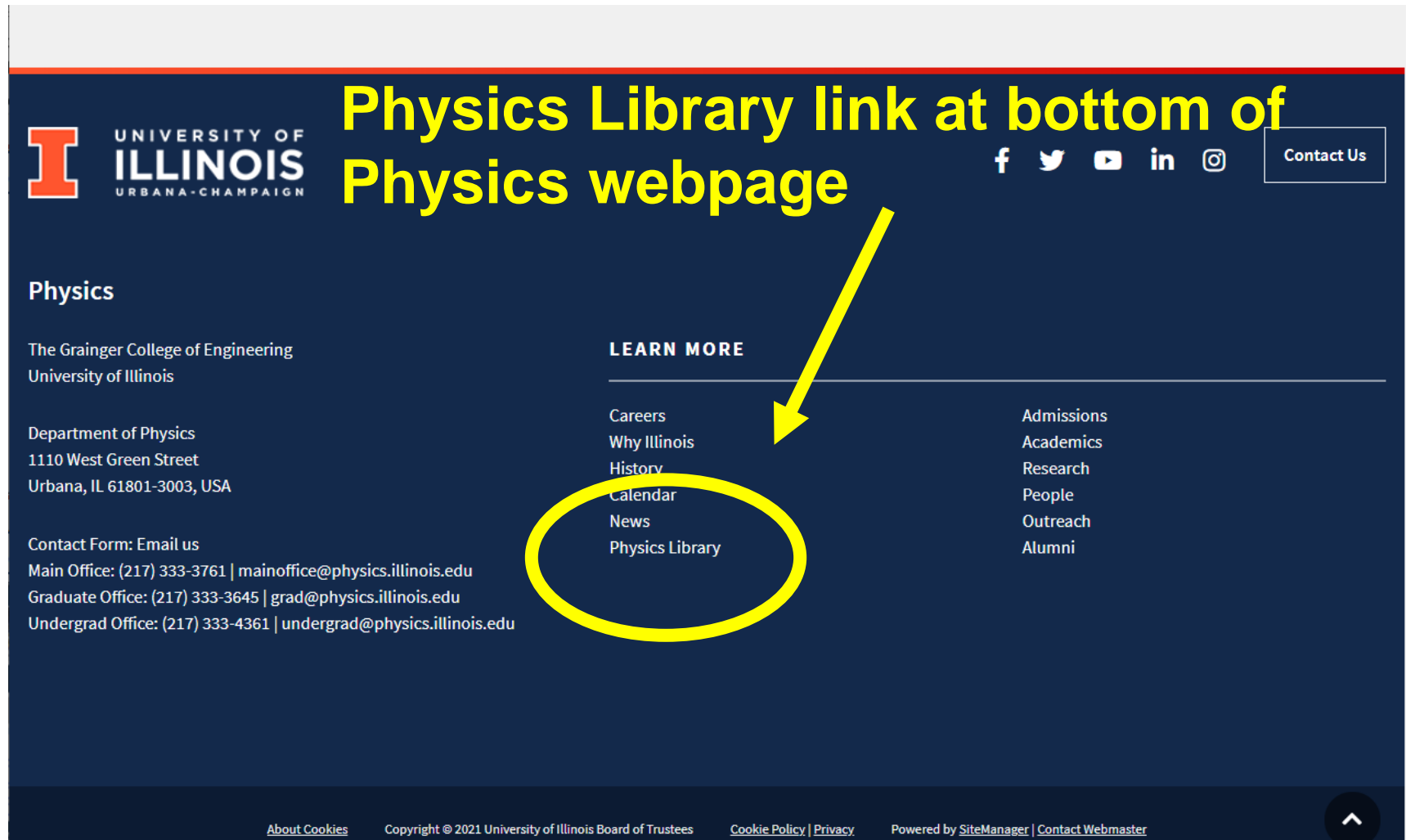


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The screenshot shows the Illinois Library website with a dark blue header. The main navigation bar includes links for About, Libraries & Hours, Find Materials, Borrow Materials, Research Services, and Technologies. Below this is the 'ILLINOIS LIBRARY' logo and a search bar. The 'Physics & Astronomy Library' banner features three images: a blue and yellow molecular structure, a nebula, and a close-up of a textured surface. Below the banner are links for Electronic Resources, Handbooks & Reference Resources, Reserves, and Web Resources. The 'Easy Search' section has a search bar and a 'Search' button. The 'Journal and Article Locator' section has a search bar and a 'Search' button. The 'Contact' section lists Mary C. Schlemba, Physics Librarian, with her email and phone number. The 'Departments Served' section lists the Department of Physics and the Department of Astronomy. The 'Electronic Resources' section lists Graduate Student Resource Guides, Astronomy Information Resources, Physics Information Resources, Article Databases, Full-Text Portals, and Reference Data, Image Sources, and Pathfinders. The 'Web Resources' section lists Data Sources, Major Laboratories and Observatories, and Professional Societies. The 'Grant Resources' section lists NSF Directorate of Mathematical and Physical Sciences, Division of Physics (PHY) Advice to PIs on Data Management Plans, Data Management Plan Overview, NSF Engineering Directorate Data Management Plan Template (PDF), and Data Management Plan (DMP) for NSF Proposal (Word). The 'Dissertation and Theses' section lists IDEALS (U of I Institutional Repository) and ProQuest. The 'Handbooks and Reference Resources' section is also listed. The footer includes the Main Library Information Desk contact information, the Illinois University Library logo, and links for Privacy Policy, Library Building Project, Accessibility, Suggest a Purchase, and Library Staff Website.

