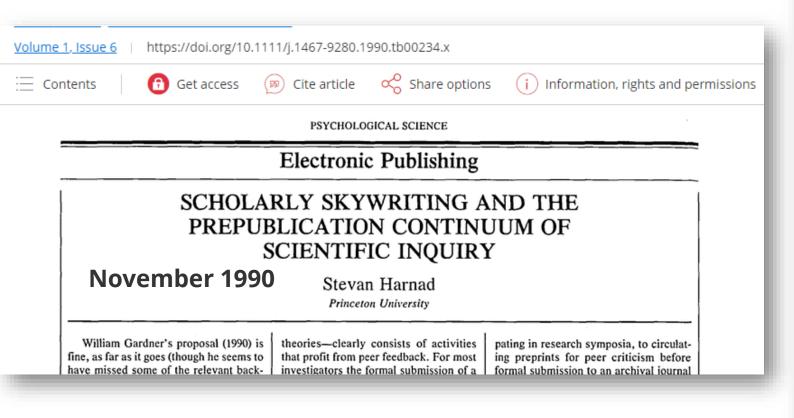
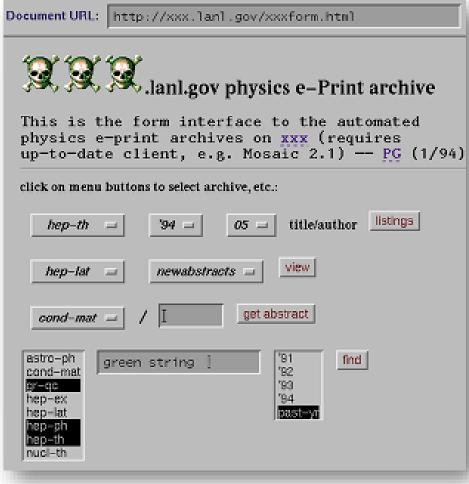
Exploring the open access landscape in Engineering

Madhan O P Jindal Global University madhan@jgu.edu.in





The Open Archives initiative aimed at the further promotion of author self-archived solutions Paul Ginsparg, Rick Luce, Herbert Van de Sompel - Los Alamos National Laboratory - July 1999

With the support of the Council on Library and Information Resources , the Digital Library Federation, the Scholarly Publishing & Academic Resources Coalition, the Association of Research Libraries and the Los Alamos National Laboratory.

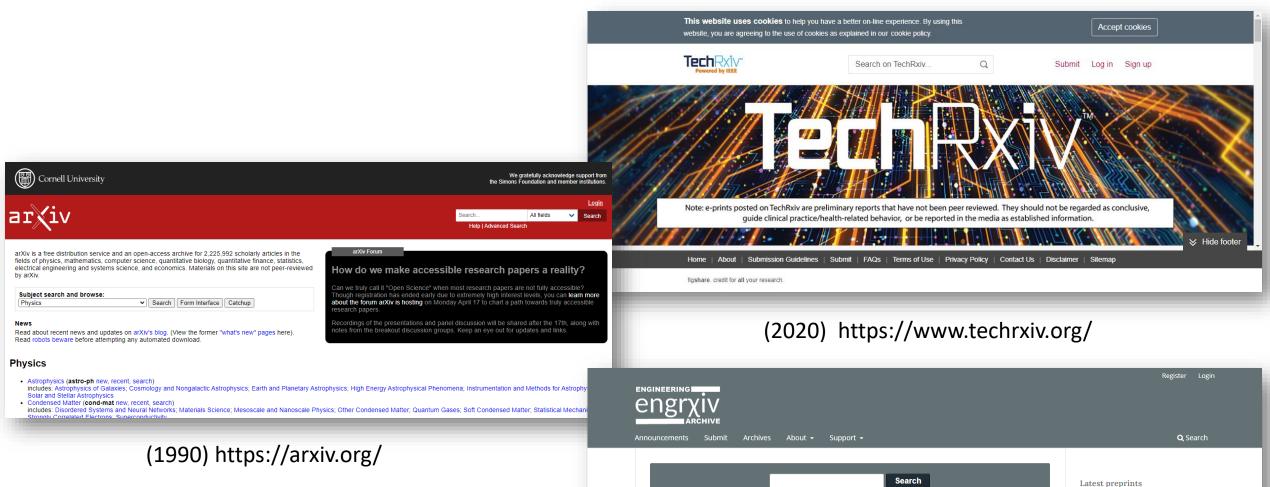
The purpose of this call is the mobilization of a core group to work towards achieving **a universal service for author selfarchived scholarly literature**.







