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A satellite image of the African continent, showing various geographical features like the Sahara Desert, the Nile River, and the Great Rift Valley. The image is used as a background for the text.

Elsevier congratulates the
University of KwaZulu-Natal
for continued research
excellence.

UKZN Pris conference

University of KwaZulu-Natal

Research output snapshot

UKZN Research output

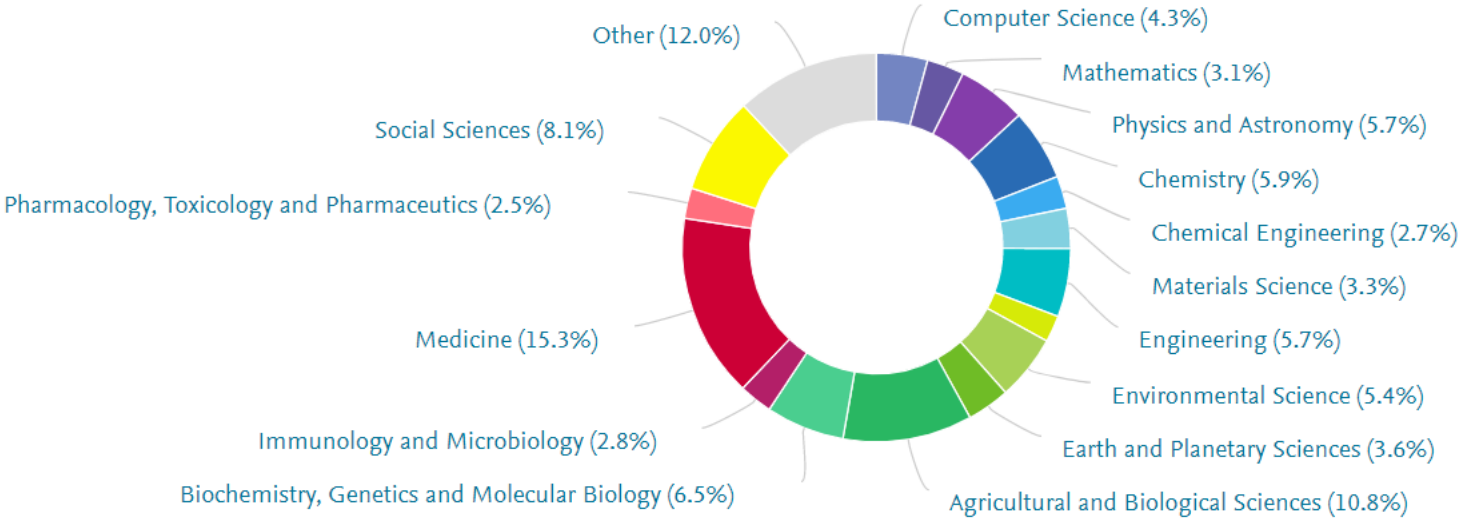
Overall research performance

13,926 ▲ Scholarly Output ⓘ	6,232 ▲ Authors	1.60 Field-Weighted Citation Impact ⓘ
164,083 Citation Count ⓘ	11.8 Citations per Publication ⓘ	97 h5-index ⓘ

[View list of publications](#)

