Basic Training 2025 for PhD students

WEB OF SCIENCE

Nagoya University Graduate School of Medicine
Medical Library

Contents

Contents

What is the WoS Core Collection?

- Contains information on articles from top journals
- Covers humanities, social sciences, and natural sciences
- Contains conference proceedings and technical books
- Citation information = bibliographic information of references and mutual links
- Entrance to JCR, EndNote basic
- No limit on the number of accesses
- Can be accessed from off-campus (THERS account/required)

Types of citation information

- Cited references
  - List of references of each article
- Citations
  - List of papers that cited each article
  - How the research were evolved.
- Related records
  - Closely related research

Comparison with PubMed

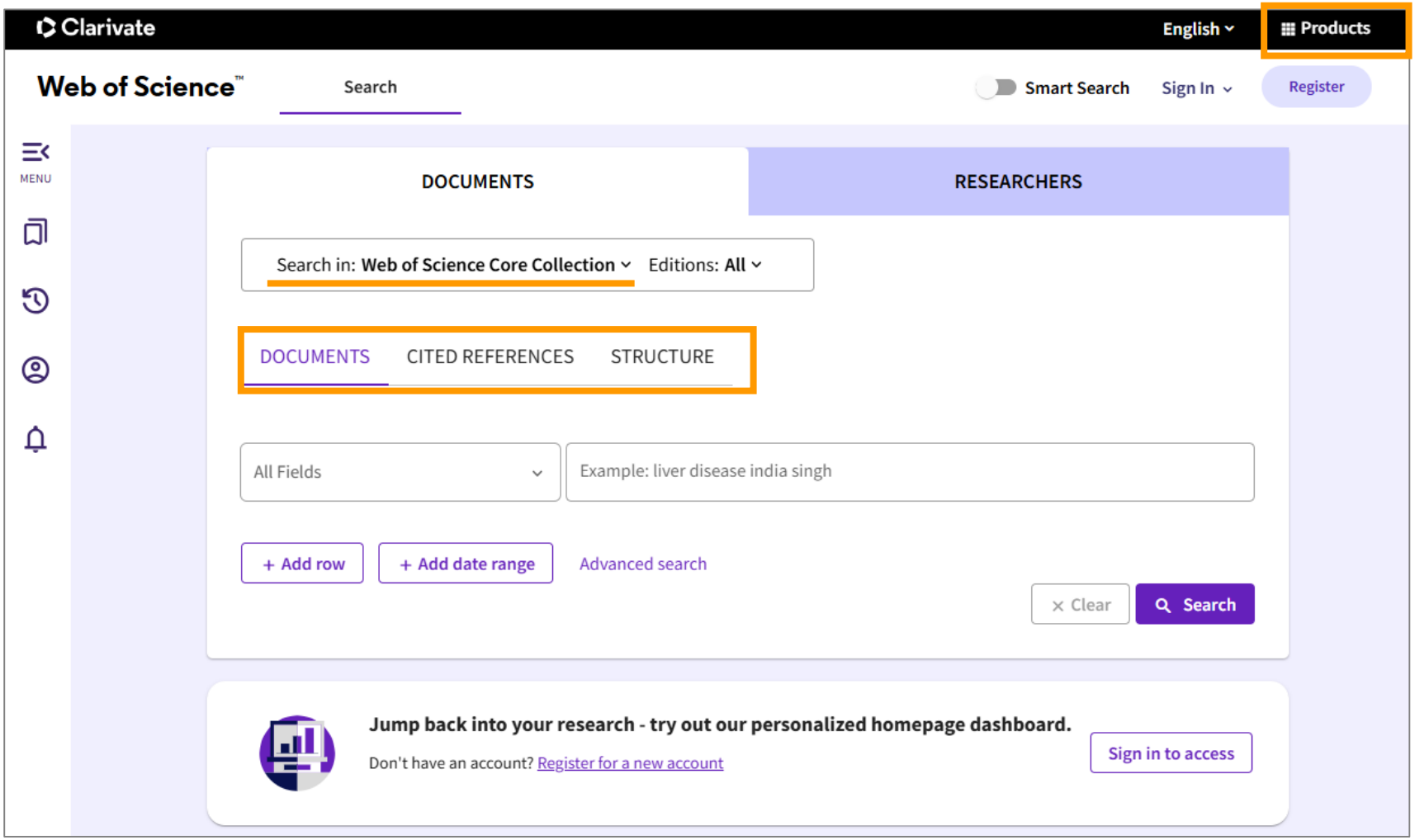
	PubMed	Web of Science
Field	Biomedical, Life sciences	All fields
Period	1946～	1900～
Number of Journals	About 5,200	About 22,000
Contents	Information on articles published in academic journals	Information on articles published in the selected top journals
Features	**Thesaurus** search and medical field-specific refinement	Search using a wealth of **citation information**

How do you use it?

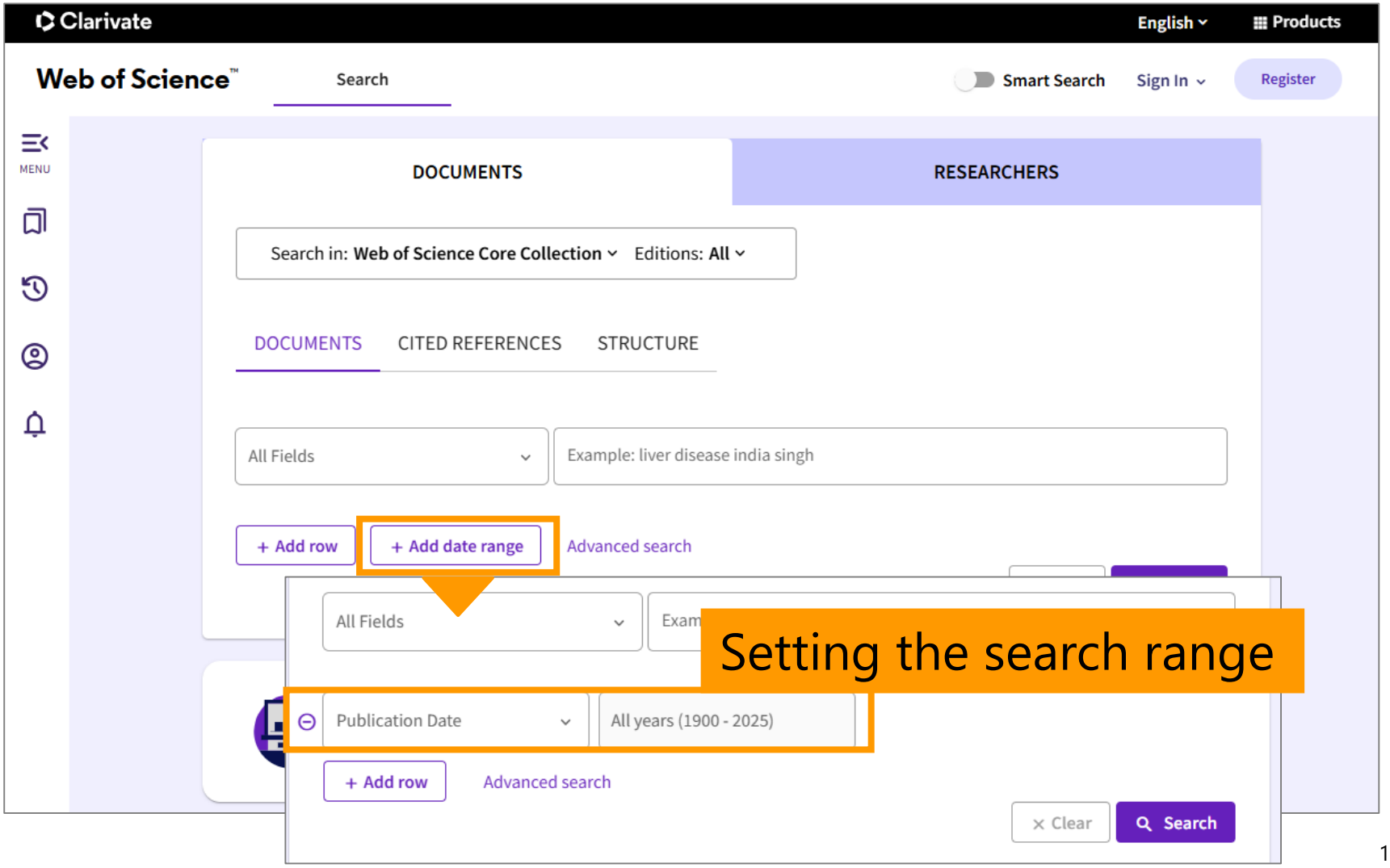
PubMed	Web of Science
✓ Search without omission ✓ Systematic search	✓ Find important references ✓ Tracking the "After" of Research ✓ Conducting interdisciplinary research