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Grainger Engineering Library > Departmental Resources Page > Department of Physics

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Journal Search ⓘ

Recommended Search Tools ⓘ

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Web of Science

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Professional Organizations ⓘ

- American Physical Society (APS)

Finding Scientific Papers

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Article Databases

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The screenshot shows the University of Illinois Library homepage. At the top is a navigation bar with links: About, Libraries & Hours, Find Materials, Borrow Materials, Research Services, and Technologies. Below this is the 'ILLINOIS LIBRARY' header with a search bar and a 'My Account' link. A banner for the 'Physics & Astronomy Library' features images of blue spheres and orange crystalline structures. Below the banner are links for Electronic Resources, Handbooks & Reference Resources, Reserves, and Web Resources. The main content area includes a 'Q Easy Search' box with a search bar and a 'Search' button, and a 'Q Journal and Article Locator' box with a 'DOI of Article' field and a 'Search' button. To the right is a 'Contact' section for Mary C. Schlembach, Physics Librarian, with her email and phone number, and a 'Departments Served' section listing the Department of Physics and the Department of Astronomy. Below the main content area are four columns of links: 'Electronic Resources' (Graduate Student Resource Guides, Astronomy Information Resources, Physics Information Resources, Article Databases, Full-Text Portals, Reference Data, Image Sources, and Reminders), 'Web Resources' (Data Sources, Major Laboratories and Observatories, Professional Societies), 'Grant Resources' (NSF Directorate of Mathematical and Physical Sciences, Division of Physics (PHY) Advice to PIs on Data Management Plans, Data Management Plan Overview, NSF Engineering Directorate Data Management Plan Template (PDF), Data Management Plan (DMP) for NSF Proposal (Word)), and 'Dissertation and Theses' (IDEALS (U of I Institutional Repository), ProQuest). At the bottom is a footer with contact information for the Main Library Information Desk, the University of Illinois logo, and links for Privacy Policy, Library Building Project, Accessibility, Suggest a Purchase, and Library Staff Website.

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Phys. Rev. B: <http://prb.aps.org/> (condensed matter)

Phys. Rev. C: <http://prc.aps.org/> (nuclear physics)

Phys. Rev. D: <http://prd.aps.org/> (particle/cosmology)

Phys. Rev. E: <http://pre.aps.org/> (soft matter, statistical)

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The image is a screenshot of the Physical Review Letters (PRL) website. At the top, there is a banner with the title "Physical Review Letters" and the tagline "moving physics forward". The American Physical Society logo is also present. Below the banner, there are links for "RSS Feeds" and "Email Alerts".

On the left side, there is a navigation menu with the following sections:

- APS Journals**
 - Current Issue
 - Earlier Issues
 - About This Journal
 - Journal Staff
- About the Journals**
- Search the Journals**
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- Join APS**

Below the navigation menu, there is a section for **Authors** with links to:

- General Information
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- Copyright Form
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At the bottom of the left sidebar, there is a section for **Referees** with links to:

- General Information
- Submit a Report

In the center of the page, there is a section for **Physical Review Letters** with a "Highlights" section. Below this, there is a "On the Cover" section for February 15, 2008, featuring a 3D visualization of a particle and a description of the calculation of angular distribution of ejected electrons for direct ionization of He from electron bombardment. The text mentions that the larger lobe is due to binary collisions, while the smaller one comes from recoil events. There are links to "Read Article" and "More Covers".

On the right side, there is a search bar with the following options:

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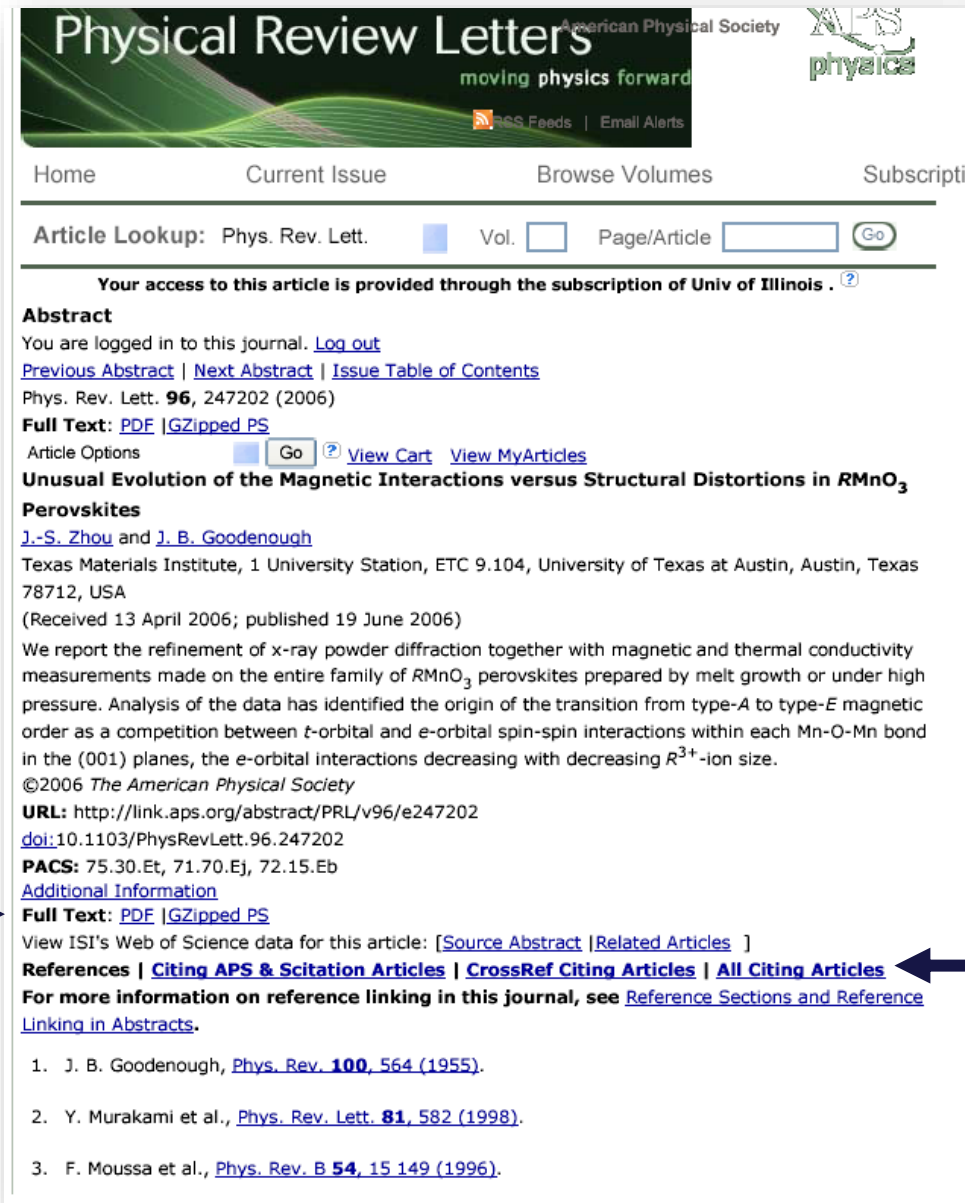
The search bar has a dropdown menu for "Phys. Rev. Lett." and a text input field for "Vol.". Below the search bar, there is a section for "Recent" and "Accepted" articles, with a "Paste or enter a citation" field. There is also a "50 years PR" anniversary banner with the tagline "moving physics forward".

