



# Enhance your research with Web of Science & Journal Citation Reports



Renee Guan 官欣瑩  
Senior Solution Consultant  
2021.12.1



# Introduction of Web of Science and Citation Index

# Question

How do you decide to buy a book?

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## Objectivity, Selectivity and Collection Dynamics



# Web of Science Core Collection : WIDTH

01

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• 9,046 Journals • 1900-Current

02

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• 3,400+ Journals • 1900-Current

03

## Art & Humanity Citation Index

• 1,815 Journals • 1975-Current

04

## Emerging Sources Citation Index

• 7,280 Journals • 2005-Current

05

## Conference Proceedings Citation Index

• 191,000+ Conferences • 1990-Current

06

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• 80,617 Books • 2005-Current

Web of Science  
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Selective & Focus

# Question

## How do you decide to buy a book?

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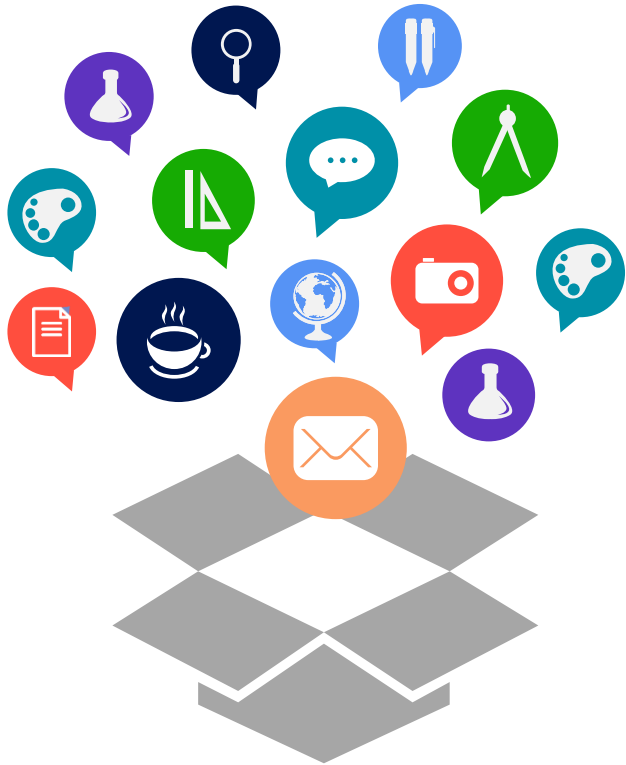
+ Add row + Add date range Advanced Search

X Clear Search

### B. Recommendation

<input type="checkbox"/> 1 <b>Random forests</b> <a href="#">Breiman, L</a> Oct 2001   <a href="#">MACHINE LEARNING</a> 45 (1) , pp.5-32 Random forests are a combination of tree predictors such that each tree depends on the values of a random vector sampled independently and with the same distribution for all trees in the forest. The generalization error for forests converges a.s. to a limit as the number of trees in the forest becomes large. The generalization error of a forest of tree classifiers depends on the	43,723 引用文献 17 参考文献 相關記錄
<input type="checkbox"/> 2 <b>Distinctive image features from scale-invariant keypoints</b> <a href="#">Lowe, DG</a> Nov 2004   <a href="#">INTERNATIONAL JOURNAL OF COMPUTER VISION</a> 60 (2) , pp.91-110 This paper presents a method for extracting distinctive invariant features from images that can be used to perform reliable matching between different views of an object or scene. The features are invariant to image scale and rotation, and are shown to provide robust matching across a substantial range of affine distortion, change in 3D viewpoint, addition of noise, and	29,056 引用文献 43 参考文献 相關記錄
<input type="checkbox"/> 3 <b>MEGA4: Molecular evolutionary genetics analysis (MEGA) software version 4.0</b> <a href="#">Tamura, K; Dudley, J; ...; Kumar, S</a> Aug 2007   <a href="#">MOLECULAR BIOLOGY AND EVOLUTION</a> 24 (8) , pp.1596-1599 We announce the release of the fourth version of MEGA software, which expands on the existing facilities for editing DNA sequence data from autosequencers, mining Web-databases, performing automatic and manual sequence alignment, analyzing sequence alignments to estimate evolutionary distances, inferring phylogenetic trees, and te ... 顯示更多	27,463 引用文献 9 参考文献 相關記錄

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Formulate your research topic wisely



Discover emerging trends

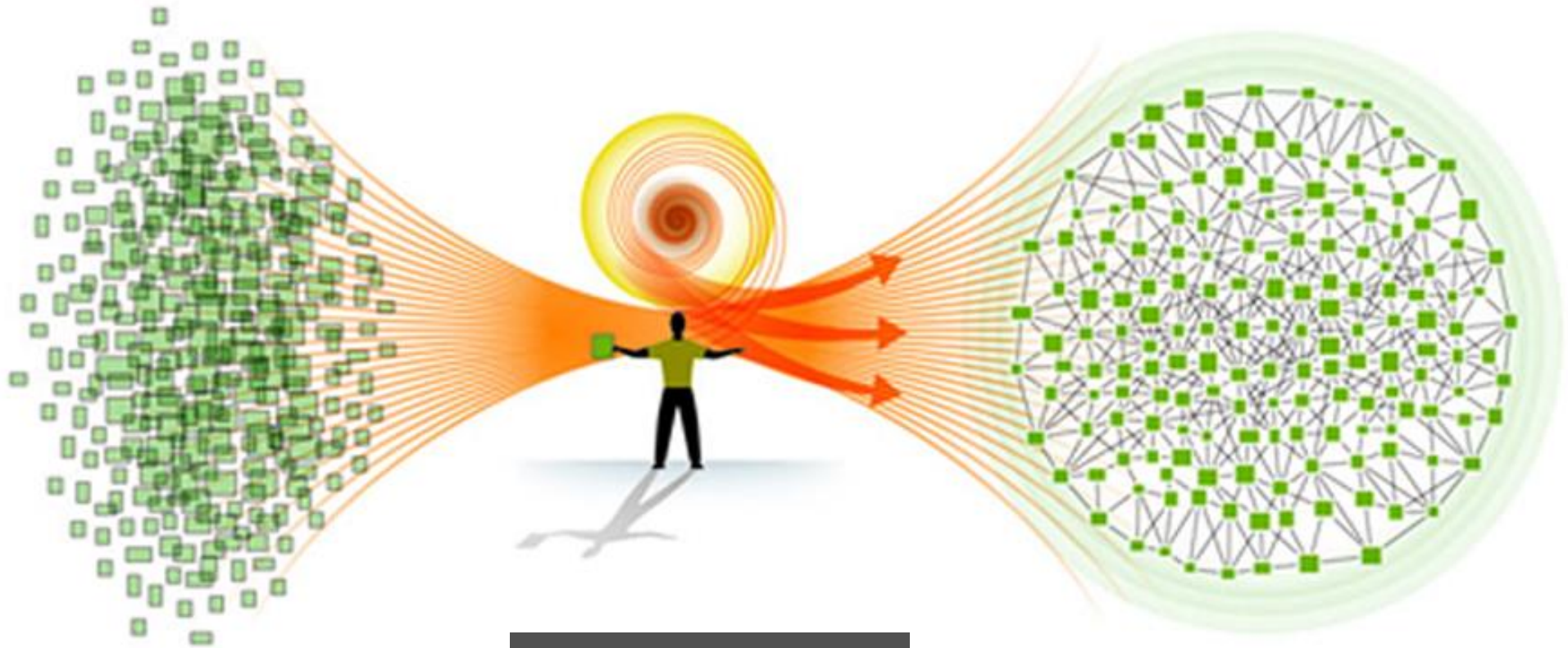
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Identify high-impact journals to publish your work

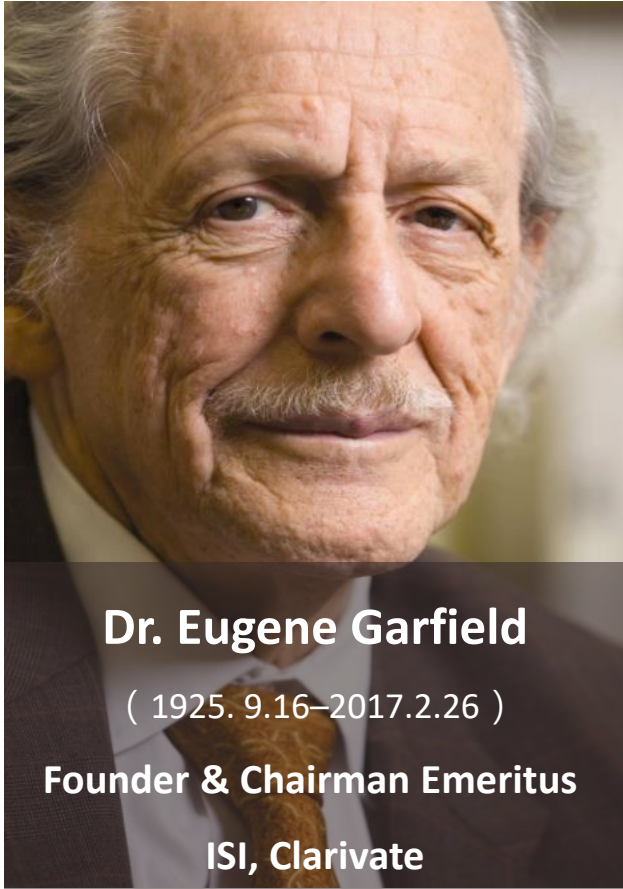


Web of Science

Web of Science helps to  
organize information into knowledge network.



