

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

**Largest abstract & citation database of  
international peer-reviewed literature**

- 22 000 peer-reviewed journals
- 360 trade publications
- 120 000 books (with 10 000 added/year)
- >57 million records, back to 1823
- 6.4 million conf papers from proceedings & jrnl
- 350 million scientific web pages indexed by Scirus
- 25.2 million patent records
- “Articles-in-Press” from >3850 journals

## Searching for a topic

Scopus

Search Alerts My list

Chrome 45 cease support of Scopus Document Download Manager

**Document search** | Author search | Affiliation search | Advanced search [Browse Sources](#) [Compare journals](#)

superconductivity AND "broken symmetry" Article Title, Abstract, Keywords

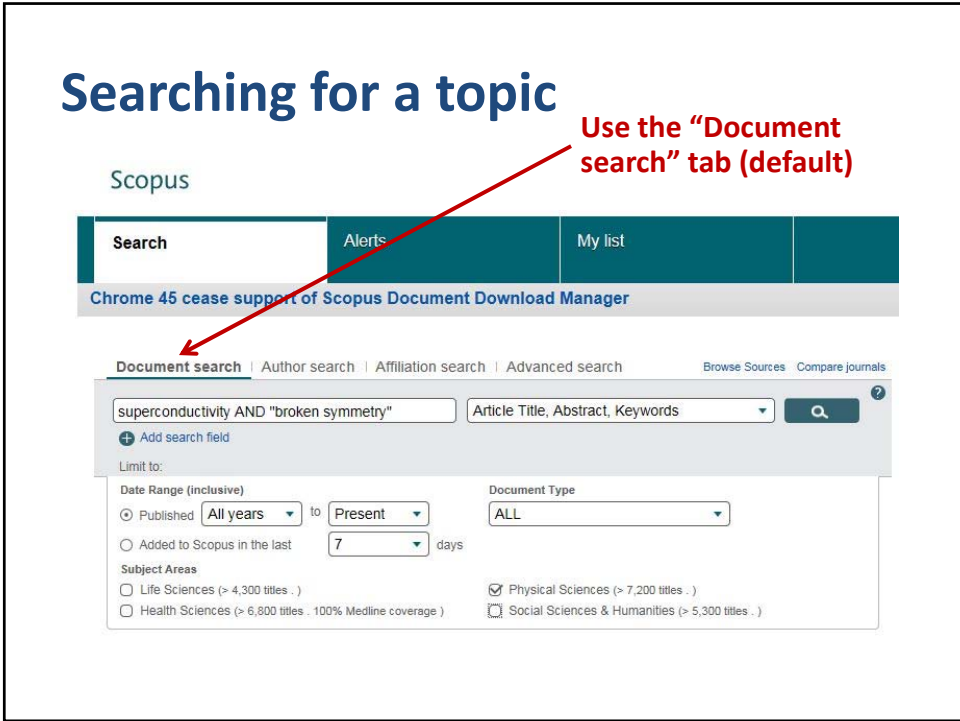
+ Add search field

Limit to:

Date Range (inclusive)  
 Published All years to Present  
 Added to Scopus in the last 7 days

Document Type  
ALL

Subject Areas  
 Life Sciences (> 4,300 titles . .)  
 Health Sciences (> 6,800 titles . . 100% Medline coverage)  
 Physical Sciences (> 7,200 titles . .)  
 Social Sciences & Humanities (> 5,300 titles . .)