Publications by Subject Area

Donut Chart

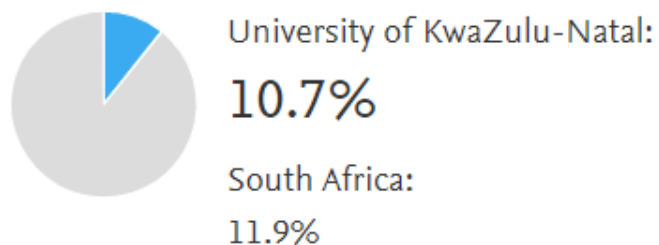


Outputs in Top Citation Percentiles ⓘ

+ Add to Reporting

Publications in top 10% most cited worldwide

Show as field-weighted

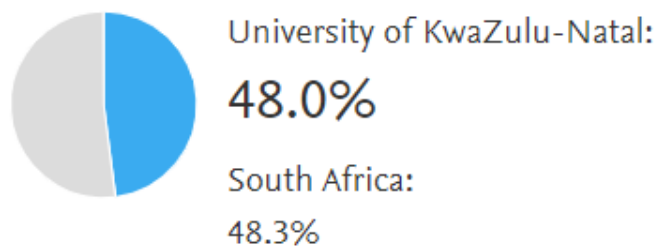


> Analyze in more detail

International Collaboration ⓘ

+ Add to Reporting

Publications co-authored with Institutions in other countries/regions



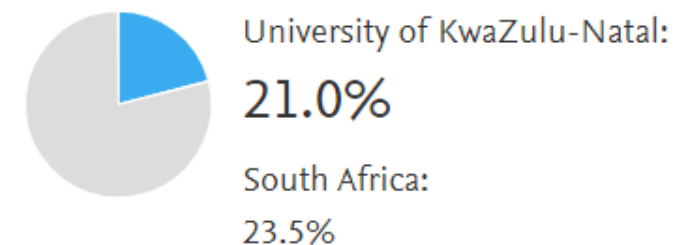
ELSEVIER

Publications in Top Journal Percentiles ⓘ

+ Add to Reporting

Publications in top 10% journals

by CiteScore Percentile

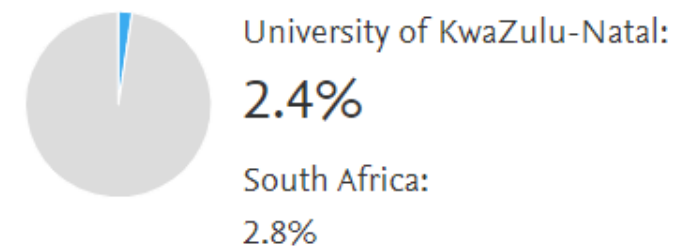


> Analyze in more detail

Academic-Corporate Collaboration ⓘ

+ Add to Reporting

Publications with both academic and corporate affiliations



Your trusted partner in research... 4 out of 5 of the most cited publications from UKZN were published with Elsevier

Most cited publications

[+ Add to Reporting](#)

Top 5 publications at the University of KwaZulu-Natal, by number of citations

Publication	Citations
<p>Planck 2015 results: XIII. Cosmological parameters. Ade, P.A.R., Aghanim, N., Arnaud, M. and 258 more (2016) <i>Astronomy and Astrophysics</i>, 594. View in Scopus ↗</p>	4,400
<p>Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013: A systematic analysis for the Global Burden of Disease Study 2013. Naghavi, M., Wang, H., Lozano, R. and 714 more (2015) <i>The Lancet</i>, 385 (9963), pp. 117-171. View in Scopus ↗</p>	4,031
<p>Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990-2013: A systematic analysis for the Global Burden of Disease Study 2013. Vos, T., Barber, R.M., Bell, B. and 676 more (2015) <i>The Lancet</i>, 386 (9995), pp. 743-800. View in Scopus ↗</p>	3,144

Global, regional, and national incidence, prevalence, and years lived with disability for 310 diseases and injuries, 1990–2015: a systematic analysis for the Global Burden of Disease Study 2015.

2,644

, Vos, T., Allen, C. and 638 more

(2016) *The Lancet*, 388 (10053), pp. 1545-1602.

[View in Scopus ↗](#)

Global, regional, and national life expectancy, all-cause mortality, and cause-specific mortality for 249 causes of death, 1980–2015: a systematic analysis for the Global Burden of Disease Study 2015.




2,550

, Wang, H., Naghavi, M. and 769 more

(2016) *The Lancet*, 388 (10053), pp. 1459-1544.

