

# Introduction to Scopus

## [www.scopus.com](http://www.scopus.com)



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# **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 & jrnls**

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

**24.7 patent records from five patent offices**

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

# Searching for a topic

The screenshot shows the Scopus search interface. At the top, there are logos for SciVerse and Scopus, and navigation links for Hub, ScienceDirect, Scopus, SciTopics, and Applications. Below this is a navigation bar with links for Search, Sources, Analytics, My alerts, My list, and My settings. A banner for Scopus apps is visible. The main search area has tabs for Document search (selected), Author search, Affiliation search, and Advanced search. The search input field contains the text "superconductor AND 'broken symmetry'" and a dropdown menu is set to "Article Title, Abstract, Keywords". Below the search field are options to "Add search field" and a "Search" button. The "Limit to:" section includes "Date Range (inclusive)" with radio buttons for "Published" (selected) and "Added to Scopus in the last 7 days", and "Document Type" set to "All". The "Subject Areas" section has checkboxes for Life Sciences, Health Sciences, Physical Sciences, and Social Sciences & Humanities, all of which are checked. A "Search" button is at the bottom right of the search area. Below the search area is a "Search history" section with a table with columns "Search", "Results", and "Actions", and a message stating "You have not performed any searches in this session."

Use the “Document search” tab (default)

Type in key words

Use quotation marks to search for exact phrases

Use Boolean operators to add or narrow terms, or add more search fields

Specify the date range

Turn off irrelevant subject areas to speed up searches

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

# Scopus is smart...

The screenshot displays the Scopus search interface. At the top, there is a navigation bar with links for Search, Sources, Analytics, My alerts, My list, and My settings. Below this is a 'Quick Search' box with a search button. The search results section shows 'Scopus: 0' and filters for 'More...', 'Web', and 'Patents'. The search query is 'TITLE-ABS-KEY ( superconductor AND "broken symmetry" )'. Below the query, there is a suggestion: 'Alternative spelling is: TITLE-ABS-KEY(superconductor AND "broken symmetry")'. A red 'X' icon and the text 'No results were found.' are displayed. At the bottom, there is a footer with navigation links for 'About Scopus', 'Contact and support', and 'About Elsevier', along with a copyright notice for Elsevier B.V. and Elsevier Properties S.A.

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

# Results can be refined by many search parameters

The screenshot shows a Scopus search results page for the query "TITLE-ABS-KEY(superconductor AND broken symmetry)". The page is annotated with blue circles highlighting various search refinement features:

- Search Bar:** A red circle highlights the search bar containing the query and the "Search" button.
- Search Results Summary:** A red circle highlights the "Scopus: 112" result count.
- Search Within Results:** A blue circle highlights the "Search within results" button.
- Refine Results:** A large blue circle highlights the "Refine results" sidebar, which includes:
  - Year:** A list of years from 2007 to 2011 with counts of results for each year.
  - Author Name:** A list of author names with counts of results for each author.
  - Subject Area:** A section for refining results by subject area.
- Document Results Table:** A blue circle highlights the table header, which includes columns for Document title, Author(s), Date, Source title, and Citations.
- Table Content:** The table lists seven documents with their titles, authors, dates, source titles, and citation counts. For example, the first document is "Topological defects coupling smectic modulations to intra-unit-cell nematicity in cuprates" by Mesaros, A., Fujita, K., Eisaki, H., Uchida, S., Davis, J.C., Sachdev, S., Zaanen, J., Kim, E.-A., published in 2011 in *Science* 333 (6041), pp. 426-430, with 0 citations.
- Navigation and Sorting:** A blue circle highlights the "Go to page: 1 of 6" and "Go" buttons, and another blue circle highlights the "Sort by: Date (Newest)" dropdown menu.

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

View search history | Back to results | < Previous 9 of 112 Next >

Download PDF | Export | Print | E-mail | Create bibliography | Add to My List

Physics Today  
Volume 63, Issue 1, 2010, Pages 33-38

ISSN: 00319228  
CODEN: PHTOAJ  
DOI: 10.1063/1.3293411  
Document Type: Article  
Source Type: Trade Journal

View references (25)

View at publisher | [Cover full text](#)

## The quantum spin Hall effect and topological insulators

Qi, X.-L.<sup>a</sup>, Zhang, S.-C.<sup>b</sup>

<sup>a</sup> Stanford Institute for Materials and Energy Science  
<sup>b</sup> Stanford University, Stanford, CA, United States

### Abstract

In the quantum world, atoms and their electrons can form many different states of matter, such as crystalline solids, magnets, and **superconductors**. Those different states can be classified by the **symmetries** they 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 spontaneously **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.

