Advanced Google Scholar

Daniel M Russell
January, 2017 • Google, Mountain View, CA
What’s in Scholar?

a simple way to broadly search through scholarly literature. From one place, you can search across many disciplines and sources: articles, theses, books, abstracts and court opinions, from academic publishers, professional societies, online repositories, universities and other web sites.
Quick start... Finding Scholar

- D’oh

[ Google Scholar ]

- Or... Scholar.Google.com
* Try it out.... What do you want to search for?

- Search for your favorite scholarly article:
  - suggestion: [ecology of Yosemite]

- And now... can you find the full-text of that article?

- Explore a bit:
  - Note: What do Scholar hits look like?
  - Note: Can you find a topic that has NO Scholarly literature?
What is Google Scholar?

- Indexes the scholarly literature
- search across many disciplines
- search for articles, theses, books, abstracts, court opinions from:
  - Academic publishers, professional societies, online repositories, universities and other web sites
  - Some articles are linked to library resources if you work on campus (and have a link resolver)
Coverage

- We index research articles and abstracts from most major academic publishers and repositories worldwide, including both free and subscription sources. To check current coverage of a specific source in Google Scholar, search for a sample of their article titles in quotes.

- While we try to be comprehensive, it isn't possible to guarantee uninterrupted coverage of any particular source. We index articles from sources all over the web and link to these websites in our search results. If one of these websites becomes unavailable to our search robots or to a large number of web users, we have to remove it from Google Scholar until it becomes available again.

- That's usually because we index many of these papers from other websites, such as the websites of their primary publishers. The "site:" operator currently only searches the primary version of each paper.

- That said, the best way to check coverage of a specific source is to search for a sample of their papers using the title of the paper.

- We index papers, not journals. Scholar also covers universities, research groups, proteins, seminal breakthroughs, and other dimensions that are of interest to users. All such questions are best answered by searching for a statistical sample of papers that has the property of interest - journal, author, protein, etc. Many coverage comparisons are available if you search for [allintitle:"google scholar"], but some of them are more statistically valid than others.
How to get to advanced search...
No partial string match

“consequence” works, but doesn’t match to “consequences” or “consequen*”

WHAT THIS MEANS: Make sure your spelling is correct if you quote!

Spell-correction on full-alert
When looking for a title, put the paper title in quotes:

“Surface circulation in the South China Sea”
Scholar operators:  author:  intitle:

- author:”d knuth” or author:”Donald E Knuth”
- intitle:decline

Global human impacts or climate change?: explaining the Sooty Shearwater decline at the Minard site, Washington State, USA
KM Bovy - Journal of archaeological science, 2007 - Elsevier
... 1). Situated on the first two dune ridges nearest to the bay, the habitation site was approximately 640 m east of the Pacific ... Other possible summer indicators include mammal "neonates" or "pups" identified by Roll (as reported by Fancher, 2001), small mammals with unfused ...
Cited by 26  Related articles  All 2 versions  Cite  Save

[HTML] The Decline of the Southern Sea Otter (Enhydra lutris nereis): Is It an Indicator of Contaminant and Pathogen Pollution, Anthropogenic Interference, and ...
DA Jessup, M Chechowitz, J Ames, M Harris... - ... ASSOCIATION OF ZOO ..., 2000 - vin.com
... in the Pacific Ocean and has never before been reported in sea otters, or any other marine mammal. ... and Sarcocystis spp., may be emerging diseases of marine mammals. ... of the Sea Otter, Dr. Mike Murray, Michele Staedler and Andy Johnson of the Monterey Bay Aquarium, Dr ...
Using site: operator

Thripenema fuscum n. sp. (Tylenchida: Allantonematidae), a parasite of the tobacco thrips, Frankliniella fusca (Thysanoptera)

Abstract Thripenema fuscum n. sp., a parasite of the tobacco thrips, Frankliniella fusca, is described and illustrated from material collected from peanut (Arachis hypogaea) in Marianna, Florida. Thripenema fuscura can be distinguished from all other previously...

Cited by 16  Related articles  All 9 versions  Cite  Save

[PDF] Thrips on vegetables crops in the Philippines

Abstract Thrips infestations have been observed on several vegetable crops, but serious damage (severe leaf bronzing, then drying) has been reported only on tomato, pepper, eggplant, watermelon, muskmelon, cucumber, garlic and potato inlow-elevation areas. The...