http://www.openarchives.org/meetings/SantaFe1999/ups-invitation-ori.htm



Latest preprints

🔎 PDF

Martin Pletz, Matthias Drvoderic

DOI: https://doi.org/10.31224/2898

(Finite element modeling) (toy bricks) (clamping connection)

Downloads: 0 - Submitted 2023-03-21 - Posted 2023-03-21

BrickFEM An Automated Finite Element Model for Static and Dynamic Simulations of Simple Lego® Sets

Simulia Abagus

https://engrxiv.org/

ATOM 1.0

RSS 1.0

arXiv has 2,225,992 scholarly articles in the fields of physics, mathematics, computer science, quantitative biology, quantitative finance, statistics, electrical engineering and systems science, and economics.

			% All	
	Web of	% All OA	Non-OA	
	Science	Documen	Documen	
Name	Documents	ts	ts	
Global Baseline	16985960	42.57	57.43	
Space Science	86631	81.14	18.86	
Microbiology	149030	79.46	20.54	
Molecular Biology & Genetics	323417	67.21	32.79	
Immunology	242593	61.12	38.88	
Mathematics	280951	60.22	39.78	
Environment/Ecology	529892	54.08	45.92	
Biology & Biochemistry	544851	54.07	45.93	
Physics	573096	50.98	49.02	
Geosciences	348687	50.26	49.74	
Plant & Animal Science	512397	49.79	50.21	
Neuroscience & Behavior	463527	45.71	54.29	
Agricultural Sciences	339515	45.59	54.41	
Clinical Medicine	3201569	45.03	54.97	
Pharmacology & Toxicology	347979	44.18	55.82	
Psychiatry/Psychology	392070	43.92	56.08	
Multidisciplinary	42449	42.49	57.51	
Social Sciences, general	884280	38.33	61.67	
Economics & Business	211061	38.08	61.92	
Engineering	1212626	37.88	62.12	
Computer Science	317994	37.64	62.36	
Chemistry	1148416	36.92	63.08	
Materials Science	741075	32.5	67.5	

How much of Engineering literature is open access?

Dataset: InCites Dataset + ESCI

Schema: Essential Science Indicators

Time Period: [2018 - 2022]

			% Non-
			Open A see se
			Access
	No. of	% All OA	Documen
Name	papers	Documents	
Global Baseline	16985960	42.57	57.43
ENGINEERING, ELECTRICAL & ELECTRONIC	954356	29.1	70.9
MATERIALS SCIENCE, MULTIDISCIPLINARY	869281	40.35	59.65
ENVIRONMENTAL SCIENCES	601541	52.99	47.01
CHEMISTRY, MULTIDISCIPLINARY	588861	51.29	48.71
ONCOLOGY	566933	50.58	49.42
PHYSICS, APPLIED	525109	44.68	55.32
BIOCHEMISTRY & MOLECULAR BIOLOGY	502653	56.91	43.09
CHEMISTRY, PHYSICAL	445391	29.09	70.91
SURGERY	404740	37.34	62.66
PHARMACOLOGY & PHARMACY	382565	45.73	54.27
PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH	381332	62.21	37.79
COMPUTER SCIENCE, INFORMATION SYSTEMS	380396	44.99	55.01
NEUROSCIENCES	373919	50.79	49.21
CLINICAL NEUROLOGY	372116	36.69	63.31
ENERGY & FUELS	361929	33.15	66.85
COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE	355043	27.05	72.95
COMPUTER SCIENCE, THEORY & METHODS	336321	25.11	74.89
CARDIAC & CARDIOVASCULAR SYSTEMS	323547	47.37	52.63

Proportion of open access (OA) papers in different *Web of Science* research areas

(16,985,021 documents, published during 2018-2022)