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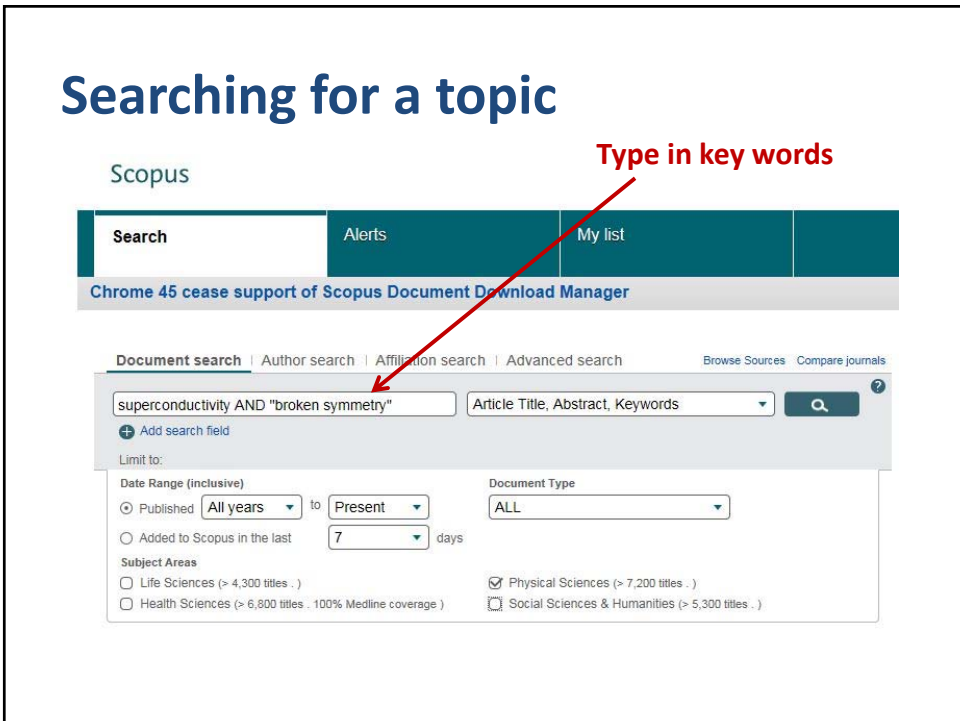
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## Searching for a topic

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

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superconductivity AND "broken symmetry" Article Title, Abstract, Keywords

+ Add search field

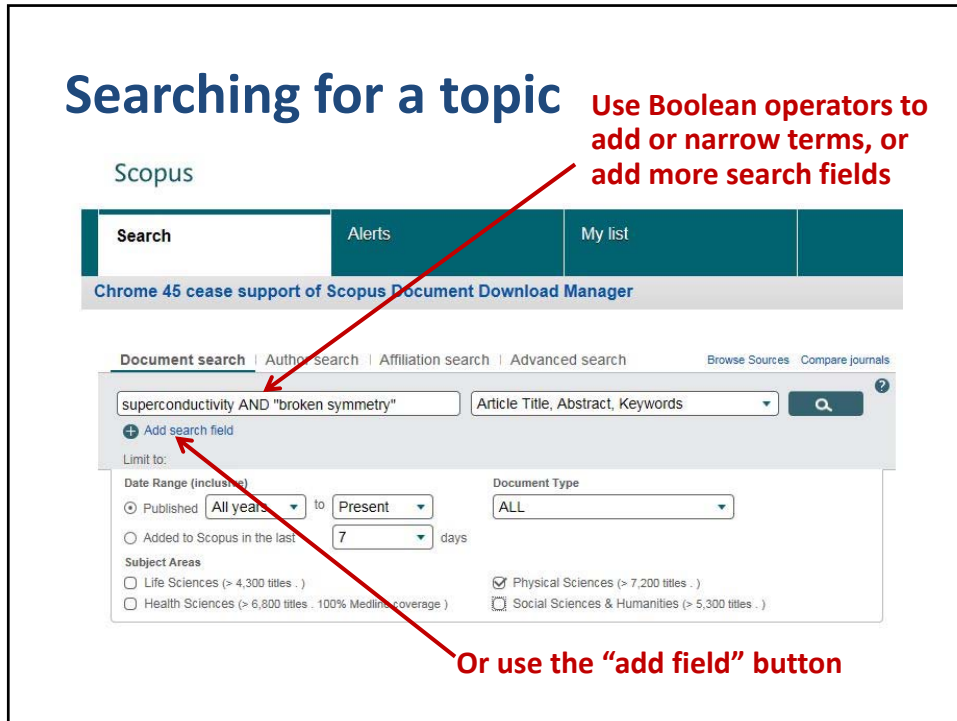
Limit to:

Date Range (inclusive)  
 Published All years to Present Document Type ALL

Added to Scopus in the last 7 days

Subject Areas  
 Life Sciences (> 4,300 titles . .)  
 Health Sciences (> 6,800 titles . . 100% Medline coverage )  
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 Social Sciences & Humanities (> 5,300 titles . .)

Or use the "add field" button



## Searching for a topic

Use quotation marks to search for exact phrases

Scopus

Search Alerts My list

Chrome 45 cease support of Scopus Document Download Manager

Document search | Author search | Affiliation search | Advanced search | Browse Sources | Compare journals

superconductivity AND "broken symmetry" Article Title, Abstract, Keywords

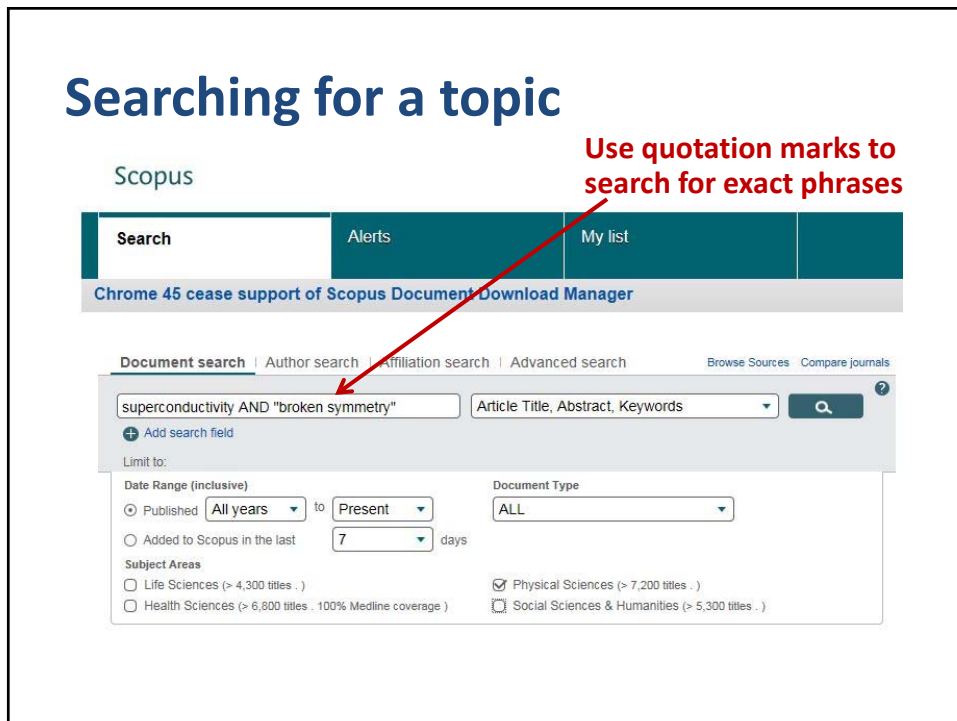
+ Add search field

Limit to:

Date Range (inclusive)  
 Published All years to Present Document Type ALL

Added to Scopus in the last 7 days

Subject Areas  
 Life Sciences (> 4,300 titles . .)  
 Health Sciences (> 6,800 titles . . 100% Medline coverage )  
 Physical Sciences (> 7,200 titles . .)  
 Social Sciences & Humanities (> 5,300 titles . .)