# CORE VALUE of Web of Science: Citation Index



The origins of a citation index began in 1955 with the publishing of a groundbreaking paper in journal *Science* by Dr. Eugene Garfield.

## Citation Indexes for Science

A New Dimension in Documentation  
through Association of Ideas

Dr. Garfield claimed that through citation, **an intellectual link** is created between research works.

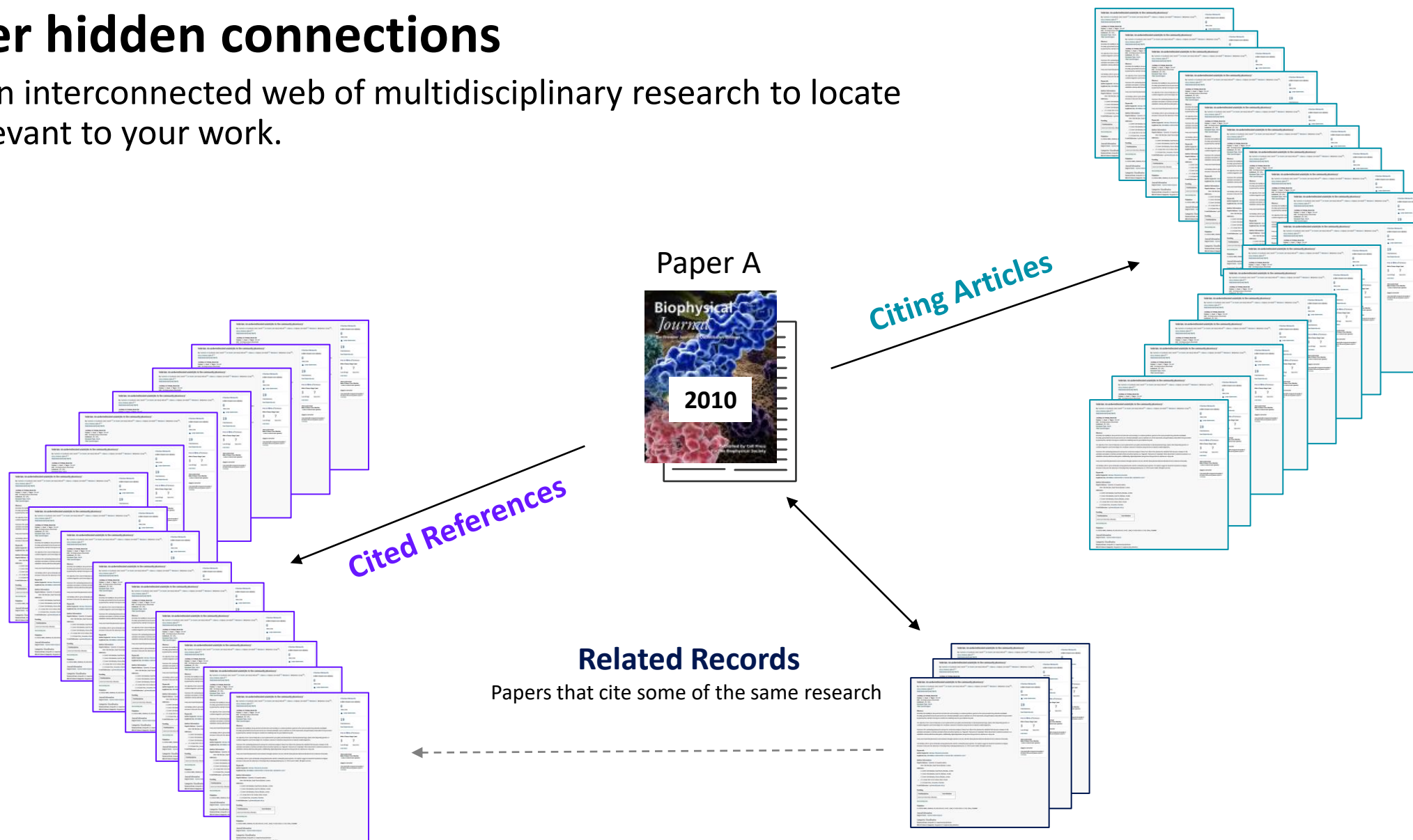
but just as many naive students may be swayed by unfounded assertions presented by a writer who is unaware of the criticisms. Buried in scholarly journals, critical notes are increasingly likely to be overlooked with the passage of time, while the studies to which they pertain, having been reported more widely, are discovered

scribed as an association-of-ideas index, and it gives the reader as much leeway as he requires. Suggestiveness through association-of-ideas is offered by conventional subject indexes but only within the limits of a particular subject heading.

If one considers the book as the macro unit of thought and the periodical article micro though there

# Uncover hidden connections

Navigate an interconnected web of multidisciplinary research to locate papers relevant to your work.



# How to start your research?

## Have you ever faced the problems like...

- The most **influential** research direction ?
- How to **follow the research updates**?
- How to **manage** your references ?
- How to write papers **efficiently**?
- How to **select the right journal to publish papers**?

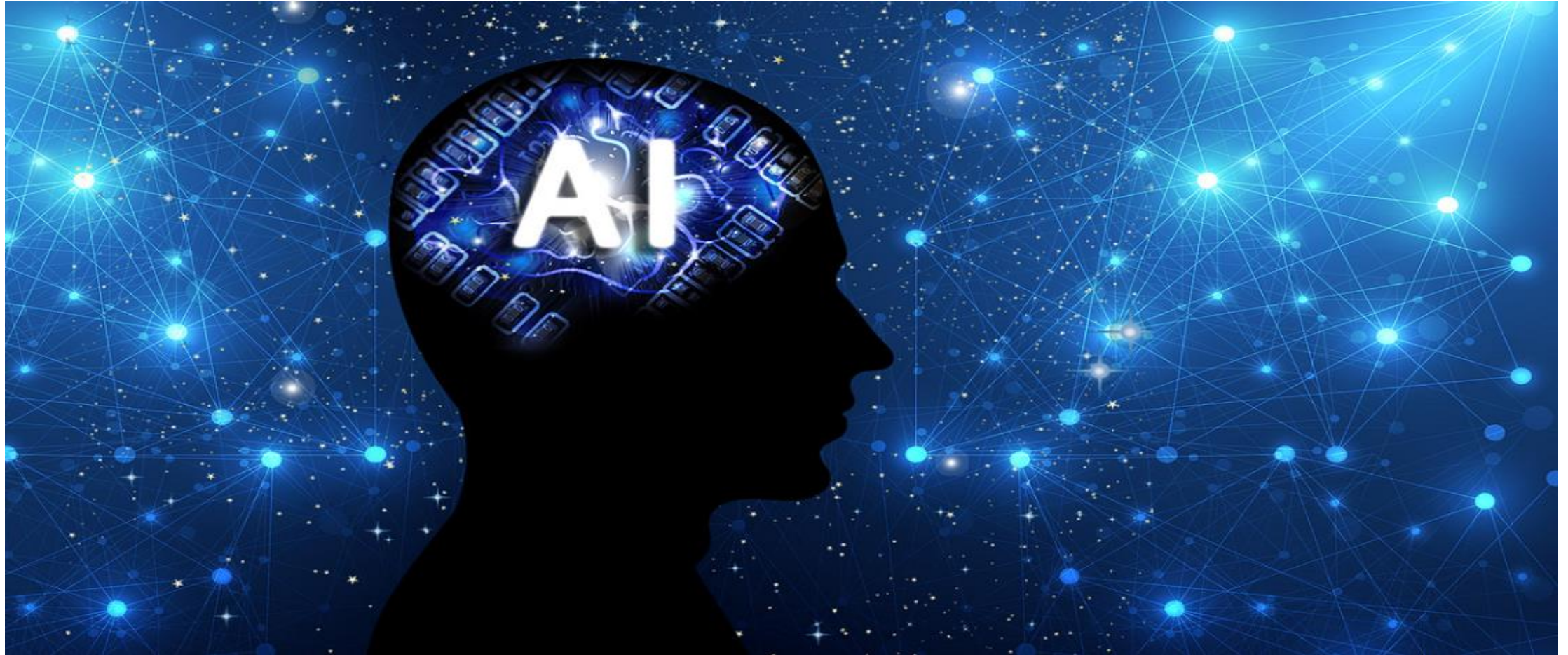
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# Deep Learning