Cited by 14  Related articles  All 2 versions  Cite  Save  More

[PDF] Pest status and biological control of Thrips palmi in southeast Asia

Abstract Heavy outbreaks of Thrips palmi Kamey have occurred on fruit vegetables and other...
Other operators

- Minus (to exclude terms)

- OR (to give exact synonyms)
Sorting Tips: Date vs. Relevance

- You'll often get better results if you search only recent articles, but still sort them by relevance, not by date. E.g., click "Since 2013" in the left sidebar of the search results page.

- To see the absolutely newest articles first, click "Sort by date" in the sidebar.
Ways to browse....

1. Use Scholar Alerts

2. Check the bell when it’s red

3. Look at related
Your search results are normally sorted by relevance, not by date. To find newer articles, try the following options in the left sidebar:

- click "Since Year" to show only recently published papers, sorted by relevance;
- click "Sort by date" to show just the new additions, sorted by date;
- click the envelope icon to have new results periodically delivered by email.
Locating the full-text of an article

- Abstracts are freely available for most of the articles. Reading the entire article may require a subscription. Options:
  - click a link labeled [PDF] to the right of the search result
  - click "All versions" under the search result and check out the alternative sources;
  - click "Related articles" or "Cited by" under the search result to explore similar articles.
  - If you're affiliated with a university, but don't see links such as "FindIt@Harvard", please check with your local library about the best way to access their online subscriptions. You may need to do search from a computer on campus, or to configure your browser to use a library proxy.
Getting better answers: 1

- If you're new to the subject, it may be helpful to pick up the terminology from secondary sources. E.g., a Wikipedia article for "overweight" might suggest a Scholar search for "pediatric hyperalimentation".

- If the search results are too specific for your needs, check out what they're citing in their "References" sections. Referenced works are often more general in nature.

- Similarly, if the search results are too basic for you, click "Cited by" to see newer papers that referenced them. These newer papers will often be more specific.

- Explore! There's rarely a single answer to a research question. Click "Related articles" or "Cited by" to see closely related work, or search for author's name and see what else they have written.
Don’t forget the suggestions!

At the bottom of the page
Challenge: Find a scholarly paper about Yellow Fever.....

- Find... a paper from 1823 about Yellow Fever...
  
- Learn something about how Yellow Fever invaded Brooklyn Heights, NY during the last great yellow fever invasion.

- What was the most infected part of Brooklyn Heights?
The cost structure of sensemaking
DM Russell, MJ Stefk, P Pirolli... - ... of the INTERACT'93 and CHI ..., 1993 - dl.acm.org
Abstract Making sense of a body of data is a common activity in any kind of analysis. Sensemaking is the process of searching for a representation and encoding data in that representation to answer task-specific questions. Different operations during sensemaking ...
Cited by 325 - Related articles - All 10 versions

The sensemaking process and leverage points for analyst technology as identified through cognitive task analysis
P Pirolli... - Proceedings of International Conference on ..., 2005 - vadt.cc.gatech.edu
... Russell et al. (1993) have explicated the inner re- representational sensemaking process for a case in which large amounts of information had to be digested to create a curriculum for printer repairmen. ... Figure 1. Learning Loop Complex theory of sense-making (Russell, et al. ...
Cited by 169 - Related articles - View as HTML - All 6 versions

Making sense of sensemaking
... DM Russell - CHI'05 extended abstracts on Human factors ..., 2005 - dl.acm.org
Making sense of the world is a common activity. It happens whenever you confront a new, complex problem. At work, your boss says, "Can you give a presentation next week on how wireless will affect our business?" Or perhaps, you join a new committee, and wonder "... Cited by 14 - Related articles - All 3 versions

Sensemaking for the rest of us
DM Russell, R. Iffley... - Sensemaking Workshop at CHI, 2008 - comp.dit.ie
Scholar now contains legal opinions as well.