Data as seen in *Incites* – 22 March 2023

	No. of	% All OA	% Non-OA
Name	papers	Documents	Documents
Global Baseline	16985960	42.57	57.43
PHYSICS, PARTICLES & FIELDS	73746	86.91	13.09
ASTRONOMY & ASTROPHYSICS	130094	80.36	19.64
ANDROLOGY	5612	77.78	22.22
MICROBIOLOGY	188432	75.52	24.48
VIROLOGY	45128	72.87	27.13
PRIMARY HEALTH CARE	22004	71.19	28.81
INFECTIOUS DISEASES	148686	69.46	30.54
PARASITOLOGY	36732	68.91	31.09
PSYCHOLOGY, MATHEMATICAL	4325	67.1	32.9
NEUROIMAGING	19269	67.09	32.91
TROPICAL MEDICINE	34054	63.83	36.17
PHYSICS, NUCLEAR	32695	63.25	36.75
PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH	381332	62.21	37.79
HEALTH CARE SCIENCES & SERVICES	161142	62.15	37.85
DEVELOPMENTAL BIOLOGY	32051	62.04	37.96
AGRICULTURE, DAIRY & ANIMAL SCIENCE	74241	61.91	38.09
ENVIRONMENTAL STUDIES	149936	61.56	38.44
PHYSICS, MULTIDISCIPLINARY	163192	60.64	39.36
CELL BIOLOGY	256313	60.2	39.8

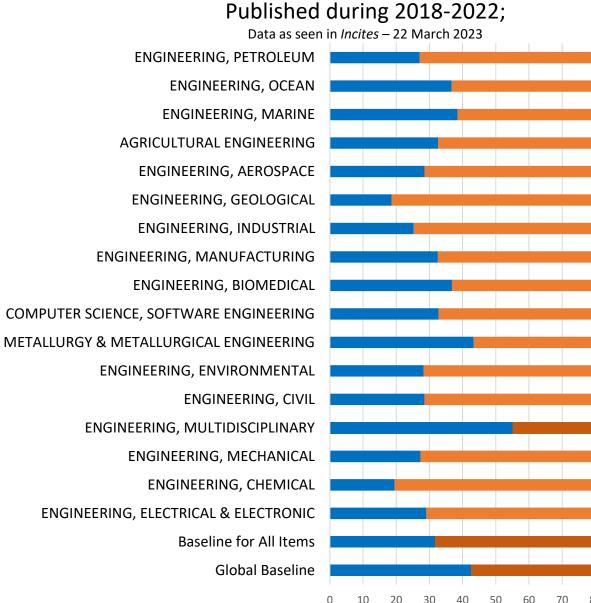
More than 50% of the papers is OA in 51 research areas...

(Papers published during 2018-2022)

Data as seen in *Incites* – 22 March 2023

	Web of
	Science
	Documen
Name	ts
Global Baseline	16985960
Baseline for All Items	2467038
ENGINEERING, ELECTRICAL & ELECTRONIC	954356
ENGINEERING, CHEMICAL	267364
ENGINEERING, MECHANICAL	210558
ENGINEERING, MULTIDISCIPLINARY	197404
ENGINEERING, CIVIL	194246
ENGINEERING, ENVIRONMENTAL	158478
METALLURGY & METALLURGICAL ENGINEERING	153860
COMPUTER SCIENCE, SOFTWARE ENGINEERING	148703
ENGINEERING, BIOMEDICAL	123027
ENGINEERING, MANUFACTURING	77637
ENGINEERING, INDUSTRIAL	66424
ENGINEERING, GEOLOGICAL	49662
ENGINEERING, AEROSPACE	46093
AGRICULTURAL ENGINEERING	27364
ENGINEERING, MARINE	25106
ENGINEERING, OCEAN	24526
ENGINEERING, PETROLEUM	19383

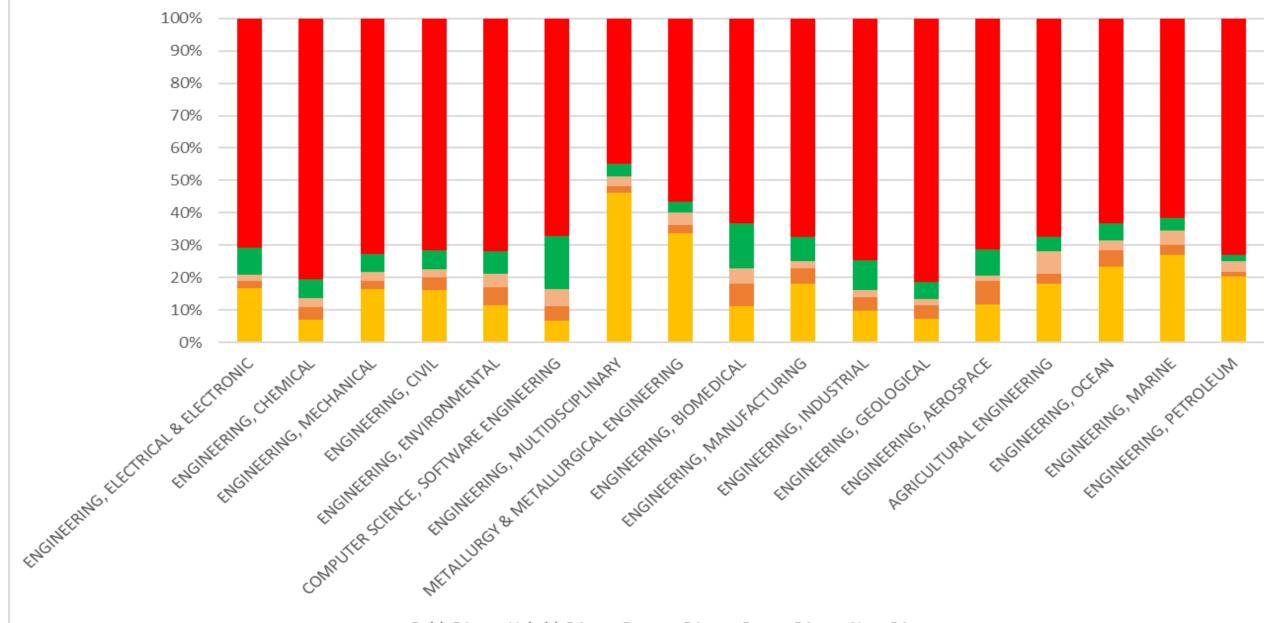
Proportion of OA papers in 17 subfields of Engineering