Below the anniversary banner, there is a section titled "PRL Celebrates 50 Years" with the text "Join us as we commemorate 50 years forward." and a list of links:

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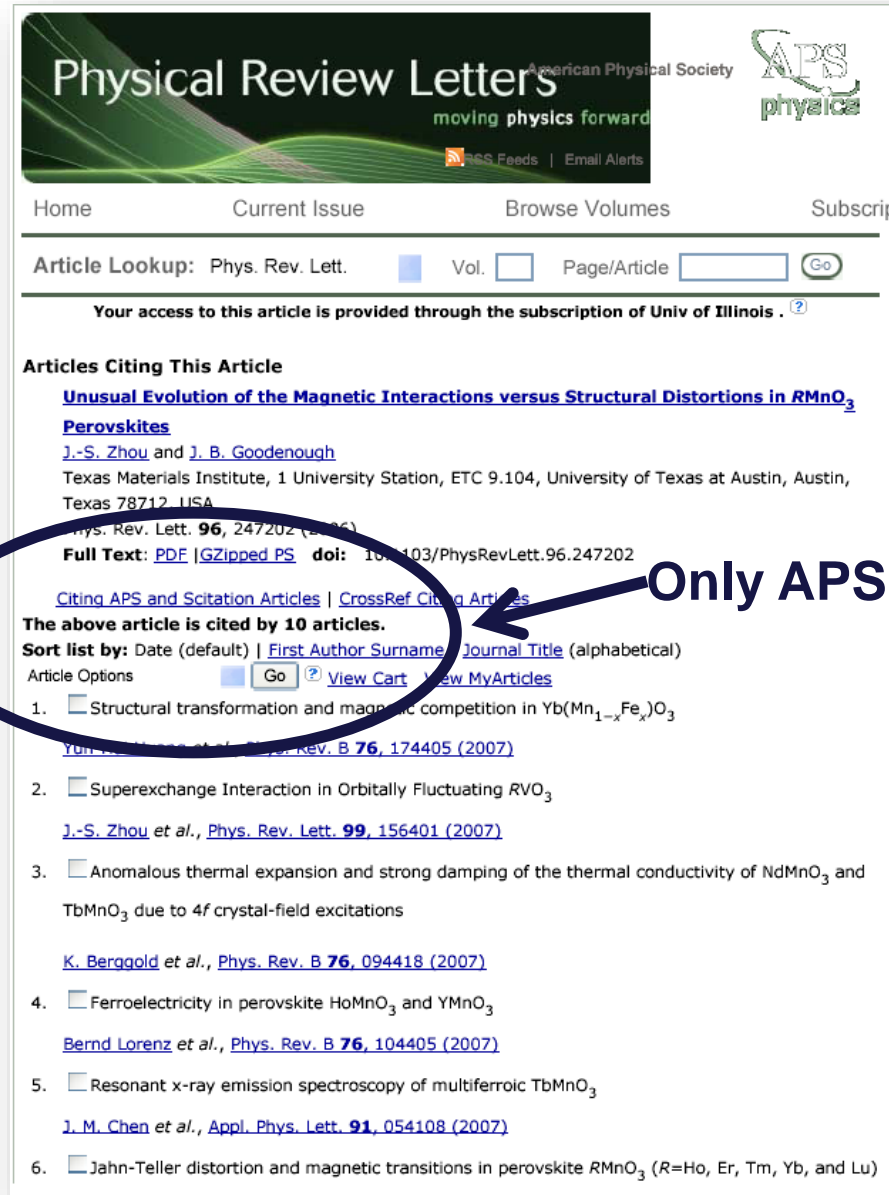


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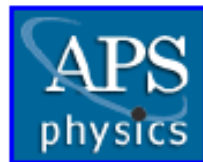
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- ☐ Structural transformation and magnetic competition in $Yb(Mn_{1-x}Fe_x)O_3$
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- ☐ Superexchange Interaction in Orbital Fluctuating RVO_3
[J.-S. Zhou et al., Phys. Rev. Lett. **99**, 156401 \(2007\)](#)
- ☐ Anomalous thermal expansion and strong damping of the thermal conductivity of $NdMnO_3$ and $TbMnO_3$ due to 4f crystal-field excitations
[K. Berggold et al., Phys. Rev. B **76**, 094418 \(2007\)](#)
- ☐ Ferroelectricity in perovskite $HoMnO_3$ and $YMnO_3$
[Bernd Lorenz et al., Phys. Rev. B **76**, 104405 \(2007\)](#)
- ☐ Resonant x-ray emission spectroscopy of multiferroic $TbMnO_3$
[J. M. Chen et al., Appl. Phys. Lett. **91**, 054108 \(2007\)](#)
- ☐ Jahn-Teller distortion and magnetic transitions in perovskite $RMnO_3$ ($R=Ho, Er, Tm, Yb, \text{ and } Lu$)

