

RESEARCH IMPACT REPORT | EVIDENCE BRIEF

Global Citation Footprint of Nanoscience & Nanotechnology Interdisciplinary Research

Aryabhatta Knowledge University, Patna

Research profile: Dr. Rakesh Kumar Singh (48 year), Head (In-charge), School/Centre for Nanoscience & Nanotechnology, AKU and Former Registrar of Aryabhatta Knowledge University (AKU), Patna

Data snapshot: 16 July 2026

Headline finding: A conservative affiliation-based analysis identifies 1,510 publications external to AKU that cite the verified AKU corpus, spanning 95 countries and 1,757 identifiable institutions

100+ verified AKU-affiliated works	1,510+ external citing publications	95+ countries represented
1,800+ external citation links	1,757+ identified institutions	1,324+ institutions outside India

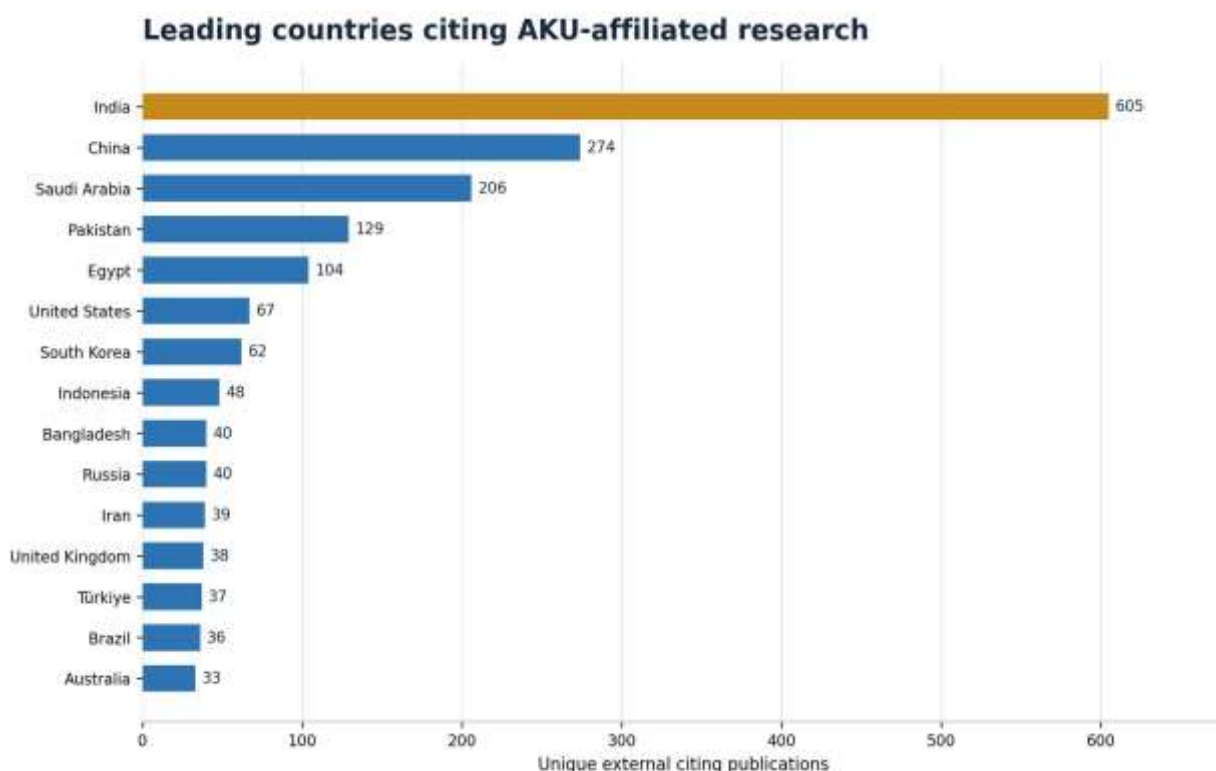


Figure 1. Unique external citing publications with at least one affiliation in each country. India is highlighted. Counts are not additive because international citations can represent more than one country.

Interpretation for Government/ University: The citation footprint demonstrates that research associated with Aryabhatta Knowledge University(AKU's) Nanoscience & Nanotechnology Programme is being used across a wide international and national institutional network,

Global Research Impact of Dr. Rakesh Kumar Singh and His Research Group
School of Nanoscience & Nanotechnology, Aryabhatta Knowledge University (AKU), Patna

100 displayed ResearchGate records	35 stated country/location categories	71 identified institutions in sample
Country/location	Displayed records	Evidence note
India	19	ResearchGate profile display
Saudi Arabia	16	ResearchGate profile display
China	6	ResearchGate profile display
Tunisia	6	ResearchGate profile display
Serbia	5	ResearchGate profile display
Egypt	4	ResearchGate profile display
Bulgaria	4	ResearchGate profile display
Iraq	3	ResearchGate profile display
Brazil	2	ResearchGate profile display
South Africa	2	ResearchGate profile display
Bangladesh	2	ResearchGate profile display
United Kingdom	2	ResearchGate profile display

Table 1. Leading locations in the supplied ResearchGate display sample. The unit is a displayed researcher-profile citation record, not an OpenAlex unique citing publication.

Court-use safeguard: Annex the underlying date-stamped Google Scholar profile, ResearchGate statistics PDF and the institutional publication list wherever possible. This brief should be cited as a structured analysis of those public records, not as a certificate issued by

Leading Countries and Institutions

India provides the largest national citation base, while China, Saudi Arabia, Pakistan, Egypt, the United States, South Korea, Indonesia, Bangladesh and Russia form the strongest international groups in the verified dataset.