## Searching for a topic

Scopus

Use the drop-down menu  
to specify where to search

The screenshot shows the Scopus search interface. At the top, there are navigation tabs: Search, Alerts, and My list. Below this is a banner for "Chrome 45 cease support of Scopus Document Download Manager". The main search area includes a search bar with the text "superconductivity AND 'broken symmetry'", a dropdown menu for search location (currently set to "Article Title, Abstract, Keywords"), and a search button. Below the search bar, there are filter options under "Limit to:". The "Date Range (inclusive)" section has radio buttons for "Published" (selected) and "Added to Scopus in the last" (7 days). The "Document Type" dropdown is set to "ALL". The "Subject Areas" section has checkboxes for "Life Sciences (> 4,300 titles . .)", "Health Sciences (> 6,800 titles . . 100% Medline coverage)", "Physical Sciences (> 7,200 titles . .)", and "Social Sciences & Humanities (> 5,300 titles . .)". A red arrow points from the text "Use the drop-down menu to specify where to search" to the search location dropdown menu.

## Searching for a topic

Scopus

Specify the date range

The screenshot shows the Scopus search interface, identical to the one above. A red arrow points from the text "Specify the date range" to the "Published" radio button in the "Date Range (inclusive)" section. The search bar contains "superconductivity AND 'broken symmetry'", the search location dropdown is "Article Title, Abstract, Keywords", and the search button is present. The "Limit to:" section shows "Published" selected, "Added to Scopus in the last" set to 7 days, and "Document Type" set to "ALL". The "Subject Areas" section has checkboxes for "Life Sciences (> 4,300 titles . .)", "Health Sciences (> 6,800 titles . . 100% Medline coverage)", "Physical Sciences (> 7,200 titles . .)", and "Social Sciences & Humanities (> 5,300 titles . .)".

## Searching for a topic

Turn off irrelevant subject areas to speed up searches

The screenshot shows the Scopus search interface. At the top, there are tabs for 'Search', 'Alerts', and 'My list'. Below this is a navigation bar with 'Document search', 'Author search', 'Affiliation search', and 'Advanced search'. The search query is 'superconductivity AND "broken symmetry"'. The search results are limited to 'Published' documents from 'All years' to 'Present'. The 'Subject Areas' section is visible, with 'Physical Sciences (> 7,200 titles .)' checked and 'Life Sciences (> 4,300 titles .)', 'Health Sciences (> 6,800 titles . 100% Medline coverage)', and 'Social Sciences & Humanities (> 5,300 titles .)' unchecked. A red arrow points from the text 'Turn off irrelevant subject areas to speed up searches' to the 'Subject Areas' section.

## Results can be refined by many search parameters

The screenshot shows the Scopus search results page for the query 'superconductivity AND "broken symmetry"'. The page displays 117 document results. On the left side, there are several filter sections: 'Year' (with a dropdown for 'All years'), 'Author Name', 'Subject Area', 'Document Type', 'Source Title', and 'Keyword'. On the right side, there is a list of search results, each with a title, author, year, and journal name. A red circle highlights the 'Refine' button in the top right corner of the search results area. Another red circle highlights the 'Refine' button in the top right corner of the search results area.

# And Scopus will analyze the results in many different ways

Scopus

Search Alerts My list My Scopus

Analyze search results

117 document results

Year	Source	Author	Affiliation	Country/Territory	Document type	Subject area
2015	6					
2014	6					
2013	4					
2012	12					
2011	9					
2010	9					
2009	9					
2008	1					
2007	4					
2006	4					
2005	3					
2004	5					
2003	9					
2001	2					

Documents by year

# Click the title—abstract, link to full paper, citations, references, and related docs

Search Alerts My list My Scopus

## Symmetry of charge order in cuprates

Corbin, R. M., Subarti, R. T., He, F. T., Da Silva Neto, E. H., Chavire, L., Fiza, A., Liang, R., Hardy, W. N., Bonn, D. A., Yoshida, Y., Eisaki, H., Achkar, A. J., Hawthorn, D. O., Kerner, B., Savaschi, O. A., Damascelli, A.