# First Step from Web of Science

Web of Science™

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Topic ▾

"deep learn\*"

AND, OR, NOT  
Search operators

And ▾

All Fields ▾

Example: liver disease india singh

Enter your search words

Add more fields  
to your search

+ Add row

+ Add date range

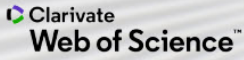
Advanced Search

Specify the time period  
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## Search tips

- ① Use quotation marks "" to find exact phrases
- ② The Asterisk (\*) represents matches zero or more characters

# How to write a search query?



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<http://clarivate.libguides.com/home>



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106,361 results from Web of Science Core Collection for:

Q "deep learn\*" (Topic)

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Refine results

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1 Deep Learning based Recommendation System: A Review of Recent Works

Wang, ML; Liu, XN and Jing, LN

IEEE 5th Information Technology and Mechatronics Engineering Conference (ITOEC) 2020 | PROCEEDINGS OF 2020 IEEE 5TH INFORMATION TECHNOLOGY AND MECHATRONICS ENGINEERING CONFERENCE (ITOEC) 2020, pp.1245-1252

The research upsurge of recommendation system and deep learning makes the deep learning become an inevitable trend. Through the introduction of the latest research of deep learning present the current popular research directions in the recommendation field and provide a c



- Relevance
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Sarkar, M

Oct-nov 2019 | EVERYMANS SCIENCE 54 (4) , pp.223-227

Deep learning algorithm has rapidly become a methodology of choice for the analysis of huge unstructured data using

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# Refine Results: Web of Science Categories

**Identify papers in specific areas** (MED), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (A&HCI):

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1 An Overview of Deep Generative Models 18 Citations  
[Xu, JG; Li, H and Zhou, SL](#)  
Mar 4 2015 | IETE TECHNICAL REVIEW 32 (2) , pp.131-139  
As an important category of deep models, deep generative model has attracted more and more attention with the proposal of Deep Belief Networks (DBNs) and the fast greedy training algorithm based on restricted Boltzmann machines (RBMs). In the

**46 References**

<input type="checkbox"/> Materials Science Multidisciplinary 2,573	<input type="checkbox"/> Robotics 926	<input type="checkbox"/> Informatics 442	<input type="checkbox"/> Rehabilitation 230
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<input type="checkbox"/> Chemistry Analytical 2,223	<input type="checkbox"/> Health Care Sciences Services 887	<input type="checkbox"/> Pharmacology Pharmacy 443	<input checked="" type="checkbox"/> Psychology 217
<input type="checkbox"/> Mathematical Computation 2,217	<input type="checkbox"/> Health Care Sciences Services 884	<input checked="" type="checkbox"/> Psychology Educational 442	<input type="checkbox"/> Peripheral Vascular Disease 209
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Sarkar, M

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1 Deep learning 24,409 Citations

LeCun, Y; Bengio, Y and Hinton, G  
May 28 2015 | NATURE 521 (7553) , pp.436-444

Deep learning allows computational models that are composed of multiple processing layers to learn representations of data with multiple levels of abstraction. These methods have dramatically improved the state-of-the-art in speech recognition, visual object recognition, object detection and many other domains such as drug discovery and geno ... Show more

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By: LeCun, Y (LeCun, Yann)<sup>1, 2</sup>; Bengio, Y (Bengio, Yoshua)<sup>3</sup>  
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#### NATURE

Volume: 521 Issue: 7553 Page: 436-444  
DOI: 10.1038/nature14539  
Published: MAY 28 2015  
Document Type: Review

#### Abstract

Deep learning allows computational models that are composed of multiple processing layers to learn representations of data with multiple levels of abstraction. These methods have dramatically improved the state-of-the-art in speech recognition, visual object recognition, object detection and many other domains such as drug discovery and genomics. Deep learning discovers intricate structure in large data sets by using the backpropagation algorithm to indicate how a machine should change its internal parameters that are used to compute the representation in each layer from the representation in the previous layer. Deep convolutional nets have brought about breakthroughs in processing images, video, speech and audio, whereas recurrent nets have shone light on sequential data such as text and speech.

#### Keywords

Keywords Plus: NEURAL-NETWORK; ARCHITECTURE; RECOGNITION; ALGORITHM

#### Author Information

Corresponding Address: LeCun, Yann (corresponding author)

Facebook AI Res, 770 Broadway, New York, NY 10003 USA

#### Addresses:

- 1 Facebook AI Res, New York, NY 10003 USA
- 2 New York Univ, New York, NY 10003 USA
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- 4 Google, Mountain View, CA 94043 USA
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**Deep learning**

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Volume: 521 Issue: 7553

DOI: 10.1038/nature14539

Published: MAY 28 2015

Document Type: Review

## Abstract

**Deep learning** allows computational models that are composed of multiple processing layers to learn representations of data with automatic abstraction. These methods have been applied to a wide range of other domains such as drug discovery and genomics. **algorithm** to indicate how a representation in the previous layer is transformed into a representation in the previous layer whereas recurrent nets have been applied to sequential data such as text and speech.

## Keywords

Keywords Plus: NEURAL NETWORKS

## Author Information

Corresponding Address: LeCun, Y

Facebook AI Res, 770 B

## Addresses:

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4 Google, Mountain View, CA 94043 USA

5 Univ Toronto, Dept Comp Sci, Toronto, ON M5S 2G4, Canada



Yoshua Bengio



Geoffrey Hinton



Yann LeCun

**Big Three in Deep Learning:****Yann LeCun** (Facebook/New York University)**Geoffrey Hinton** (Google/University of Toronto)**Yoshua Bengio** (University of Montreal)**Citation Network**

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## Deep learning

By: LeCun, Y (LeCun, Yann)<sup>1, 2</sup>; Bengio, Y (Bengio, Yoshua)<sup>3</sup>; Hinton, G (Hinton, Geoffrey)<sup>4, 5</sup>

View Web of Science ResearcherID and ORCID (provided by Clarivate)

### NATURE

Volume: 521 Issue: 7553 Page: 436-444

DOI: 10.1038/nature14539

Published: MAY 28 2015

Document Type: Review

### Abstract

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## Mastering the game of Go with deep neural networks and tree search

By: **Silver, D (Silver, David)**<sup>1</sup>; Huang, A (Huang, Aja)<sup>1</sup>; Maddison, CJ (Maddison, Chris J.)<sup>1</sup>; Guez, A (Guez, Arthur)<sup>1</sup>; Sifre, L (Sifre, Laurent)<sup>1</sup>; van den Driessche, G (van den Driessche, George)<sup>1</sup>; Schrittwieser, J (Schrittwieser, Julian)<sup>1</sup>; Antonoglou, I (Antonoglou, Ioannis)<sup>1</sup>; Panneershelvam, V (Panneershelvam, Veda)<sup>1</sup>; Lanctot, M (Lanctot, Marc)<sup>1</sup>; Dieleman, S (Dieleman, Sander)<sup>1</sup>; Grewe, D (Grewe, Dominik)<sup>1</sup>; Nham, J (Nham, John)<sup>2</sup>; Kalchbrenner, N (Kalchbrenner, Nal)<sup>1</sup>; Sutskever, I (Sutskever, Ilya)<sup>2</sup>; Lillicrap, T (Lillicrap, Timothy)<sup>1</sup>; Leach, M (Leach, Madeleine)<sup>1</sup>; Kavukcuoglu, K (Kavukcuoglu, Koray)<sup>1</sup>; Graepel, T (Graepel, Thore)<sup>1</sup>; Hassabis, D (Hassabis, Demis)<sup>1</sup>  
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Volume: 529 Issue: 7587 Page: 484+

DOI: 10.1038/nature16961

Published: JAN 28 2016

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### Addresses:

- <sup>1</sup> Google DeepMind, 5 New St Sq, London EC4A 3TW, England
- <sup>2</sup> Google, 1600 Amphitheatre Pkwy, Mountain View, CA 94043 USA

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## Deep learning

By: LeCun, Y (LeCun, Yann)<sup>1, 2</sup>; Bengio, Y (Bengio, Yoshua)<sup>3</sup>; Hinton, G (Hinton, Geoffrey)<sup>4, 5</sup>

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### NATURE

Volume: 521 Issue: 7553 Page: 436-444

DOI: 10.1038/nature14539

Published: MAY 28 2015

Document Type: Review

### Abstract

Deep learning allows computational models that are composed of multiple processing layers to learn representations of data with multiple levels of abstraction. These methods have dramatically improved the state-of-the-art in speech recognition, visual object recognition, object detection and many other domains such as drug discovery and genomics. Deep learning discovers intricate structure in large data sets by using the backpropagation algorithm to indicate how a machine should change its internal parameters that are used to compute the representation in each layer from the representation in the previous layer. Deep convolutional nets have brought about breakthroughs in processing images, video, speech and audio, whereas recurrent nets have shone light on sequential data such as text and speech.