No.	Country	Citing pubs.	Verified inst.	Leading citing institutions (publications)
1	India	605	433	Indian Institute of Technology Patna (39); University of Delhi (31); Osmania University (26)
2	China	274	264	Chinese Academy of Sciences (26); University of Electronic Science and Technology of China (15); University of Chinese Academy of Sciences (11)
3	Saudi Arabia	206	34	King Saud University (69); King Khalid University (39); Imam Abdulrahman Bin Faisal University (18)
4	Pakistan	129	61	Islamia University of Bahawalpur (43); University of the Punjab (28); Government College University, Faisalabad (21)
5	Egypt	104	45	Alexandria University (19); Ain Shams University (14); Al-Azhar University (14)
6	United States	67	66	The University of Texas at El Paso (7); Auburn University (6); Applications Research (United States) (2)
7	South Korea	62	45	Chungbuk National University (8); Hankuk University of Foreign Studies (8); Cheongju National University of Education (5)
8	Indonesia	48	38	National Research and Innovation Agency (13); National Nuclear Energy Agency of Indonesia (9); Pelita Harapan University (4)
9	Bangladesh	40	24	Bangladesh Atomic Energy Commission (12); Bangladesh Council of Scientific and Industrial Research (11); Bangladesh University of Engineering and Technology (9)
10	Russia	40	36	National University of Science and Technology (15); South Ural State University (11); Moscow Institute of Physics and Technology (6)
11	Iran	39	37	Damghan University (6); Yazd University (6); Persian Gulf University (5)
12	United Kingdom	38	33	University of Bradford (5); University of Oxford (4); University College London (3)
13	Türkiye	37	38	Istanbul Medeniyet University (7); Cukurova University (5); Sakarya University (5)
14	Brazil	36	38	Universidade Federal do Amazonas (6); Universidade Federal do Rio Grande do Norte (6); Universidade Federal de Pernambuco (5)
15	Australia	33	16	UNSW Sydney (19); Division of Materials Science and Engineering (16); Curtin University (2)

Global Research Impact of Dr. Rakesh Kumar Singh and His Research Group
School of Nanoscience & Nanotechnology, Aryabhatta Knowledge University (AKU), Patna

16	Poland	26	26	AGH University of Krakow (7); Jagiellonian University (3); Silesian University of Technology (3)
17	Malaysia	25	15	Universiti Malaysia Pahang Al-Sultan Abdullah (5); Universiti Teknologi MARA (5); University of Malaya (4)
18	Spain	25	20	Universitat Rovira i Virgili (4); Universidad Complutense de Madrid (3); Universitat de València (3)
19	Mexico	24	32	Autonomous University of San Luis Potosí (5); Universidad Nacional Autónoma de México (5); Universidad Autónoma del Estado de Hidalgo (4)
20	Lebanon	23	10	Beirut Arab University (16); Lebanese University (5); Modern University for Business and Science (4)

Table 2. Top 20 countries. “Citing publications” means unique publications external to AKU with a resolved affiliation in that country; “verified institutions” is the number of distinct OpenAlex-affiliated institutions observed in that country.

Leading Citing Institutions

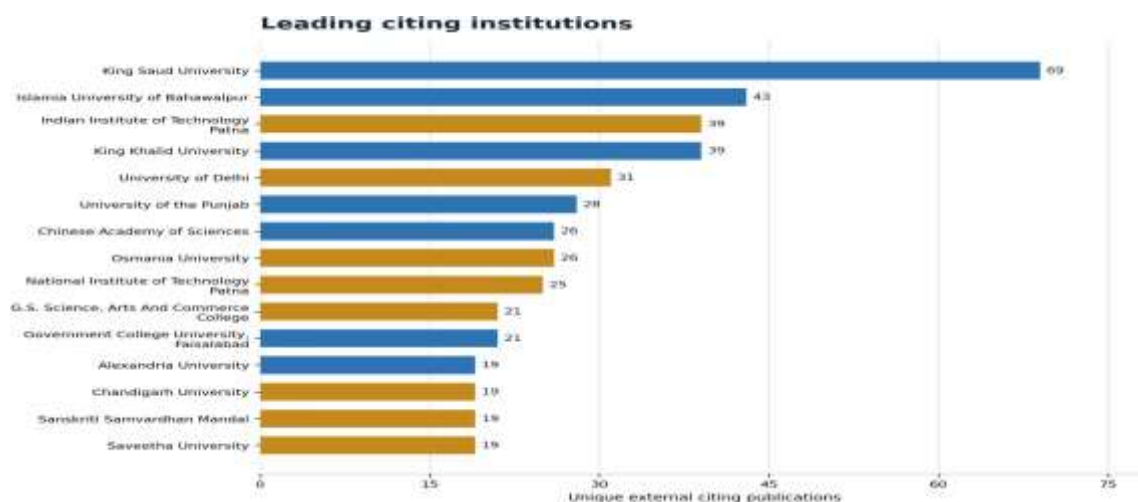


Figure 2. Leading institutions by unique external citing publications. Indian institutions are highlighted; AKU-affiliated citing publications are excluded.

No.	Institution	Country	Citing pubs.	Status
1	King Saud University	Saudi Arabia	69	Outside India
2	Islamia University of Bahawalpur	Pakistan	43	Outside India
3	Indian Institute of Technology Patna	India	39	India
4	King Khalid University	Saudi Arabia	39	Outside India
5	University of Delhi	India	31	India
6	University of the Punjab	Pakistan	28	Outside India
7	Chinese Academy of Sciences	China	26	Outside India
8	Osmania University	India	26	India
9	National Institute of Technology Patna	India	25	India
10	G.S. Science, Arts And Commerce College	India	21	India
11	Government College University, Faisalabad	Pakistan	21	Outside India
12	Alexandria University	Egypt	19	Outside India
13	Chandigarh University	India	19	India
14	Sanskriti Samvardhan Mandal	India	19	India
15	Saveetha University	India	19	India

Table 3. Top 15 external citing institutions in the verified OpenAlex dataset.