% All OA Documents

% Non-OA Documents

100



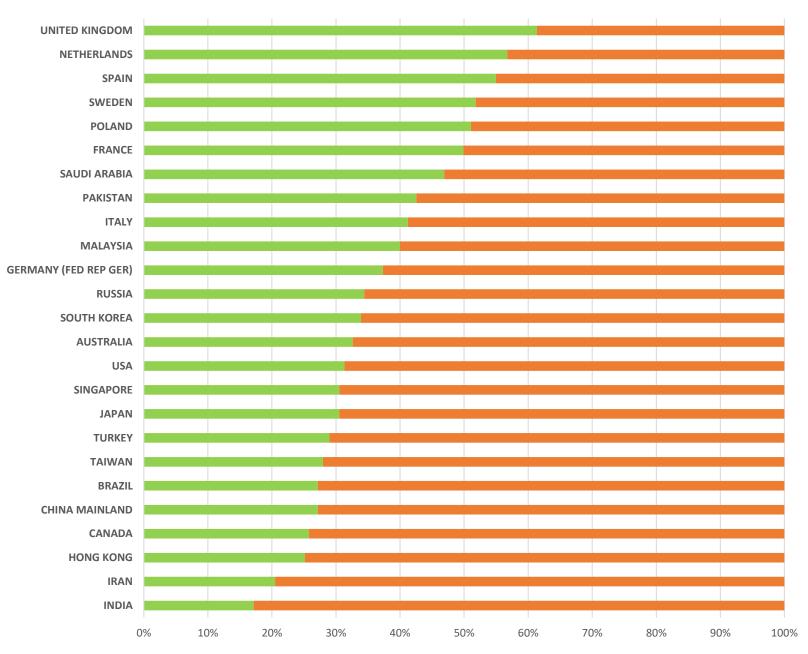
11,174 publication sources (2,467,038 documents)

1,886 journals (1,757,003 documents) **8,210** conference proceedings (686,955 documents) **1,588** books (23,080 documents)

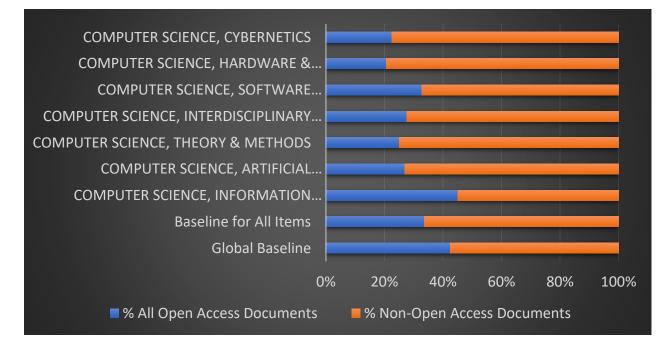
Rapid Growth of Mega OA Journals

Name	Paper	Country
Baseline for All Items	1757003	n/a
IEEE ACCESS	61845	USA
APPLIED SCIENCES-BASEL	42375	SWITZERL
SENSORS	35843	SWITZERL
MATERIALS	29640	SWITZERL
JOURNAL OF CLEANER PRODUCTION	22869	USA
JOURNAL OF ALLOYS AND COMPOUNDS	22807	SWITZERL
CHEMICAL ENGINEERING JOURNAL	19693	SWITZERL
CONSTRUCTION AND BUILDING MATERIALS	16917	ENGLAND
FUEL	12221	ENGLAND
ELECTRONICS	11620	SWITZERL
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRO	11175	NETHERLA
JOURNAL OF HAZARDOUS MATERIALS	10423	NETHERLA
MATHEMATICAL PROBLEMS IN ENGINEERING	10161	USA