Legal documents

*Automation of legal *sensemaking* in e-discovery*
C Hogan, RS Bauer… - Artificial Intelligence and Law, 2010 - Springer

... Often "sense-making". 436 C. Hogan et al. 123 Page 7. ... The central process for any legal reasoning can be seen as that of a *sensemaker* seeking to answer task-specific questions. ... 3. This 'sensemaking loop' can be formulated as a learning task (Russell et al. 1993). ...
Cited by 4 - Related articles - All 5 versions

*Discovery-led refinement in e-discovery investigations: *sensemaking*, cognitive ergonomics and system design*
S Atfield… - Artificial Intelligence and Law, 2010 - Springer

... *Sensemaking* has been described as "the reciprocal interaction of information seeking, meaning ascription and ... Characteristically, *sense-making* involves a bi-directional interaction between engagement with data (i.e bottom-up ... 2006, 2007; Pirolli and Card 2005; Russell et al. ...
Cited by 3 - Related articles - All 7 versions

*Buckley v. Valeo*
424 US 1, 96 S. Ct. 612, 46 L. Ed. 2d 659 - Supreme Court, 1976 - Google Scholar
Cited by 14055 - How cited - Related articles - All 4 versions
Legal coverage

- Which court opinions do you include?

- Currently, Google Scholar allows you to search and read published opinions of US state appellate and supreme court cases since 1950, US federal district, appellate, tax and bankruptcy courts since 1923 and US Supreme Court cases since 1791. In addition, it includes citations for cases cited by indexed opinions or journal articles which allows you to find influential cases (usually older or international) which are not yet online or publicly available.

- Legal opinions in Google Scholar are provided for informational purposes only and should not be relied on as a substitute for legal advice from a licensed lawyer. Google does not warrant that the information is complete or accurate.
Roe v. Wade
410 US 113, 93 S. Ct. 705, 35 L. Ed. 2d 147 - Supreme Court, 1973 - Google Scholar
This Texas federal appeal and its Georgia companion, Doe v. Bolton, post, p. 179, present constitutional challenges to state criminal abortion legislation. The Texas statutes under attack here are typical of those that have been in effect in many States for approximately a century. The Georgia...
Cited by 30824 - How cited - Related articles - All 4 versions

Roe v. Wade
1220 Defendant challenges the standing of each of the plaintiffs to bring this action. However, it appears to the Court that Plaintiff Roe and plaintiff-intervenor Hallford occupy positions vis-à-vis the Texas Abortion Laws sufficient to differentiate them from the general public. ...
Cited by 319 - How cited - Related articles

Maher v. Roe
432 US 464, 97 S. Ct. 2376, 53 L. Ed. 2d 484 - Supreme Court, 1977 - Google Scholar
... The court found implicit in Roe v. Wade, 410 US 113 (1973), and Doe v. Bolton, 410 US 179 (1973), the view that "abortion and childbirth, when stripped of the sensitive moral arguments surrounding the abortion controversy, are simply two alternative medical methods of ...
Cited by 4493 - How cited - Related articles - All 4 versions

Harris v. McRae
448 US 297, 100 S. Ct. 2671, 65 L. Ed. 2d 278 - Supreme Court, 1980 - Google Scholar
... We address first the appellees' argument that the Hyde Amendment, by restricting the availability of certain medically necessary abortions under Medicaid, impinges on the "liberty" protected by the Due Process Clause as recognized in Roe v. Wade, 410 US 113, and its progeny ...
Cited by 183 - How cited - Related articles - All 4 versions
Select courts you want to search

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Can you find the Supreme Court decision where corporations were granted personhood-like rights?
Current drawbacks

- Lack of an easy way to look for important legal issues in a case (*Keycite* from *WestLaw*)
  - specific issues and authorities which serve as the basis for the ruling, and indexes them in a summary at the start of the case

- No way to *Shepardize* cases
  - *Shepards Citation Service* is a *Lexis* tool which enables a researcher to quickly determine whether or not a case is still good law. (manually review each of the results)

- Federal case law goes back 80 years

- State case law goes back 50 years
Finding experts:
Scholar is also a handy source of email addresses & expertise
Scholar links to library: WorldCat

- For libraries that have their holdings listed in OCLC's Open WorldCat, we have a link for each Google Scholar book result that leads to the Open WorldCat database where users can find the book in a local library.

- **How does it work?**
  All users of Google Scholar will see a 'Library Search' link for book results. Clicking on this link will direct them to the WorldCat system which will allow them to find a list of nearby libraries that have the desired book.
The option to include a link for their patrons to their resources as a part of the Google Scholar search results.

How does it work?
On-campus users at participating schools see additional links in Google Scholar search results which give access to their library's resources. These links lead to the library's servers which, in turn, direct them to the full-text of the article.
Searching in Scholar

Example:

[ coral bleaching ]
Limit by site:

Google Scholar
About 22 results (0.05 sec)

Articles
Case law
My library

Any time
Since 2017
Since 2016
Since 2013
Custom range...