Statement for official presentation: The Nanoscience & Nanotechnology research associated with Aryabhatta Knowledge University, Patna, has achieved demonstrable national and international visibility. A conservative bibliometric verification of 105 AKU-affiliated publications identifies 1,510 citing publications external to AKU, involving 1,757 institutions across 95 countries, including 1,324 institutions outside India. This evidence establishes that research developed in Bihar is being consulted and cited by a geographically diverse global scientific community.

Key Public-Value Implications

Visibility of Bihar. The research places a Bihar state university within active international scientific networks in advanced materials and nanotechnology.

National missions. The corpus aligns with priorities in the National Nano Mission, clean water, sustainable materials, energy generation, semiconductor/optoelectronic materials, and waste-to-wealth research.

Human-resource value. The citation footprint provides external evidence that the research themes pursued at AKU are relevant to active scientific communities and suitable for advanced teaching, doctoral supervision and innovation-led capacity building.

Institutional case. The evidence supports continued strengthening of the School/Centre through research infrastructure, faculty support, interdisciplinary programmes, collaborations and technology translation.

Sources and Verification Links

1. **Google Scholar profile** — Dr. Rakesh Kumar Singh. <https://scholar.google.com/citations?user=gOZNJ-oAAAAJ&hl=en> — researcher identity and headline Google Scholar citation record
2. **Vidwan/INFLIBNET profile** — Vidwan ID 339272. <https://vapt3.irins.org/profile/339272> — Ministry of Education-supported identity record linking AKU, ORCID and Google Scholar ID
3. **OpenAlex API documentation.** <https://developers.openalex.org/api-reference/introduction> — official description of works, authors, institutions, countries and citation connections
4. **Dr. Rakesh Kumar Singh — public research profile.** <https://drrakeshsingh.com/> — research areas and institutional context
5. **AKU School/Centre for Nanoscience & Nanotechnology annual report.** <https://acnn.akubihar.ac.in/downloads/Annual%20report-23-24-Nanotechnology.pdf> — institutional record of Centre activities
6. **ResearchGate profile statistics export dated 16 July 2026.** Supplied by the researcher; the standardized 100-row extraction is reproduced in Appendix B.

Certification Note

This document is a bibliometric presentation prepared from public records. It is suitable as a research-impact brief, but it is not a certificate issued by Google Scholar, OpenAlex, INFLIBNET or Aryabhatta Knowledge University. For formal filing, the submitting authority may annex date-stamped profile printouts and, where required, an institutional certification of the publication list.

Prepared on 16 July 2026

Appendix A — Country–Institution Citation Directory

Global Research Impact of Dr. Rakesh Kumar Singh and His Research Group
School of Nanoscience & Nanotechnology, Aryabhatta Knowledge University (AKU), Patna

The appendix covers all 95 countries identified in the conservative dataset. Up to five leading citing institutions are shown for each country; the complete analysis includes 1,757 distinct institutions.

No.	Country	Citing pubs.	Verified inst.	Leading citing institutions (publications)
1	India	605	433	Indian Institute of Technology Patna (39); University of Delhi (31); Osmania University (26); National Institute of Technology Patna (25); G.S. Science, Arts And Commerce College (21)
2	China	274	264	Chinese Academy of Sciences (26); University of Electronic Science and Technology of China (15); University of Chinese Academy of Sciences (11); National Engineering Research Center of Electromagnetic Radiation Control Materials (10); Nanjing University of Information Science and Technology (8)
3	Saudi Arabia	206	34	King Saud University (69); King Khalid University (39); Imam Abdulrahman Bin Faisal University (18); Princess Nourah bint Abdulrahman University (17); King Fahd University of Petroleum and Minerals (13)
4	Pakistan	129	61	Islamia University of Bahawalpur (43); University of the Punjab (28); Government College University, Faisalabad (21); University of Education (15); University of Okara (14)
5	Egypt	104	45	Alexandria University (19); Ain Shams University (14); Al-Azhar University (14); National Research Centre (14); Pharos University in Alexandria (11)
6	United States	67	66	The University of Texas at El Paso (7); Auburn University (6); Applications Research (United States) (2); Iowa State University (2); Kennesaw State University (2)
7	South Korea	62	45	Chungbuk National University (8); Hankuk University of Foreign Studies (8); Cheongju National University of Education (5); Seoul National University (5); Yeungnam University (5)
8	Indonesia	48	38	National Research and Innovation Agency (13); National Nuclear Energy Agency of Indonesia (9); Pelita Harapan University (4); Sebelas Maret University (4); Sriwijaya University (4)
9	Bangladesh	40	24	Bangladesh Atomic Energy Commission (12); Bangladesh Council of Scientific and Industrial Research (11); Bangladesh University of Engineering and Technology (9); University of Dhaka (7); Khulna University of Engineering and Technology (6)
10	Russia	40	36	National University of Science and Technology (15); South Ural State University (11); Moscow Institute of Physics and Technology (6); Joint Institute for Nuclear Research (5); St Petersburg University (5)
11	Iran	39	37	Damghan University (6); Yazd University (6); Persian Gulf University (5); Isfahan University of Technology (3); Kharazmi University (3)
12	United Kingdom	38	33	University of Bradford (5); University of Oxford (4); University College London (3); Queen's University Belfast (2); University of Leeds (2)
13	Türkiye	37	38	Istanbul Medeniyet University (7); Cukurova University (5); Sakarya University (5); Hitit Üniversitesi (3); Bahçeşehir University (2)
14	Brazil	36	38	Universidade Federal do Amazonas (6); Universidade Federal do Rio Grande do Norte (6); Universidade Federal de Pernambuco (5); Universidade do Estado do Rio Grande do Norte (4); Instituto Federal do Amazonas (3)
15	Australia	33	16	UNSW Sydney (19); Division of Materials Science and Engineering (16); Curtin University (2); Department of Commerce (2); University of Technology Sydney (2)
16	Poland	26	26	AGH University of Krakow (7); Jagiellonian University (3); Silesian University of Technology (3); University of Warmia and Mazury in Olsztyn (3); Akademia Techniczno-Artystyczna Nauk Stosowanych w Warszawie (2)
17	Malaysia	25	15	Universiti Malaysia Pahang Al-Sultan Abdullah (5); Universiti Teknologi MARA (5); University of Malaya (4); INTI International University (3); National University of Malaysia (2)
18	Spain	25	20	Universitat Rovira i Virgili (4); Universidad Complutense de Madrid (3); Universitat de València (3); Basque Center for Materials, Applications and Nanostructures (2); Instituto de Ciencia y Tecnología de Polímeros (2)