Contents

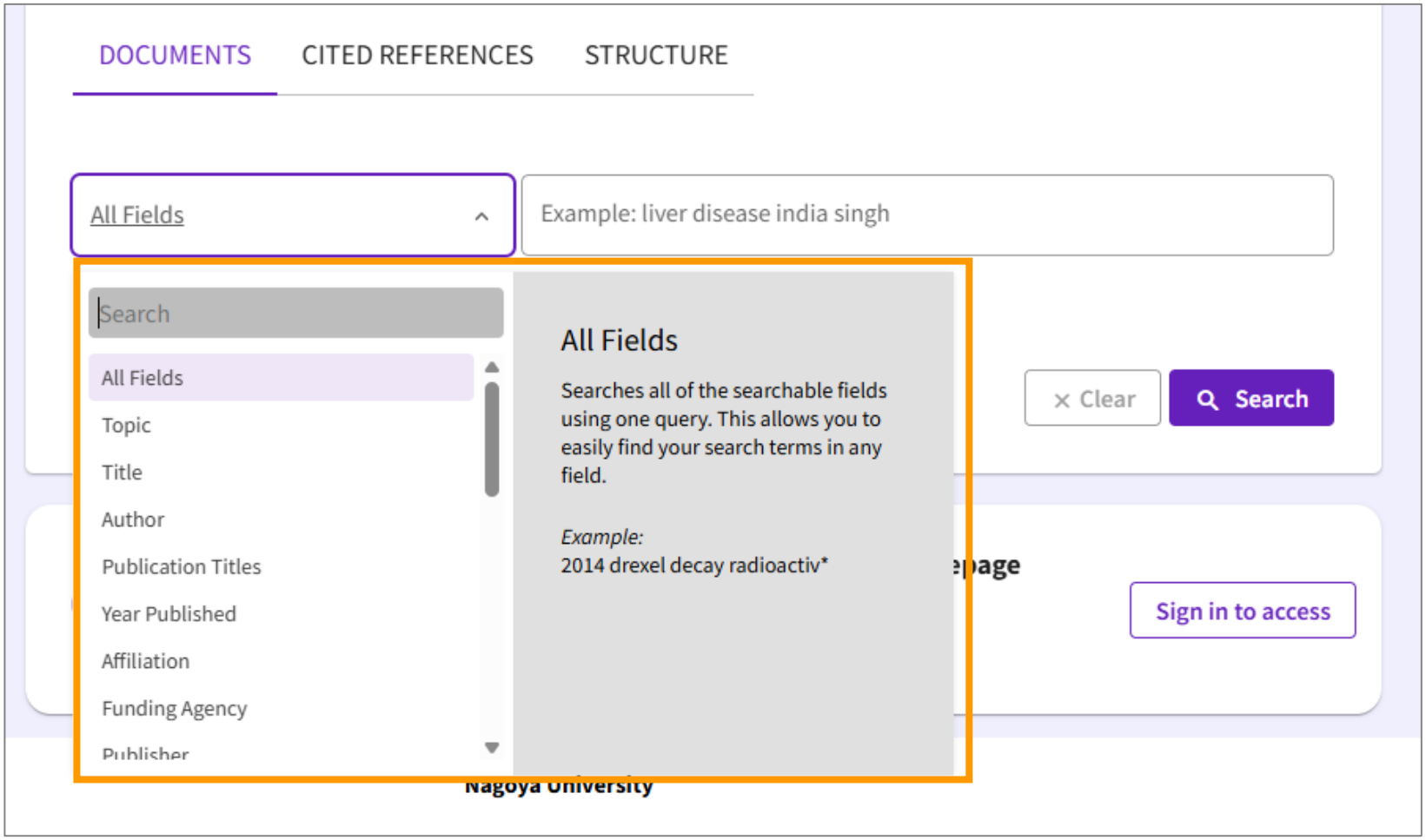
Setting search conditions



Setting search conditions



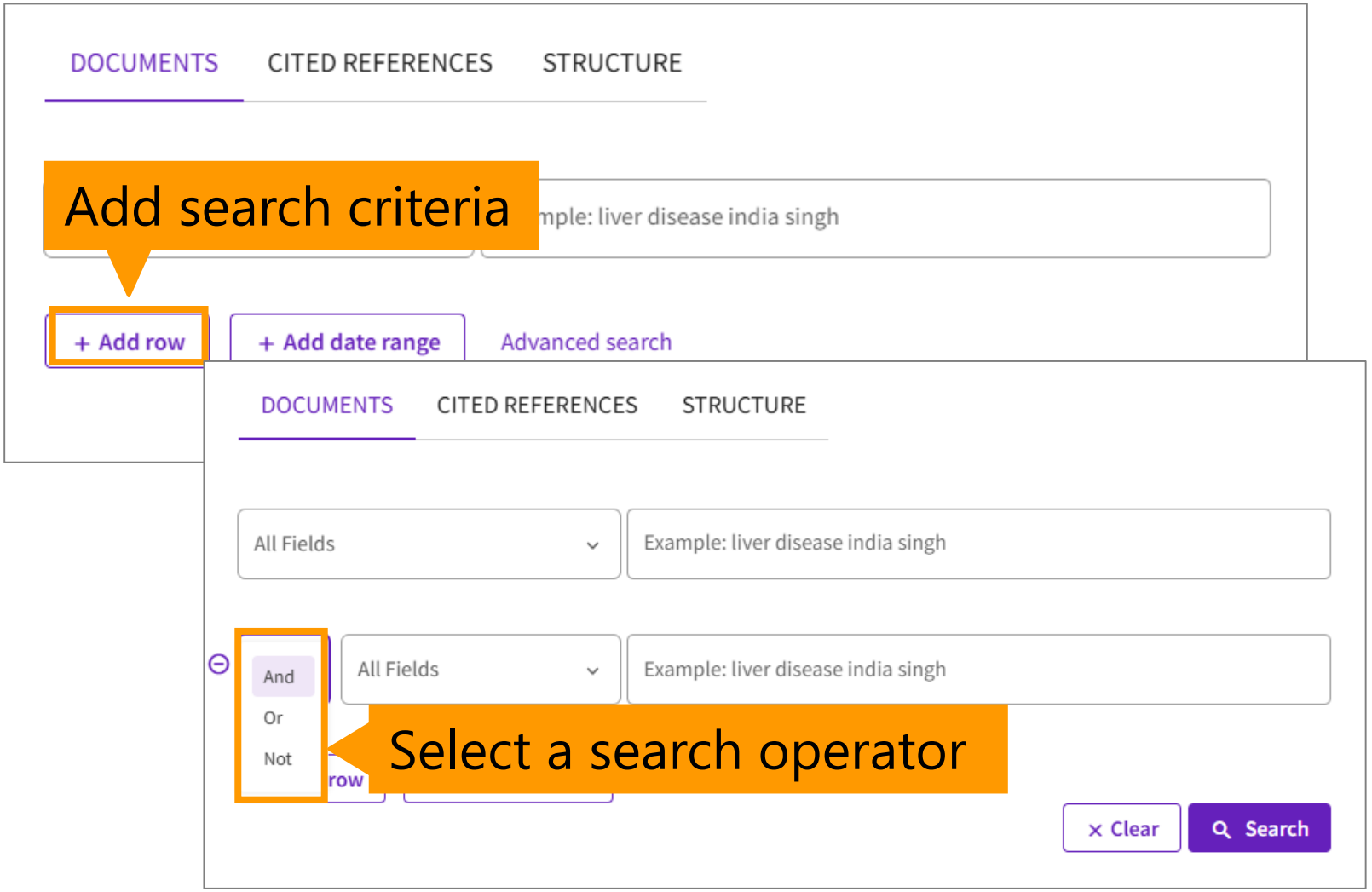
Setting search conditions



Setting search conditions

	Examples
Topic	Title, abstract, author keywords, and Keywords Plus.
Author	Authors and Group Author.
Publication Titles	Journal titles, book titles, proceefings titles, and more.
Affiliation	Organization names and/or their name variants.
DOI/PubMed ID	Specific article.

Setting search conditions



Points to search

- There is no thesaurus.
  - Automatic processing of conjugations and spelling variations *Topic, title only
  - Use synonyms
- Search operators
  - Add synonyms with OR
  - Exclude unnecessary words with NOT

For more information, click the "Help" button.

Points to search

- To search for an exact phrase, enclose the phrase **in quotation marks** *Topic, title only
  - **“prenatal exposure”**→ prenatal alcohol exposure is not a hit

- Use wildcards
  - Automatic processing of conjugations is disabled for phrase search.
  - Add an **asterisk (*)** before, during, or after the search term.

Wildcard Characters (Truncation)

Symbol	Retrieves	Examples	
*	Zero or more characters	prenatal*	• prenatal**ly**
		*natal	• **neo**natal • **peri**natal
		p*natal	• p**re**natal • p**eri**natal
?	One character only	organi?ation	• organi**z**ation • organi**s**ation
$	Zero or one character	“model$ing”	• modeling • model**l**ing

Author Search / Publication Titles Search

- Author
  - **Enter the last name first followed by a space and the author's initials*.**
  - ex） chitwood　w*
  - If necessary, add the name of the author's organization
- Publication Titles
  - Enter the full title or an abbreviation and add * at the end.
  - ex) cancer research　or　can* res*
  - You can select from the index.

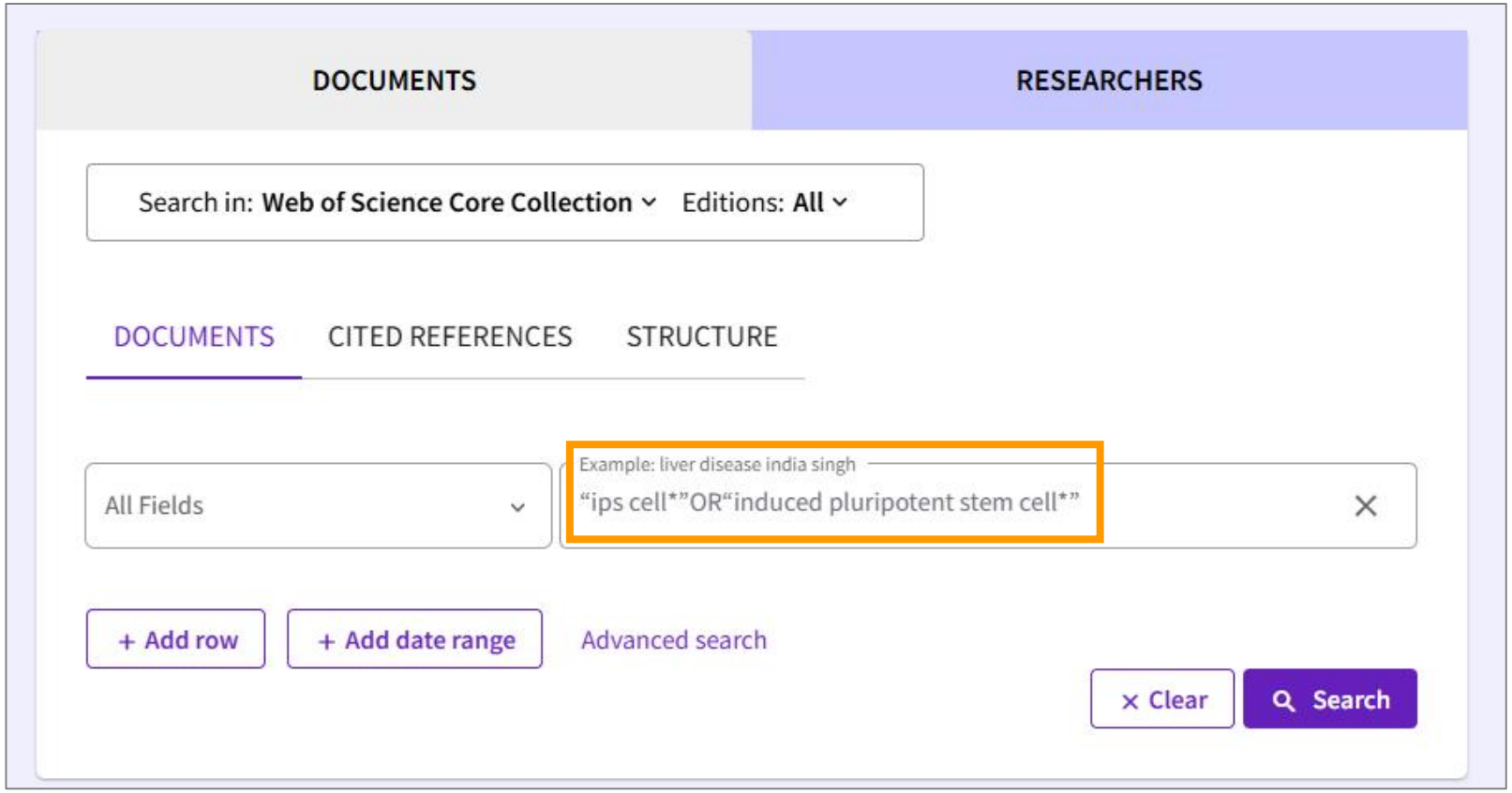
Search example

Try to find research articles on iPS cells.

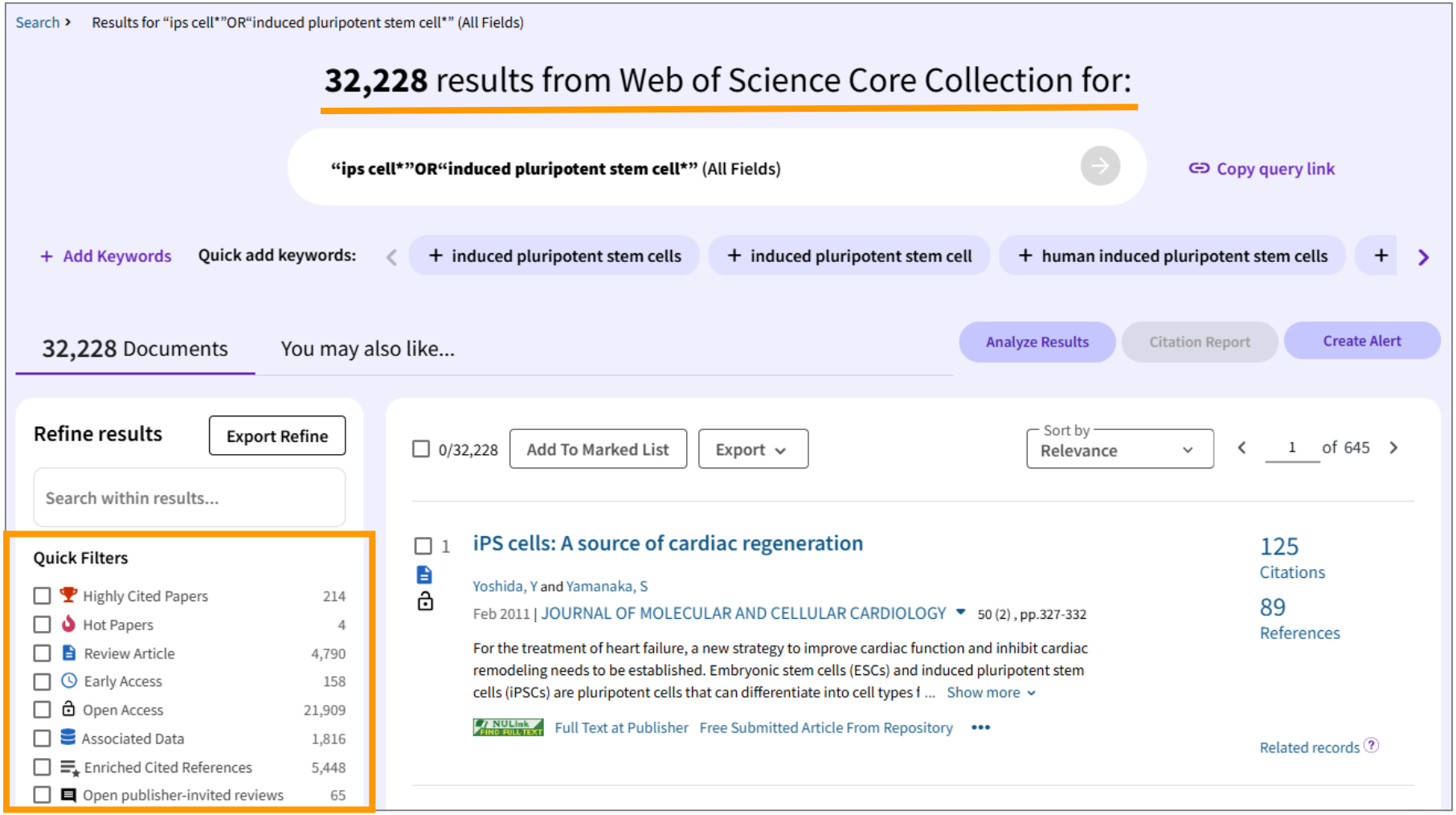
- Set the search field to **"topic"**
- iPS cell = induced pluripotent stem cell
- Specify the **exact phrases**
- To search for both “ips cell" and “ips cells", add an **asterisk (*)** at the end
- Connecting phrases with the search operator (**OR**)

“ips cell*”OR“induced pluripotent stem cell*”

Results


DOCUMENTS
RESEARCHERS
Search in: Web of Science Core Collection
Editions: All
DOCUMENTS
CITED REFERENCES
STRUCTURE
All Fields
Example: liver disease india singh
“ips cell*”OR“induced pluripotent stem cell*”
+ Add row
+ Add date range
Advanced search
× Clear
Search