### Keywords

Keywords Plus: NEURAL-NETWORK; ARCHITECTURE; RECOGNITION; ALGORITHM

### Author Information

Corresponding Address: LeCun, Yann (corresponding author)

Facebook AI Res, 770 Broadway, New York, NY 10003 USA

### Addresses:

- 1 Facebook AI Res, New York, NY 10003 USA
- 2 New York Univ, New York, NY 10003 USA
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#### NATURE

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#### Addresses:

- <sup>1</sup> Facebook AI Res, New York, NY 10003 USA
- <sup>2</sup> New York Univ, New York, NY 10003 USA
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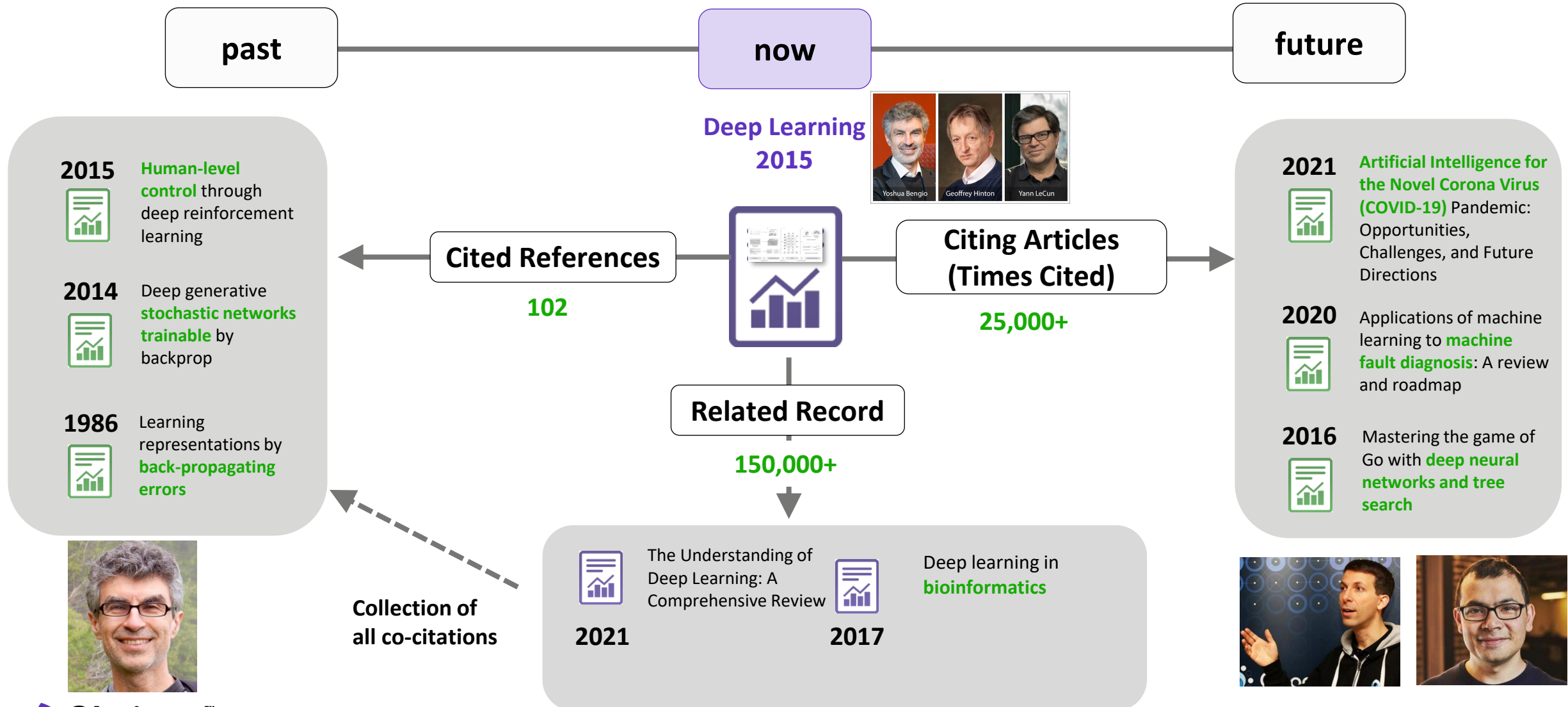
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- 1 **The Understanding of Deep Learning: A Comprehensive Review**  
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Deep learning is a computer-based modeling approach, which is made up of many processing layers that are used to understand the representation of data with several levels of abstraction. This review paper presents the state of the art in deep learning to highlight the major challenges and contributions in computer vision. This work mainly giv ... [Show more](#)  
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Stastna, M; Vaishar, A; (...); Zamecnik, S  
Sep 2020 | EUROPEAN COUNTRYSIDE 12 (3), pp.292-311

The paper connects culture, tourism and rural development. It tries to make an overview of various forms of cultural tourism in Czechia. Attractions of cultural tourism are identified and ranked according to their cognitive function. Their list includes cultural heritage in spheres of archaeological sites, architecture, arts, folklore, pilgrimages, technical ... Show more

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2 Cultural tourism market: a perspective paper 9 Citations

McKercher, B  
2020 | TOURISM REVIEW 75 (1), pp.126-129

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- Article Tools:** "Article", "Figures & Data", "Info & Metrics", "eLetters", and "PDF" (highlighted with a green box).
- Bottom:** "You are currently viewing the abstract." and a "View Full Text" button (highlighted with a red box).

Red annotations highlight specific areas:

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- "Many pages" points to the "7 of 13" page indicator.
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### Cultural tourism: A review of recent research and trends

By: Richards, G (Richards, Greg) 1

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JOURNAL OF HOSPITALITY AND TOURISM MANAGEMENT



Volume: 36 Page: 12-21

DOI: 10.1016/j.jhtm.2018.03.005

Document Type: Review

#### Abstract

This review article traces the development of cultural tourism as a field of research over the past decade, identifying major trends and research areas. Cultural tourism has recently been re-affirmed by the UNWTO as a major element of international tourism consumption, accounting for over 39% of tourism arrivals. Cultural tourism research has also grown rapidly, particularly in fields such as cultural consumption, cultural motivations, heritage conservation, cultural tourism economics, anthropology and the relationship with the creative economy. Major research trends

View PDF   indigenous and other cultural tourism research. The abilities turn, the number of suggestions for trans-modern cultures and the impacts of

new technologies. (c) 2018 The Authors.

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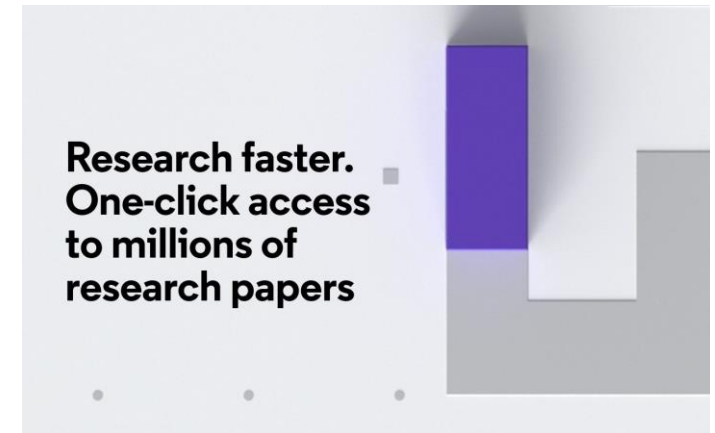
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# Analyze to Find Trends