Global Research Impact of Dr. Rakesh Kumar Singh and His Research Group
School of Nanoscience & Nanotechnology, Aryabhatta Knowledge University (AKU), Patna

Appendix A — Country–Institution Citation Directory (continued: entries 19–38)

No.	Country	Citing pubs.	Verified inst.	Leading citing institutions (publications)
19	Mexico	24	32	Autonomous University of San Luis Potosí (5); Universidad Nacional Autónoma de México (5); Universidad Autónoma del Estado de Hidalgo (4); Centro de Investigación en Materiales Avanzados (3); National College (3)
20	Lebanon	23	10	Beirut Arab University (16); Lebanese University (5); Modern University for Business and Science (4); National Council for Scientific Research (4); American University of Beirut (1)
21	France	21	31	Centre National de la Recherche Scientifique (15); Institut Néel (4); Université Joseph Fourier (4); Institut de Chimie et des Matériaux Paris-Est (3); Université Paris-Est Créteil (3)
22	Tunisia	20	10	University of Kairouan (7); University of Monastir (7); Tunis El Manar University (4); University of Gabès (4); University of Sfax (4)
23	Germany	19	20	RWTH Aachen University (2); University of Wuppertal (2); Bielefeld University (1); Deutsches Elektronen-Synchrotron DESY (1); Freie Universität Berlin (1)
24	Vietnam	19	23	Duy Tan University (10); University of Da Nang (5); VNU University of Science (4); Vietnam National University, Hanoi (4); Thai Nguyen University (3)
25	Japan	18	15	The University of Tokyo (4); Kyushu Institute of Technology (2); Nagasaki University (2); Toyohashi University of Technology (2); Akita Prefectural University (1)
26	Morocco	18	11	Mohammed V University (12); University of Hassan II Casablanca (5); Université Sultan Moulay Slimane (4); Université Ibn Zohr (3); Cadi Ayyad University (2)
27	Iraq	17	16	University of Technology - Iraq (5); Thi Qar University (3); Tishk International University (3); University of Kerbala (3); Al-Ayen Iraqi University (2)
28	Taiwan	16	15	National Yunlin University of Science and Technology (3); I-Shou University (2); National Taiwan University (2); National Taiwan University of Science and Technology (2); Cheng Shiu University (1)
29	United Arab Emirates	14	9	United Arab Emirates University (3); University of Sharjah (3); Amity University (2); Abu Dhabi University (1); Ajman University (1)
30	Nigeria	13	15	Adekunle Ajasin University (2); Benue State University (2); Kogi State University (2); Bayero University Kano (1); Chukwuemeka Odumegwu Ojukwu University (1)
31	Slovakia	13	16	Slovak University of Technology in Bratislava (6); Slovak Academy of Sciences (3); Institute of Electrical Engineering of the Slovak Academy of Sciences (2); Institute of Experimental Physics of the Slovak Academy of Sciences (2); Institute of Physics of the Slovak Academy of Sciences (2)
32	Ethiopia	12	8	Adama Science and Technology University (4); Addis Ababa University (2); Aksum University (2); Addis Ababa Science and Technology University (1); Adigrat University (1)
33	Italy	12	16	Ca' Foscari University of Venice (2); Sapienza University of Rome (2); Istituto Nazionale di Fisica Nucleare, Laboratori Nazionali di Frascati (1); Italian Institute of Technology (1); Marche Polytechnic University (1)
34	South Africa	12	8	University of Johannesburg (5); University of South Africa (5); Sefako Makgatho Health Sciences University (2); Department of Science, Technology and Innovation (1); National Research Foundation (1)
35	Czechia	11	11	Czech University of Life Sciences Prague (3); Charles University (2); Advanced Engineering (Czechia) (1); Brno University of Technology (1); Central European Institute of Technology (1)
36	Portugal	11	9	Universidade do Porto (2); University of Aveiro (2); University of Minho (2); Instituto Superior da Maia (1); Ministry of Education (1)
37	Thailand	10	11	Chiang Mai University (6); Khon Kaen University (3); Synchrotron Light Research Institute (2); Asian Institute of Technology (1); Burapha University (1)
38	Chile	9	13	University of Chile (3); Metropolitan University of Technology (2); Universidad de Santiago de Chile (2); University of Tarapacá (2); Arturo Prat University (1)

Global Research Impact of Dr. Rakesh Kumar Singh and His Research Group
School of Nanoscience & Nanotechnology, Aryabhatta Knowledge University (AKU), Patna

Appendix A — Country–Institution Citation Directory (continued: entries 39–58)