Department of Physics and Astronomy, University of British Columbia, Vancouver, BC, Canada  
Quantum Matter Institute, University of British Columbia, Vancouver, BC, Canada  
Canadian Light Source, Saskatoon, SK, Canada

View additional affiliations

Abstract

Charge-ordered ground states permeate the phenomenology of 3d-based transition metal oxides, and more generally represent a distinctive hallmark of strongly correlated states of matter. The recent discovery of charge order in various cuprate families has fuelled new interest into the role played by this incipient broken symmetry within the complex phase diagram of high- $T_c$  superconductors. Here, we use resonant X-ray scattering to resolve the main characteristics of the charge-modulated state in two cuprate families: Bi<sub>2</sub>Sr<sub>2</sub>Zn<sub>2</sub>La<sub>2</sub>CuO<sub>6</sub> (B2201) and YBa<sub>2</sub>Cu<sub>3</sub>O<sub>6-y</sub> (YBCO). We detect no signatures of spatial modulations along the nodal direction in B2201, thus clarifying the inter-unit-cell momentum structure of charge order. We also resolve the intra-unit-cell symmetry of the charge-ordered state, which is revealed to be best represented by a bond order with modulated charges on the O-2p orbitals and a prominent d-wave character. These results provide insights into the origin and microscopic description of charge order in cuprates, and its interplay with superconductivity. © 2015 Macmillan Publishers Limited.

Indexed keywords

Engineering controlled terms: Ground state; Transition metal compounds; Transition metals; X-ray scattering; Yttrium barium copper oxides

Charge ordered state; Complex phase diagrams; Microscopic description; Momentum structure; Resonant X-ray scattering; Spatial modulations; States of matter; Transition-metal oxides

Engineering main heading: Copper compounds

1536:14781322 CODEN:NMAGC Source Type: Journal Original language: English  
DOI: 10.1038/nmat4295 Document Type: Article  
Publisher: Nature Publishing Group

References (50)

Yoshizawa, H., Kawano, H., Tomoki, Y., Tokura, Y.  
1 Neutron-diffraction study of the magnetic-field-induced metal-insulator transition in Pn<sub>0.7</sub>Ca<sub>0.3</sub>MnO<sub>3</sub> (1996) Physical Review B, 52 (15), pp. R13145-R13145. Cited 244 times.  
doi: 10.1103/PhysRevB.52.R13145

Tranquada, J.M., Babbey, D.J., Scharf, V.

## You can also search by author

Scopus

Search Alerts My list

Chrome 45 cease support of Scopus Document Download Manager

Document search | **Author search** | Affiliation search | Advanced search | Browse Sources | Compare journals

