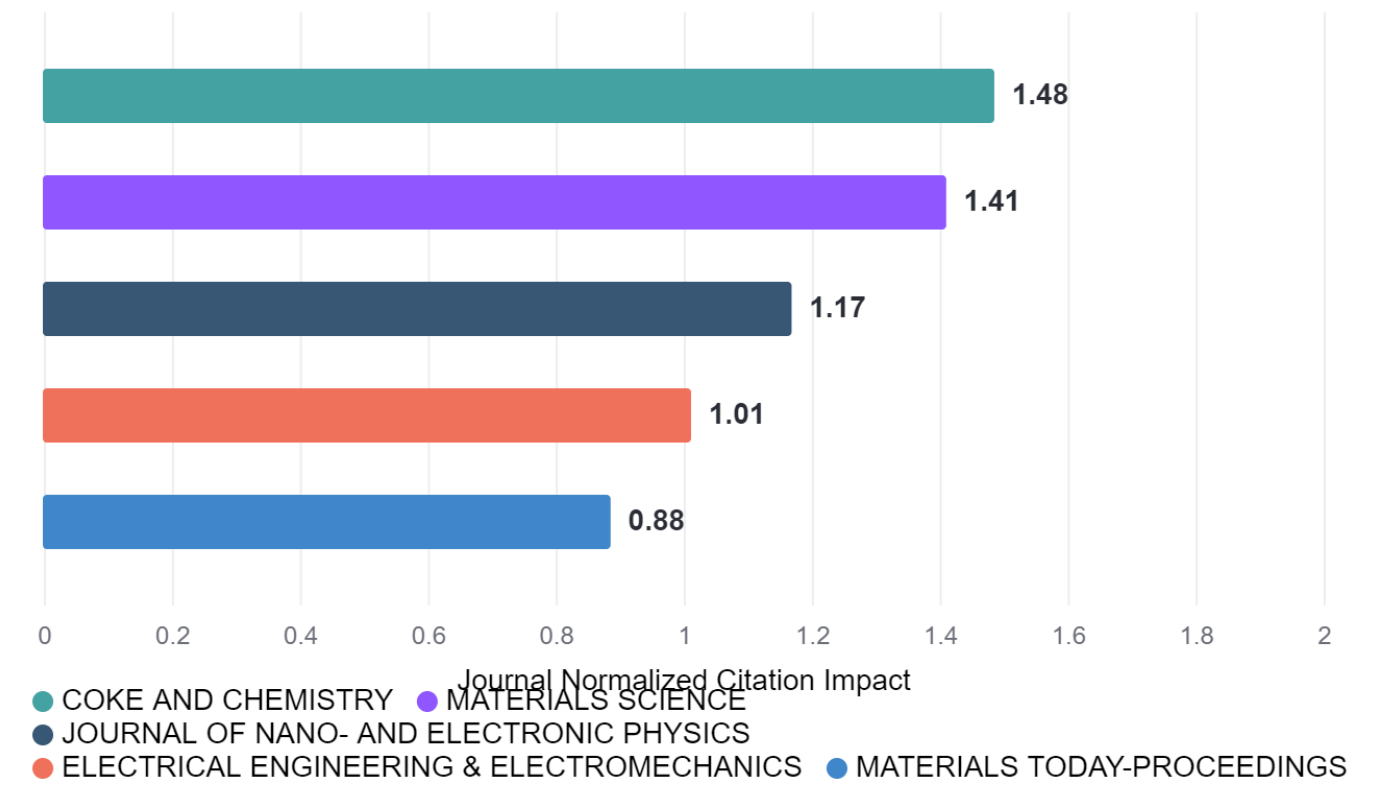


● National Technical University Kharkiv Polytechnic Institute

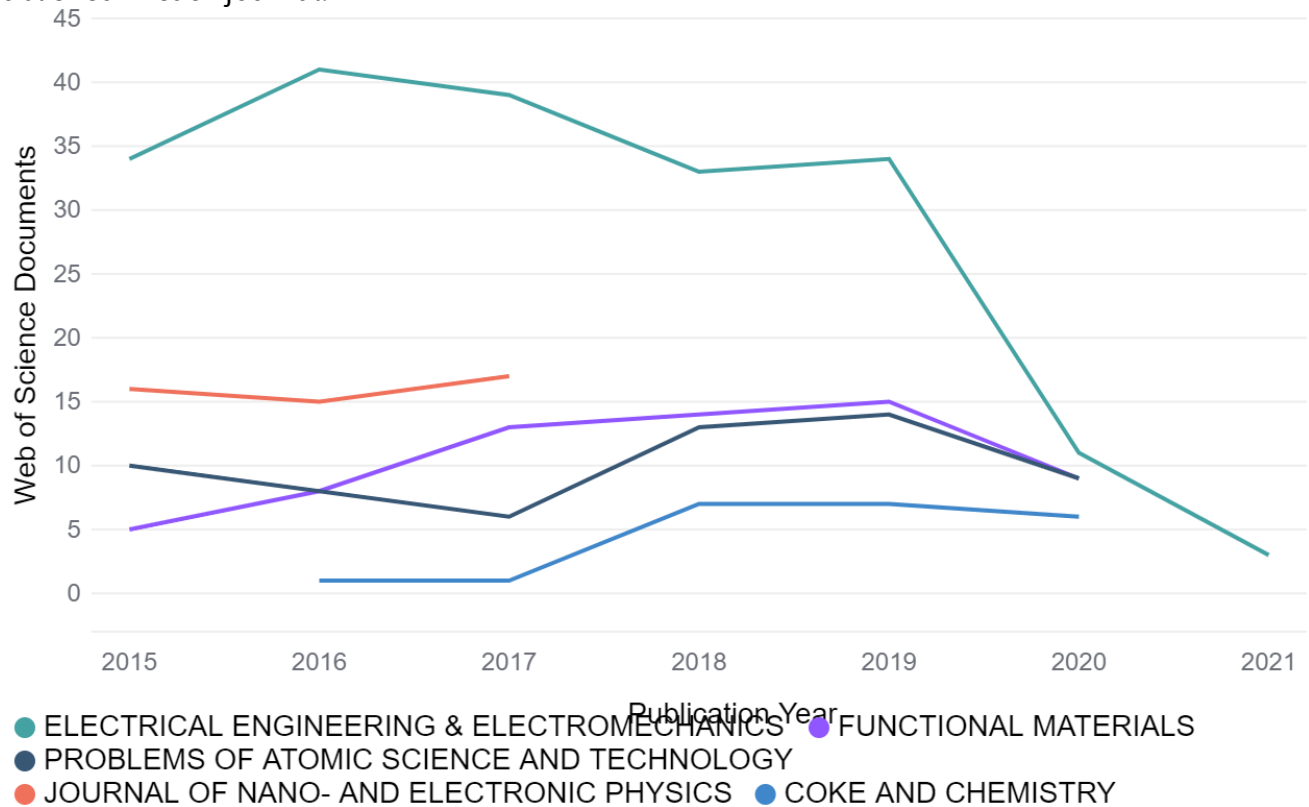
Journal Utilization

Journal Performance

In which journals do National Technical University Kharkiv Polytechnic Institute authors outperform the average journal citation rate? Journals are ranked by Journal Normalized Citation Impact, identifying journals where the selected institution is having the most impact with respect to other documents published in the journal.