No.	Country	Citing pubs.	Verified inst.	Leading citing institutions (publications)
39	Netherlands	9	6	IHE Delft Institute for Water Education (2); KWR Water Research Institute (2); Wageningen University & Research (2); Delft University of Technology (1); Stenden University of Applied Sciences (1)
40	Sweden	9	3	KTH Royal Institute of Technology (5); Uppsala University (3); Luleå University of Technology (1)
41	Algeria	8	13	Research Center in Industrial Technologies (2); University of Eloued (2); Badji Mokhtar-Annaba University (1); CRSTRA (1); Centre Hospitalo-Universitaire Bab El Oued (1)
42	Canada	8	8	Apotex (Canada) (1); Kellogg's (Canada) (1); Lakehead University (1); University of Alberta (1); University of Northern British Columbia (1)
43	Colombia	8	11	Universidad Nacional de Colombia (3); Universidad de Antioquia (3); Universidad Católica Luis Amigó (2); Colciencias (1); Fundación Universitaria Los Libertadores (1)
44	Belarus	7	6	National Academy of Sciences of Belarus (5); B.I. Stepanov Institute of Physics (1); Brest State A.S. Pushkin University (1); Institute of Chemistry of New Materials of the National Academy of Sciences of Belarus (1); Institute of Mathematics (1)
45	Kuwait	7	3	Kuwait University (4); Gulf University for Science & Technology (2); Australian University, Kuwait (1)
46	Romania	7	11	National Institute for Research and Development of Isotopic and Molecular Technologies (2); National Institute of Materials Physics (2); Alexandru Ioan Cuza University (1); Babeş-Bolyai University (1); Gheorghe Asachi Technical University of Iaşi (1)
47	Tanzania	7	7	The University of Dodoma (4); Nelson Mandela African Institution of Science and Technology (3); Muslim University of Morogoro (2); Mzumbe University (2); University of Dar es Salaam (2)
48	Uzbekistan	7	5	National University of Uzbekistan (5); New Uzbekistan University (3); Urgench State University (2); Academy of Sciences Republic of Uzbekistan (1); Institute of Nuclear Physics (1)
49	Cuba	6	3	University of Holguín (5); University of Granma (1); University of Matanzas (1)
50	Hungary	6	4	National Research, Development and Innovation Office (3); Budapest University of Technology and Economics (1); HUN-REN Wigner Research Centre for Physics (1); University of Pannonia (1)
51	Yemen	6	7	Sana'a University (2); Al-Razi University (1); Albaydha University (1); Amran University (1); Taiz University (1)
52	Bahrain	5	1	University of Bahrain (5)
53	Jordan	5	5	University of Jordan (2); Al-Ahliyya Amman University (1); Isra University (1); Jadara University (1); Middle East University (1)
54	Serbia	5	4	University of Belgrade (4); Institute of Physics Belgrade (1); Serbian Academy of Sciences and Arts (1); University of Novi Sad (1)
55	Ukraine	5	7	Vasyl Stefanyk Carpathian National University (3); G.V. Kurdyumov Institute for Metal Physics (2); Donetsk Institute for Physics and Engineering named after O.O. Galkin (1); Drohobych Ivan Franko State Pedagogical University (1); Institute of Physics (1)
56	Argentina	4	7	Consejo Nacional de Investigaciones Científicas y Técnicas (2); Universidad de Buenos Aires (2); Centro Científico Tecnológico Mar del Plata (1); Instituto de Investigaciones Físicas de Mar del Plata (1); National University of General San Martín (1)
57	Azerbaijan	4	3	Khazar University (2); Azerbaijan National Academy of Sciences (1); Western Caspian University (1)
58	Kazakhstan	4	3	L. N. Gumilyov Eurasian National University (3); Abai Kazakh National Pedagogical University (1); Al-Farabi Kazakh National University (1)

Global Research Impact of Dr. Rakesh Kumar Singh and His Research Group
School of Nanoscience & Nanotechnology, Aryabhatta Knowledge University (AKU), Patna

Appendix A — Country–Institution Citation Directory (continued: entries 59–78)

No.	Country	Citing pubs.	Verified inst.	Leading citing institutions (publications)
59	Kenya	4	6	Kenyatta University (3); Kenya Forestry Research Institute (2); Jomo Kenyatta University of Agriculture and Technology (1); Machakos University (1); Pwani University (1)
60	Oman	4	3	Sohar University (2); Muscat College (1); Sultan Qaboos University (1)
61	Belgium	3	3	IMEC (1); Nutrition Sciences (Belgium) (1); University of Liège (1)
62	Bulgaria	3	6	Bulgarian Academy of Sciences (1); Institute of Electronics (1); Institute of General and Inorganic Chemistry (1); Plovdiv University (1); South-West University "Neofit Rilski" (1)
63	Hong Kong SAR, China	3	2	Hong Kong Polytechnic University (2); City University of Hong Kong (1)
64	Ireland	3	4	Dublin City University (1); Munster Technological University (1); Teagasc - The Irish Agriculture and Food Development Authority (1); University College Dublin (1)
65	Liberia	3	1	University of Liberia (3)
66	Mongolia	3	2	Mongolian University of Science and Technology (2); Mongolian Academy of Sciences (1)
67	Nepal	3	1	Tribhuvan University (3)
68	Sri Lanka	3	4	University of Colombo (1); University of Moratuwa (1); University of Peradeniya (1); University of Sri Jayewardenepura (1)
69	Angola	2	1	Agostinho Neto University (2)
70	Ecuador	2	3	Universidad Ecotec (1); Universidad Técnica de Manabí (1); Universidad Yachay Tech (1)
71	Finland	2	2	Fortum (Finland) (1); University of Turku (1)
72	Laos	2	1	Ministry of Agriculture and Forestry (2)
73	Lithuania	2	2	Center for Physical Sciences and Technology (1); Kaunas University of Technology (1)
74	Norway	2	1	Western Norway University of Applied Sciences (2)
75	Qatar	2	3	Hamad bin Khalifa University (1); Qatar Foundation (1); Qatar University (1)
76	Singapore	2	2	National Centre for Infectious Diseases (1); National University of Singapore (1)
77	Slovenia	2	3	Institute of Mathematics, Physics, and Mechanics (1); Jožef Stefan Institute (1); University of Ljubljana (1)
78	Zimbabwe	2	3	Harare Institute of Technology (1); Midlands State University (1); National University of Science and Technology (1)