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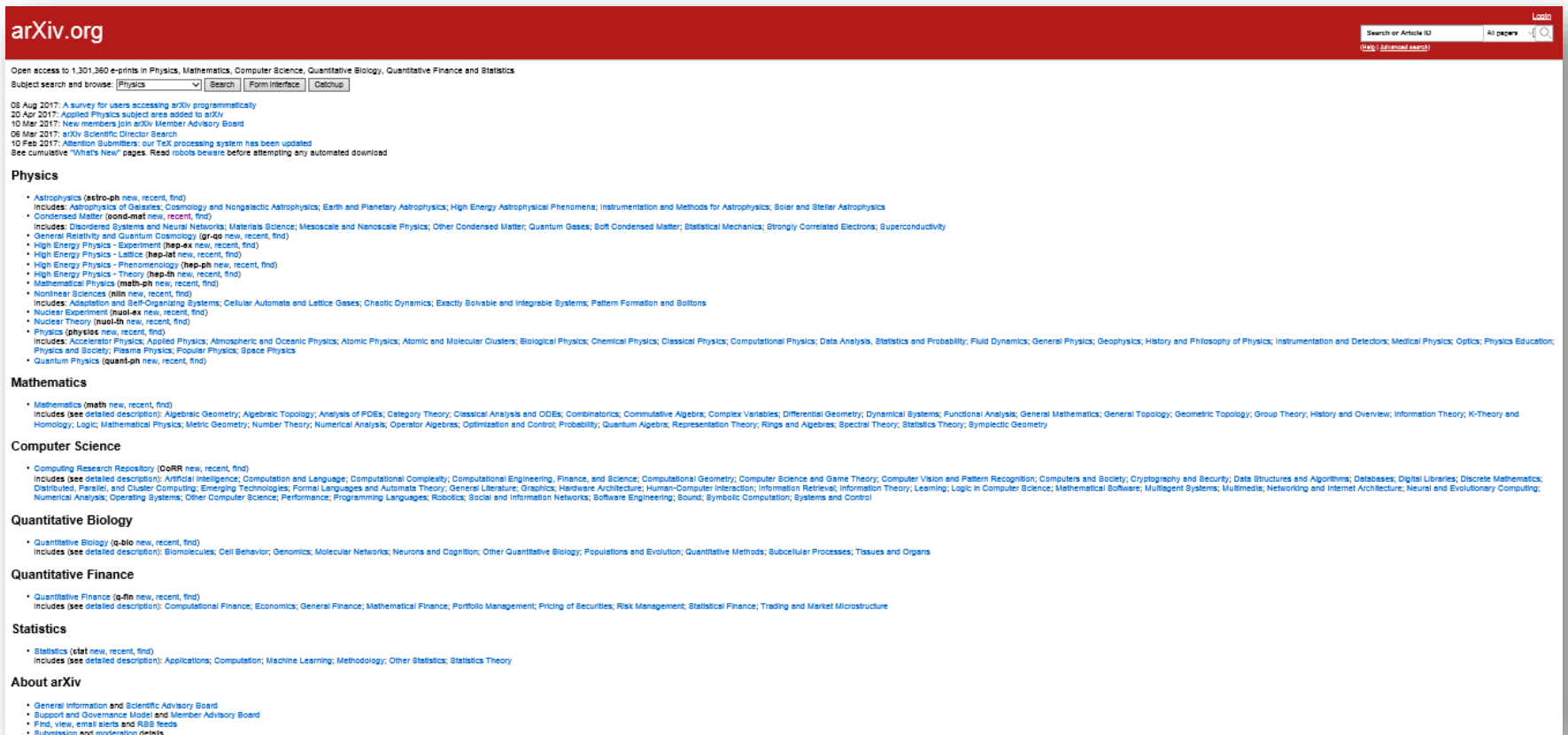
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Helpful Hints for Searching

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Preprint server—NOT peer-reviewed



The screenshot shows the arXiv.org homepage with a red header. The main content area is white and lists various scientific fields with links to their respective pages. The fields listed are Physics, Mathematics, Computer Science, Quantitative Biology, Quantitative Finance, and Statistics. Each field has a list of sub-fields and a link to the field's page. The page also includes a search bar, a login link, and a footer with contact information.

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Subject search and browse:

02 Aug 2017: A survey for users accessing arXiv programmatically
20 Apr 2017: Applied Physics subject area added to arXiv
10 Mar 2017: New members join arXiv Member Advisory Board
06 Mar 2017: arXiv Scientific Director Search
10 Feb 2017: Attention Submitters: our TeX processing system has been updated
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Physics

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Computer Science

- Computing Research Repository ([CoRR](#) new, recent, find)
Includes (see detailed description): Artificial Intelligence; Computation and Language; Computational Complexity; Computational Engineering, Finance, and Science; Computational Geometry; Computer Science and Game Theory; Computer Vision and Pattern Recognition; Computers and Society; Cryptography and Security; Data Structures and Algorithms; Databases; Digital Libraries; Discrete Mathematics; Distributed, Parallel, and Cluster Computing; Emerging Technologies; Formal Languages and Automata Theory; General Literature; Graphics; Hardware Architecture; Human-Computer Interaction; Information Retrieval; Information Theory; Learning; Logic in Computer Science; Mathematical Software; Multagent Systems; Multimedia; Networking and Internet Architecture; Neural and Evolutionary Computing; Numerical Analysis; Operating Systems; Other Computer Science; Performance; Programming Languages; Robotics; Social and Information Networks; Software Engineering; Sound; Symbolic Computation; Systems and Control