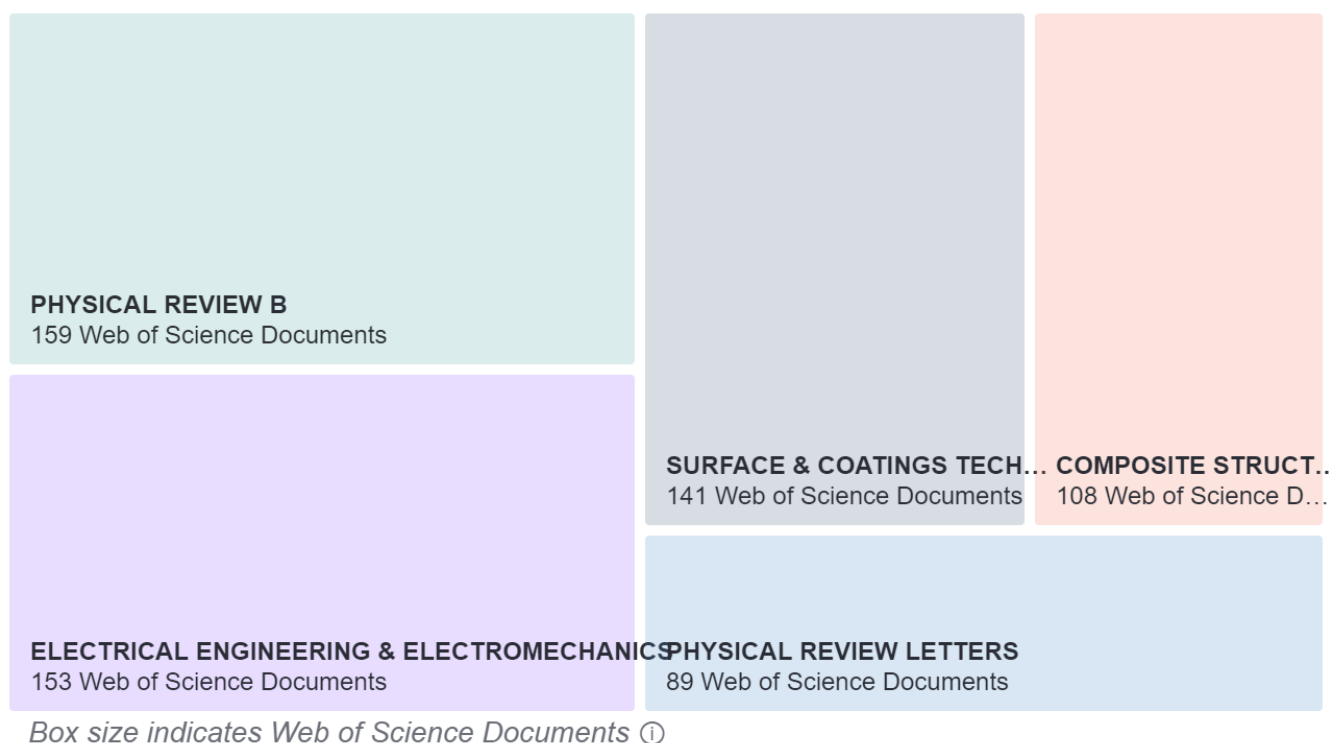
In which journals do National Technical University Kharkiv Polytechnic Institute authors publish most frequently? Journals are ranked by the number of documents the selected institution has published in each journal.