Appendix A — Country–Institution Citation Directory (continued: entries 79–95)

No.	Country	Citing pubs.	Verified inst.	Leading citing institutions (publications)
79	Austria	1	1	Campus Science Support Facilities (1)
80	Bosnia and Herzegovina	1	2	Academy of Sciences and Arts of Bosnia and Herzegovina (1); University of Banja Luka (1)
81	Brunei	1	1	Universiti Teknologi Brunei (1)
82	Burkina Faso	1	1	Université Joseph Ki-Zerbo (1)
83	Costa Rica	1	1	Universidad del Valle (1)
84	Cyprus	1	1	KES College (1)
85	El Salvador	1	1	Universidad Politécnica de El Salvador (1)
86	Estonia	1	1	University of Tartu (1)
87	Greece	1	1	University of Thessaly (1)
88	Israel	1	1	Ministry of Defense (1)
89	Myanmar	1	1	University Of Information Technology (1)
90	Niger	1	1	Université Abdou Moumouni (1)
91	Philippines	1	2	Silliman University (1); University of the Philippines Los Baños (1)
92	South Sudan	1	1	Bridge University (1)
93	State of Palestine	1	1	An-Najah National University (1)
94	Switzerland	1	1	University of Basel (1)
95	Venezuela	1	1	Central University of Venezuela (1)

Appendix Table A1. Complete country coverage with leading institutions. Source: OpenAlex public metadata, analysed 16 July 2026.

Appendix B — ResearchGate Displayed Citation Records

The following 100 records reproduce the standardized institution/country extraction supplied from the ResearchGate profile statistics export dated 16 July 2026. Institution text is preserved as supplied; publication titles may be truncated because the source display itself was truncated.

S. No.	Standardized institution / affiliation	Country / location	Cited publication (as displayed)
1	Indian Institute of Technology Kharagpur	India	Single-step synthesis of activated magnetic biochar d...
2	Indian Institute of Technology Kharagpur	India	Single-step synthesis of activated magnetic biochar d...
3	Indian Institute of Technology Kharagpur	India	Single-step synthesis of activated magnetic biochar d...
4	King Fahd University of Petroleum and Minerals	Saudi Arabia	Structural dependence of magnetic, luminescence and...
5	King Fahd University of Petroleum and Minerals	Saudi Arabia	Structural dependence of magnetic, luminescence and...
6	King Fahd University of Petroleum and Minerals	Saudi Arabia	Structural dependence of magnetic, luminescence and...
7	King Fahd University of Petroleum and Minerals	Saudi Arabia	Structural dependence of magnetic, luminescence and...
8	King Fahd University of Petroleum and Minerals	Saudi Arabia	Structural dependence of magnetic, luminescence and...
9	King Fahd University of Petroleum and Minerals	Saudi Arabia	Structural dependence of magnetic, luminescence and...
10	King Fahd University of Petroleum and Minerals	Saudi Arabia	Structural dependence of magnetic, luminescence and...
11	King Fahd University of Petroleum and Minerals	Saudi Arabia	Structural dependence of magnetic, luminescence and...
12	Guangxi Normal University	China	Rice husk biochar -A novel engineered bio-based mat...
13	King Fahd University of Petroleum and Minerals	Saudi Arabia	Structural dependence of magnetic, luminescence and...
14	Institute of Advanced Study in Science and Technology	India	Effect of doping different rare earth ions on microstru...
15	Abasaheb Garware College	India	Hydroelectric cell and hydrogen generation using mag...
16	Abasaheb Garware College	India	Hydroelectric cell and hydrogen generation using mag...
17	Pimpri Chinchwad College of Engineering	India	Hydroelectric cell and hydrogen generation using mag...
18	Yangzhou University	China	Lattice Strain Mediated Dielectric and Magnetic Prope...
19	Institute of Advanced Study in Science and Technology	India	Effect of doping different rare earth ions on microstru...
20	Yangzhou University	China	Lattice Strain Mediated Dielectric and Magnetic Prope...
21	BVRIT Hyderabad College of Engineering for Women	India	Rare earth (Nd 3+) mediated structural, magnetic, fer...
22	Tezpur University	India	Effect of doping different rare earth ions on microstru...
23	Southwest Jiaotong University	China	Tuning the structural, magnetic and multiferroic prope...
24	University of Tokyo	Japan	Lattice Strain Mediated Dielectric and Magnetic Prope...
25	Vasavi College of Engineering	India	Rare earth (Nd 3+) mediated structural, magnetic, fer...
26	University of Novi Sad	Serbia	Review on arsenic removal using biochar-based materi...
27	Telangana University	India	Rare earth (Nd 3+) mediated structural, magnetic, fer...
28	University of Novi Sad	Serbia	Review on arsenic removal using biochar-based materi...
29	University of Novi Sad	Serbia	Review on arsenic removal using biochar-based materi...
30	University of Novi Sad	Serbia	Review on arsenic removal using biochar-based materi...
31	University of Novi Sad	Serbia	Review on arsenic removal using biochar-based materi...
32	Not stated in source PDF	Not stated in source PDF	Spin-Polarized Room Temperature Ferromagnetism in ...
33	Umm al-Qura University	Saudi Arabia	Investigating structural, magnetic and multiferroic pro...
34	Yunnan University	China	Investigating structural, magnetic and multiferroic pro...
35	Umm al-Qura University	Saudi Arabia	Investigating structural, magnetic and multiferroic pro...
36	Not stated in source PDF	Not stated in source PDF	Effect of superfine grinding on structural, morphologic...
37	University of Monastir	Tunisia	Lithium-substituted Nickel Ferrite Nanomaterials and ...
38	Hanoi University of Industry	Vietnam	Effect of superfine grinding on structural, morphologic...
39	University of Gabès	Tunisia	Lithium-substituted Nickel Ferrite Nanomaterials and ...
40	University of Kairouan	Tunisia	Lithium-substituted Nickel Ferrite Nanomaterials and ...