Fradkin E

Affiliation... e.g. University of Toronto...  Show exact matches only

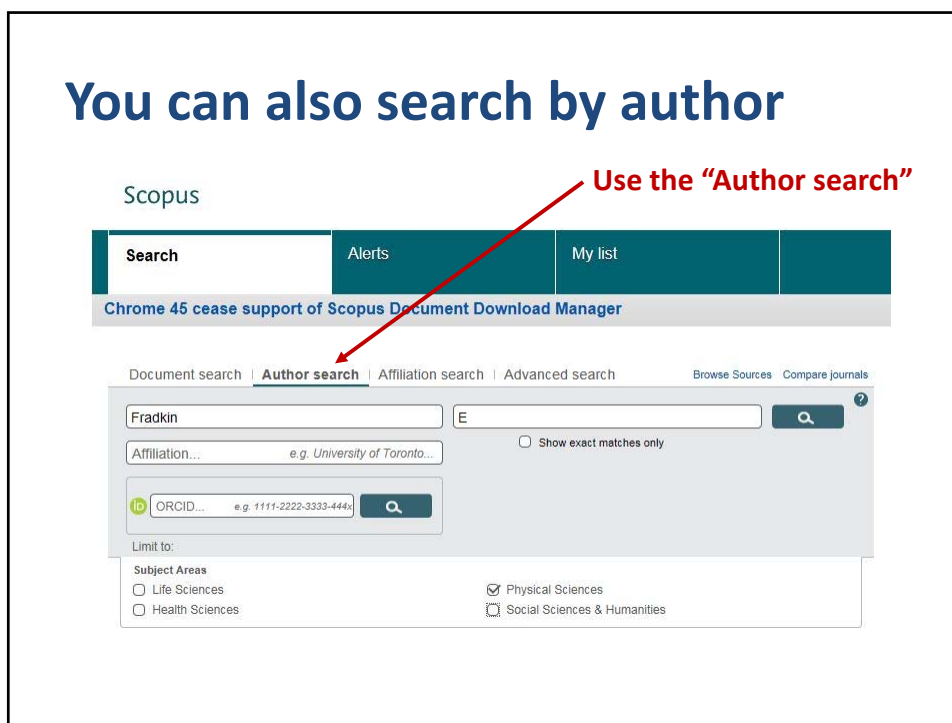
ORCID... e.g. 1111-2222-3333-4444

Limit to:

Subject Areas

Life Sciences  Physical Sciences

Health Sciences  Social Sciences & Humanities



## You can also search by author

Scopus

Search Alerts My list

Chrome 45 cease support of Scopus Document Download Manager

Document search | **Author search** | Affiliation search | Advanced search | Browse Sources | Compare journals

Fradkin E

Affiliation... e.g. University of Toronto...  Show exact matches only

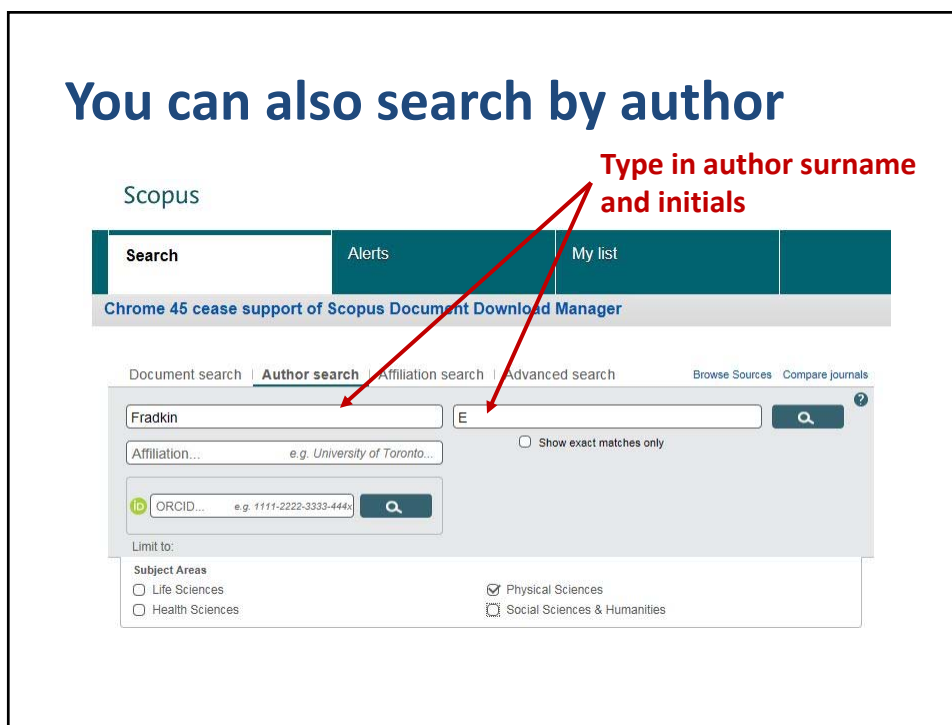
ORCID... e.g. 1111-2222-3333-4444

Limit to:

Subject Areas

Life Sciences  Physical Sciences

Health Sciences  Social Sciences & Humanities



## You can also search by author

Scopus

Turn on "exact matches"  
to narrow search

The screenshot shows the Scopus search interface. At the top, there are navigation tabs: Search, Alerts, and My list. Below this is a banner for 'Chrome 45 cease support of Scopus Document Download Manager'. The main search area has tabs for Document search, Author search, Affiliation search, and Advanced search. The Author search tab is active. The search input field contains 'Fradkin' and the 'E' field is empty. A red arrow points from the text 'Turn on "exact matches" to narrow search' to the 'Show exact matches only' checkbox, which is checked. Below the search fields are options for ORCID and subject areas: Life Sciences, Health Sciences, Physical Sciences, and Social Sciences & Humanities.

## You can also search by author

Leave "Affiliation" blank  
for more results

Scopus

The screenshot shows the Scopus search interface. At the top, there are navigation tabs: Search, Alerts, and My list. Below this is a banner for 'Chrome 45 cease support of Scopus Document Download Manager'. The main search area has tabs for Document search, Author search, Affiliation search, and Advanced search. The Author search tab is active. The search input field contains 'Fradkin' and the 'E' field is empty. A red arrow points from the text 'Leave "Affiliation" blank for more results' to the 'Affiliation...' field, which is currently blank. Below the search fields are options for ORCID and subject areas: Life Sciences, Health Sciences, Physical Sciences, and Social Sciences & Humanities.



## You can also search by author

Turn off irrelevant subject areas to speed up searches

Scopus

Search Alerts My list

Chrome 45 cease support of Scopus Document Download Manager

Document search | **Author search** | Affiliation search | Advanced search | Browse Sources | Compare journals

Fradkin E

Affiliation... e.g. University of Toronto...  Show exact matches only

ORCID... e.g. 1111-1222-3333-4444

Limit to:

Subject Areas

- Life Sciences
- Health Sciences
- Physical Sciences
- Social Sciences & Humanities

## Select the correct author...

Scopus

Search Alerts My list My Scopus

The Scopus Author Identifier assigns a unique number to groups of documents written by the same author via an algorithm that matches authoring based on a certain criteria. If a document cannot be confidently matched with an author identifier, it is grouped separately. In this case, you may see more than 1 entry for the same author.

Author last name "Fradkin", Author first name "E"

Subject Area: Physical Sciences

10 author results

Author	Documents	Subject Area	Affiliation	City	Country/Territory
<input checked="" type="checkbox"/> Fradkin, Eduardo H. 1 Fradkin, Eduardo H. Fradkin, E. Fradkin, E.	180	Physics and Astronomy; Mathematics; Mathematics, ...	University of Illinois at Urbana-Champaign	Urbana	United States
<input type="checkbox"/> Fradkin, E. S. 2 Fradkin, E. S. Fradkin, E. S.	113	Physics and Astronomy; Mathematics; Engineering, ...	P. N. Lebedev Physics Institute, Russian Academy of Sciences	Moscow	Russian Federation
<input type="checkbox"/> Fradkin, G. E. 3 Fradkin, G. E. FRADKIN, G. E.	53	Biochemistry, Genetics and Molecular Biology; Medicine; Immunology and Microbiology, ...	State Research Center - Institute of Biophysics, Ministry of Health of Russian Federation		Russian Federation
<input type="checkbox"/> Fradkin, E. E. 4 Fradkin, E. E. Fradkin, Evgen E. Fradkin, E. E.	27	Physics and Astronomy; Engineering; Chemistry, ...	Saint Petersburg State University	Saint Petersburg (St. Petersburg)	Russian Federation
<input type="checkbox"/> Fradkin, E. I. 5	12	Engineering; Earth and Planetary Sciences	ZAO Sotritel	Moscow	Russian Federation
<input type="checkbox"/> Fradkin, L. E. 6	4	Materials Science; Engineering	Donetsk Polytechnic Inst.		Russian Federation
<input type="checkbox"/> Fradkin, Evgenia Gaida 7 Fradkin, Evgenia Gaida Fradkin, E.	3	Materials Science; Engineering; Physics and Astronomy, ...	RAFAEL Arment Development Authority Ltd.	Hafia	Israel
<input type="checkbox"/> Fradkin, E. 8 Fradkin, E.	2	Physics and Astronomy	Centro Atómico Bariloche	Rio Negro	Argentina