Country	No. of papers
CHINA MAINLAND	814730
USA	363660
INDIA	165331
UNITED KINGDOM	118179
GERMANY (FED REP GER)	111441
SOUTH KOREA	97945
JAPAN	95673
ITALY	85428
CANADA	81467
FRANCE	74707
IRAN	72073
AUSTRALIA	70477
RUSSIA	65327
SPAIN	61262
BRAZIL	48264
POLAND	45776
TURKEY	43154
TAIWAN	42151
MALAYSIA	34921
SAUDI ARABIA	33583
NETHERLANDS	32250
HONG KONG	31083
SINGAPORE	27422
SWEDEN	26755
PAKISTAN	25657

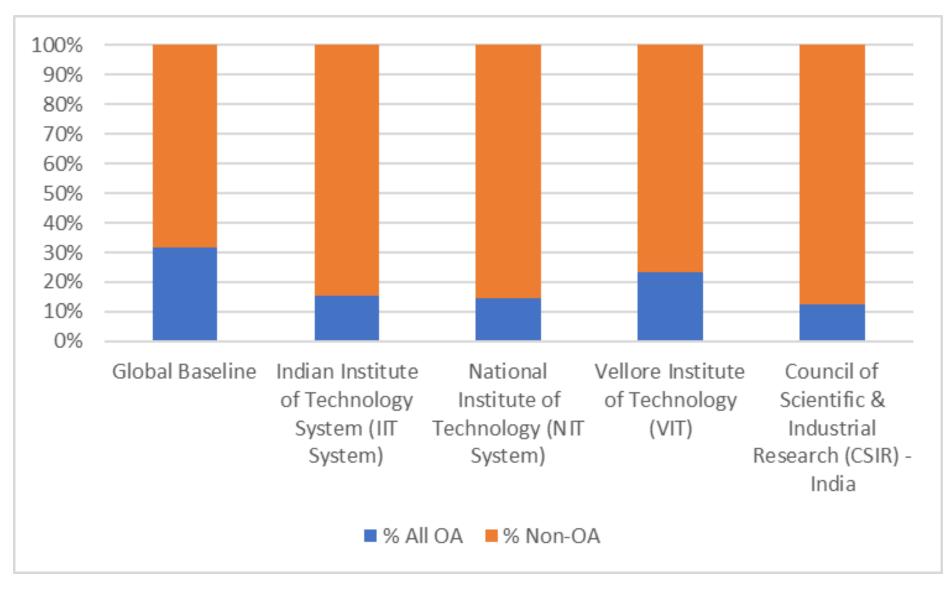


	Web of
	Science
Name	Documents
Global Baseline	16985960
Baseline for All Items	1076178
COMPUTER SCIENCE, INFORMATION SYSTEMS	380396
COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE	355043
COMPUTER SCIENCE, THEORY & METHODS	336321
COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIO	223121
COMPUTER SCIENCE, SOFTWARE ENGINEERING	148703
COMPUTER SCIENCE, HARDWARE & ARCHITECTURE	94922
COMPUTER SCIENCE, CYBERNETICS	48172



Dataset: InCites Dataset + ESCI Schema: Web of Science Time Period: [2018, 2022]

OA in Indian Institutions



Research Area: [COMPUTER SCIENCE, INFORMATION SYSTEMS, COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE, COMPUTER SCIENCE, HARDWARE & ARCHITECTURE, COMPUTER SCIENCE, THEORY & METHODS, COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS, COMPUTER SCIENCE, SOFTWARE ENGINEERING, ENGINEERING, MULTIDISCIPLINARY, ENGINEERING, AEROSPACE, ENGINEERING, ENVIRONMENTAL, ENGINEERING, MECHANICAL, ENGINEERING, INDUSTRIAL, ENGINEERING, BIOMEDICAL, ENGINEERING, MARINE, ENGINEERING, CHEMICAL, ENGINEERING, PETROLEUM, ENGINEERING, ELECTRICAL & ELECTRONIC, ENGINEERING, OCEAN, ENGINEERING, MANUFACTURING, ENGINEERING, CIVIL, ENGINEERING, GEOLOGICAL, AGRICULTURAL