Global Research Impact of Dr. Rakesh Kumar Singh and His Research Group
School of Nanoscience & Nanotechnology, Aryabhatta Knowledge University (AKU), Patna

Appendix B — ResearchGate Displayed Citation Records (continued: entries 41–80)

S. No.	Standardized institution / affiliation	Country / location	Cited publication (as displayed)
41	Federal University of Goiás	Brazil	Single-step synthesis of activated magnetic biochar d...
42	University of Monastir	Tunisia	Lithium-substituted Nickel Ferrite Nanomaterials and ...
43	University of Johannesburg	South Africa	Rice husk biochar -A novel engineered bio-based mat...
44	University of Dar es Salaam	Tanzania	Rice husk biochar -A novel engineered bio-based mat...
45	Centro de Investigación de Materiales Avanzados Durango	Mexico	Rice husk biochar -A novel engineered bio-based mat...
46	Begum Rokeya University	Bangladesh	Rice husk biochar -A novel engineered bio-based mat...
47	University of Edinburgh	United Kingdom	Rice husk biochar -A novel engineered bio-based mat...
48	National University of Mar del Plata	Argentina	Rice husk biochar -A novel engineered bio-based mat...
49	Balochistan University of Information Technology, Engineering and Management Sciences	Pakistan	Rice husk biochar -A novel engineered bio-based mat...
50	The University of Western Australia	Australia	Rice husk biochar -A novel engineered bio-based mat...
51	University of Birmingham	United Kingdom	Rice husk biochar -A novel engineered bio-based mat...
52	Federal University of Rio de Janeiro	Brazil	Rice husk biochar -A novel engineered bio-based mat...
53	Chukwuemeka Odumegwu Ojukwu University	Nigeria	Rice husk biochar -A novel engineered bio-based mat...
54	Ege University	Türkiye	Rice husk biochar -A novel engineered bio-based mat...
55	Sir Padampat Singhania University	India	Rice husk biochar -A novel engineered bio-based mat...
56	University of La Laguna	Spain	Rice husk biochar -A novel engineered bio-based mat...
57	Institute of Geography and Geoecology, Mongolia	Mongolia	Rice husk biochar -A novel engineered bio-based mat...
58	Dedan Kimathi University of Technology	Kenya	Rice husk biochar -A novel engineered bio-based mat...
59	Tata Institute of Social Sciences	India	Rice husk biochar -A novel engineered bio-based mat...
60	Chang'an University	China	Rice husk biochar -A novel engineered bio-based mat...
61	Independent scholar (as stated in source)	Not stated in source PDF	Rice husk biochar -A novel engineered bio-based mat...
62	Yazd University	Iran	Rice husk biochar -A novel engineered bio-based mat...
63	Quaid-i-Azam University	Pakistan	Rice husk biochar -A novel engineered bio-based mat...
64	University of Peradeniya	Sri Lanka	Rice husk biochar -A novel engineered bio-based mat...
65	University of Tartu	Estonia	Rice husk biochar -A novel engineered bio-based mat...
66	Missouri State University	United States	Rice husk biochar -A novel engineered bio-based mat...
67	Korea University	South Korea	Rice husk biochar -A novel engineered bio-based mat...
68	ISSAT KASSERINE	Tunisia	Adequate energy and power density in double-modifie...
69	IHE Delft Institute for Water Education	Netherlands	Rice husk biochar -A novel engineered bio-based mat...
70	Majmaah University	Saudi Arabia	Adequate energy and power density in double-modifie...
71	King Fahd University of Petroleum and Minerals	Saudi Arabia	Adequate energy and power density in double-modifie...
72	University of Sfax	Tunisia	Adequate energy and power density in double-modifie...
73	Majmaah University	Saudi Arabia	Adequate energy and power density in double-modifie...
74	National Institute of Oceanography and Fisheries	Egypt	Single-step synthesis of activated magnetic biochar d...
75	National Institute of Oceanography and Fisheries	Egypt	Single-step synthesis of activated magnetic biochar d...
76	Minia University	Egypt	Single-step synthesis of activated magnetic biochar d...
77	Indian Institute of Technology Guwahati	India	Impact of doping Gd rare earth ion on structural, magn...
78	UMR Transfrontalière BioEcoAgro	France/Belgium (cross-border unit)	Effect of Lattice Strain on Structural and Magnetic Pro...
79	National Water Research Center	Egypt	Single-step synthesis of activated magnetic biochar d...
80	University of Liège	Belgium	Effect of Lattice Strain on Structural and Magnetic Pro...

