

Introduction to Scopus

www.scopus.com



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PHYS 596 Fall 2013
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What is Scopus? 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 a navigation bar with links for Hub, ScienceDirect, Scopus, SciTopics, and Applications. Below this is a search bar with a dropdown menu set to 'Document search'. The search input field contains the text 'superconductor AND "broken symmetry"'. Below the search bar, there are several filter sections: 'Limit to:' with options for 'Date Range (inclusive)' (set to 'Published All years to Present') and 'Document Type' (set to 'All'); 'Subject Areas' with checkboxes for 'Life Sciences (> 4,300 titles)', 'Health Sciences (> 6,800 titles. 100% Medicine coverage)', 'Physical Sciences (> 7,200 titles)', and 'Social Sciences & Humanities (> 5,300 titles)'. A 'Search' button is located at the bottom right of the search form. Below the search form is a 'Search history' section with a table that is currently empty, showing columns for 'Search', 'Results', and 'Actions'. A note at the bottom states: 'Note: This Search history will contain the latest 50 searches you perform 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 input field and a 'Search' button. The search results section shows 'Scopus: 0' and buttons for 'More...', 'Web', and 'Patents'. The search query is displayed as '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 visible. 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:

- Scopus: 112**: A red circle highlights the total number of results.
- Search within results**: A blue circle highlights the search bar within the results list.
- Refine results**: A large blue circle highlights the left sidebar, which includes filters for Year (2011-2007), Author Name (Chakravarty, S., Kivelson, S.A., Sauls, J.A., Yamamoto, S., Sudbo, A., Nayak, C., Gabovich, A.M., Ozaki, M.a., Voitenko, A.I., Linder, J.), and Subject Area.
- Go to page: 1 of 6**: A blue circle highlights the pagination controls.
- Sort by: Date (Newest)**: A blue circle highlights the sorting dropdown menu.

The main results table displays the following information:

Document title	Author(s)	Date	Source title	Citations
1 Topological defects coupling smectic modulations to intra-unit-cell nematicity in cuprates	Mesaros, A., Fujita, K., Eisaki, H., Uchida, S., Davis, J.C., Sachdev, S., Zaanen, J., (...), Kim, E.-A.	2011	Science 333 (6041), pp. 426-430	0
2 Nernst effect in the cuprate superconductor YBa2Cu 3Oy: Broken rotational and translational symmetries	Chang, J., Doiron-Leyraud, N., Laliberté, F., Daou, R., Leboeuf, D., Ramshaw, B.J., Liang, R., (...), Taillefer, L.	2011	Physical Review B - Condensed Matter and Materials Physics 84 (1), art. no. 014507	0
3 Electronic structure of the cuprate superconducting and pseudogap phases from spectroscopic imaging STM	Schmidt, A.R., Fujita, K., Kim, E.-A., Lawler, M.J., Eisaki, H., Uchida, S., Lee, D.-H., Davis, J.C.	2011	New Journal of Physics 13, art. no. 065014	0
4 Observation of topological order in a superconducting doped topological insulator	Wray, L.A., Xu, S.-Y., Xia, Y., Hor, Y.S., Qian, D., Fedorov, A.V., Lin, H., (...), Hasan, M.Z.	2010	Nature Physics 6 (11), pp. 855-859	15
5 Scattering and pairing in cuprate superconductors	Taillefer, L.	2010	Annual Review of Condensed Matter Physics 1, pp. 51-70	11
6 Particle-hole symmetry breaking in the pseudogap state of Bi2201	Hashimoto, M., He, R.-H., Tanaka, K., Testaud, J.-P., Meevasana, W., Moore, R.G., Lu, D., (...), Shen, Z.-X.	2010	Nature Physics 6 (6), pp. 414-418	26
7 Fermi-liquid behavior in an underdoped high-Tc superconductor	Sebastian, S.E., Harrison, N., Altarawneh, M.M., Liang, R., Bonn, D.A., Hardy, W.N., Lonzarich, G.G.	2010	Physical Review B - Condensed Matter and Materials Physics 81 (14), art. no. 140505	6

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 >](#)

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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 \(25\)](#)

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The quantum spin Hall effect and topological insulators

Qi, X.-L.^a, Zhang, S.-C.^b

^a Stanford Institute for Materials and Energy Science

^b 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)

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Select: Page

- 1 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

[View at publisher](#) | [DOI: cover full text](#)

- 2 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*

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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*

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

All With selected: Page

...and click on "Show Documents"

And we get Eduardo's 160 papers

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

Document results: 160 | Show all abstracts

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Limit to Exclude

Year

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

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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) >

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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
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<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
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<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
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<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
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<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
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<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
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<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
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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

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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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- AIP Scitation
- AIP Scitation User Guide(pdf)

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- Astronomical Society of the Pacific (ASP)
- Institute of Physics (IOP)
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