ENGINEERING, METALLURGY & METALLURGICAL ENGINEERING, COMPUTER SCIENCE, CYBERNETICS] INCITES 2018-2022

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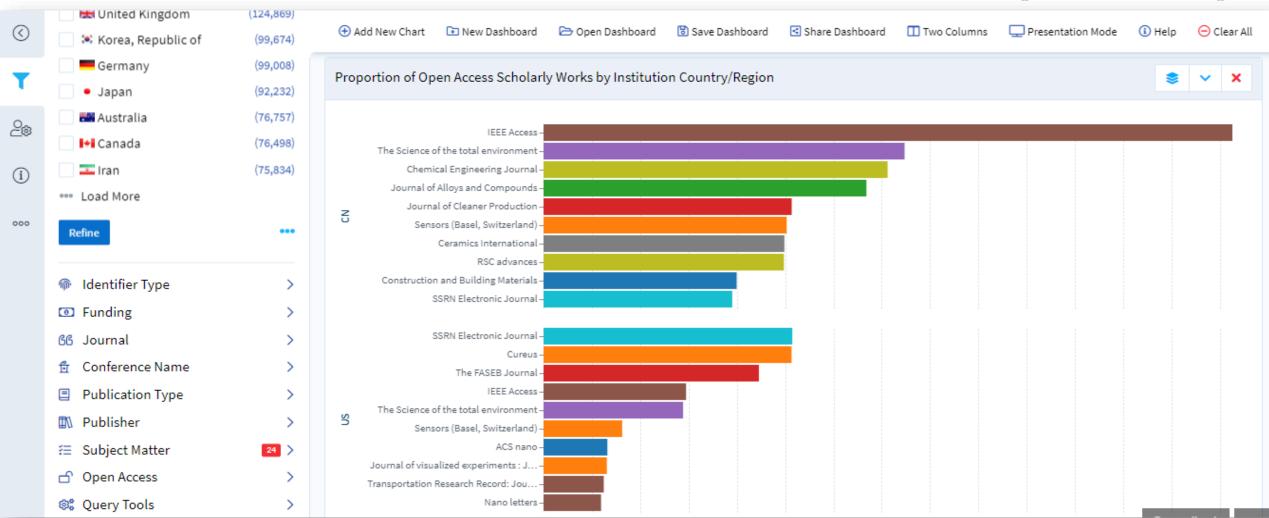
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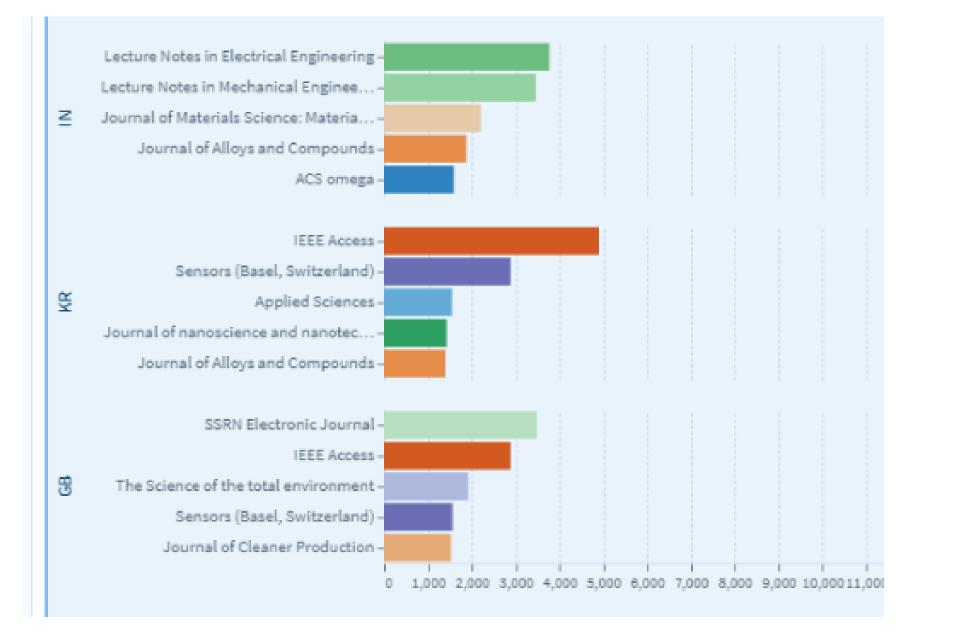
Non-OA Open Access