Sort by relevance
Sort by date

[PDF] The shading effects of Dicyota sp. algae (Dictyotales, Phaeophyta) on Acropora aspera coral on the Heron Island reef flat
A Cantu, J Kokroko, J Brett, M Grove - Stanford Under-graduate ..., 2009 - stanford.edu
... References Hoegh-Guldberg O. Climate change, coral bleaching, 1. and the future of the world's reefs. Mar Freshwater Res, 1999; 50:839-866. ... Jompa J, McCook LJ. Seaweeds save the reef?!
9. Sargassum canopy decreases coral bleaching on inshore reefs. ...
Cited by 2 Related articles Cite Save More

[PDF] Evolutionary comparison of transcriptome sequences from four clades of coral endosymbionts in the genus Symbiodinium: a search for genes involved in the ...
JT Ladner, DJ Barshis... - Patricia J Gumport Vice ..., 2012 - stacks.stanford.edu
... 2002) appear to be living at, or near, their upper thermal limit, with high temperature anomalies of just 1-2 C known to cause disruption of photosynthesis, coral bleaching and even death (Pestoe and Glynn 2001; Tchernov et al. 2004). ...
Cited by 1 Related articles Cite Save More

[PDF] All climate change is local: understanding and predicting the effects of climate change from an organism's point of view
B Helmuth, L Yamane, KJ Mach, S Chhotray, P Levin... - OECOLOGIA, 2008 - stanford.edu
... estimating large-scale patterns of coral bleaching and mortality has been the estimation of Degree Heating Weeks (DHW), a measurement of the amount of time that a coral spends above the “normal” local temperature maximum.22 In other words, the time history of exposure ...
Cited by 4 Related articles All 4 versions Cite Save More
Scholar tricks & features

Google scholar

Search for: sensemaking

Results 1 - 10 of about 46,700. (0.04 sec)

**Book** Sensemaking in organizations
KE Weick - 18 books.google.com
Finalist for the George Tierney Sponsorship Award in Academia Management. This lovely and important book is the clearest, most comprehensive, and interesting statement of sensemaking in organizations available. It will have an impact on both new and experienced scholars...

Cited by 9758 - Related articles - Library Search - All 7 versions

**From the mind's eye of the user: The sense-making qualitative-quantitative methodology**
B Dervin - Qualitative research in information management, 1992 - mendeley.com
Abstract This chapter provides a summary description of the Sense-Making Methodology (still called in 1991 an approach). Sense-Making Methodology is described as having been in development since 1972 as a programmatic research effort specifically focused on...

Cited by 648 - Related articles - Cached - Library Search - All 3 versions

**The collapse of sensemaking in organizations: The Mann Gulch disaster**
KE Weick - Administrative science quarterly, 1993 - JSTOR
The death of 13 men in the Mann Gulch fire disaster, made famous in Norman Maclean's Young Men and Fire, is analyzed as the interactive disintegration of role structure and sensemaking in a minimal organization. Four potential sources of resilience that make...

Cited by 1628 - Related articles - BL Direct - All 28 versions

[PDF] from uniud.it
Advanced Scholar Search

- Have to do a search first...
Author search

- Author search is one of the most effective ways to find a specific paper. If you know who wrote the paper you're looking for, you can simply add their last name to your search terms.

For example:
The search [friedman regression] returns papers on the subject of regression written by people named Friedman. If you want to search on an author's full name, or last name and initials, enter the name in quotes: ["jh friedman"].

When a word is both a person's name and a common noun, you might want to use the "author:" operator. This operator only affects the search term that immediately follows it, and there must be no space between "author:" and your search term.

For example:
[author:flowers] returns papers written by people with the name Flowers, whereas [flowers -author:flowers] returns papers about flowers, and ignores papers written by people with the name Flowers (a minus in front of a search term excludes results that contain this search term).

You may use the operator with an author's full name in quotes to further refine your search. Try to use initials rather than full first names, because some sources indexed in Google Scholar only provide the initials.

For example:
To find papers by Donald E. Knuth, you could try [author:"d knuth"], [author:"de knuth"], or [author:"donald e knuth"].
Publication restrict

(This option is only available on the Advanced Scholar Search page.)

A publication-restricted search only returns results with specific words from a specific publication.