Quantitative Biology

- Quantitative Biology ([q-bio](#) new, recent, find)
Includes (see detailed description): Biomolecules; Cell Behavior; Genomics; Molecular Networks; Neurons and Cognition; Other Quantitative Biology; Populations and Evolution; Quantitative Methods; Subcellular Processes; Tissues and Organs

Quantitative Finance

- Quantitative Finance ([q-fin](#) new, recent, find)
Includes (see detailed description): Computational Finance; Economics; General Finance; Mathematical Finance; Portfolio Management; Pricing of Securities; Risk Management; Statistical Finance; Trading and Market Microstructure

Statistics


- Statistics ([stat](#) new, recent, find)
Includes (see detailed description): Applications; Computation; Machine Learning; Methodology; Other Statistics; Statistics Theory

About arXiv

- General Information and Scientific Advisory Board
- Support and Governance Model and Member Advisory Board
- Find, view, email alerts and RSS feeds
- Submission and moderation details

Where to download published scientific papers:

<http://inspirehep.net/> inSPIRE: High-Energy Physics Literature



Welcome to [inSPIRE](#), the High Energy Physics information system. Please direct questions, comments or concerns to feedback@inspirehep.net

HEP :: HEPNames :: INSTITUTIONS :: CONFERENCES :: JOBS :: EXPERIMENTS :: JOURNALS :: HELP

HEP Search

High-Energy Physics Literature Database

Use "find" for SPIRES-style search ([other tips](#))

[find j Phys.Rev.Lett. 105](#) - [more](#)

HOW TO SEARCH

SPIRES syntax is (mostly) supported (requires "find")

- find a richter, b and t quark and date > 1984
- find j phys.rev.,D50,1140 or j hep,0903,112
- find eprint arxiv:1007.5048 (Note the plots available on the detailed record)
- find fulltext "quark-gluon plasma" (Note new "fulltext" operator)
- find a ellis and refersto a witten (Note "refersto")
- find a kane and citedby title SUSY and topcite 200+ (Note "citedby")

New techniques:

- 1985 richter quark multiplicity
- arXiv:1007.5048
- citedby:author:ellis -refersto:author:witten
- author:randall | author:sundrum cited:400->1350

Additional Help:

- [More search tips and full help](#)

INSPIRE UPDATES

See our blog at blog.inspirehep.net for updates on new features and other news. You can also follow us at [@inspirehep](#) on twitter. To send us feedback use feedback@inspirehep.net. The data in INSPIRE is updated daily. To request corrections to data in INSPIRE, write us at help@inspirehep.net. INSPIRE superseded SPIRES in 2012.

HEP

- Additions
- Corrections
- Search Tips
- FAQ
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RESOURCES


- ADS
- arXiv
- HepData
- INIS
- PDG
- PDG review of online resources

INSPIRE NEWS

2017-09-08 Add your ORCID to your INSPIRE record
[@ORCID_Org](https://t.co/SH1tLdeDot)

2017-09-05 Got a question about INSPIRE? Try our FAQ:
<https://t.co/O3aUSYYw2>

2017-09-04 #Service_tweet INSPIRE is still having intermittent problems, due to storage issues. More info here:
<https://t.co/pbUzaEQryZ>



Keeping track of scientific papers:

Choosing a citation manager

- [EasyBib](#)

Automatic works cited and bibliography formatting for MLA, APA, and Chicago/Turabian citation styles.

- [Mendeley](#)

Mendeley is a free reference manager and academic social network. Make your own fully-searchable library in seconds, cite as you write, and read and annotate your PDFs on any device.

- [Zotero](#)

Zotero is a free, easy-to-use tool to help you collect, organize, cite, and share your research sources.

More information on citation managers

[Citation Management Overview](#)—University Library

[Comparison of Reference Management Software](#)

Other Useful Bibliographic Resources for Researchers:

Google Scholar (scholar.google.com): A widely used search engine for scholarly literature across various disciplines, including articles, theses, books, and conference papers.

JSTOR (www.jstor.org): A digital library providing access to thousands of academic journals, books, and primary sources in many fields.

PubMed (pubmed.ncbi.nlm.nih.gov): A free resource that provides access to a vast database of references and abstracts on life sciences and biomedical topics.

Scopus (www.scopus.com): A comprehensive abstract and citation database of peer-reviewed literature, including scientific journals, books, and conference proceedings.

Web of Science (www.webofscience.com): A multidisciplinary citation database that provides access to research articles and citation indexing across various fields.

Other Useful Bibliographic Resources for Researchers:

ERIC (eric.ed.gov): The Education Resources Information Center provides access to educational literature and resources, including journal articles and reports.

WorldCat (www.worldcat.org): A global catalog of library collections that allows users to search for books, articles, and other resources available in libraries worldwide.

Project MUSE (muse.jhu.edu): Provides access to humanities and social sciences content from scholarly journals and books.

Open Library (openlibrary.org): An initiative of the Internet Archive that offers access to millions of books and bibliographic information.

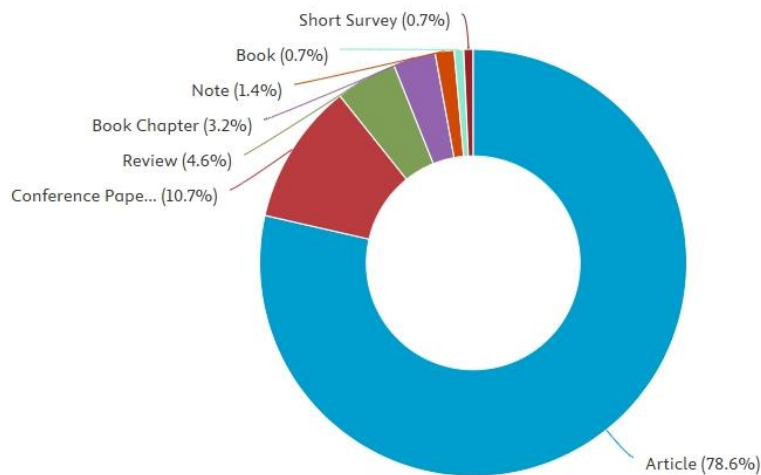
CiteSeerX (citeseerx.ist.psu.edu): A digital library and search engine for scientific and academic papers, particularly in computer and information science.