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UKRI open access policy

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JUSE

Administration Priorities The Record

AUGUST 25, 2022

OSTP Issues Guidance to Make Federally Funded Research Freely Available Without Delay

■ → OSTP → BRIEFING ROOM → PRESS RELEASES

Today, the White House Office of Science and Technology Policy (OSTP) updated U.S. policy guidance to make the results of taxpayer-supported research immediately available to the American public at no cost. In a <u>memorandum</u> → to federal departments and agencies, Dr. Alondra Nelson, the head of OSTP, delivered guidance for agencies to update their public access policies as soon as possible to make publications and research funded by

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Awards and Fellowships



Wireless Networks (Cellular Systems, Ad-Hoc Networks, Sensor Networks, TCP over Wireless, Power Control)

- Avinash Mohan, Aditya Gopalan, and Anurag Kumar, "Reduced-State, Optimal Scheduling for Decentralized Medium Access Control of a Class of Wireless Networks," to appear in IEEE/ACM Transactions on Networking, download pdf file
- K. P. Naveen and Anurag Kumar, "Coverage in One-Dimensional Wireless Networks with Infrastructe Nodes and Relay Extensions," to appear in IEEE/ACM Transactions on Networking, download pdf file
- Arpan Chattopadhyay, Avishek Ghosh, and Anurag Kumar,



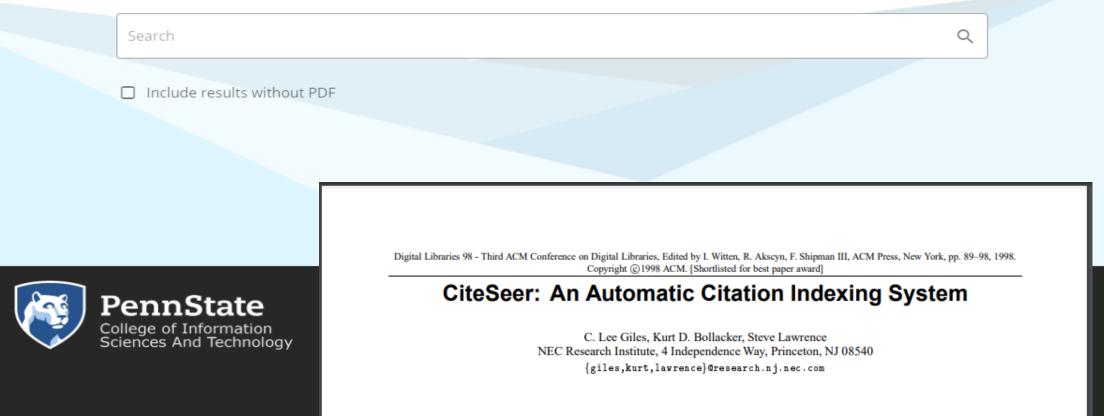
ANURAG KUMAR Honorary Professor Electrical Communication Engineering Indian Institute of Science Bangalore, 560 012 India