# Analyze Trends, Gain Insight



- Which institutions are citing this topic?
- How influential are these articles at discipline level
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Wang, ML; Liu, XN and Jing,  
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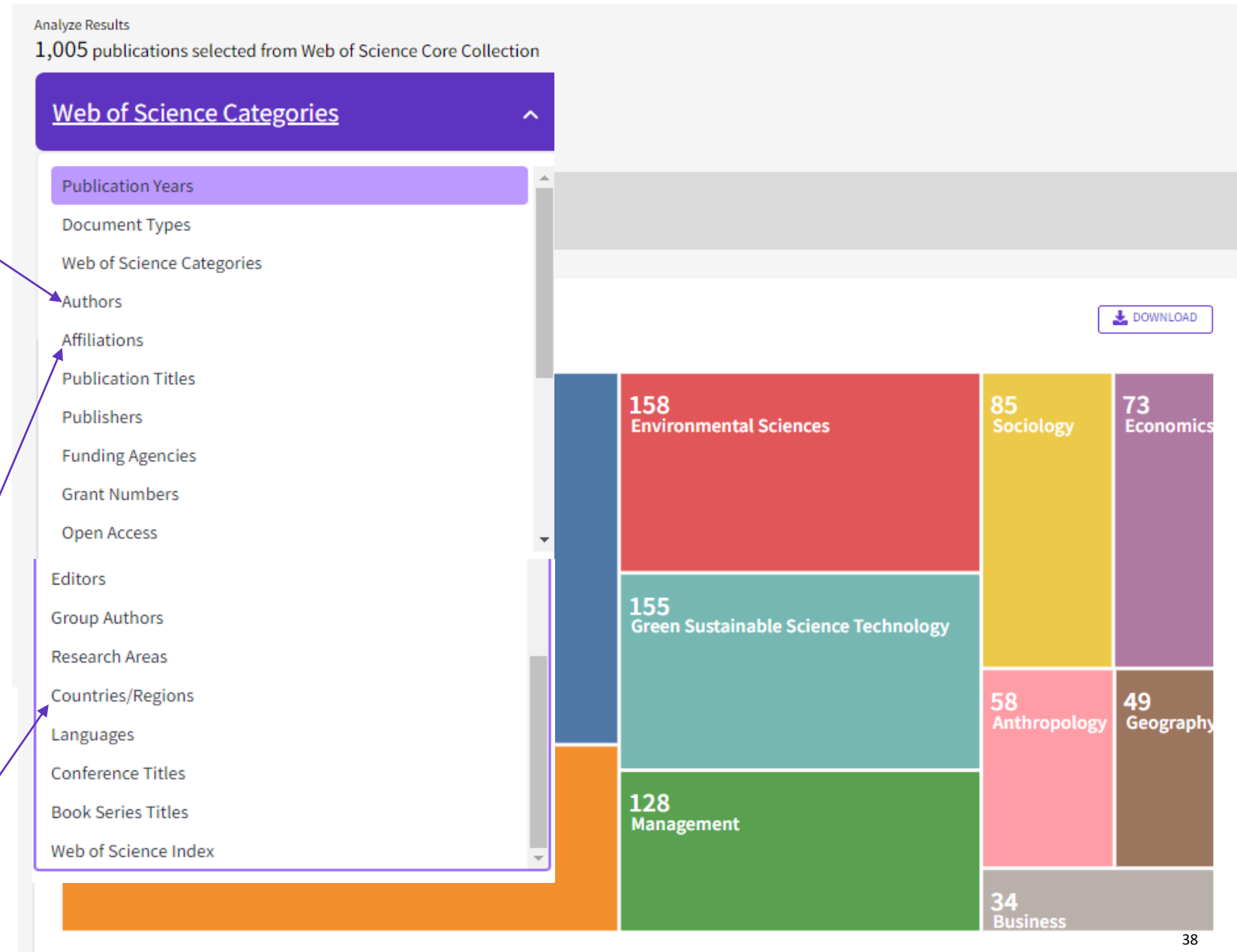
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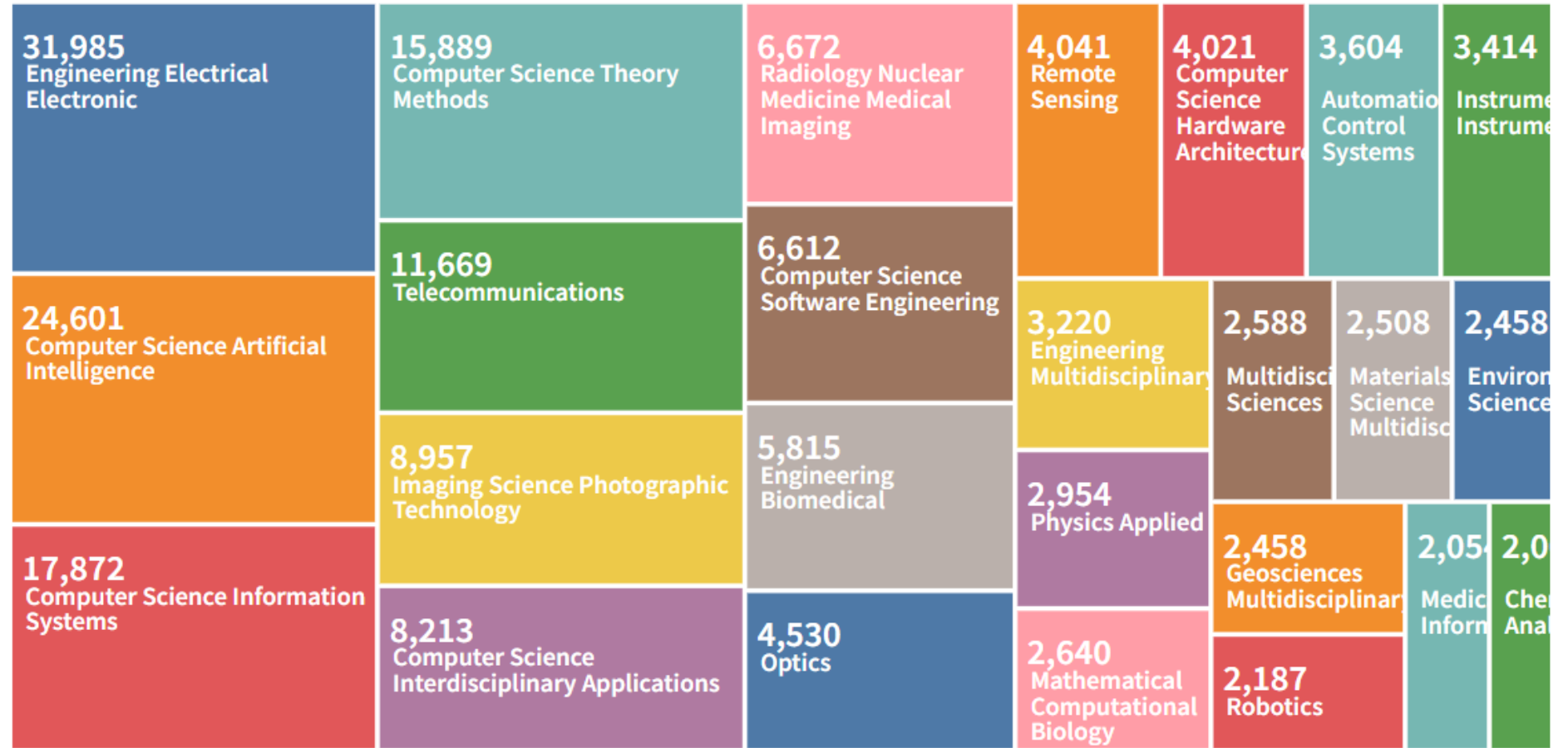
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- Pursue opportunities for deeper study and research
- Discover high productive organizations

- Discover productive countries/territories
- Compare researches and outputs between countries/ territories