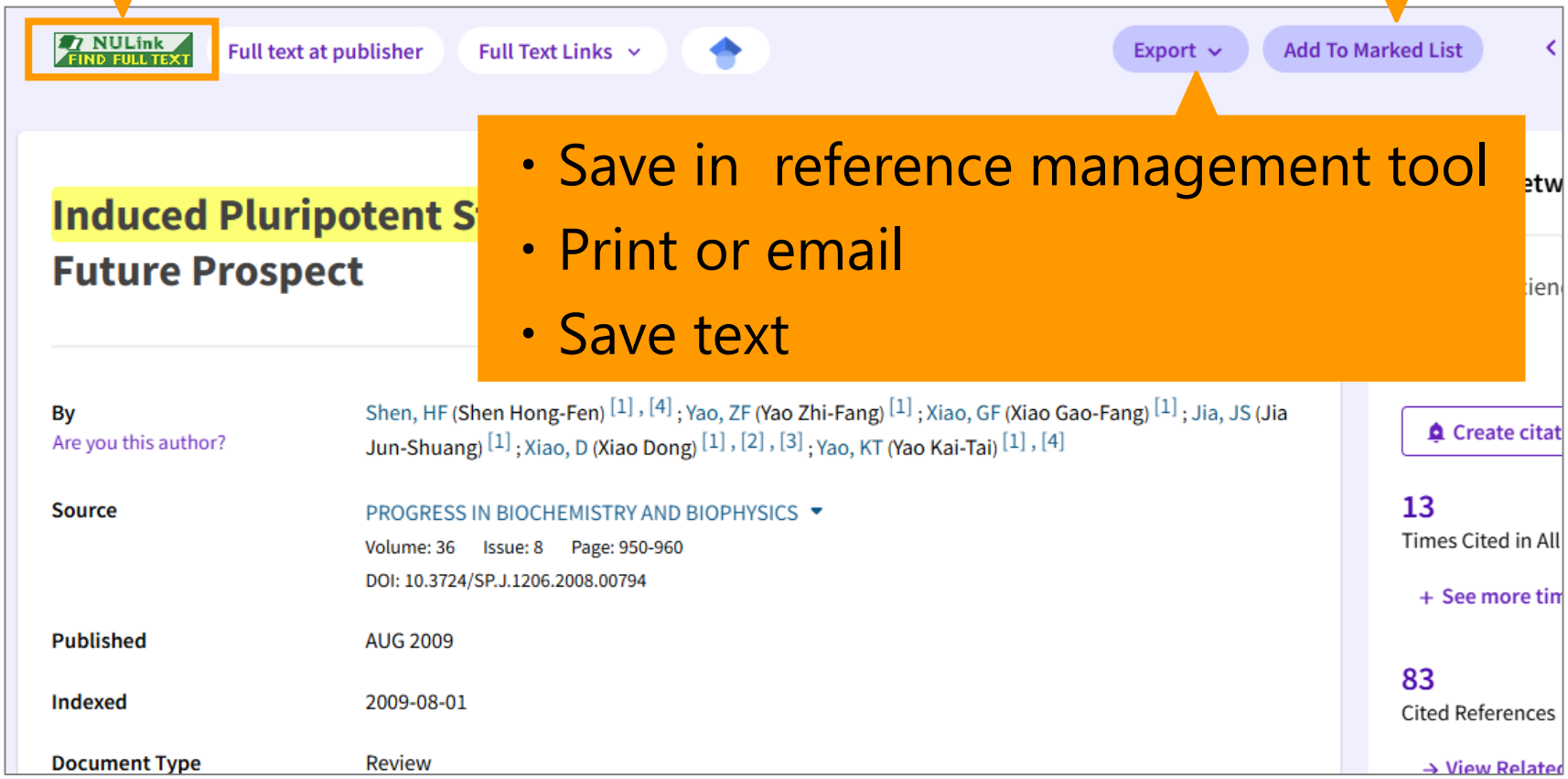
Results


Search › Results for “ips cell*”OR“induced pluripotent stem cell*” (All Fields)
32,228 results from Web of Science Core Collection for:
“ips cell*”OR“induced pluripotent stem cell*” (All Fields)
Copy query link
+ Add Keywords
Quick add keywords:
+ induced pluripotent stem cells
+ induced pluripotent stem cell
+ human induced pluripotent stem cells
32,228 Documents
You may also like...
Analyze Results
Citation Report
Create Alert
Refine results
Export Refine
Search within results...
Quick Filters
Highly Cited Papers 214
Hot Papers 4
Review Article 4,790
Early Access 158
Open Access 21,909
Associated Data 1,816
Enriched Cited References 5,448
Open publisher-invited reviews 65
0/32,228
Add To Marked List
Export
Sort by
Relevance
1 of 645
1 iPS cells: A source of cardiac regeneration
Yoshida, Y and Yamanaka, S
Feb 2011 | JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY 50 (2) , pp.327-332
For the treatment of heart failure, a new strategy to improve cardiac function and inhibit cardiac remodeling needs to be established. Embryonic stem cells (ESCs) and induced pluripotent stem cells (iPSCs) are pluripotent cells that can differentiate into cell types f ... Show more
Full Text at Publisher
Free Submitted Article From Repository
125 Citations
89 References
Related records

