



## **What is Scopus? [www.scopus.com](http://www.scopus.com)**

**18,000 peer-reviewed journals**

**400 trade publications**

**300 book series**

**24.5 million records with references (to 1996)**

**21 million records pre-1996 (back to 1823)**

**4.6 million conf papers from proceedings & jrnl**

**350 million scientific web pages indexed by Scirus**

**24.7 million patent records from 5 patent offices**

**“Articles-in-Press” from >3850 journals**

## Searching for a topic

The screenshot shows the Scopus search interface with several annotations:

- Document search** tab (default)
- Search for: `superconductor AND "broken symmetry"` (Use quotation marks to search for exact phrases)
- Boolean operators: `AND` (Use Boolean operators to add or narrow terms, or add more search fields)
- Date Range: `Published All years to Present` (Specify the date range)
- Subject Areas:  Life Sciences (> 4,300 titles),  Health Sciences (> 6,800 titles, 100% Health coverage),  Physical Sciences (> 7,200 titles),  Social Sciences & Humanities (> 5,300 titles) (Turn off irrelevant subject areas to speed up searches)

## Scopus is smart...

The screenshot shows the Scopus search interface with a search query: `TITLE-ABS-KEY ( superconductor AND "broken symmetry" )`. The search results show "No results were found." Below the search bar, an alternative spelling is suggested: `TITLE-ABS-KEY(superconductor AND "broken symmetry")`. The interface also includes a navigation menu with options like "About Scopus", "Contact and support", and "About Elsevier".

**Recognizes my spelling error, suggests a correction, and links to those results**

## Results can be refined by many search parameters

The screenshot shows the Scopus search results interface. At the top, the search bar contains the query 'topological insulators' and the results count is 'Scopus: 112'. Below the search bar, there are several filter options: 'More...', 'Web', and 'Patents'. The main results table lists several articles with columns for 'Document title', 'Author(s)', 'Date', 'Source title', and 'References'. The first article is 'Topological defects coupling smectic modulations to intra-unit-cell nematoid in cuprates' by Hezari, A., Fata, K., Esaki, H., Uchida, S., Otsu, J.C., Sachdev, S., Zaanen, J., Li, L., Kim, E.-A. (2011). The second article is 'Normal effect in the cuprate superconductor YBaCu3Ox: Broken rotational and translational symmetries' by Chang, J., Dorn-Lienhard, N., Laibin, F., Claus, R., Lehner, D., Ramonino, D.J., Liang, R., Li, J., Tsherng, L. (2011). The third article is 'Electronic structure of the cuprate superconductor and pseudogap phases from spectroscopic imaging STM' by Schmidt, A.B., Fujita, K., Kim, E.-A., Linder, M.J., Esaki, H., Uchida, S., Lee, D.-H., Giamberini, J.C. (2011). The fourth article is 'Observation of topological order in a superconducting doped topological insulator' by Wang, L.A., Yu, S.-Y., Wu, Y., Hsu, Y.S., Qian, D., Fedorov, A.V., Liu, H.-L., Hasan, M.Z. (2010). The fifth article is 'Scattering and pairing in cuprate superconductors' by Falck, L. (2010). The sixth article is 'Particle-hole symmetry breaking in the pseudogap state of Bi2211' by Hoshino, M., Hir, R., Tanaka, K., Teitard, J.-P., Bevanora, W., Moore, R.G., Lu, D.-L., Shen, Z.-X. (2010). The seventh article is 'Fermi liquid behavior in an underdoped high-Tc superconductor' by Sebastian, S.E., Harrison, M., Abraham, M.M., Liang, R., Bonn, D.A., Hardy, W.A., Lonzarich, G.G. (2010). On the left side, there are filters for 'Search within results', 'Year' (2011, 2010, 2009, 2008, 2007), 'Author Name', and 'Subject Areas'. On the right side, there are filters for 'Go to page', '1 of 6', and 'Date (Newest)'. Red circles highlight the 'Scopus: 112' count, the search bar, the 'Search within results' filter, the 'Year' filter, the 'Author Name' filter, the 'Subject Areas' filter, the 'Go to page' filter, and the 'Date (Newest)' filter.

## Clicking a title gives you the abstract, links to the full paper, citations, references, and related docs

The screenshot shows the Scopus article page for the article 'The quantum spin Hall effect and topological insulators' by Qi, X.-L., and Zhang, S.-C. (2010). The page displays the article title, authors, and affiliations. The abstract is visible, stating: 'In the quantum world atoms and their electrons can form many different states of matter, such as crystalline solids, magnets, and superconductors. These different states can be classified by the symmetries that spontaneously break - translational, rotational, and gauge symmetries, respectively, for the examples above. Before 1980 all states of matter in condensed-matter systems could be classified by the principle of broken symmetry. The quantum Hall (QH) state, discovered in 1980, provided the first example of a quantum state that has no spontaneous broken symmetry. Its behavior depends only on its topology and not on its specific geometry. It was topologically distinct from all previously known states of matter. © 2010 American Institute of Physics.' The page also shows a list of references, including 'Xiang, K.Y., Dorra, G., Pepper, M. (2007) Physical Review Letters 99(16), 166801' and 'Bernevig, B.A., Hughes, T.L., Zhang, S.-C. (2006) Science 314(5808), 1744-1747'. On the right side, there are sections for 'Cited by since 1996', 'Other citing sources', and 'Related documents'. Red circles highlight the article title, the abstract, the references, and the 'Cited by since 1996' section.