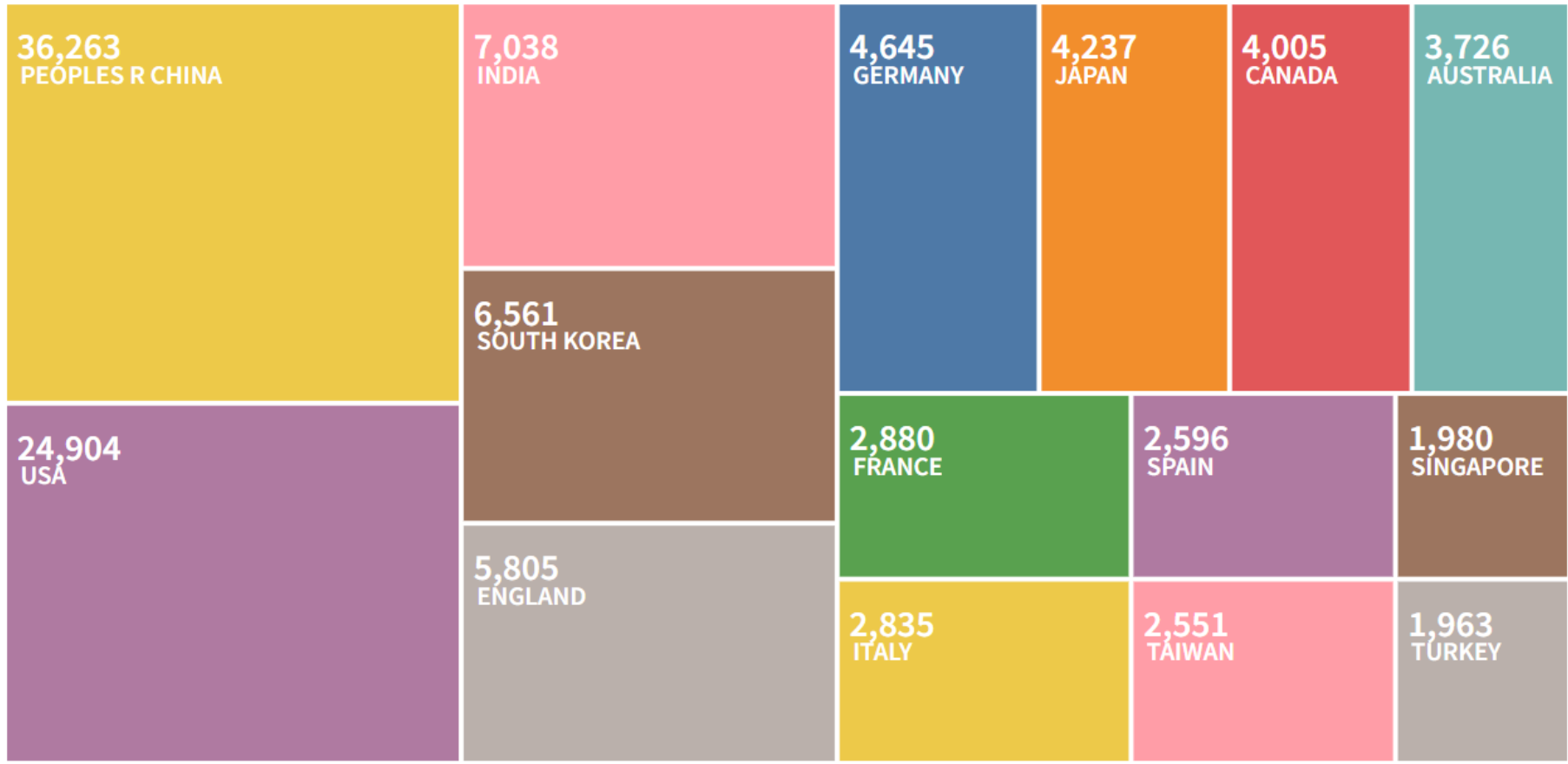


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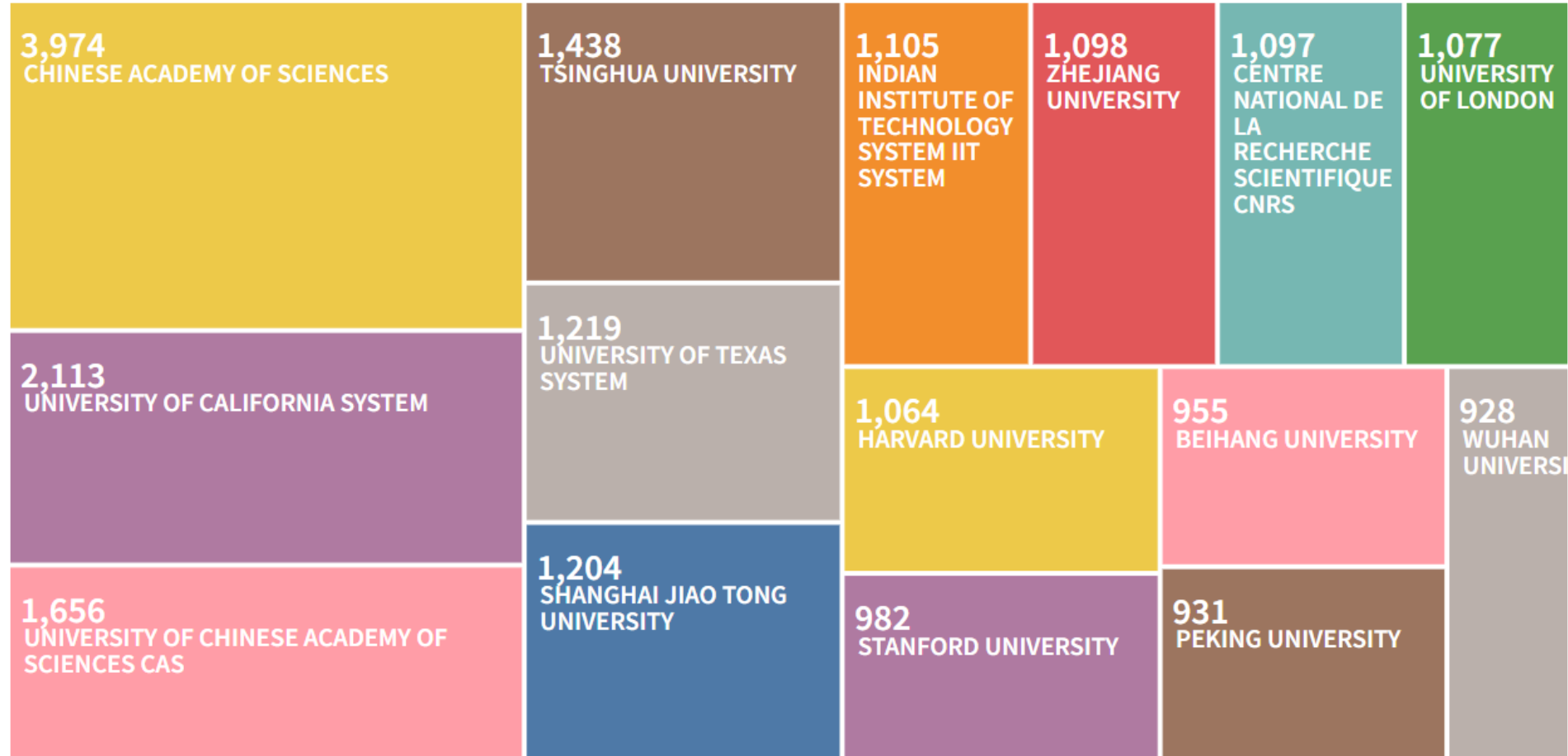
- Understand global trend
- Discover high productive countries





# Affiliations

- Promote collaborations between organizations
- Pursue opportunities for deeper study and research
- Discover high productive organizations



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# Catch up with the latest research development with the help of WOS

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The screenshot displays the Web of Science interface. At the top, the navigation bar includes 'Web of Science™', 'Search', 'Marked List 2', 'History', and 'Alerts'. A user profile for 'Renee Guan' is visible in the top right corner. The main content area shows search results for the query '"Culture-oriented travel" OR "cultur\* tour\*\*" (All Fields)', resulting in 1,002 items from the Social Sciences Citation Index (SSCI). A 'Create Alert' button is highlighted in a green box. A modal window titled 'Create search alert' is open, showing the alert name 'Culture-oriented travel' and the option 'Send me email alerts' checked. A 'CREATE' button is at the bottom of the modal. Another modal window titled 'Alert successfully created' is shown, displaying the alert name, frequency (Weekly), and email address (renee.guan@clarivate.com). A 'Manage Alerts' button is highlighted in a green box. The background shows a list of publication years from 2017 to 2021 and a snippet of a research article from 'TOURISM MANAGEMENT'.

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**Cultural tourism:** An analysis of engagement, cultural contact, memorable tourism experience and destination loyalty

By: Chen, H. C. View Web of Science Record

TOURISM

Volume: 45(1)

DOI: 10.1016/j.tourman.2013.06.001

Published Online: 15 July 2013

Document Type: Article

Abstract: This study examines the impact of a structural equation model (SEM) on visitor engagement and destination loyalty. In addition, the study explores the engagement of tourists in the destination.

Keyword: Cultural tourism; Engagement; Destination loyalty; Structural equation model

Author Keywords: Cultural tourism; Engagement; Destination loyalty; Structural equation model

Author Information: Chen, H. C. (Corresponding Author) Wiley College, Dept Hospitality & Tourism Adm, 711 Wiley Ave, Marshall, TX 75670 USA

E-mail Addresses: [hchen@wileyc.edu](mailto:hchen@wileyc.edu); [izr0004@auburn.edu](mailto:izr0004@auburn.edu)

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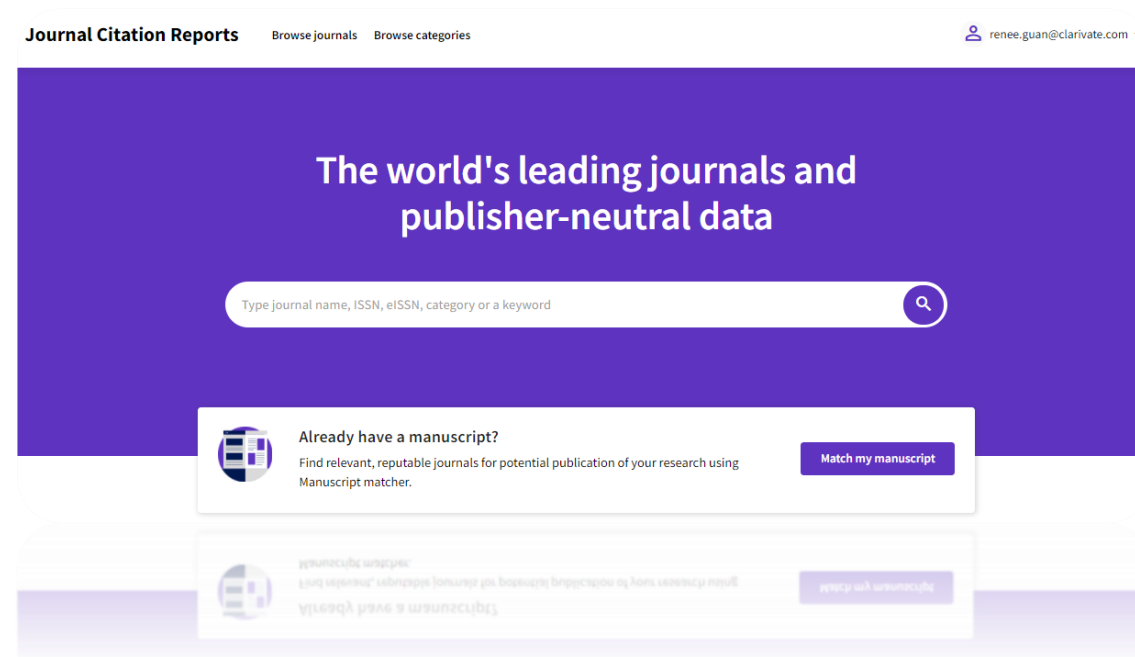