Familiarize Yourself with Useful Search Practices and Capabilities

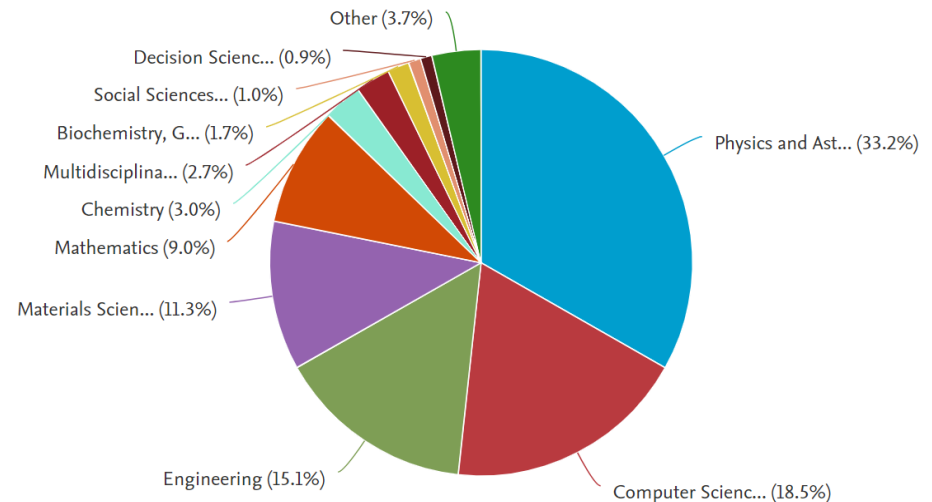
- Explore capabilities of bibliographic resources to identify connections with different fields or papers

“Quantum supremacy using a programmable superconducting processor,” F. Arute *et al.*, *Nature* **574**, 505 (2019).

Scopus “Document by Type”



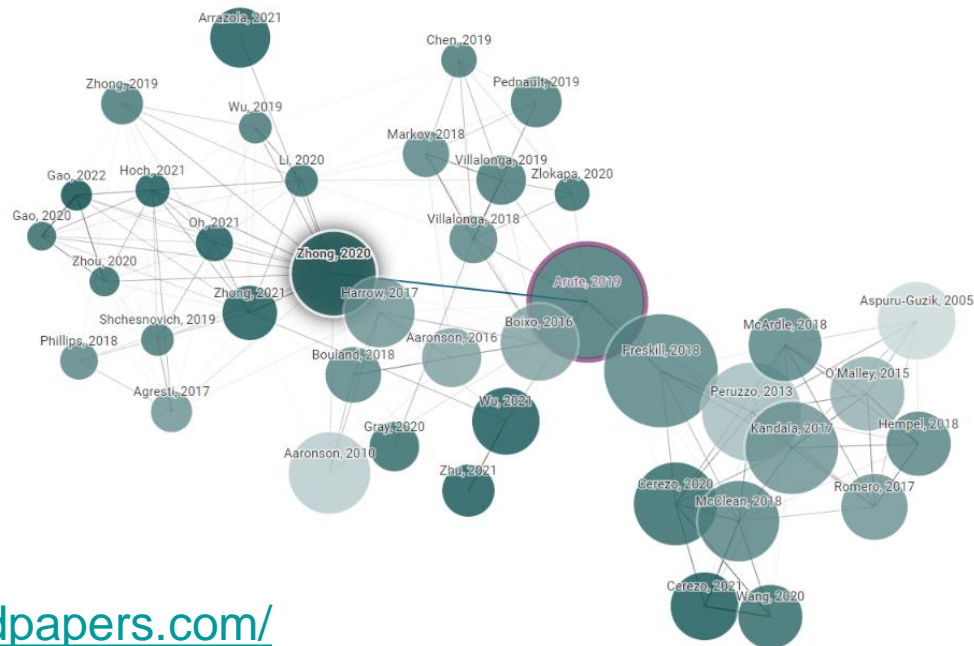
Scopus “Document by Subject Area”



Familiarize Yourself with Useful Search Practices and Capabilities

- Explore capabilities of bibliographic resources to identify connections with different fields or papers

**Visualize connections
between papers**



<https://www.connectedpapers.com/>

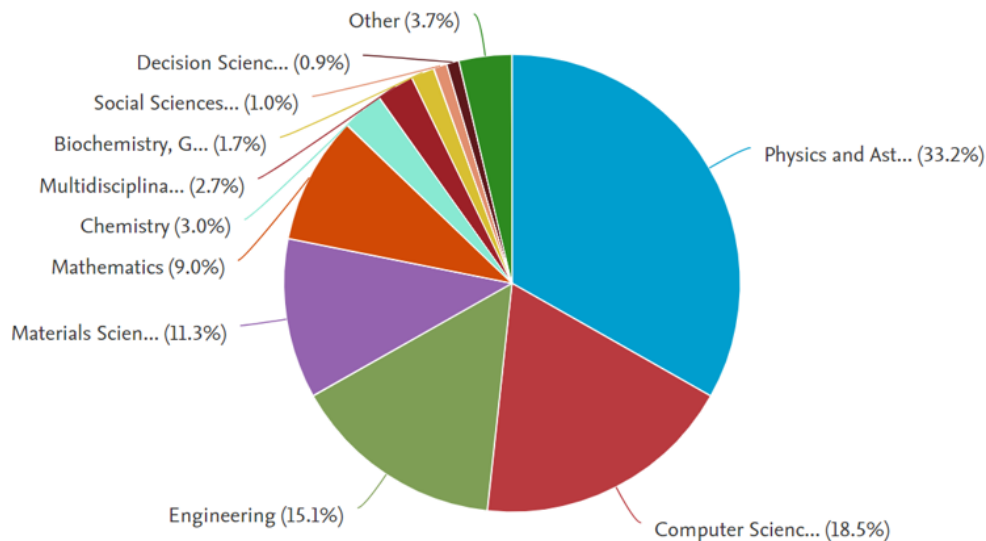
Example Journal Club Citation Evaluation from 2023