## You can also search by author

The screenshot shows the Scopus Author search page. Annotations with blue arrows point to various fields and options:

- Use the "Author search"**: Points to the "Author search" tab.
- Type in author surname and initials**: Points to the "Last Name" and "Initials or First Name" input fields.
- Use "exact matches" to narrow search**: Points to the "Exact matches only" checkbox.
- Leave "Affiliation" blank for more results**: Points to the "Affiliation" input field.
- Turn off irrelevant subject areas to speed up searches**: Points to the "Subject Areas" section where "Life Sciences" and "Health Sciences" are unchecked.

Below the search form is a "Search history" section showing previous queries and their results.

## Select the correct author...

The screenshot shows the "Make Author Selection" page. Annotations with blue arrows point to the "Show Documents" button and the first author entry in the results table:

- ...and click on "Show Documents"**: Points to the "Show Documents" button at the bottom of the page.
- Select the correct author...**: Points to the first author entry in the table, which is circled in blue.

Authors	Documents	Subject Area	Affiliation	City	Country
<input checked="" type="checkbox"/> Fraukin, Eduardo H. (1)	100	Physics and Astronomy; Materials Science; Mathematics...	University of Illinois at Urbana-Champaign	Urbana	United States
<input type="checkbox"/> Fraukin, E. S. (2)	111	Physics and Astronomy; Mathematics; Engineering...	Ph Leibniz Physics Institut, Russian Academy of Sciences	Moscow	Russian Federation
<input type="checkbox"/> Fraukin, E. E. (3)	27	Physics and Astronomy; Engineering; Chemistry...	Saint Petersburg State University	Saint Petersburg (in Leningrad)	Russian Federation
<input type="checkbox"/> Fraukin, E. E. (4)	12	Engineering Earth and Planetary Sciences	ZAO Tolmari	Moscow	Russian Federation
<input type="checkbox"/> Fraukin, L. E. (5)	5	Materials Science; Engineering	Donetsk Polytechnic Inst		Russian Federation
<input type="checkbox"/> Fraukin, Edward J. (6)	17	Chemical Engineering			
<input type="checkbox"/> Fraukin, G. E. (7)	13	Energy			

## And we get Eduardo's 160 papers

Scopus: 160

Document results: 160

Document title	Author(s)	Date	Source title	Citations
Role of nematic fluctuations in the thermal melting of pair density wave phases in two-dimensional superconductors	Baro D.G., Fradkin, E.	2011	Physical Review B - Condensed Matter and Materials Physics 83 (16), art. no. 160509	1
Boundary effects on the local density of states of one-dimensional Mott insulators and charge density wave states	Schunck, D., Essler, F.H.L., Jaffer, A., Fradkin, E.	2011	Physical Review B - Condensed Matter and Materials Physics 83 (3), art. no. 035111	1
The effective fine structure constant of freestanding graphene measured in graphite	Reed, J.P., Uchida, S., Jia, Y.L., Gan, Y., Clark, D., Fradkin, E., Abanov, P.	2010	Science 330 (6055), pp. 821-824	8
Charge density wave and superconductor competition in stripe phases of high-temperature superconductors	Jaffer, A., Li, S., Fradkin, E.	2010	Physical Review B - Condensed Matter and Materials Physics 82 (14), art. no. 144331	8
Universal behavior of entanglement in 2D quantum critical linear models	Hou, B., Fradkin, E.	2010	Journal of Statistical Mechanics: Theory and Experiment 2010, art. no. P10004	8
Pair density wave condensates in the Kondo-Hubbard model	Berg, E., Fradkin, E., Kivelson, S.A.	2010	Physical Review Letters 105 (14), art. no. 146403	1
Toxicity gas sensing properties of p- and n-doped ZnO thin films	Kobayashi, Y., Fradkin, E., Lamatry, Y., Roshchik, A., Komori, T., Ushida, T.	2010	Sensors and Actuators B: Chemical 148 (2), pp. 379-387	1

which can also be sorted in a variety of ways

## Scopus saves up to 50 searches per session automatically

Search history

Select:  All Combine queries e.g. #1 AND #2) AND NOT #3 Search ? Combining queries

Search	Results	Actions
3 <input type="checkbox"/> AU-ID("Fradkin, Eduardo H." 35498145900)	160	Edit   Save   Set alert   Set feed
2 <input type="checkbox"/> TITLE-ABS-KEY(superconductor AND "broken symmetry") AND (LIMIT-TO(AU-ID, "Sauls, J. A." 7004133097))	3	Edit   Save   Set alert   Set feed
1 <input type="checkbox"/> TITLE-ABS-KEY(superconductor AND "broken symmetry")	0	Edit   Save   Set alert   Set feed

Note: This Search history will contain the latest 50 searches you perform in this session.

If you "register" with Scopus (which is free), you can save searches with your user name and password

# Want to use Scopus\* from home? Log in through the Library gateway <http://www.library.illinois.edu/phx/>

The screenshot shows the 'Physics & Astronomy Library' gateway page. The header includes the University of Illinois logo and the text 'UNIVERSITY LIBRARY UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN'. Below the header, the page is titled 'The Virtual Physics and Astronomy Library'. A navigation menu on the left lists various search tools and services. The main content area is organized into several sections: 'Electronic Resources' (including SCOPUS, ARIB, ADS, etc.), 'Journal and Article Locator', 'Article Databases', 'Full-Text Portals', 'Physics Resources', 'Dissertation & Theses', 'Handbook & Reference Resources', and 'Grant Resources'. Each section contains a list of links to various physics-related resources.

\*and any of the Physics electronic resources