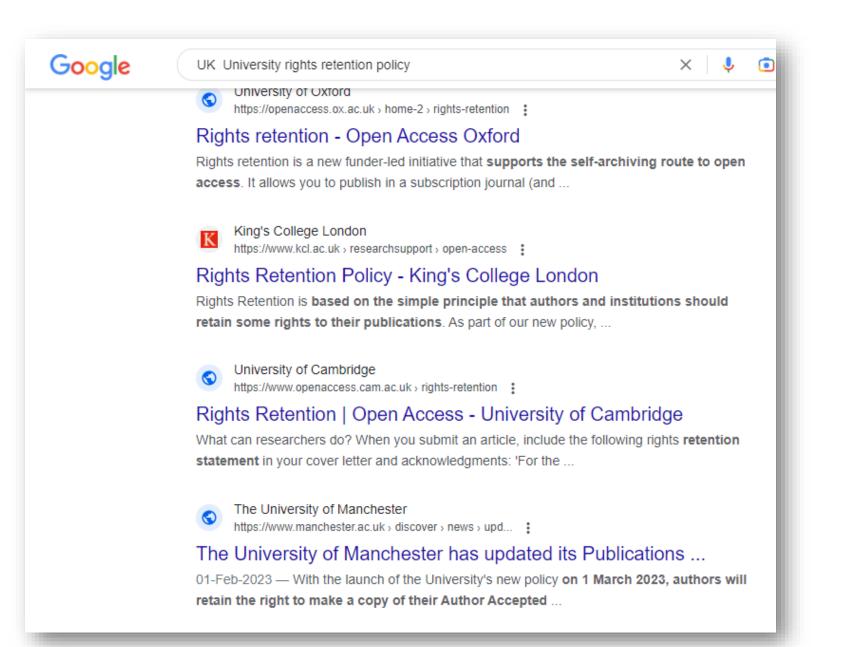


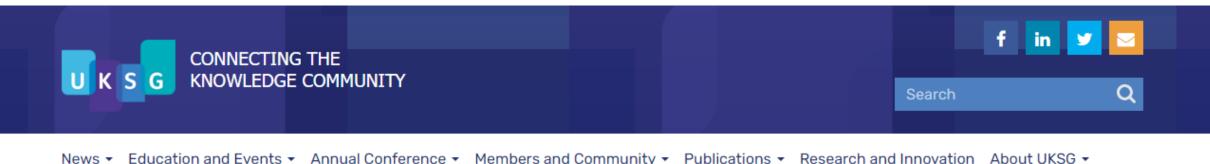


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UKSG / List of Newsletters / The MIT Press announces new initiative to flip existing subscription-based journals to a diamond OA publishing model

The MIT Press announces new initiative to flip existing subscriptionbased journals to a diamond OA publishing model

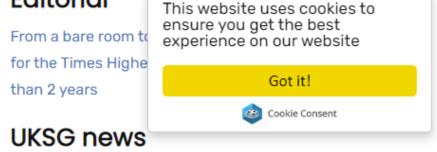
2 February 2023

In keeping with its mission and longstanding commitment to increase access to scholarship, the **MIT Press** is pleased to announce shift+OPEN. This new initiative is designed to flip existing subscriptionbased journals to a diamond open access publishing model. Shift+OPEN is generously supported by the **Arcadia Fund.**

The MIT Press welcomes submissions for English-language journals in any field and from any part of the world. Intended for existing titles, shift+OPEN will cover the expenses of transitioning a journal to open access model for a three-year term, provide the Press's full suite of publishing services, and support the development of a sustainable funding model for the future. The deadline for applications

UKSG eNews 533

Editorial





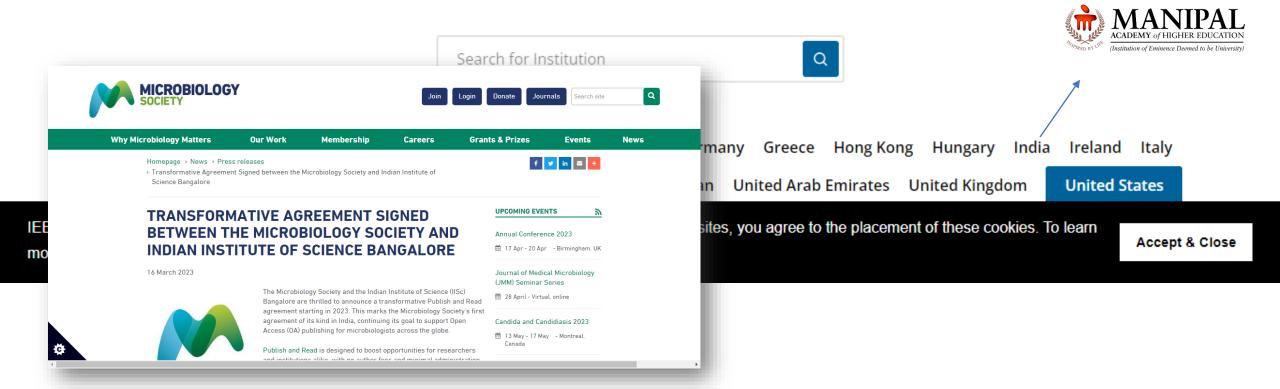
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Publishing Options ~ What's New

IEEE offers open access programs designed to make it convenient for institutions and funders to support and manage costs for authors, and simplify the publishing process by paying for article processing charges (APCs) in advance.

To see if your institution has an open access agreement with IEEE, browse the region list below, or enter your institution or region in the search field.



What librarians should do to support OA to engineering research

- Understand the nuances of OA and its flavors
- Create awareness among researchers
- Encourage researchers to use preprint archives
- Set up and populate institutional repositories
 - Help researchers make all versions of scientific records that they create accessible to all
 possible users through personal webpages and institutional repositories
- Be a catalyst for institutional rights retention policies
- Avoid the so-called transformative agreements (Read and Publish) with publishers
- Support journals that do not charge authors or readers (Diamond)
- Thanks