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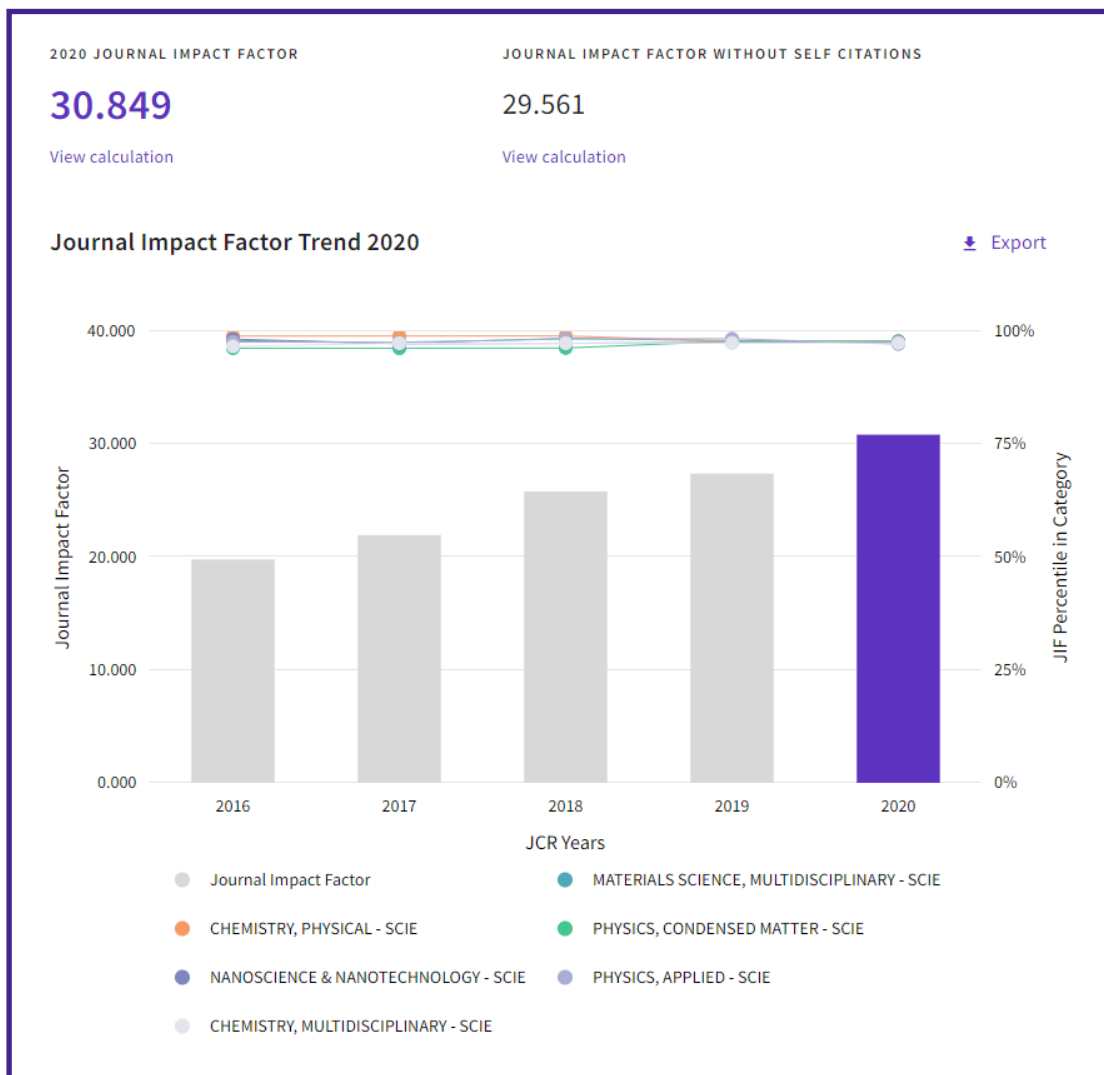
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30 Years of Lithium-Ion Batteries	361
Stable Metal-Organic Frameworks: Design, Synthesis, and Applications	360
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Trend of JIF and Percentile rank in category

Citable items published in the journal and their citations and the citing sources

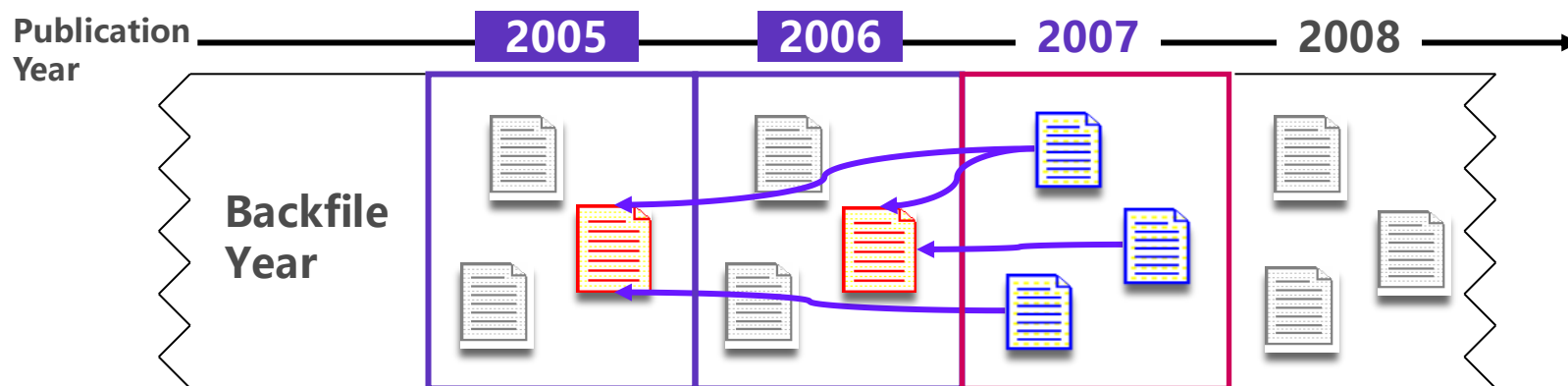


# Journal Impact Factor (JIF)

- It is used to measure the importance or rank of a journal by calculating the times it's articles are cited.
- The calculation is based on a two-year period and involves dividing the number of times articles were cited by the number of articles that are citable.

Only after indexed by SCIE or SSCI for more than two years, a journal would have its JIF.

Journal Impact Factor ⓘ	
Cites in 2007 to articles published in:	2006 = 360 2005 = 434 Sum: 794
Number of articles published in:	2006 = 136 2005 = 148 Sum: 284
Calculation:	$\frac{\text{Cites to recent articles}}{\text{Number of recent articles}} = \frac{794}{284} = 2.796$



$$IF_{2007} = \frac{\text{Cites in 2007 to articles published in 2006 and 2005}}{\text{Number of articles published in 2006 and 2005}}$$

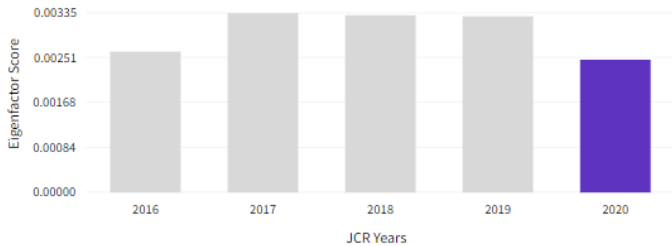
# The whole journal profile in JCR

## Eigenfactor Score



0.00248

The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than less cited sources. The Eigenfactor calculation does not include journal self-citations. [Learn more](#)



## Normalized Eigenfactor



0.52099

The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. [Learn more](#)

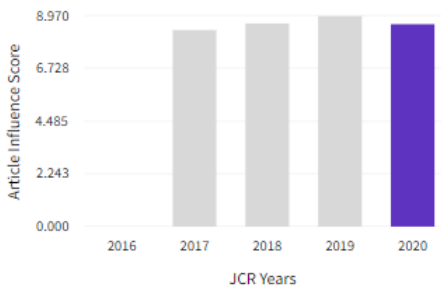


## Article influence score



8.625

The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence. [Learn more](#)



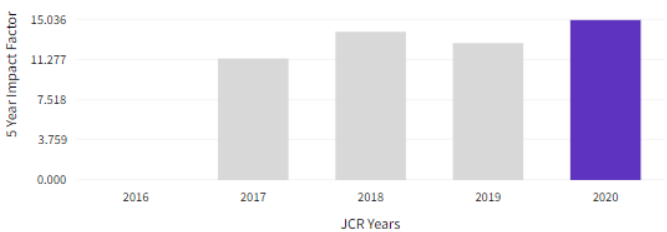
## 5 Year Impact Factor



15.036

[View Calculation](#)

The 5-year Impact Factor is the average number of times articles from the journal published in the past five years have been cited in the JCR year. It is calculated by dividing the number of citations in the JCR year by the total number of articles published in the five previous years.