Global Research Impact of Dr. Rakesh Kumar Singh and His Research Group
School of Nanoscience & Nanotechnology, Aryabhatta Knowledge University (AKU), Patna

Appendix B — ResearchGate Displayed Citation Records (continued: entries 81–100)

S. No.	Standardized institution / affiliation	Country / location	Cited publication (as displayed)
81	Bulgarian Academy of Sciences	Bulgaria	Effect of Lattice Strain on Structural and Magnetic Pro...
82	Polish Academy of Sciences	Poland	Effect of Lattice Strain on Structural and Magnetic Pro...
83	Włodzimierz Trzebiatowski Institute of Low Temperature and Structure Research	Poland	Effect of Lattice Strain on Structural and Magnetic Pro...
84	Bulgarian Academy of Sciences	Bulgaria	Effect of Lattice Strain on Structural and Magnetic Pro...
85	Bulgarian Academy of Sciences	Bulgaria	Effect of Lattice Strain on Structural and Magnetic Pro...
86	Aligarh Muslim University	India	Structural, optical, and magnetic properties of non-sto... Follow Send message
87	Bulgarian Academy of Sciences	Bulgaria	Effect of Lattice Strain on Structural and Magnetic Pro...
88	King Saud University	Saudi Arabia	Structural, optical, and magnetic properties of non-sto...
89	University of Technology - Iraq	Iraq	Structural, optical, and magnetic properties of non-sto...
90	Koya University	Iraq	Structural, optical, and magnetic properties of non-sto...
91	Sefako Makgatho Health Sciences University	South Africa	Structural, optical, and magnetic properties of non-sto...
92	BRAC University	Bangladesh	Structural, optical, and magnetic properties of non-sto...
93	University of Rochester	United States	Structural, optical, and magnetic properties of non-sto...
94	University of Science Malaysia (as stated in source)	Malaysia	Structural, optical, and magnetic properties of non-sto...
95	King Saud University	Saudi Arabia	Structural, optical, and magnetic properties of non-sto...
96	Mahatma Gandhi Central University, Bihar	India	Structural and Enhanced dielectric properties of Al-mo... Following
97	University of Anbar	Iraq	Tailoring the structural, optical and multiferroic proper...
98	National Institute of Technology Patna	India	Effect of doping different rare earth ions on microstru... Following
99	Dr. Babasaheb Ambedkar Marathwada University	India	Impact of doping Gd rare earth ion on structural, magn...
100	Beirut Arab University	Lebanon	Lattice strain mediated structural and magnetic proper...

Appendix Table B1. One row per visible “Cited your publication” researcher-profile record in the supplied ResearchGate export. This appendix is corroborative and is not merged into the OpenAlex totals.

Verified minimum based on public OpenAlex affiliation metadata. A separate ResearchGate (Germany) profile sample supplied by the researcher provides cross-plaVorm corroboration; figures from different databases are not merged.

Executive Findings

The linked Google Scholar profile publicly identifies Dr. Rakesh Kumar Singh with Aryabhatta Knowledge University and reports approximately 2,690 citations at the time of retrieval. Google Scholar does not publish a country-wise or institution-wise breakdown. The analysis below therefore uses OpenAlex citation and affiliation metadata to establish a conservative, reproducible minimum for research explicitly indexed with AKU affiliation.

International reach. At least 1,035 external citing publications carry one or more non-India affiliations; 94 countries outside India are represented.

National reach. At least 605 external citing publications carry an Indian institutional affiliation, including IIT Patna, University of Delhi, Osmania University, NIT Patna and other national institutions.

Institutional depth. The affiliation network includes 1,757 distinct institutions, of which 1,324 are outside India. Multi-country collaborations may be counted once in each represented country.

Research relevance. The cited AKU corpus covers ferrite magnetic nanomaterials, water remediation through nano-Biochar, rice-husk silica and biochar production from waste rice husk & waste rice straw, Green energy hydroelectric cells, optoelectronics, Ayurvedic nanomedicine, and functional food nanomaterials.

For official and judicial presentation, the evidence is deliberately separated into three layers. This prevents unlike database figures from being combined and allows each claim to be traced to its source.

Layer 1 — Google Scholar headline. The linked public profile reports approximately 2,669 citations. Google Scholar supplies the broad headline but not a country/institution table.

Layer 2 — OpenAlex affiliation analysis. A reproducible conservative match of 96 AKU-affiliated works yields 1,510 external citing publications, 1,800 external citation links, 95 countries and 1,757 institutions.

Layer 3 — ResearchGate displayed-record sample. The supplied ResearchGate export contains 100 visible researcher-profile citation records, covering 35 stated country/location categories and 71 identified institutions. These records corroborate geographic diversity but are not added to the OpenAlex totals.

Sources and Verification Links

7. Google Scholar profile — Dr. Rakesh Kumar Singh. <https://scholar.google.com/citations?user=gOZNJ-oAAAAJ&hl=en> — researcher identity and headline Google Scholar citation record

8. Vidwan/INFLIBNET profile — Vidwan ID 339272. <https://vapt3.irins.org/profile/339272> — Ministry of Education-supported identity record linking AKU, ORCID and Google Scholar ID

9. OpenAlex API documentation. <https://developers.openalex.org/api-reference/introduction> — official description of works, authors, institutions, countries and citation connections

10. Dr. Rakesh Kumar Singh — public research profile. <https://drrakeshsingh.com/> — research areas and institutional context

11. AKU School/Centre for Nanoscience & Nanotechnology annual report. <https://acnn.akubihar.ac.in/downloads/Annual%20report-23-24-Nanotechnology.pdf> — institutional record of Centre activities

12. Research Gate profile statistics export dated 16 July 2026. Supplied by the researcher; the standardized 100-row extraction is reproduced in Appendix B.

Certification Note

This document is a bibliometric presentation prepared from public records. It is suitable as a research-impact brief, but it is not a certificate issued by Google Scholar, OpenAlex, INFLIBNET or Aryabhatta Knowledge University. For formal filing, the submitting authority may annex date-stamped profile printouts and, where required, an institutional certification of the publication list. *Prepared on 16 July 2026*