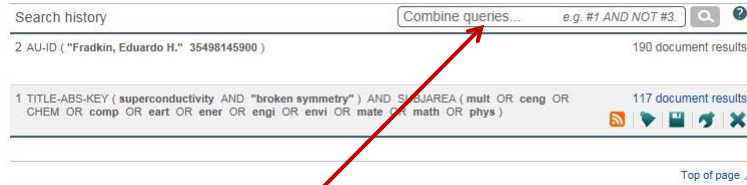
## ...and click on "Show documents"

The screenshot shows the Scopus search results for the author 'Frادkin, Eduardo H.'. The search criteria are 'Author last name "Frادkin", Author first name "E"', 'Subject Area: Physical Sciences', and 'EOR'. There are 10 author results listed. A red circle highlights the 'Show documents' button for the first author result, 'Frادkin, Eduardo H.', which has 190 documents. The interface includes navigation tabs for Search, Alerts, My list, and My Scopus, and various filters on the left side.

## And we get Eduardo's 190 papers

The screenshot displays 190 document results for 'Frادkin, Eduardo H.'. The results are sorted by 'Date' in descending order. A red arrow points to the 'Date' column header, and another red arrow points to the 'Show documents' button for the first result, 'Theory of fermi liquids: Gauging an anyone's symmetry'. The interface includes navigation tabs for Search, Alerts, My list, and My Scopus, and various filters on the left side. A red text box at the bottom states: 'which can also be sorted in a variety of ways'.

## Scopus saves up to 50 searches per session automatically



which can be combined

## Free registration gives access to additional services

The screenshot shows the Scopus registration form. At the top, there is a navigation bar with "Scopus", "SciVal", "Register", "Login", and "Help". Below this, there are three tabs: "Search", "Alerts", and "My list". The "Register" tab is selected. The registration form includes the following fields and options:

- Your details:** First name, Family name.
- E-mail and password:** E-mail address, Password.
- Other settings:**  I wish to receive information from Elsevier B.V. and its affiliates concerning their products and services.  I have read and understood the Registered user agreement and agree to be bound by all of its terms.
- Register** button.

Automatic search alerts

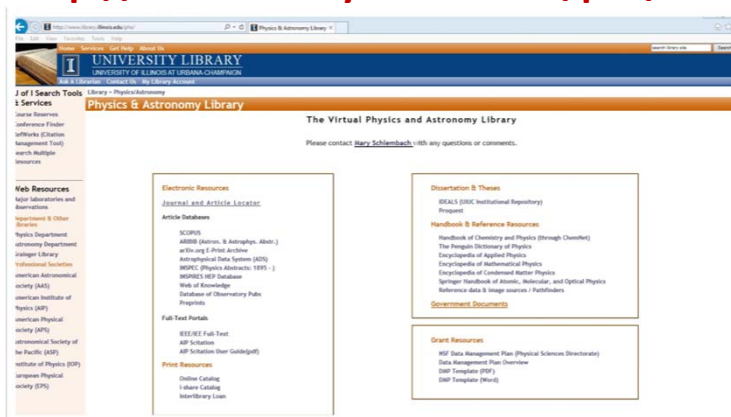
Automatic citation alerts

Saved searches

## Want to use Scopus\* from home?

Log in through the Library gateway

<http://www.library.illinois.edu/phx/>



\*or any of the Physics electronic resources



[cm Elliott@illinois.edu](mailto:cm Elliott@illinois.edu)

<http://physics.illinois.edu/people/Celia>