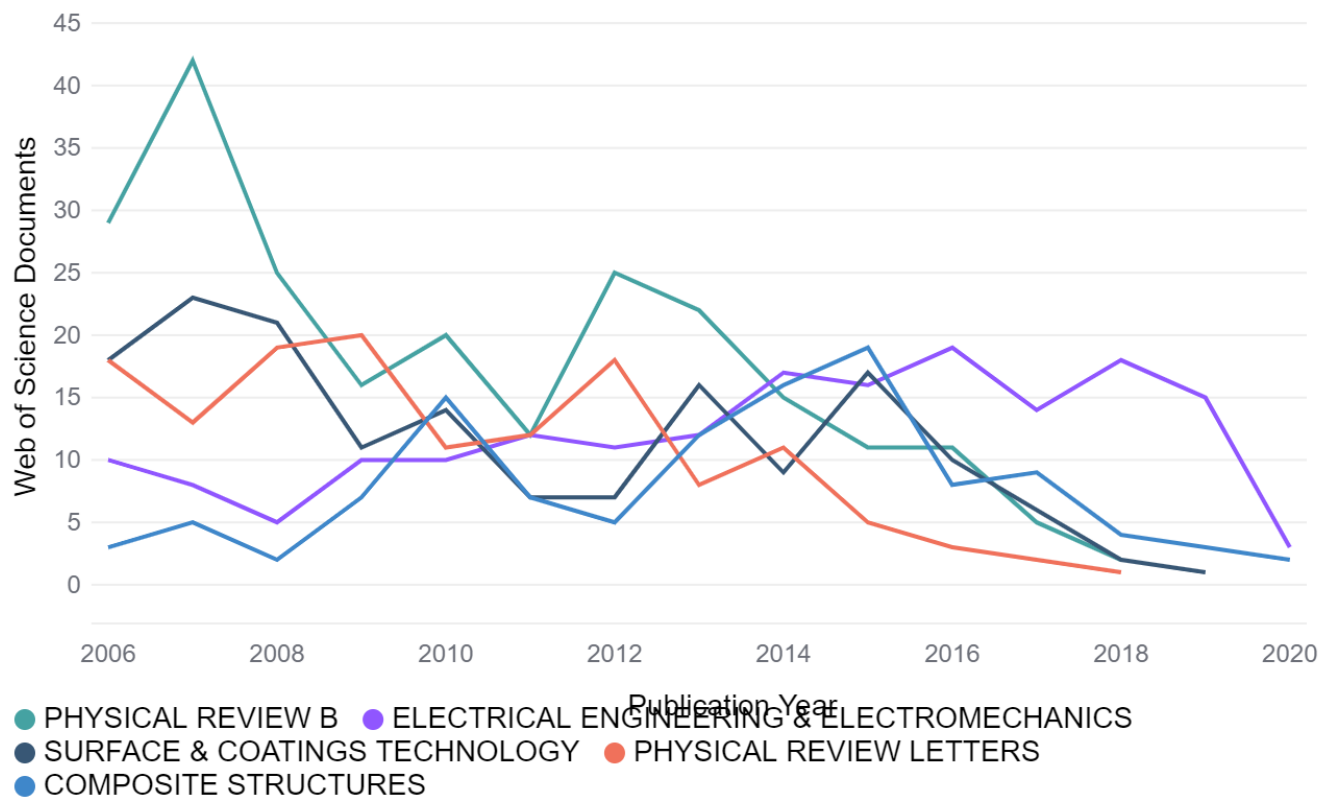
Cited Journals

Which journals are National Technical University Kharkiv Polytechnic Institute authors citing?

Cited journals are ranked by the number of Web of Science documents cited by the selected institution and includes documents cited 2006 to present by documents published within the time period selected.