### Language of original document

English

### References (25) View in table layout

Export | Print | E-mail | Create bibliography

Select:  Page

- Klitzing, K.V., Dorda, G., Pepper, M.  
**New method for high-accuracy determination of the fine-structure constant based on quantized hall resistance**  
(1980) *Physical Review Letters*, 45 (6), pp. 494-497. Cited 1044 times.  
doi: 10.1103/PhysRevLett.45.494

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- Bernevig, B.A., Hughes, T.L., Zhang, S.-C.  
**Quantum spin hall effect and topological phase transition in HgTe quantum wells**

### Cited by since 1996

This article has been cited 134 times in Scopus:  
(Showing the 2 most recent)

Yang, Y., Xu, Z., Sheng, L.  
**Time-reversal-symmet... quantum spin Hall effect**  
(2011) *Physical Review Letters*

Prada, E., San-Jose, P., Brey, L.  
**Band topology and the quantum spin Hall effect in bilayer graphene**  
(2011) *Solid State Communications*

View details of all 134 citations

Inform me when this document is cited in Scopus:

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### Other citing sources

Web: 1 time

### Related documents

Showing the 2 most relevant related documents  
by all shared references:

Hasan, M.Z., Kane, C.L.  
**Colloquium: Topological insulators**  
(2010) *Reviews of Modern Physics*

Bergman, D.L., Refael, G.  
**Bulk metals with helical surface states**  
(2010) *Physical Review B - Condensed Matter and Materials Physics*

View all related documents based on all shared  
references or select the shared references to use

Find more related documents in Scopus based on:

# You can also search by author



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Document search | **Author search** | Affiliation search | Advanced search

Author *i* : Last Name:  E.g., smith | Initials or First Name:  E.g., j.l. |  Show exact matches only

Affiliation:  E.g., university of toronto

Search

Subject Areas *i*

Life Sciences  Physical Sciences  
 Health Sciences  Social Sciences & Humanities

Search

Search history Hide

Delete

Select:  All  Combine queries  Search *?* Combining queries

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

Use the "Author search"

Type in author surname and initials

Use "exact matches" to narrow search

Leave "Affiliation" blank for more results

Turn off irrelevant subject areas to speed up searches

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

[Top of page](#)

# Select the correct author...

## Make Author Selection

Author Last Name:   
E.g., smith

Initials or First Name:   Show exact matches only  
E.g., j.l.

Affiliation:   
E.g., university of toronto

Subject Areas: **Physical Sciences** [Edit](#)

To determine which author names should be grouped together under a single identifier number, the Scopus Author Identifier uses an algorithm that matches author names based on their affiliation, address, subject area, source title, dates of publication, citations, and co-authors. Documents with insufficient data may not be matched, this can lead to more than one entry in the results list for the same author. By default, only details pages matched to more than one document in Scopus are shown in search results. [About Scopus Author Identifier](#)

Author results: 7 of 11 [Show Profile Matches with One Document](#) 1 of 1

Refine results

Source Type:  Physics Letters A (2) >  Nuclear Physics B (2) >  Annals of Physics (2) >  Nature (2) >  Physics Letters Section B Nuclear Elementary Particle and High Energy Physics (2) > [View more](#) | [View fewer](#)

Affiliation:  CEA Saclay (2) >  University of Illinois (2) >  Russian Academy of Sciences (1) >  Saint Petersburg State University (1) >  Scientific Research Institute of Laser Physics (1) > [View more](#) | [View fewer](#)

City:

Sort by: **Document Count (Descending)**

Authors	Documents	Subject Area	Affiliation	City	Country
<input checked="" type="checkbox"/> 1 <b>Fradkin, Eduardo H.</b> Fradkin, E. Fradkin, Eduardo Fradkin, Eduardo	160 <a href="#">Show Last Title</a>	Physics and Astronomy; Materials Science; Mathematics; ...	University of Illinois at Urbana-Champaign	Urbana	United States
<input type="checkbox"/> 2 <b>Fradkin, E. S.</b>	111 <a href="#">Show Last Title</a>	Physics and Astronomy; Mathematics; Engineering; ...	Pn Lebedev Physics Institute, Russian Academy of Sciences	Moscow	Russian Federation
<input type="checkbox"/> 3 <b>Fradkin, E. E.</b> Fradkin, E. E. Fradkin, Ewald E. Fradkin, E. E.	27 <a href="#">Show Last Title</a>	Physics and Astronomy; Engineering; Chemistry; ...	Saint Petersburg State University	Saint Petersburg (ex Leningrad)	Russian Federation
<input type="checkbox"/> 4 <b>Fradkin, E. I.</b>	12 <a href="#">Show Last Title</a>	Engineering; Earth and Planetary Sciences	ZAO Sotsintel	Moscow	Russian Federation
<input type="checkbox"/> 5 <b>Fradkin, L. E.</b>	4 <a href="#">Show Last Title</a>	Materials Science; Engineering	Donetsk Polytechnic Inst		Russian Federation
<input type="checkbox"/> 6 <b>Fradkin, Edward J.</b> Fradkin, E. J.	2 <a href="#">Show Last Title</a>	Chemical Engineering			
<input type="checkbox"/> 7 <b>FRADKIN, G. E.</b>	2 <a href="#">Show Last Title</a>	Energy			

All  With selected:  Page

...and click on "Show Documents"

# And we get Eduardo's 160 papers

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SciVerse Scopus

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University of Illinois at Urbana-Champaign