Results

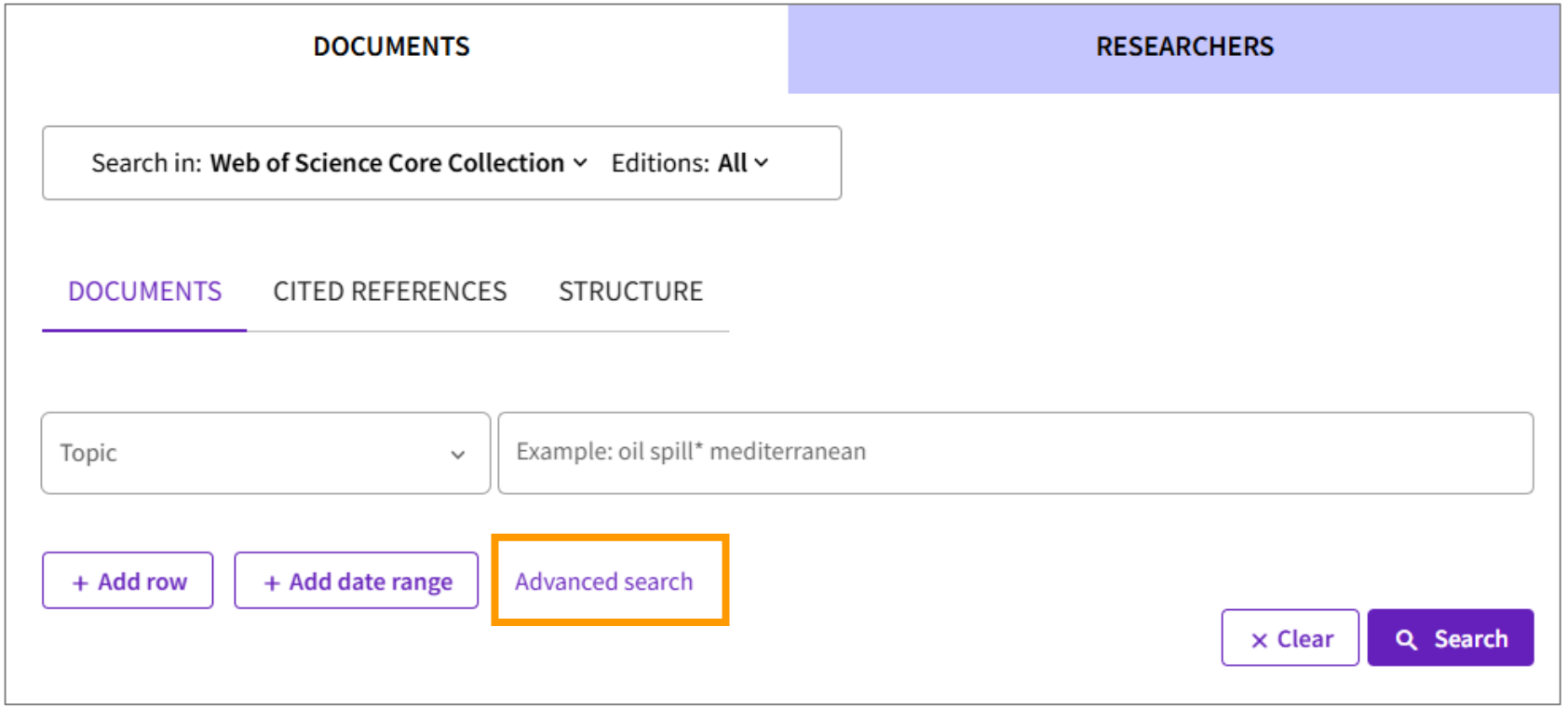
Get the full text

Click to add to your Marked List

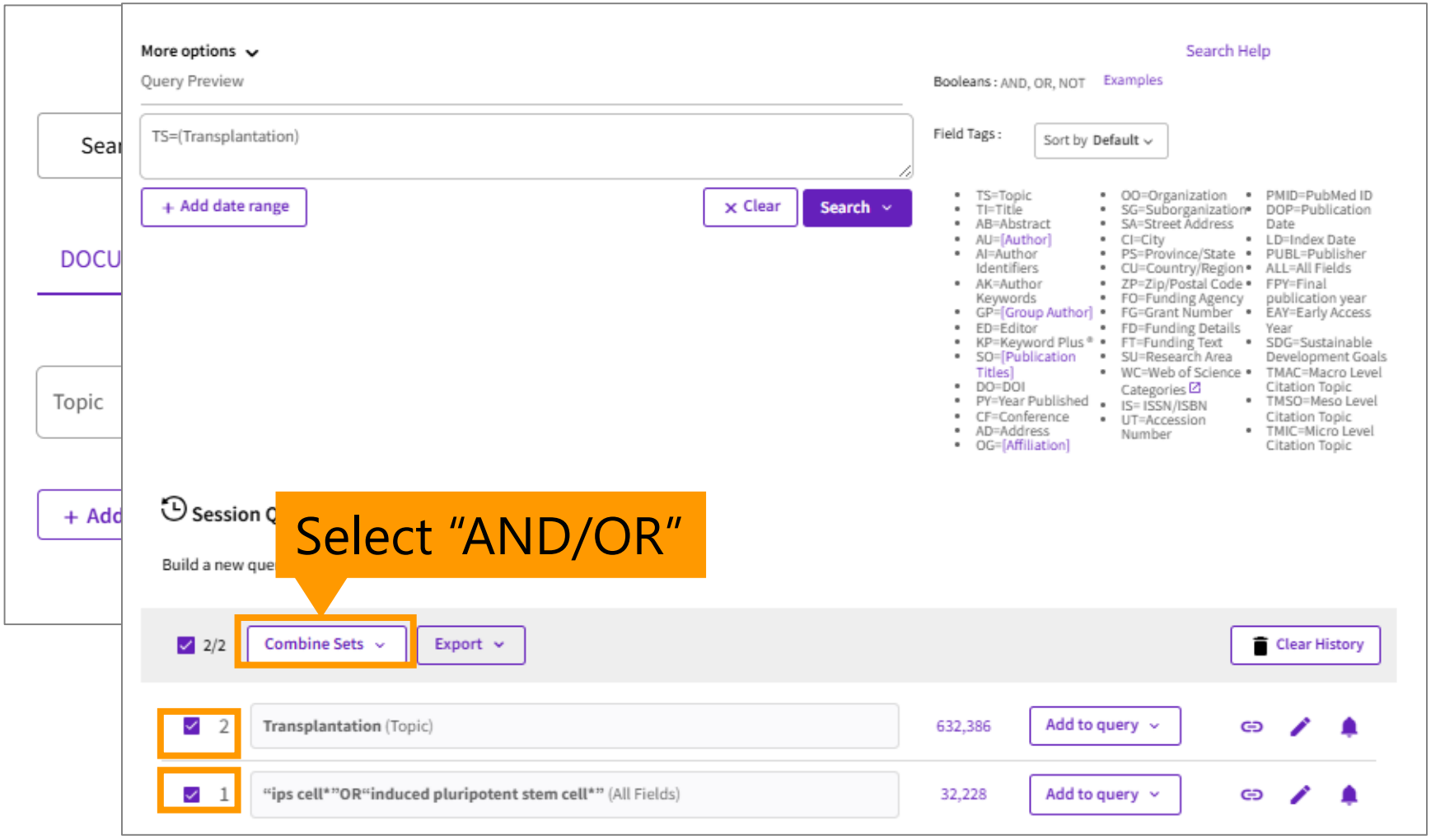


- Save in reference management tool
- Print or email
- Save text

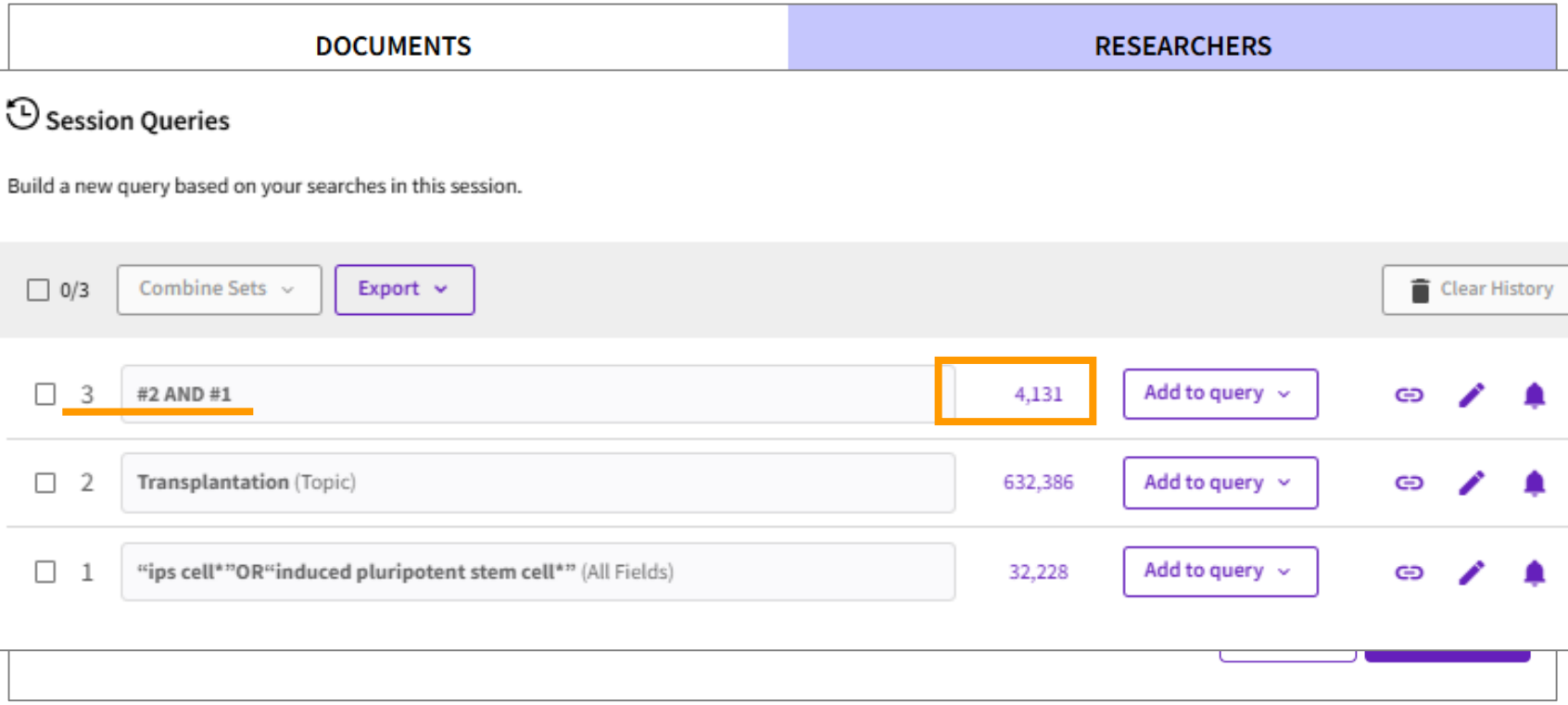
Advanced Search Query Builder



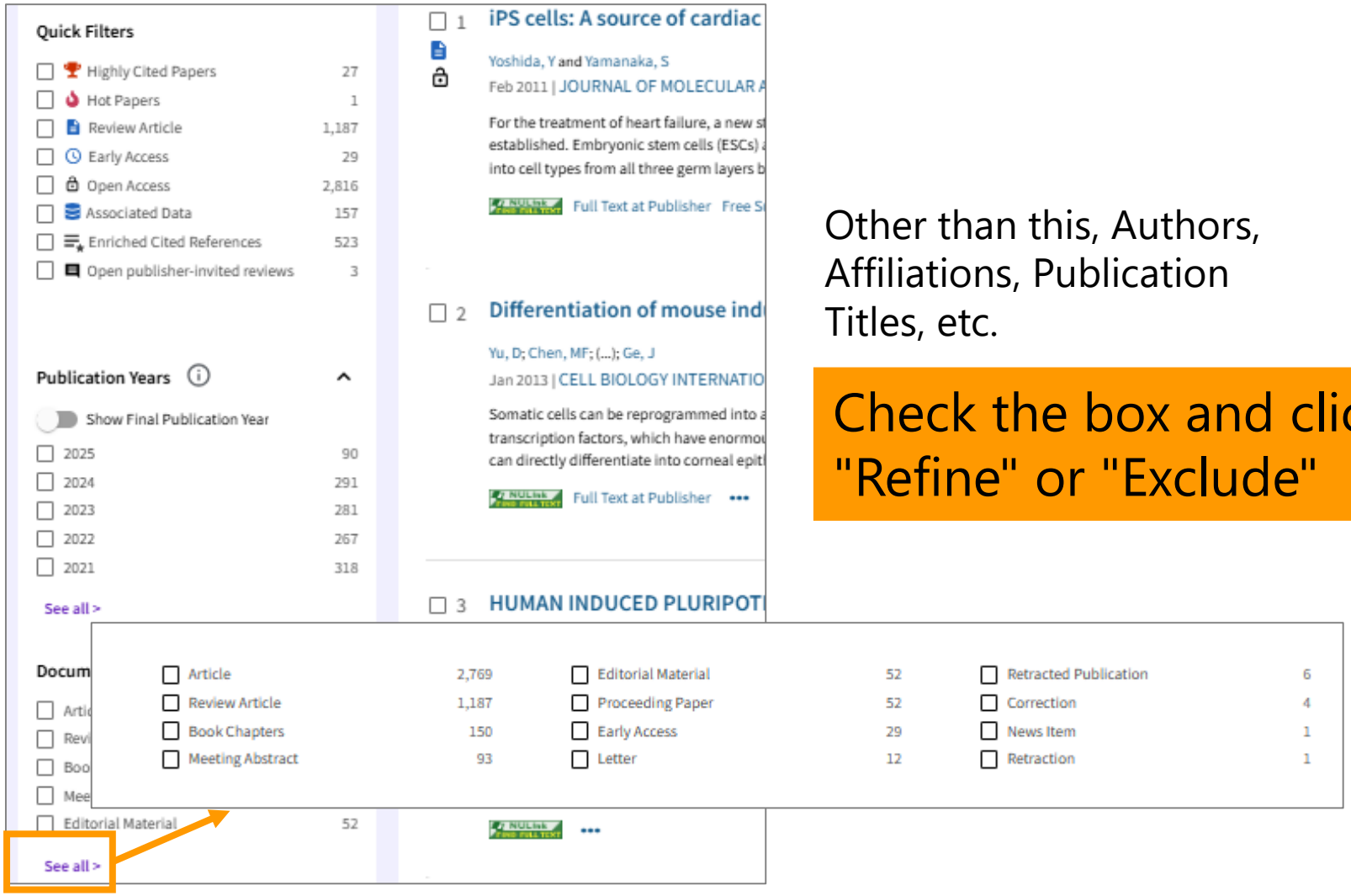
Advanced Search Query Builder



Advanced Search Query Builder



Quick Filters

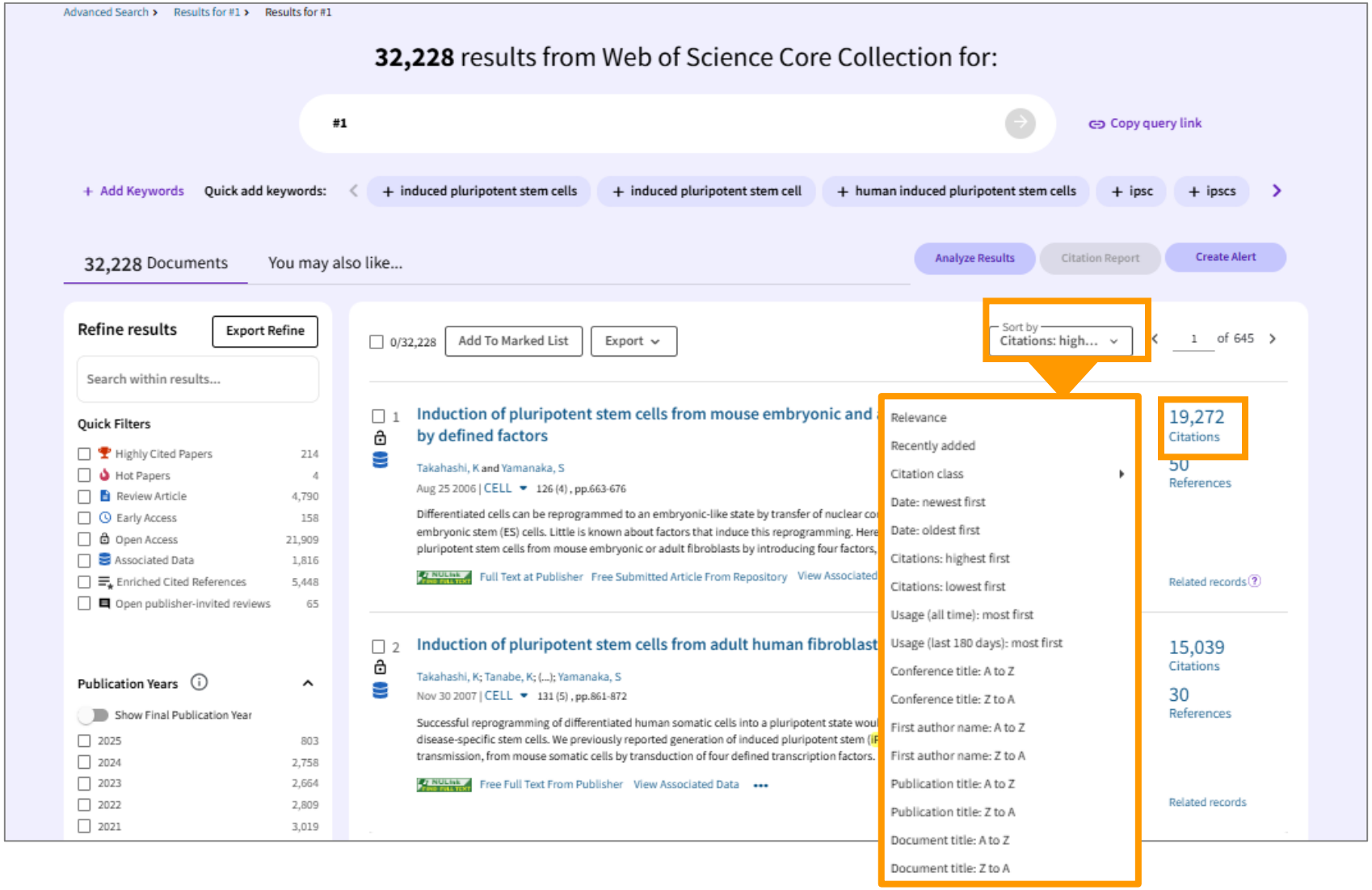


Other than this, Authors, Affiliations, Publication Titles, etc.

Check the box and click "Refine" or "Exclude"

Contents

Find important articles



Find important articles

https://www.nagoya-u.ac.jp/info/winner/20241120_news.html

クラリベイト・アナリティクスの Highly Cited Researchers に本学から3名が選ばれました

公開日：2024年11月20日

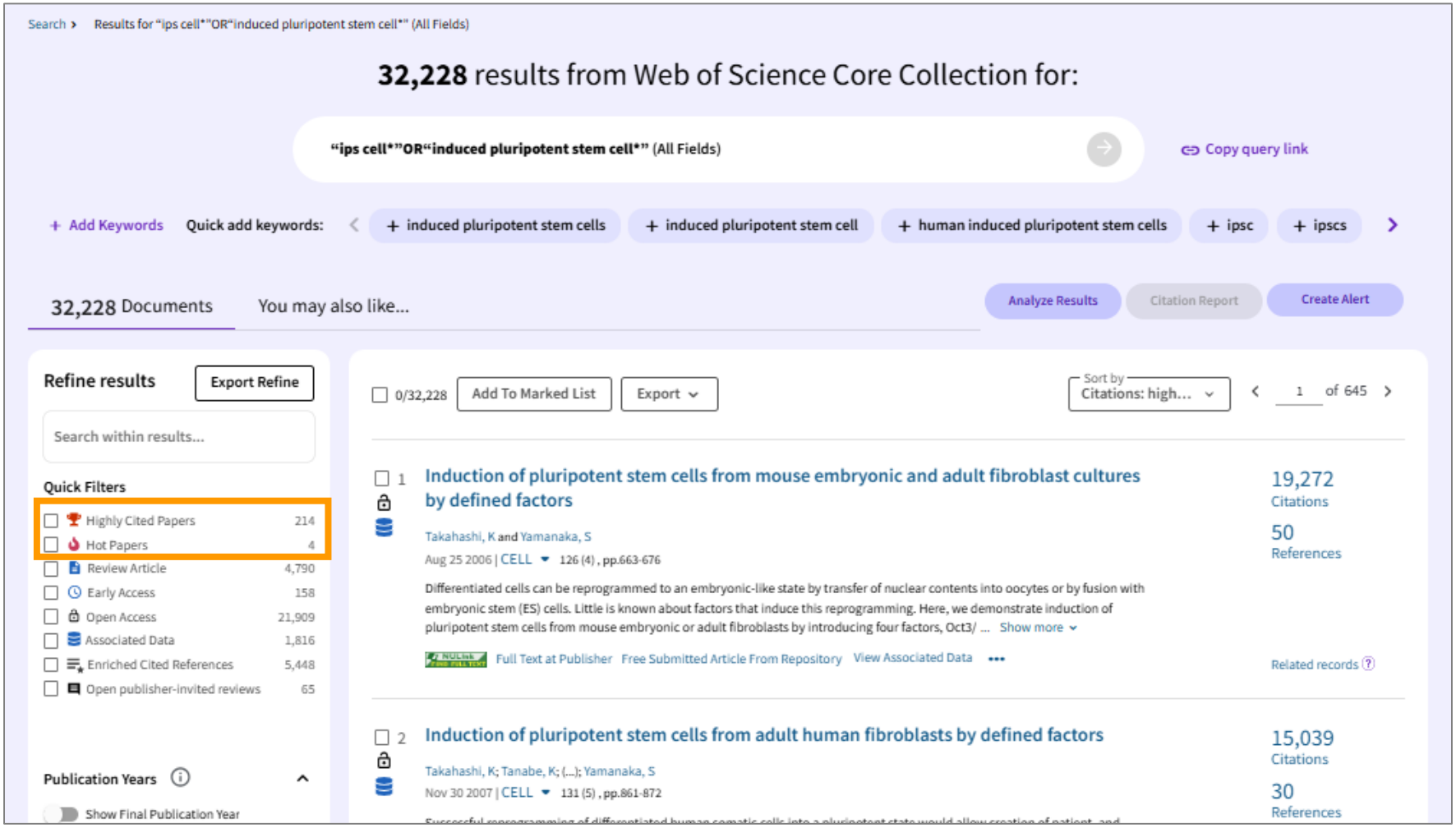
受賞者情報

Highly Cited Researchers は、クラリベイト・アナリティクスが世界中で引用された回数の多い論文の著者（高被引用論文著者）を研究分野ごとに選出したものです。2024年は、約60か国20分野で約6,600名の研究者が、世界的に最も影響のある研究を行っている研究者としてリストアップされています。