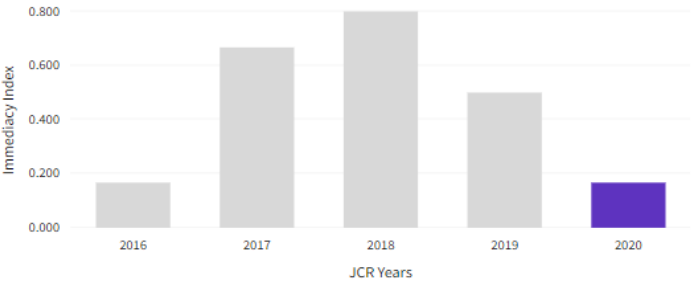
## Immediacy Index



0.167

[View Calculation](#)

The Immediacy Index is the count of citations in the current year to the journal that reference content in this same year. Journals that have a consistently high Immediacy Index attract citations rapidly. [Learn more](#)



## Additional metrics of the journal

- Eigenfactor Score
- Normalized Eigenfactor
- Article influence score
- 5 Year Impact Factor
- Immediacy Index

# Find the whole journal list for a certain discipline in JCR

I am in **Cell Biology**.  
I want to know  
journal list in my  
discipline.

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Type journal name, ISSN, eISSN, category or a keyword



See full listings and refine your search



Browse journal

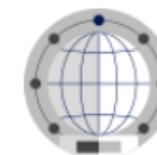


Browse categories



Browse publishers

COMING SOON



Browse countries

COMING SOON

# Find the whole journal list for a certain discipline in JCR

Journal Citation Reports

195 j

Filter

- Journals (26,674)
- Categories (254)
- Publishers (8,110)
- Country / region (118)
- Citation Indexes
- JCR Year
- Open Access
- JIF Quartile
- JIF Range
- JCI Range
- JIF Percentile

Reset Apply

- Cell & Tissue Engineering
- Cell Biology
- Chemistry, Analytical
- Chemistry, Applied
- Chemistry, Inorganic & Nuclear
- Chemistry, Medicinal
- Medicine, General & Internal
- Medicine, Legal
- Medicine, Research & Experimental
- Medieval & Renaissance Studies
- Metallurgy & Metallurgical Engineering

Indicators: Default

Customize

eISSN	Category	Total Citations	2020 JIF	JIF Quartile	2020 JCI	% of OA Gold
1471-0080	CELL BIOLOGY - SCIE	58,477	94.444	Q1	7.01	1.40 %
1546-170X	CELL BIOLOGY - SCIE	114,401	53.440	Q1	9.96	3.21 %
1097-4172	CELL BIOLOGY - SCIE	320,407	41.582	Q1	7.09	15.70 %
1878-3686	CELL BIOLOGY - SCIE	50,839	31.743	Q1	5.31	10.81 %
1476-4679	CELL BIOLOGY - SCIE	52,554	28.824	Q1	3.85	0.00 %
1932-7420	CELL BIOLOGY - SCIF	52,192	27.287	Q1	4.62	9.50 %



Export

# Take Away

## Take away

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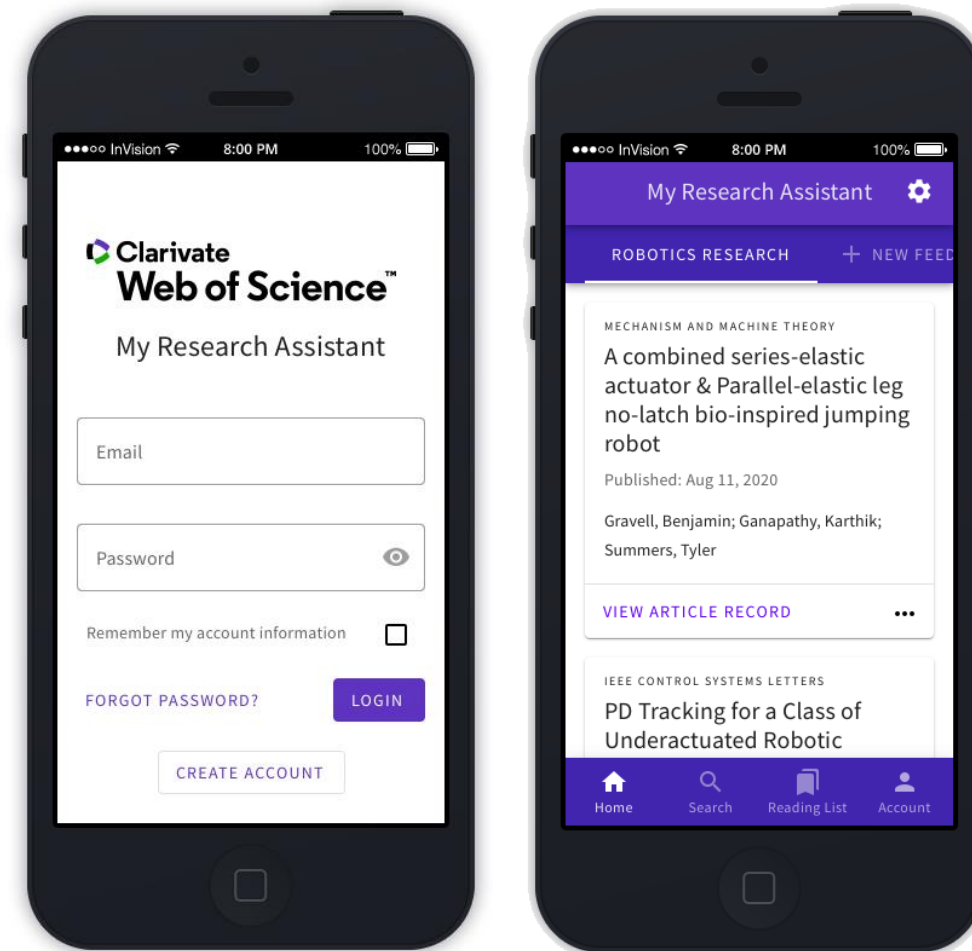
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# More helps

The image shows a screenshot of the Web of Science Help page. The top navigation bar includes the Clarivate logo, language selection (English), and a Products menu. Below this, the 'Web of Science' logo is followed by navigation links for Search, Marked List, History, and Alerts, and a user profile for Siming Wang. The main content area features a search bar and a central banner with three icons: 'What's New', 'Search Rules', and 'Training Videos'. A left sidebar lists various help topics such as Product Updates, System Requirements, and Search Tools. A 'Resources & updates' dropdown menu is open on the right, listing options like Product updates, Guided tours, Training, News & events, Online help & contact us, and Suggest a feature. A red box highlights the 'Online help & contact us' option, and a red arrow points from it to the 'Training Videos' icon in the banner. A red box also highlights a question mark icon in the bottom right corner of the page.

# Online Training

The screenshot shows the Clarivate Web of Science Learning page. At the top, there is a navigation bar with the Clarivate logo, 'English', and 'Products'. Below this is a secondary navigation bar with 'Web of Science', 'Search', 'Marked List', 'History', and 'Alerts'. A user profile for 'Siming Wang' is visible in the top right. The main content area is titled 'Getting Started with Web of Science' and features a large video player on the left and three smaller resource cards on the right: 'Recorded webinar: Introducing the new Web of Science (50min)', 'Getting Help in Web of Science', and 'Quick Reference Guide'. A 'Resources & updates' dropdown menu is open on the right side, listing 'Product updates', 'Guided tours', 'Training', 'News & events', 'Online help & contact us', and 'Suggest a feature'. The 'Training' option is highlighted with a red box. A red box also highlights a question mark icon in the bottom right corner of the page.



**Thank you.**