Quantum Supremacy Using a Programmable Superconducting Processor

Daren Chen, Cianan Conefrey-Shinozaki, Rupsa De, Emily Dillingham, and Marshal Dong
December 1st, 2023 Physics 596

Arute, F., et al.(2019). Nature, 574(7779), 505–510. <https://doi.org/10.1038/s41586-019-1666-5>

Breaking the citations down by field



Other

- Chemical Engineering - 59 documents
- Business, Management and Accounting - 35 documents
- Energy - 29 documents
- Medicine - 27 documents
- Earth and Planetary Sciences - 24 documents
- Environmental Science - 22 documents
- Arts and Humanities - 21 documents
- Economics, Econometrics and Finance - 18 documents
- Pharmacology, Toxicology and Pharmaceutics - 11 documents
- Neuroscience - 8 documents

Plus 5 additional sources.

Click chart segment to view document list.

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Citations from unexpected fields:

Medicine:

Uthamacumaran, A. (2021). A review of dynamical systems approaches for the detection of chaotic attractors in cancer networks. Patterns, 2(4), 100226.
<https://doi.org/10.1016/j.patter.2021.100226>

International Security:

Derian, J. D., & Wendt, A. (2020). 'Quantizing international relations': The case for quantum approaches to international theory and security practice. Security Dialogue, 51(5), 399–413. <https://doi.org/10.1177/0967010620901905>

Physics Education:

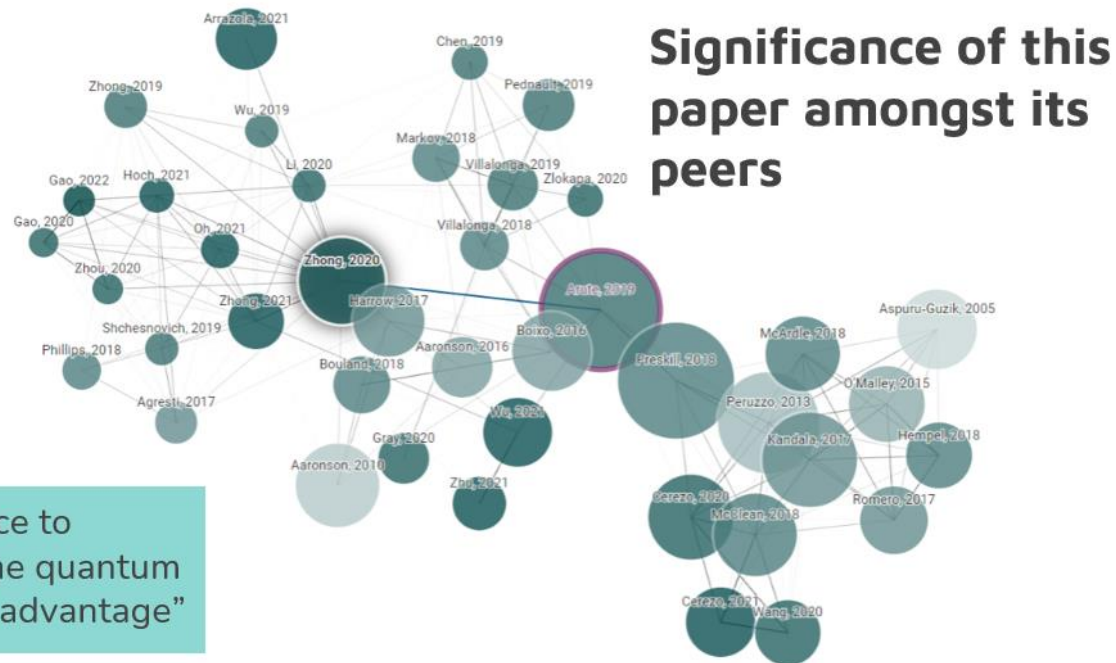
Fox, M. F. J., et. al. (2020). Preparing for the quantum revolution: What is the role of higher education? Physical Review, 16(2).
<https://doi.org/10.1103/physrevphyseducres.16.020131>

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Wu, Y., et. al. (2021). [Strong quantum computational advantage using a superconducting quantum processor](https://doi.org/10.1103/physrevlett.127.180501). Physical Review Letters, 127(18). <https://doi.org/10.1103/physrevlett.127.180501>