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Quick Search  Search

Scopus: 160 More... Web Patents

Your query: AU-ID("Fradkin, Eduardo H." 35498145900) | Edit | Save | Set alert | Set feed | View search history

Document results: 160 | Show all abstracts

Go to page: 1 of 8 Go Next >

Search within results  Search

Refine results  
Limit to Exclude

Year

- 2011 (2) >
- 2010 (11) >
- 2009 (10) >
- 2008 (11) >
- 2007 (8) >

View more | View fewer

Author Name

- Fradkin, E. (56) >
- Kivelson, S.A. (2) >
- Lopez, A. (1) >
- Schaposnik, F.A. (12) >
- Kim, E.A. (9) >
- Oganesyan, V. (8) >
- Lawler, M.J. (7) >
- Dagotto, E. (6) >
- Abbamonte, P. (6) >
- Berg, E. (5) >

View more | View fewer

Subject Area

Document title Author(s) Date Source title Citations

<input type="checkbox"/> 1	Role of nematic fluctuations in the thermal melting of pair-density-wave phases in two-dimensional superconductors	Barci, D.G., Fradkin, E.	2011	Physical Review B - Condensed Matter and Materials Physics 83 (10), art. no. 100509	1
View at publisher   <a href="#">Di. cover full text</a>   Show abstract   Related documents					
<input type="checkbox"/> 2	Boundary effects on the local density of states of one-dimensional Mott insulators and charge density wave states	Schuricht, D., Essler, F.H.L., Jaefari, A., Fradkin, E.	2011	Physical Review B - Condensed Matter and Materials Physics 83 (3), art. no. 035111	1
View at publisher   <a href="#">Di. cover full text</a>   Show abstract   Related documents					
<input type="checkbox"/> 3	The effective fine-structure constant of freestanding graphene measured in graphite	Reed, J.P., Uchoa, B., Joe, Y.I., Gan, Y., Casa, D., Fradkin, E., Abbamonte, P.	2010	Science 330 (6005), pp. 805-808	6
View at publisher   <a href="#">Di. cover full text</a>   Show abstract   Related documents					
<input type="checkbox"/> 4	Charge-density wave and superconductor competition in stripe phases of high-temperature superconductors	Jaefari, A., Lal, S., Fradkin, E.	2010	Physical Review B - Condensed Matter and Materials Physics 82 (14), art. no. 144531	0
View at publisher   <a href="#">Di. cover full text</a>   Show abstract   Related documents					
<input type="checkbox"/> 5	Universal behavior of entanglement in 2D quantum critical dimer models	Hsu, B., Fradkin, E.	2010	Journal of Statistical Mechanics: Theory and Experiment 2010(9), art. no. P09004	0
View at publisher   <a href="#">Di. cover full text</a>   Show abstract   Related documents					
<input type="checkbox"/> 6	Pair-density-wave correlations in the Kondo-Heisenberg model	Berg, E., Fradkin, E., Kivelson, S.A.	2010	Physical Review Letters 105 (14), art. no. 146403	1
View at publisher   <a href="#">Di. cover full text</a>   Show abstract   Related documents					
<input type="checkbox"/> 7	Tunable gas sensing properties of p- and n-doped ZnO thin films	Kobrinisky, V., Fradkin, E., Lumelsky, V., Rothschild, A., Komem, Y., Lifshitz, Y.	2010	Sensors and Actuators, B: Chemical 148 (2), pp. 379-387	1
View at publisher   <a href="#">Di. cover full text</a>   Show abstract   Related documents					

which can also be sorted in a variety of ways

# Scopus saves up to 50 searches per session automatically

**Search history** Hide

Delete

Select:  All      Combine queries   ? 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 symmety")	0	Edit    Save    Set alert    Set feed

**Note:** This Search history will contain the latest 50 searches you perform in this session. ▲ Top of page

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

# Want to use Scopus\* from home?

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Library » Physics/Astronomy

### Physics & Astronomy Library

#### The Virtual Physics and Astronomy Library

The Physics and Astronomy Library in Loomis Lab closed on June 12, 2009.  
All library services for Physics/Astronomy are now coordinated by the Grainger Engineering Library Information Center

Please contact Mary Schlembach with any questions or comments.

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#### Indexes & Databases

##### Reference & Research Tools

- SCOPUS
- ARIBIB (Astron. & Astrophys. Abstr.)
- arXiv.org E-Print Archive
- Astrophysical Data System (ADS)
- INSPEC (Physics Abstracts: 1895 - )
- SLAC/SPIRES HEP Database
- Web of Science
- Database of Observatory Pubs
- Preprints and electronic journals

##### Full-Text Portals

- IEEE/IEE Full-Text
- AIP Scitation
- AIP Scitation User Guide(pdf)

#### Web of interests

- Major laboratories and observatories
- Current events information
- Reference data & image sources / Pathfinders

Professional Societies

- American Astronomical Society (AAS)
- American Institute of Physics (AIP)
- American Physical Society (APS)
- Astronomical Society of the Pacific (ASP)
- Institute of Physics (IOP)
- European Physical Society (EPS)

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