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Top 3 topics of prominence for UKZN researchers



Topic Cluster	At this Institution			Worldwide
	Scholarly Output ↓	Publication Share	Field-Weighted Citation Impact	Prominence percentile
HIV; HIV Infections; HIV-1 TC.17	785	1.79% ▼	1.38	95.984 
Gravitation; Black Holes (Astronomy); Models TC.15	222	0.54% ▼	4.01	95.850 
Tuberculosis; Mycobacterium Tuberculosis; Multidrug-Resistant Tuberculosis TC.72	210	0.75% ▲	1.87	90.562 

Institutions with the highest research output per topic of prominence (Africa top 100)

HIV; HIV Infections; HIV-1
TC.17

Top 100 Institutions in this Topic Cluster, by Scholarly Output

 View on Chart

<input type="checkbox"/> Institution	Scholarly Output ↓	Views Count ▼	Field-Weighted Citation Impact ▼	Citation Count ▼
1. <input type="checkbox"/>  University of the Witwatersrand	1,138	21,337	1.51	12,043
2. <input type="checkbox"/>  University of Cape Town	1,073	23,061	1.96	14,925
3. <input type="checkbox"/>  University of KwaZulu-Natal	785	15,752	1.38	8,137

Gravitation; Black Holes (Astronomy); Models
TC.15

Institution

Scholarly
Output ↓

Views Count ▼


Field-Weighted
Citation Impact ▼

Citation Count ▼

1.	<input type="checkbox"/>	 University of KwaZulu-Natal	222	6,338	4.01	11,823
2.	<input type="checkbox"/>	 University of Cape Town	177	2,021	1.03	1,745
3.	<input type="checkbox"/>	 University of the Witwatersrand	136	1,317	0.87	1,006

Tuberculosis; Mycobacterium Tuberculosis;
Multidrug-Resistant Tuberculosis
TC.72

Top 100 Institutions in this Topic Cluster, by Scholarly Output

 View on Chart

Institution

Scholarly
Output ↓

Views Count ▼

Field-Weighted
Citation Impact ▼

Citation Count ▼

1.	<input type="checkbox"/>	 University of Cape Town	769	17,576	2.51	15,926
2.	<input type="checkbox"/>	 University of Stellenbosch	554	11,903	2.16	9,631
3.	<input type="checkbox"/>	 South African Medical Research Council	362	8,503	2.34	6,873
4.	<input type="checkbox"/>	 University of the Witwatersrand	276	5,247	2.24	4,376
5.	<input type="checkbox"/>	 Makerere University	220	3,808	1.72	3,009
6.	<input type="checkbox"/>	 University of KwaZulu-Natal	210	4,277	1.87	2,917



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*CiteScore 2019 | **Scopus analysis 2018

ScienceDirect Topics deliver students and researchers contextual information at the time of need, providing seamless flow between journal articles and relevant book content