<https://www.connectedpapers.com/>

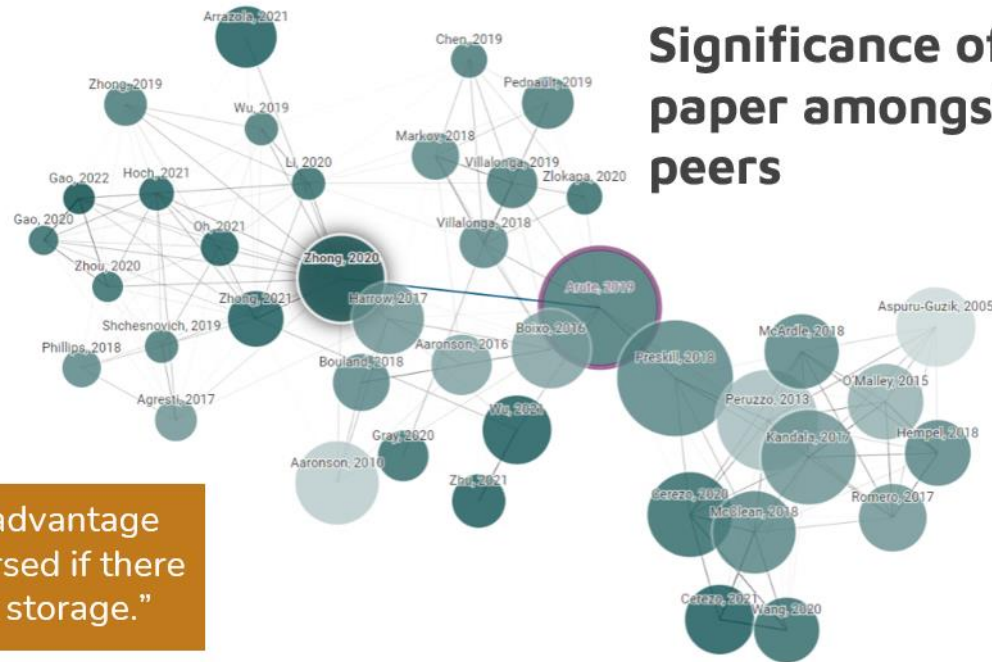
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Arute, F., et al.(2019). Nature, 574(7779), 505–510. <https://doi.org/10.1038/s41586-019-1666-5>

Significance of this paper amongst its peers



“the quantum advantage would be reversed if there were sufficient storage.”

Zhong, H., et. al. (2020). Quantum computational advantage using photons. Science, 370(6523), 1460–1463.
<https://doi.org/10.1126/science.abe8770>

<https://www.connectedpapers.com/>

Example Journal Club Citation Evaluation from 2023

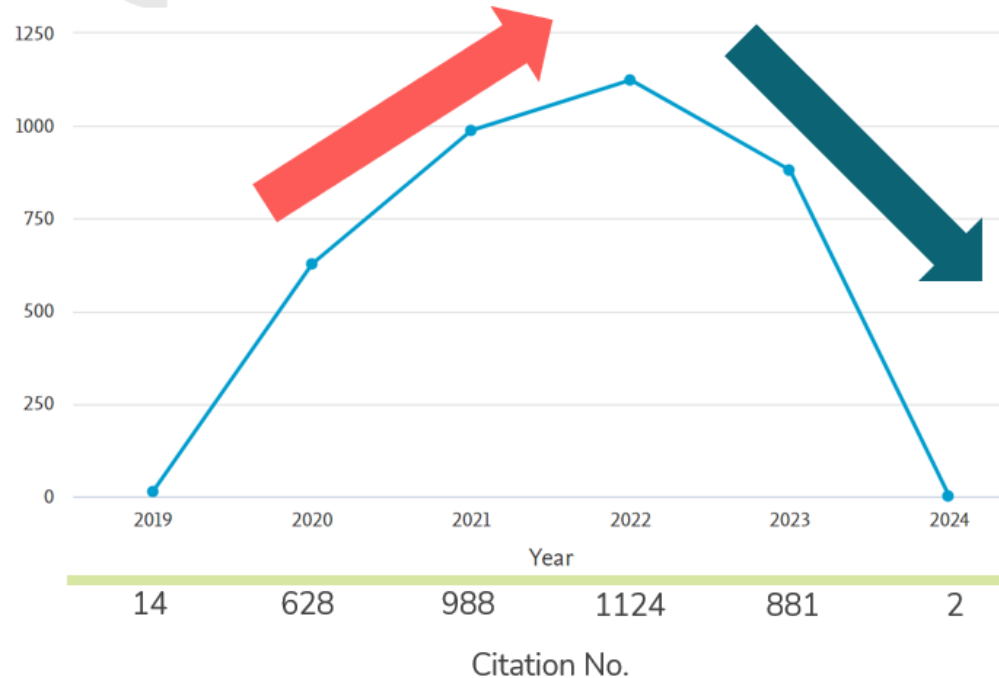
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Citations by the number



Potential Problems with Bibliometric Assessments of Research

- Over reliance on bibliometric measures to evaluate research performance and importance
- Potential for citation manipulation
- Citation/h-index anxiety, impact factor obsession



The Leiden Manifesto for research metrics

Use these ten principles to guide research evaluation, urge **Diana Hicks, Paul Wouters** and colleagues.

Data are increasingly used to govern science. Research evaluations that were once bespoke and performed by peers are now routine and reliant on metrics¹. The problem is that evaluation is now led by the data rather than by judgement. Metrics have proliferated: usually well intentioned, not always well informed, often ill applied. We risk damaging the system with the very tools designed to improve it, as evaluation is increasingly implemented by organizations without knowledge of, or

advice on, good practice and interpretation.

Before 2000, there was the Science Citation Index on CD-ROM from the Institute for Scientific Information (ISI), used by experts for specialist analyses. In 2002, Thomson Reuters launched an integrated web platform, making the Web of Science database widely accessible. Competing citation indices were created: Elsevier's Scopus (released in 2004) and Google Scholar (beta version released in 2004). Web-based tools to easily compare institutional research productivity and impact

were introduced, such as InCites (using the Web of Science) and SciVal (using Scopus), as well as software to analyse individual citation profiles using Google Scholar (Publish or Perish, released in 2007).

In 2005, Jorge Hirsch, a physicist at the University of California, San Diego, proposed the *h*-index, popularizing citation counting for individual researchers. Interest in the journal impact factor grew steadily after 1995 (see 'Impact-factor obsession').

Lately, metrics related to social usage ▶

ILLUSTRATION BY DAVID PARKINS

To recap:

Huge resources are available on your desktop

Get familiar with the Physics Library website

Make friends with Mary Schlembach

If you need help finding something, ASK!

Figure out how you're going to keep track of all those papers



Questions?

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cmelliot@illinois.edu