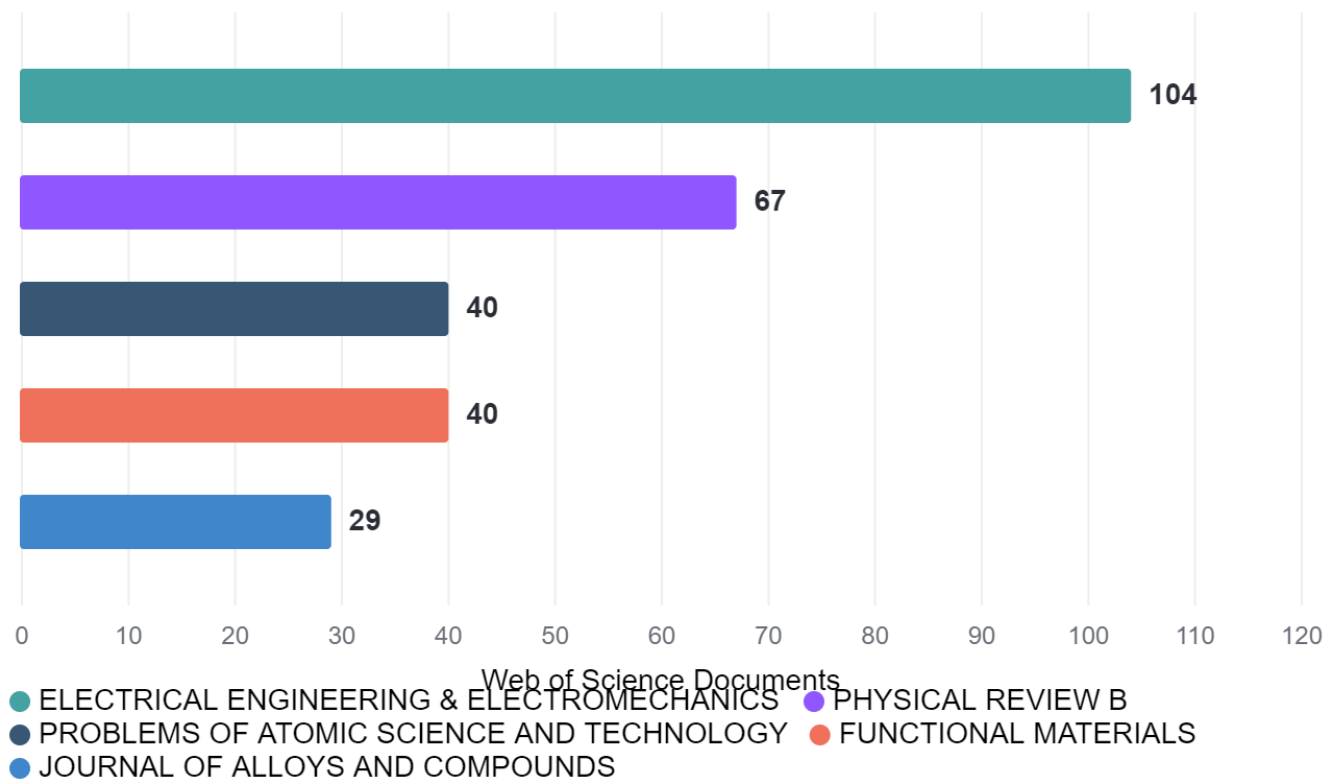
Are National Technical University Kharkiv Polytechnic Institute authors citing recent or older material? Cited journals are ranked by the number of Web of Science documents cited by selected institution. Included are documents cited 2006 to present by documents published 2006 to present irrespective of the time period selected.