For example:
If you want to search the Journal of Finance for articles about mutual funds, you might start like this:

Keep in mind, however, that publication-restricted searches may be incomplete. Google Scholar gathers bibliographical data from many sources, including automatically extracting it from text and citations. This information may be incomplete or even incorrect; many preprints, for instance, don't say where (or even whether) the article was ultimately published.

In general, publication-restricted searches are effective if you're certain of what you're looking for, but they're often narrower than you might expect.

For instance:
You might find that a search across all publications for [mutual funds] gives more useful results than a more specific search for "funds" only in the Journal of Finance.

Finally, bear in mind that one journal can be spelled several ways (e.g., Journal of Biological Chemistry is often abbreviated as J Biol Chem), so you may need to try several spellings of a given publication in order to get complete search results.
Advanced search in Scholar

- Google Scholar also supports most of the advanced operators in Google web search:

  - **the "+" operator** makes sure your results include common words, letters or numbers that Google's search technology generally ignores, as in [+de knuth]

  - **the "-" operator** excludes all results that include this search term, as in [flowers -author:flowers]

  - **phrase search** only returns results that include this exact phrase, as in ["as you like it"]

  - **the "OR" operator** returns results that include either of your search terms, as in [stock call OR put]

  - **the "intitle:" operator** as in [intitle:mars] only returns results that include your search term in the document's title.
Scholar preferences
Scholar Settings

Search results

Collections
- Search articles (include patents).
- Search case law.

Languages

Library links

Account

Button

Results per page

Google's default (10 results) provides the fastest results.

Where results open

- Open each selected result in a new browser window

Bibliography manager

- Don't show any citation import links.
- Show links to import citations into BibTeX.
Adding Scholar to your website

- [Link](http://scholar.google.com/scholar/searchbox/)
- Allows Google Scholar searches w/o leaving your academic website
Scholar now contains legal opinions as well

- full text of legal opinions issued by state and federal courts
Current drawbacks

- Lack of an easy way to look for important legal issues in a case (*Keycite* from WestLaw)
  - specific issues and authorities which serve as the basis for the ruling, and indexes them in a summary at the start of the case

- No way to *Shepardize* cases
  - *Shepards Citation Service* is a Lexis tool which enables a researcher to quickly determine whether or not a case is still good law. (manually review each of the results)

- Federal case law goes back 80 years

- State case law goes back 50 years
Scholar Citations

- scholar.google.com/citations

- Example: http://scholar.google.com/citations?user=3iDBE-MAAAAJ&hl=en

- Example (Feynman): http://scholar.google.com/citations?user=B7vSqZsAAAAJ&hl=en

- MY Citations: http://scholar.google.com/citations?hl=en&user=g6Tz2QwAAAAJ
How to get to Scholar Profile

Google search for Ben Bederson.
**Benjamin B. Bederson**  
Professor of Computer Science, University of Maryland  
Human-Computer Interaction  
Verified email at cs.umd.edu - Homepage

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<thead>
<tr>
<th>Title</th>
<th>Cited by</th>
<th>Year</th>
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<tr>
<td>Technology probes: inspiring design for and with families</td>
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<td>2003</td>
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<td>H Hutchinson, W Mackay, B Westerlund, BB Bederson, A Druin, ...</td>
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<td>Proceedings of the SIGCHI conference on Human factors in computing systems ...</td>
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<td>670</td>
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<td>BB Bederson, B Shneiderman, M Wattenberg</td>
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<tr>
<td>ACM Transactions on Graphics (TOG) 21 (4), 833-854</td>
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**Co-authors**  
View all...

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- Ben Shneiderman
- James D. Hollan
- Bongshin Lee
- Eric L. Schwartz
- Mary Czerwinski
- Chang Hu
- Bongwon Suh
- Michael Traugott
- Philip Resnik
Adv
Search
in
Patents
Demo

[ ininventor:brin inassignee:google ]

System and methods for enticing users to access a web site
Sergey Brin

United States Patent
Brin

Patent No.: US 7,912,915 B1
Date of Patent: Mar. 22, 2011
Scholar: “Just scholarly papers”... but...

- ~1.8 million papers in ~28,000 journals
  - What fraction of those journals are “vampire” journals?
  - What fraction of those articles are read?

Example:

The International Journal of Advanced Computer Technology

[Image: Get me off Your Fucking Mailing List]

end