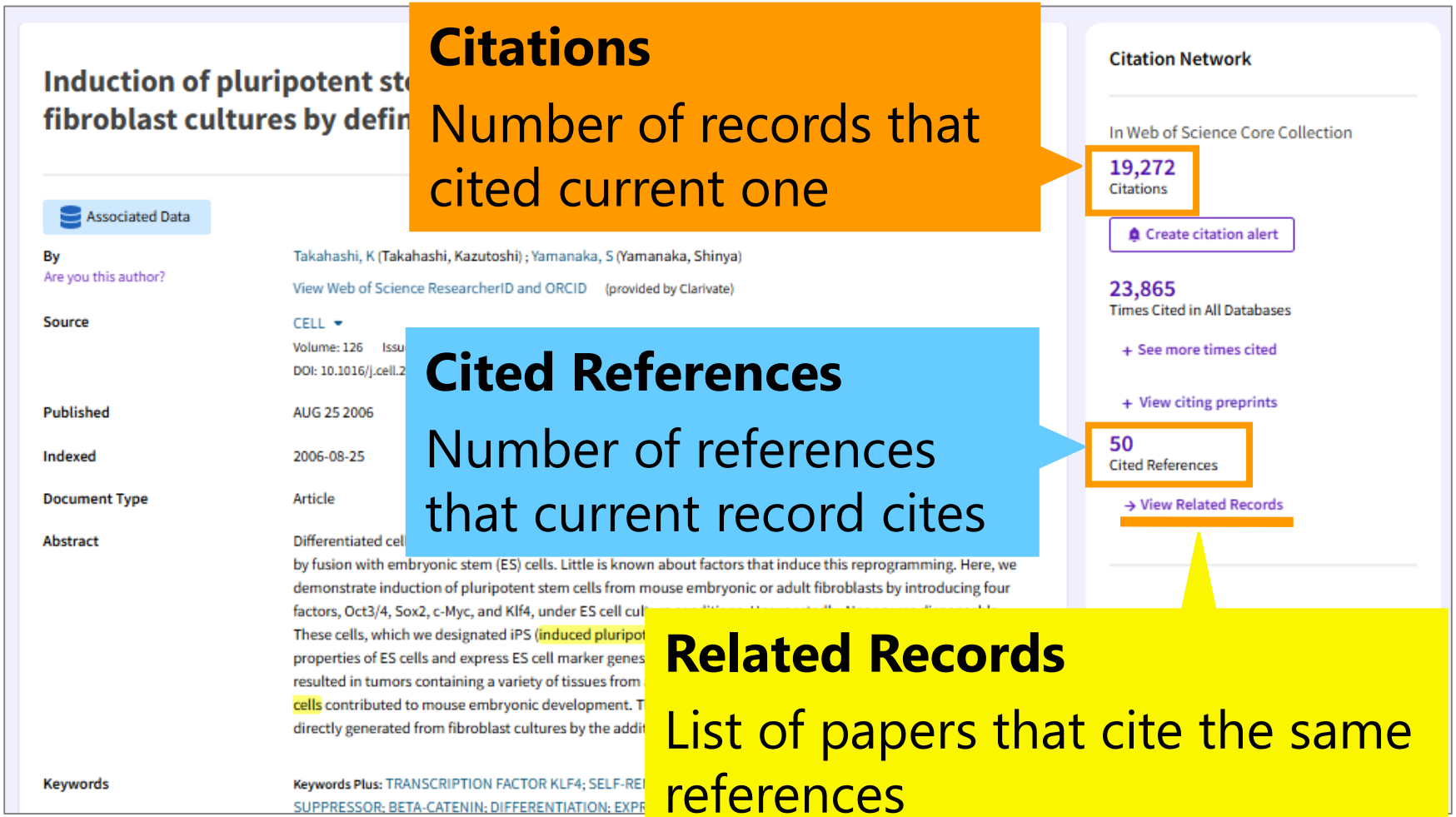
本学からは、以下の3名が選ばれました。

Plant＆Animal Science（植物・動物学） **木下　俊則（Toshinori　Kinoshita）**	トランスフォーマティブ生命分子研究所 教授
Immunology（免疫学） **西川　博嘉（Hiroyoshi　Nishikawa）**	医学系研究科 教授
Plant＆Animal Science（植物・動物学） **榊原　均（Hitoshi　Sakakibara）**	生命農学研究科 教授