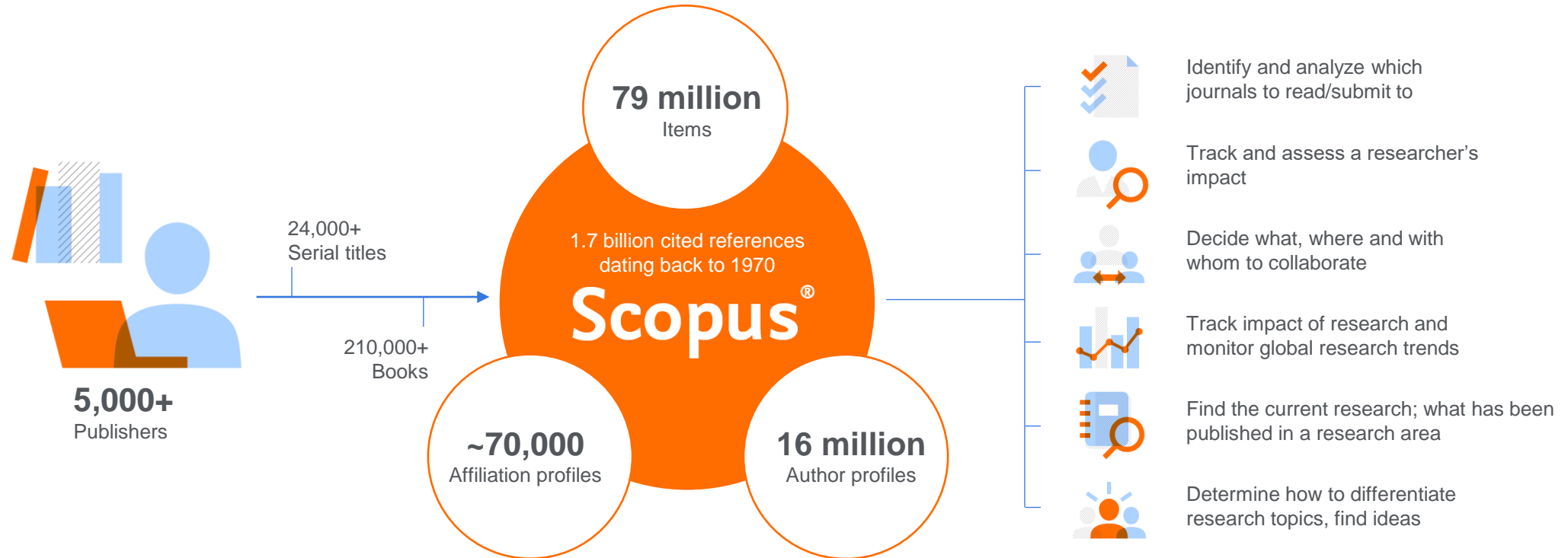
Google search results for "Polarization Resistance". The search bar shows "Polarization Resistance" and the results indicate "About 35,600,000 results (0.45 seconds)". A featured snippet is highlighted with a red box, containing the definition: "Polarization resistance is defined as the resistance of the specimen to oxidation during the application of an external potential. The corrosion rate is directly related to the R_p and can be calculated from it." Below the snippet are navigation links: "www.sciencedirect.com > topics > chemistry > polarizatio...", "Polarization Resistance - an overview | ScienceDirect Topics", and "About Featured Snippets" and "Feedback" buttons. A "People also ask" section is visible at the bottom with questions like "How do you calculate polarization resistance?" and "What is linear polarization resistance?".

ScienceDirect Topics page for "Polarization Resistance". The page features a dark header with the ScienceDirect logo and "Journals & Books" text. The main content area is divided into several sections:

- 1 Polarization Resistance**: A definition: "Polarization resistance is defined as the resistance of the specimen to oxidation during the application of an external potential." It includes a citation: "From: 4M 2006 - Second International Conference on Multi-Material Micro Manufacture, 2006".
- 2 Related terms**: A list of related terms including "Magnesium Atom, Magnesium Alloy, Behavior as Electrode, Corrosion Potential, Cathode, Corrosion Resistance, Anode," and a "View all Topics" link.
- 3 Corrosion Monitoring**: A section titled "Protective coating of zinc and zinc alloys for industrial applications" by Y. Toshev, ... K. Kostadinov, in "4M 2006 - Second International Conference on Multi-Material Micro Manufacture, 2006". It discusses the corrosion behavior of electro-deposited Zn and Zn-Co coatings and mentions that polarization resistance (R_p) measurements are used to determine the protective ability of electro-deposited coatings. It includes a bar chart showing corrosion current density (i_{cor}) for different samples.
- 4**: A section titled "3.3 LPR" (Linear Polarization Resistance) which describes the technique and provides the equation $R_p = \eta E / \eta i = B / I_{cor}$. It explains that the corrosion rate can be calculated from I_{cor} using Faraday's law.

 The page also includes buttons for "Download as PDF", "Set alert", "About this page", "Read full chapter", "View PDF", and "Download book".

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Across all subjects and content types

Number of journals by subject area

	Journals	Conference	Books
Physical sciences 13,312	25,302 Peer-reviewed journals	101K Conference events	852 Book series
Health sciences 14,448	294 Trade journals	9.9M Conference papers Mainly Engineering, mathematics, physics and computer sciences	60K Volumes
Social sciences 12,464	5,527 Active gold open access journals		1.8M Items
Life sciences 7,295	>8,000 Articles in press Full metadata, abstracts and cited references		220,000+ Stand-alone books Mainly social sciences and arts & humanities

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