Citing Journals

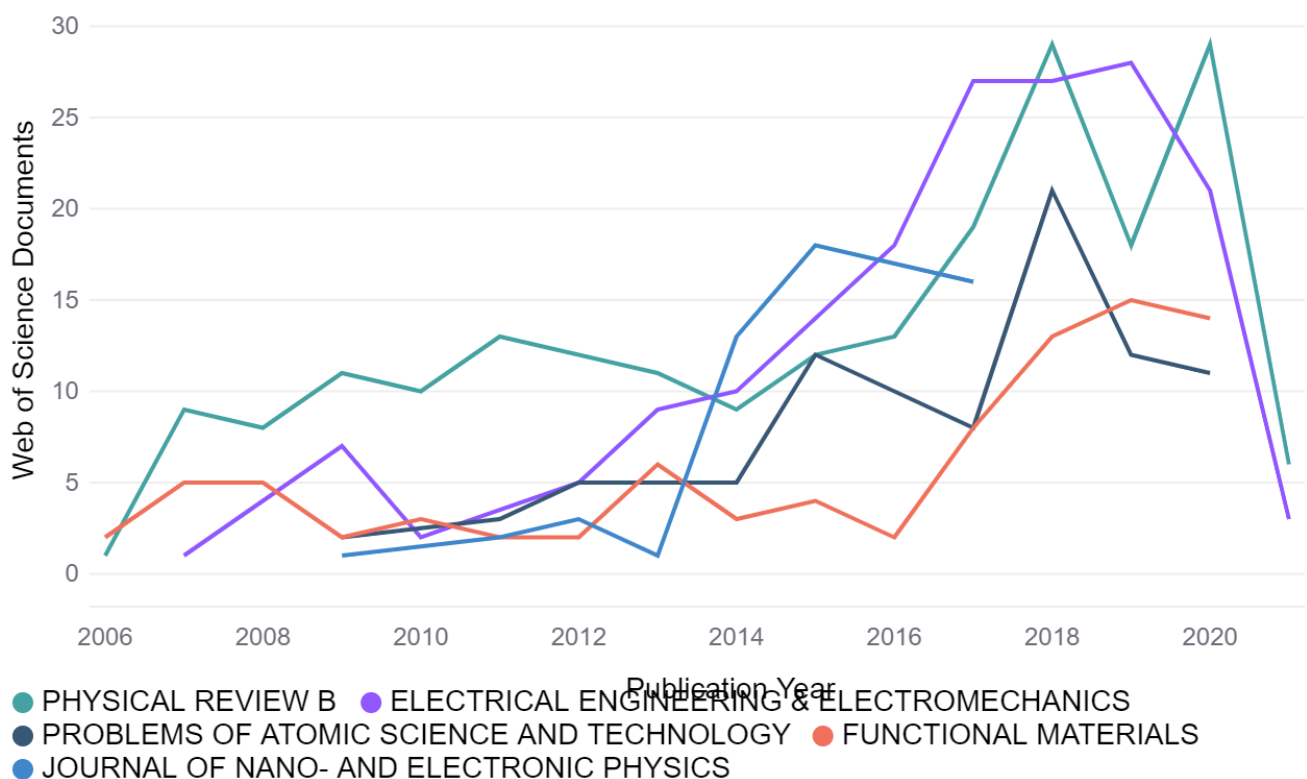
Which journals are citing National Technical University Kharkiv Polytechnic Institute authors?

Citing journals are ranked by the number of Web of Science documents citing selected institution and includes documents published 2006 to present that are citing documents published within the time period selected.



Are National Technical University Kharkiv Polytechnic Institute authors being cited by recent or older material?

Citing journals are ranked by the number of Web of Science documents citing selected institution. Included are documents published 2006 to present that are citing documents published 2006 to present irrespective of the time period selected.



Most Cited Documents

Most Cited Web of Science Documents

Article Title	Times Cited
Carbon Honeycomb High Capacity Storage for Gaseous and Liquid Species PHYSICAL REVIEW LETTERS 2016	101
Multiple-stable anisotropic magnetoresistance memory in antiferromagnetic MnTe NATURE COMMUNICATIONS 2016	90
Structure and properties of arc evaporated nanoscale TiN/MoN multilayered systems INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS 2015	62
Computational simulations of thermal shock cracking by the virtual crack closure technique in a functionally graded plate COMPUTATIONAL MATERIALS SCIENCE 2016	49
Entanglement and manipulation of the magnetic and spin-orbit order in multiferroic Rashba semiconductors NATURE COMMUNICATIONS 2016	42
Modelling functionally graded materials in heat transfer and thermal stress analysis by means of graded finite elements APPLIED MATHEMATICAL MODELLING 2017	40
Large magnetic gap at the Dirac point in Bi₂Te₃/MnBi₂Te₄ heterostructures NATURE 2019	36
Topological Engineering of Interfacial Optical Tamm States for Highly Sensitive Near-Singular-Phase Optical Detection ACS PHOTONICS 2018	32
Massive and massless Dirac fermions in Pb_{1-x}Sn_xTe topological crystalline insulator probed by magneto-optical absorption SCIENTIFIC REPORTS 2016	30
Multilayered vacuum-arc nanocomposite TiN/ZrN coatings before and after annealing: Structure, properties, first-principles calculations MATERIALS CHARACTERIZATION 2017	29