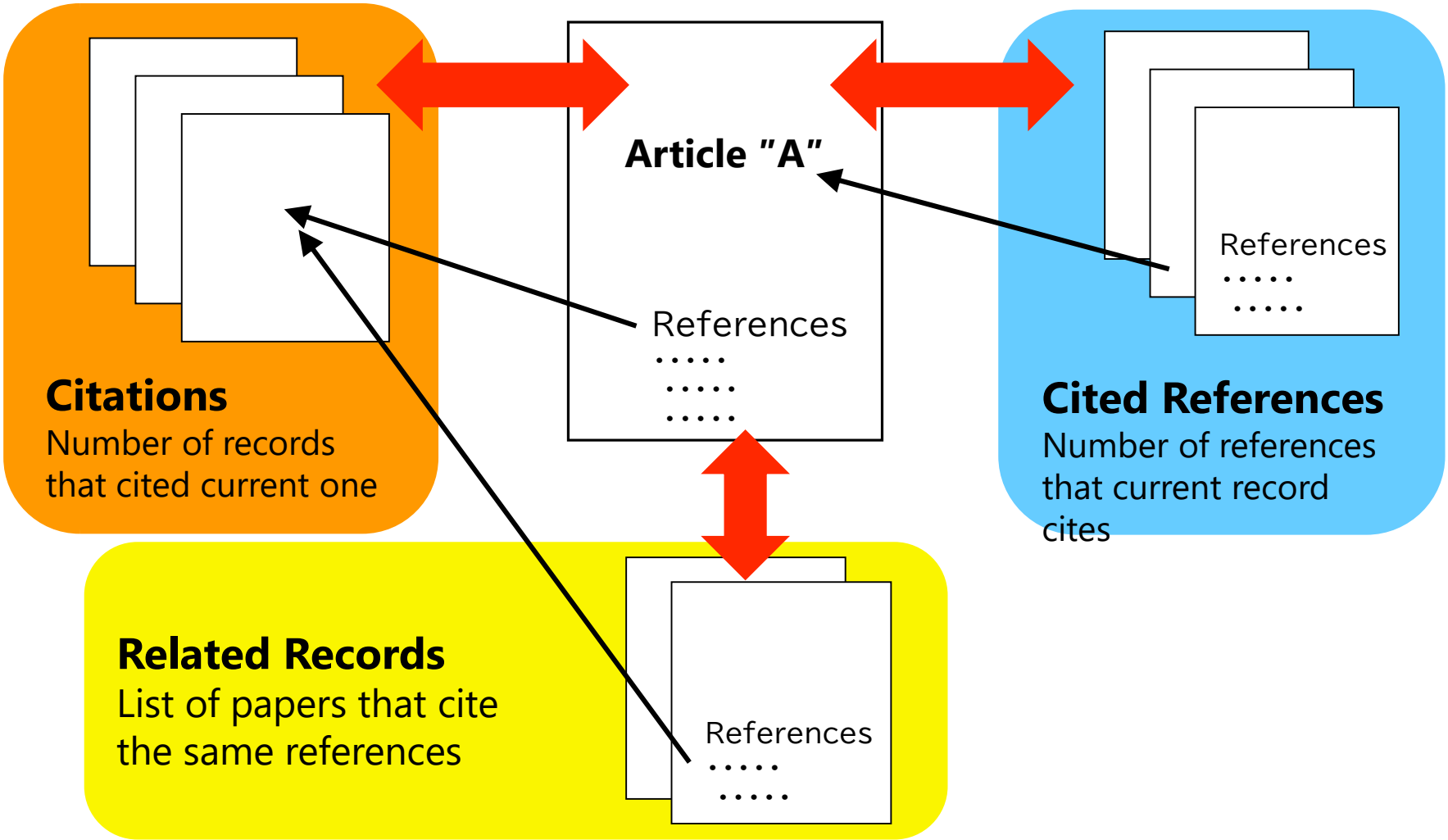
Highly Cited Papers & Hot Papers



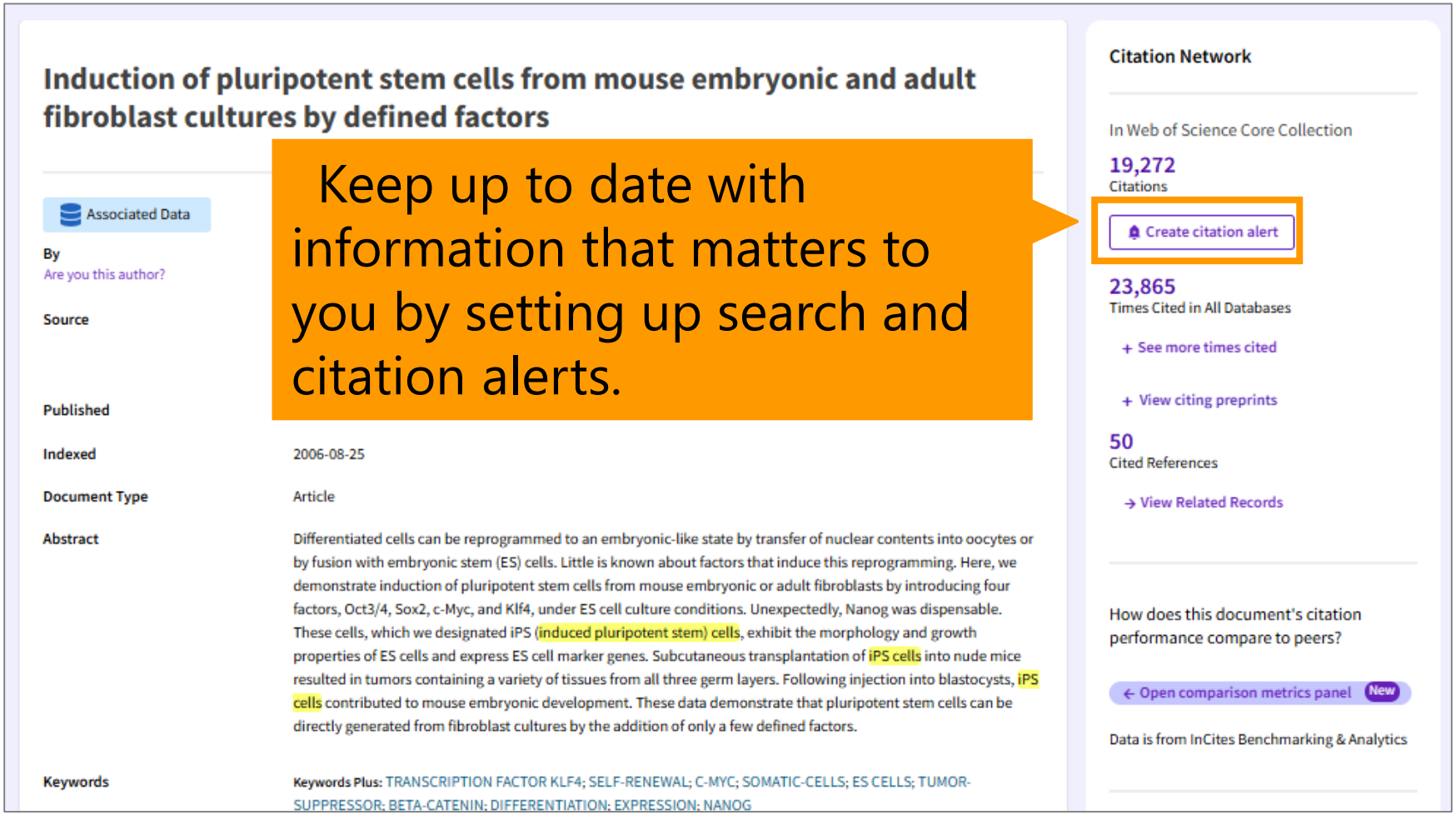
Find important articles



Understand the research process

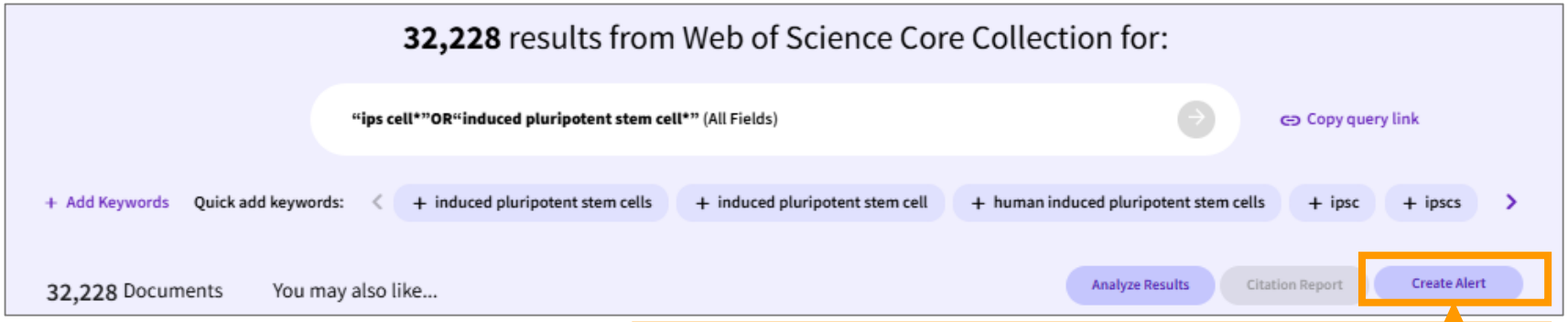


Monitor the latest research



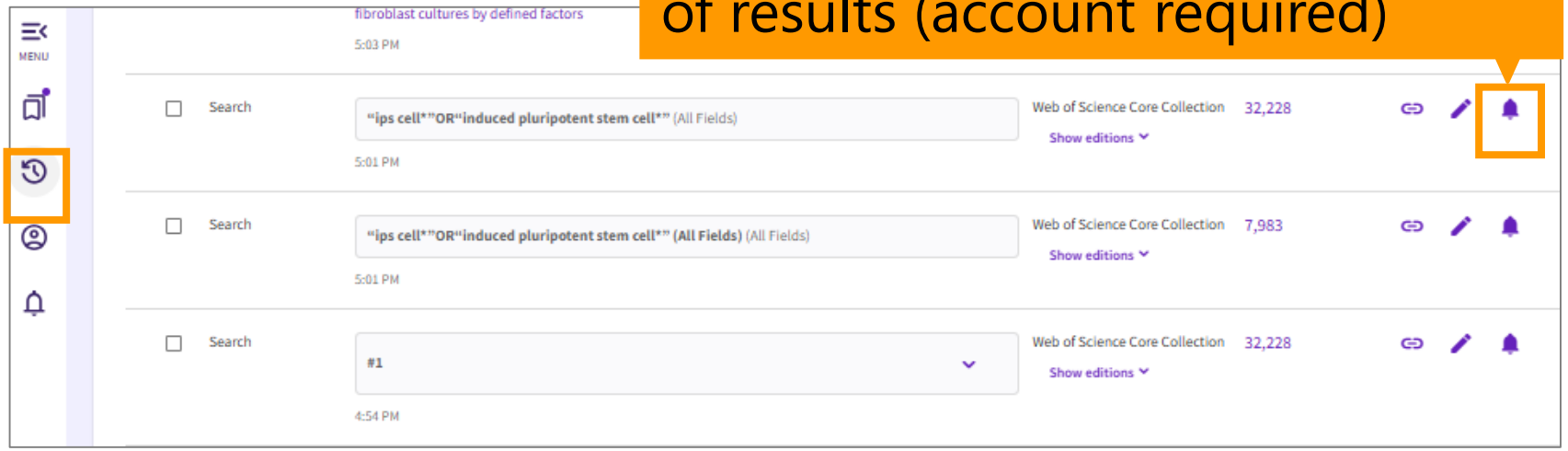
Monitor the latest research

Search result ↓

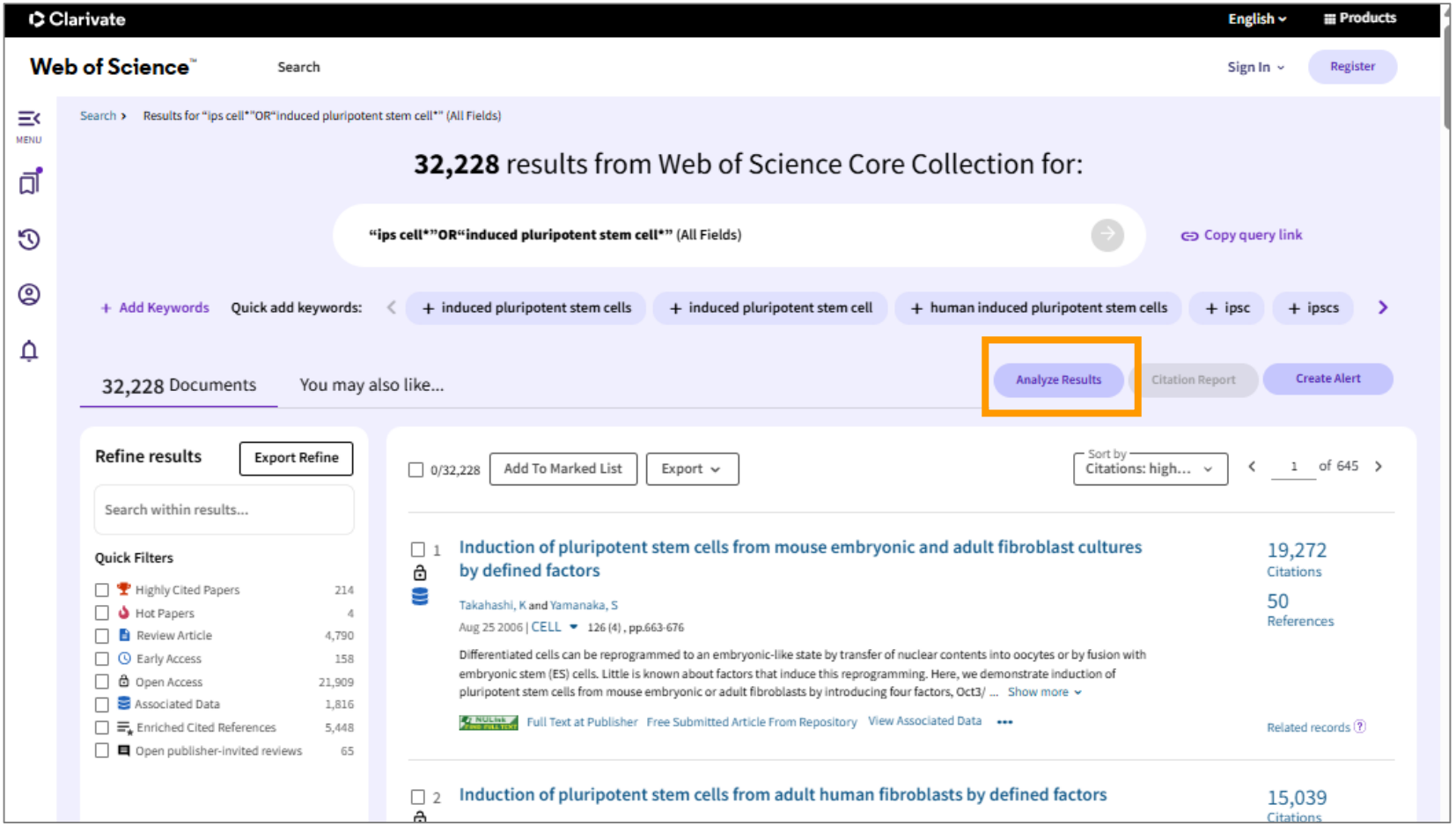


"History"↓

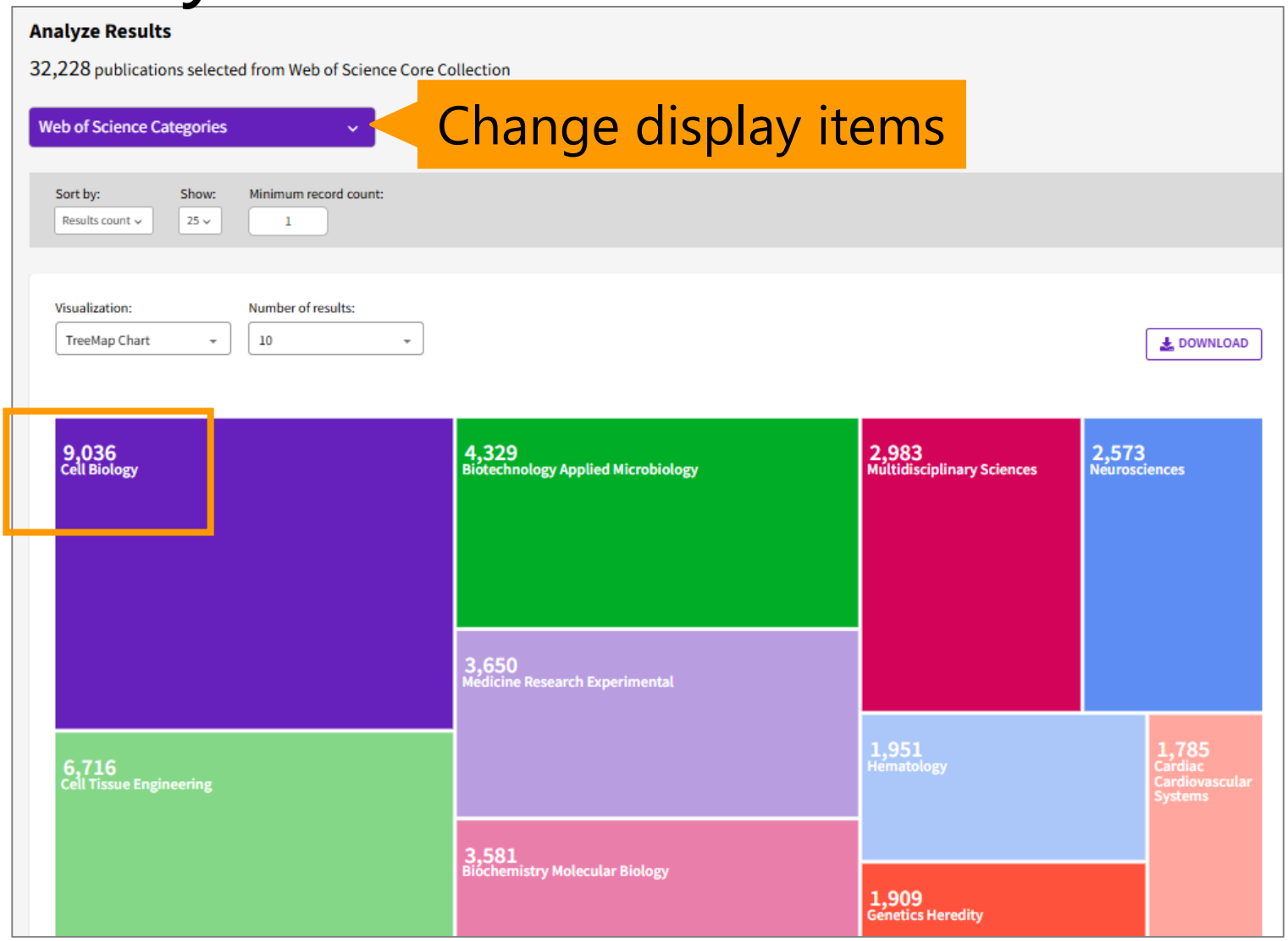
Automatic search and notification of results (account required)



Analyze research trends



Analyze research trends



Contents

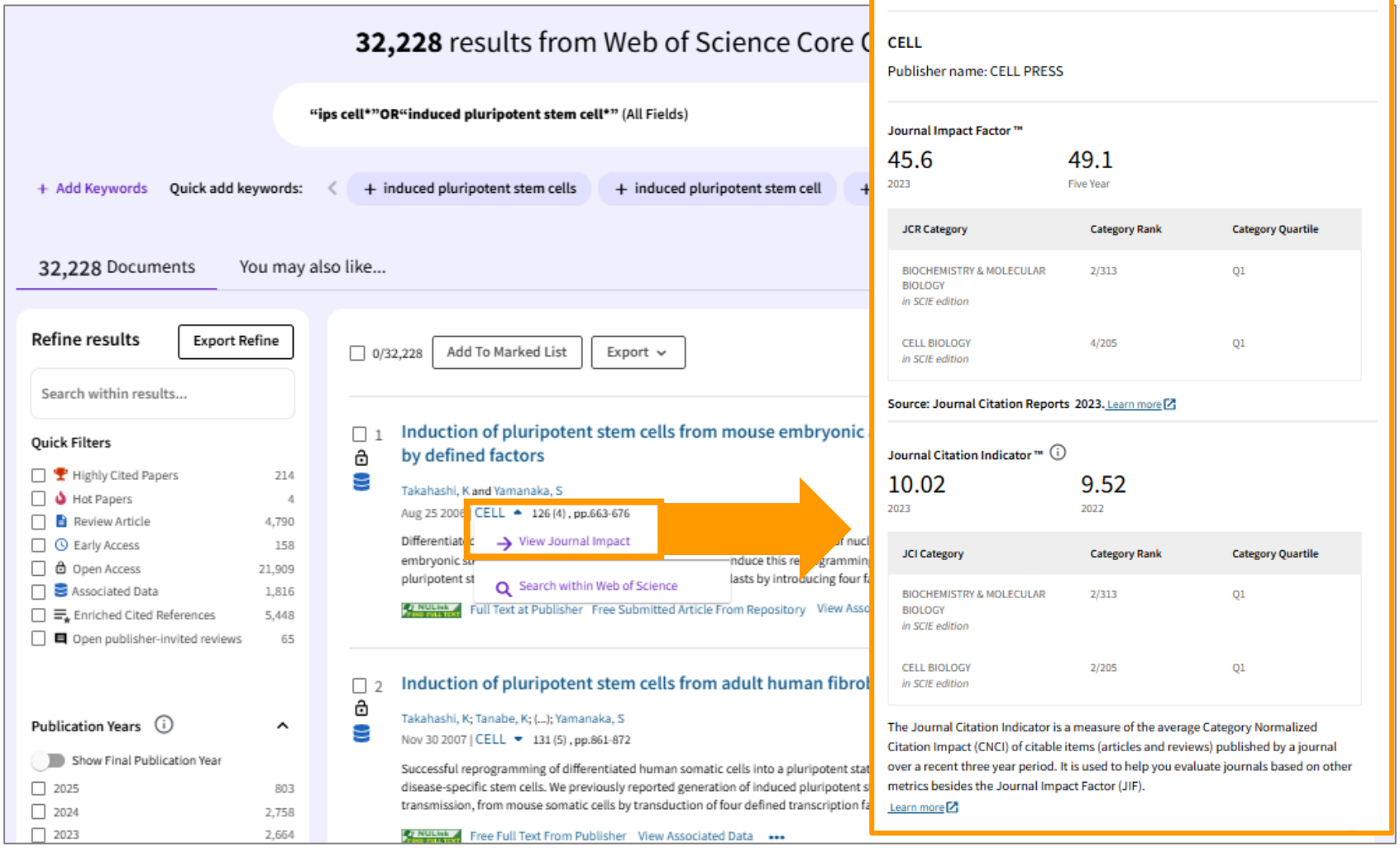
What is Journal Impact Factor (JIF)?

- **The Journal Impact Factor (JIF)** is a ratio which divides a journal's received citations by a count of its published articles.
- JIF is calculated using the following metrics (example for 2020):

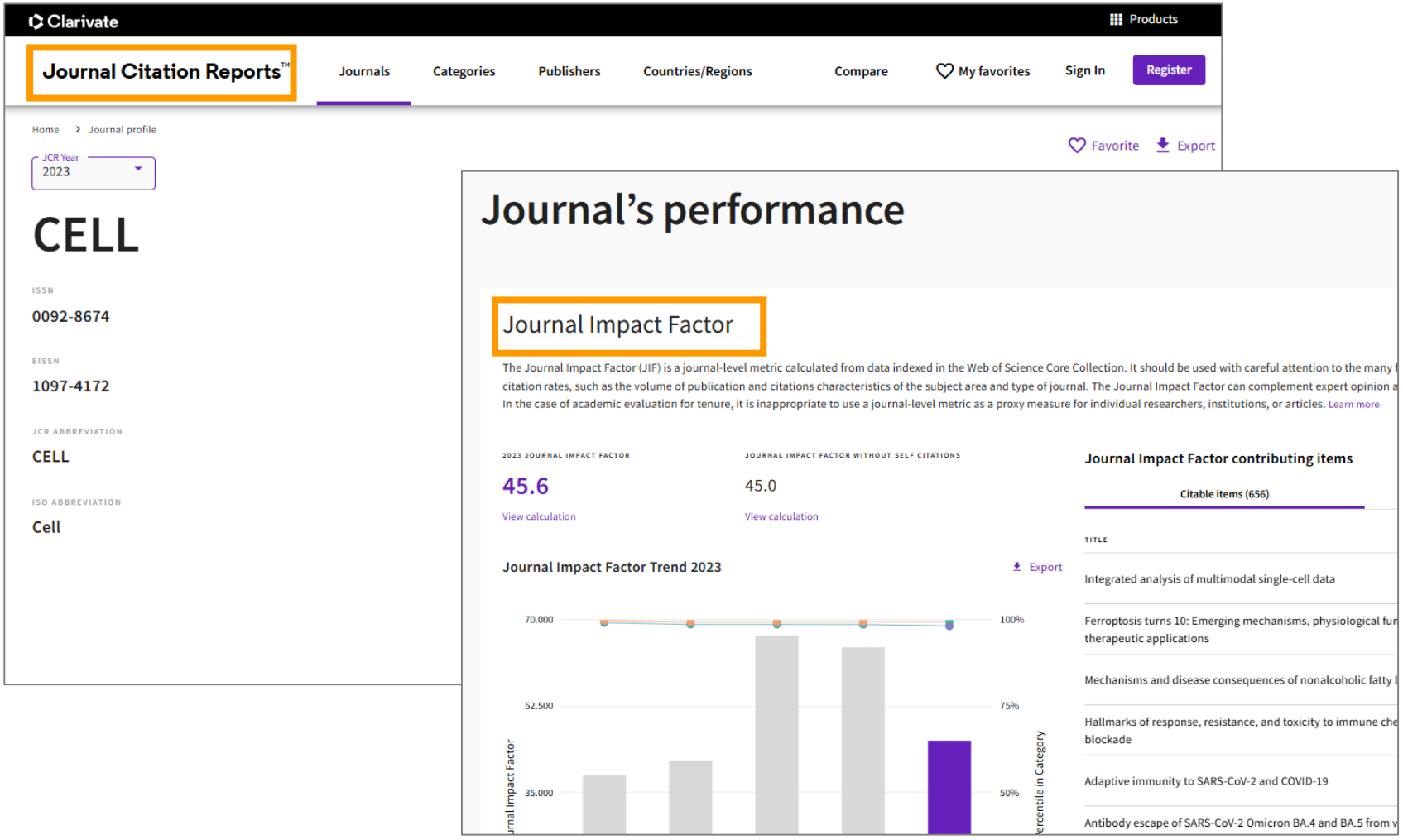
$$= \frac{\text{Citations in 2020 to items published in 2018 + 2019}}{\text{Number of citable items in 2018 + 2019}}$$

※ Changes in journal name or ISSN are considered as a new journal.
※ Items like editorials, letters, and news items are excluded from the denominator.

Using the WoS

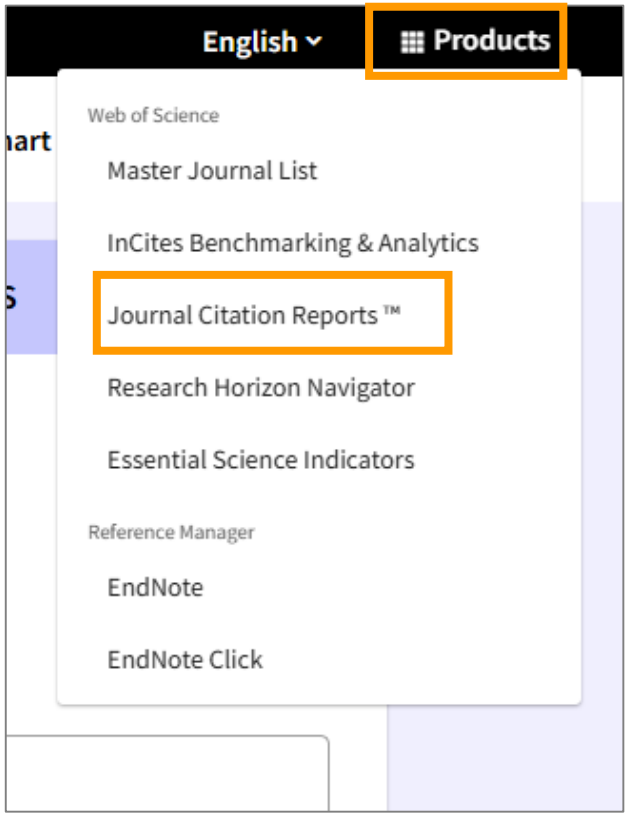


Using the WoS

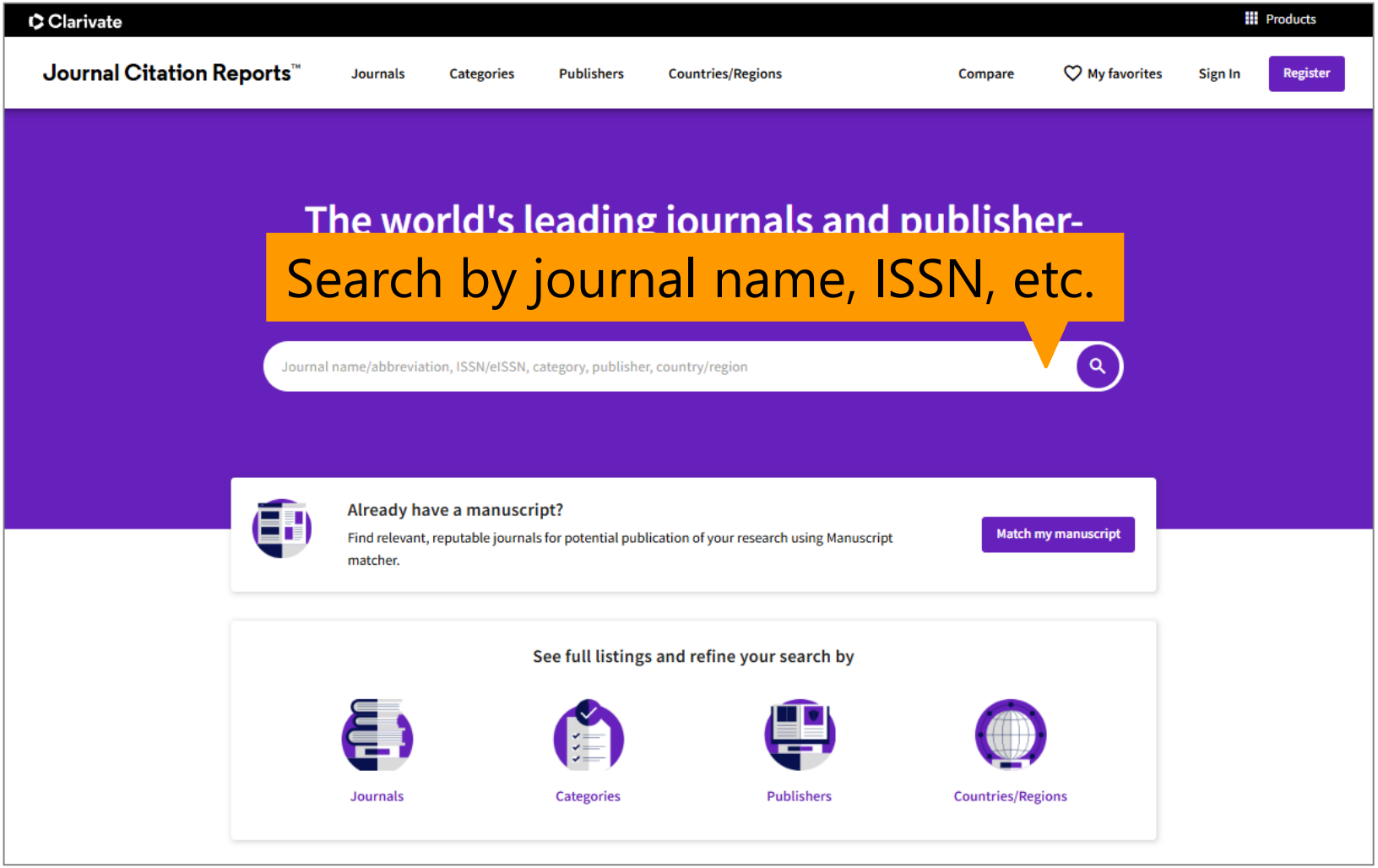


Using the JCR

- Various indicators such as JIF
- Data updated annually (around June or July)
- Data available since 1997.
- Before 1996: CD-ROMs and booklets from the Central Library.

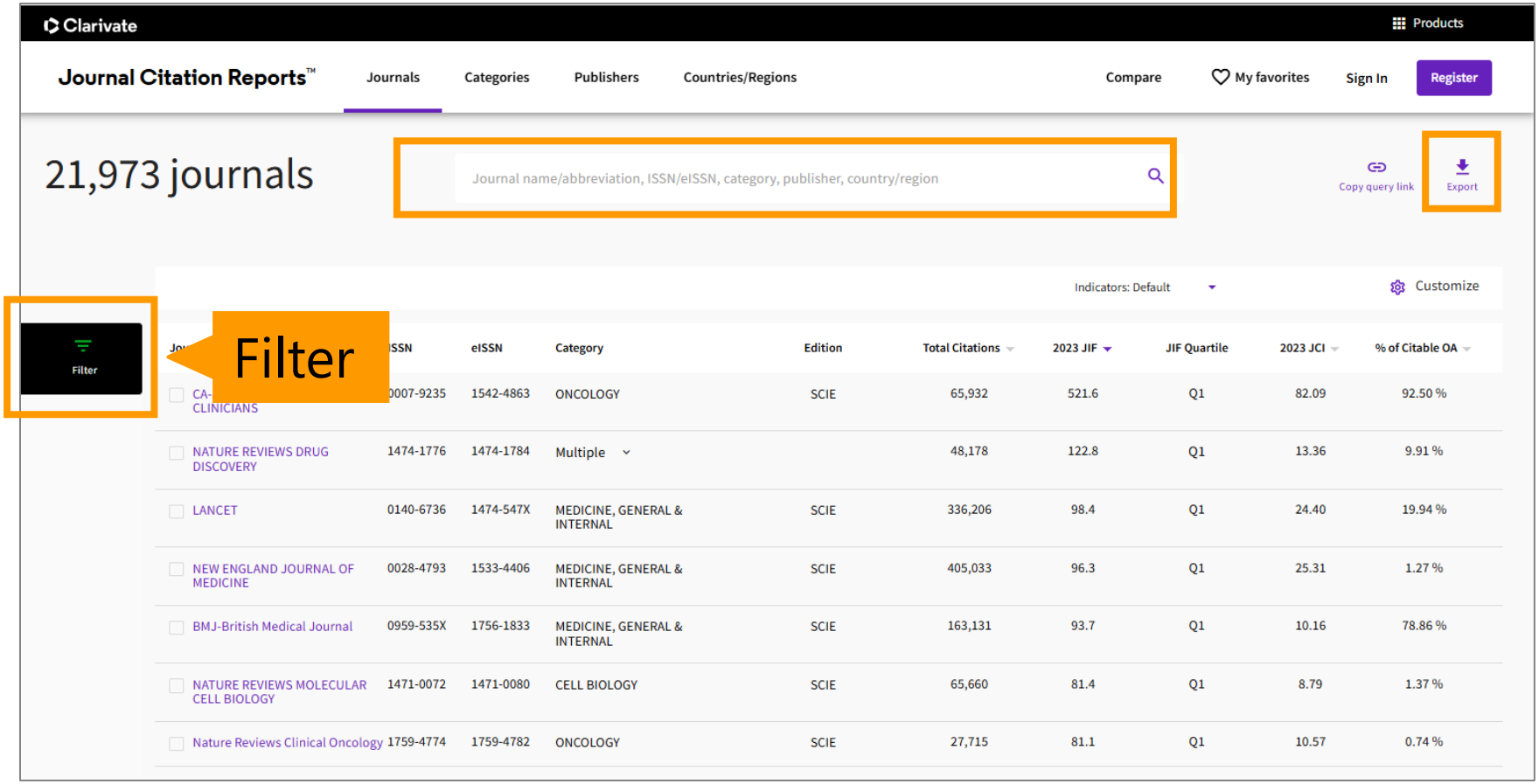


Using the JCR



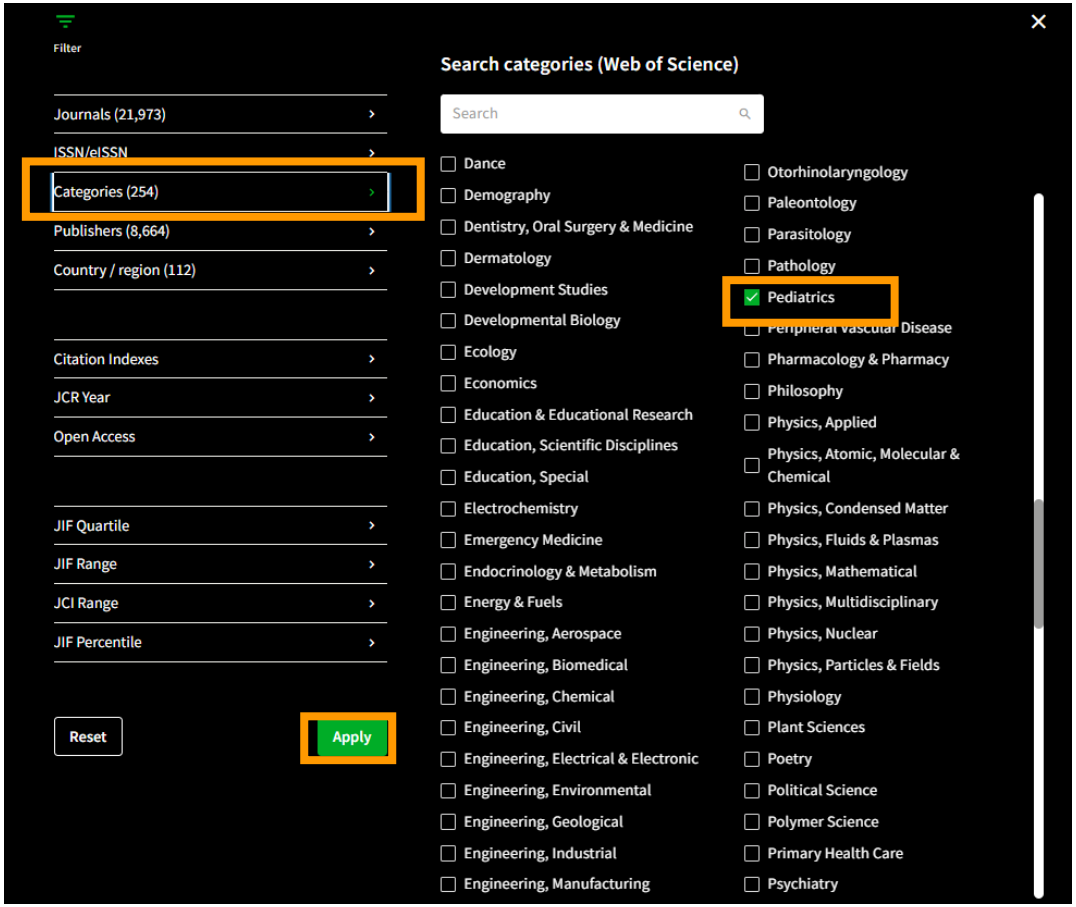
Using the JCR

- Click on “Journals".



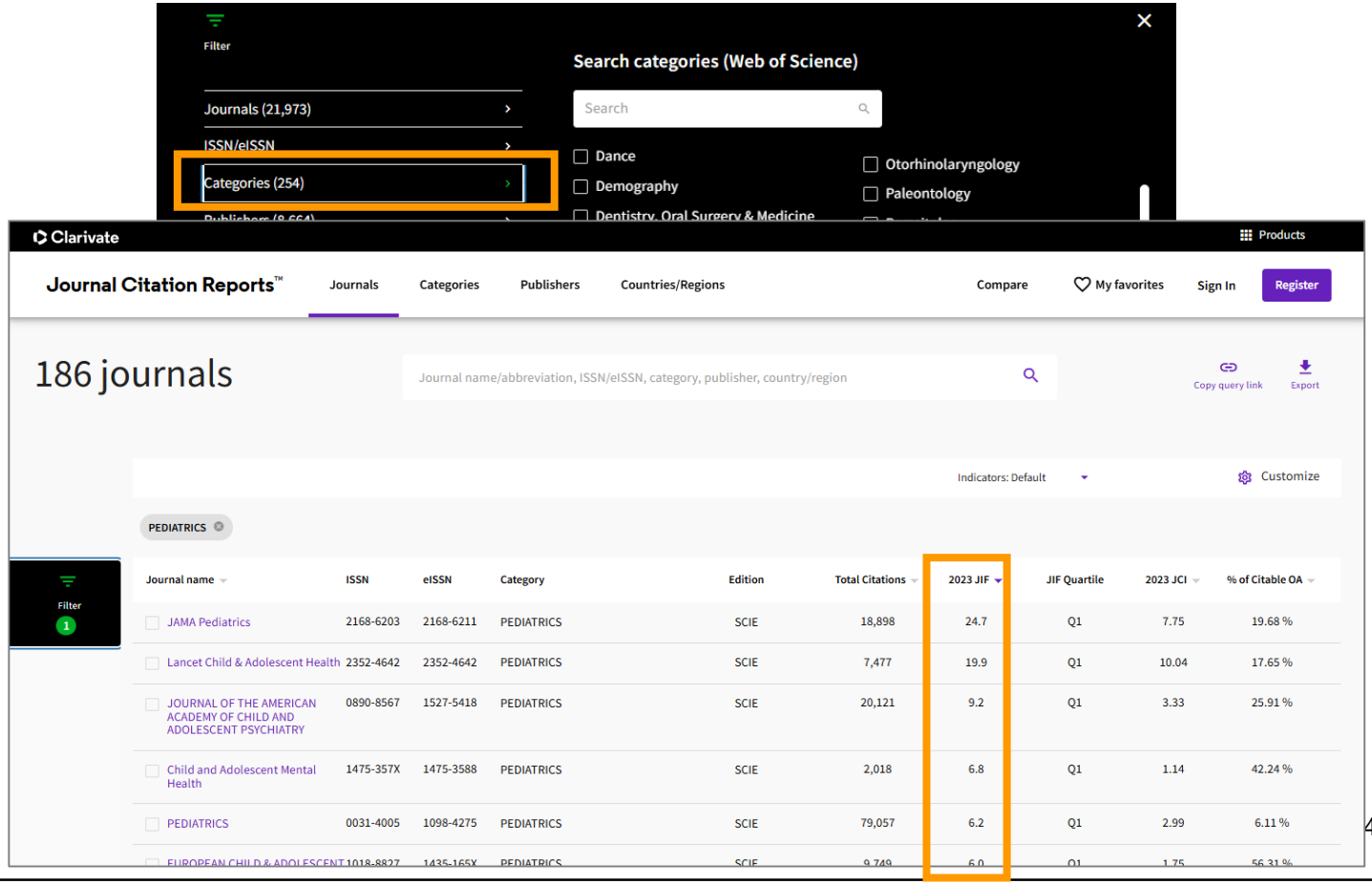
Using the JCR

- Research the most influential journals in pediatrics.



Using the JCR

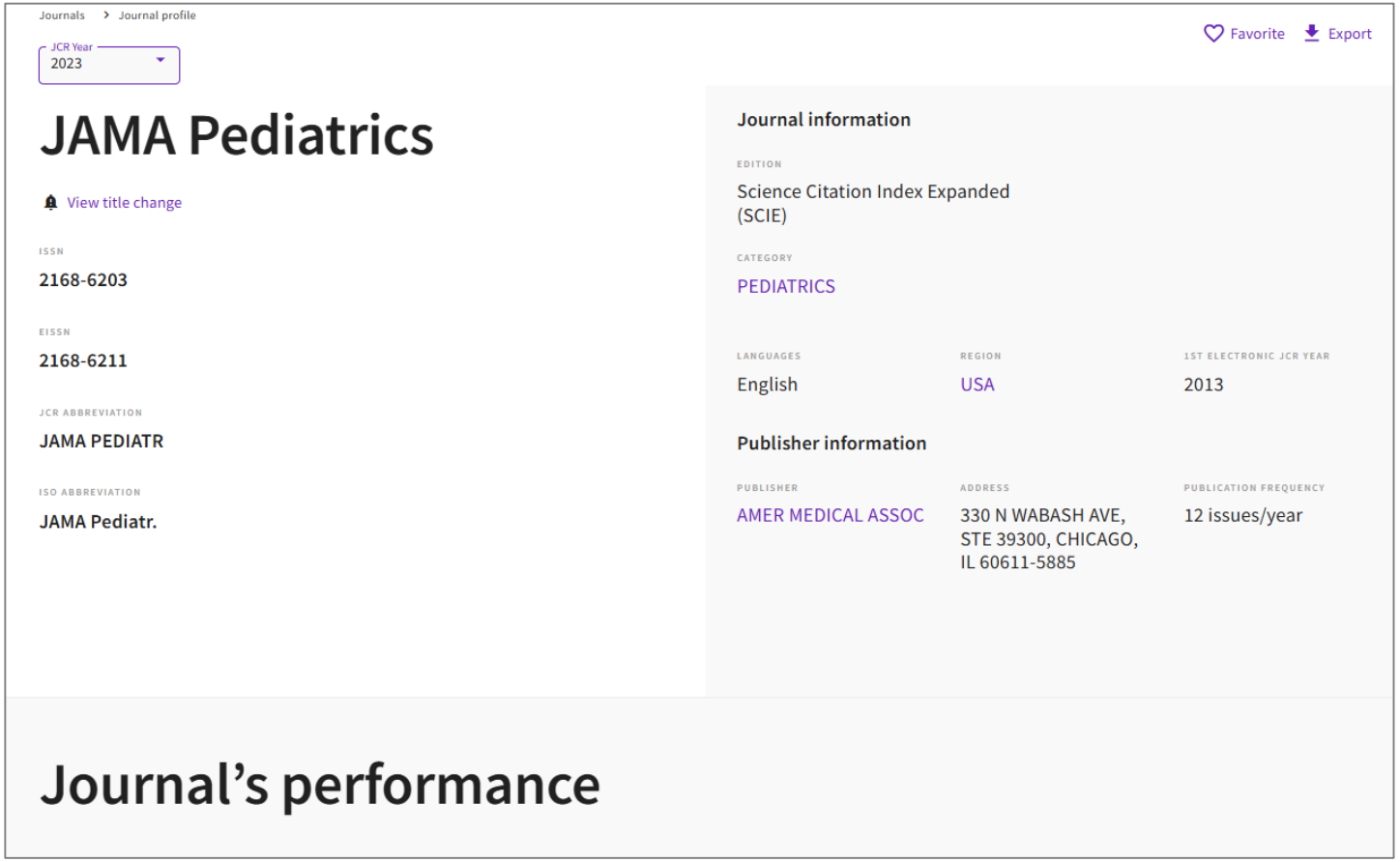
- Research the most influential journals in pediatrics.



44

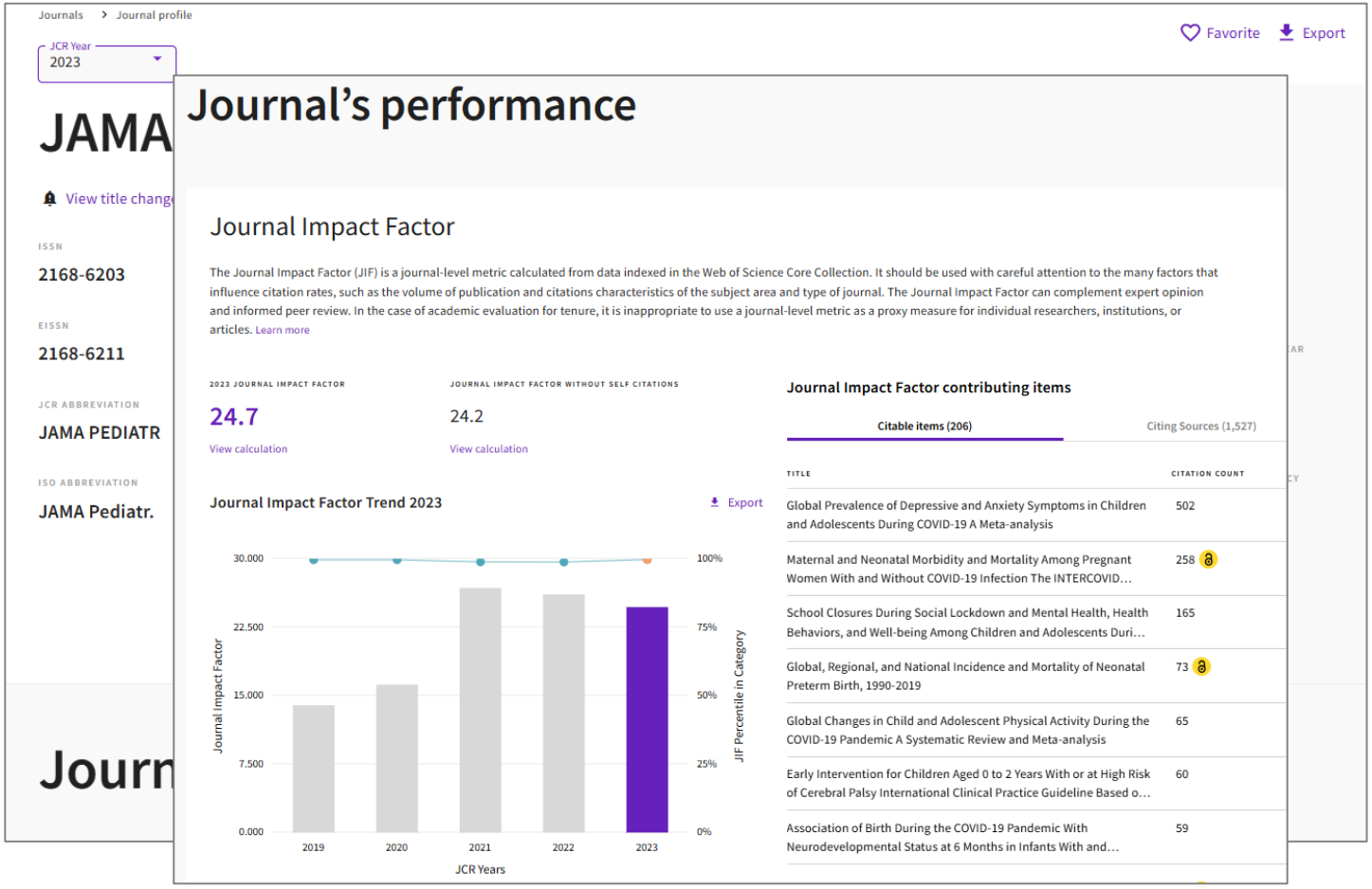
Using the JCR

- Change of IF



Using the JCR

- Change of JIF



Summry

- Use the Web of Science
  - Multi-functional database with citation network
  - Contains selected journals in all fields
  - There is no thesaurus, so be careful with search terms.
  - Use functions for different stages and scenes of research.

- Find out the Journal Impact Factor.
  - Check with WoS search results. Or search in JCR.
  - One way to evaluate a magazine. Also requires attention.

This is the last slide of “Web of Science”.

Go on the next video.

If you have questions, please send them to libmed@t.mail.nagoya-u.ac.jp.