

# **Web of Science**

## **—Document Retrieval , Paper Writing & Manuscript Submission**

# Web of Science platform

Streamline your research to accelerate breakthroughs



- Identify new opportunities to advance your research
- Monitor diverse outputs for new discoveries, potential partners, trending topics, and commercial opportunities

## Content and data

- 187.8 million total records
- 2.1 billion cited references
- 18.5 million open access records
- 103 million patents for 51 million inventions
- 13.3 million datasets
- 34,800+ journals
- 254 subject categories

# Web of Science Core Collection

Research with Confidence



**Science Citation Index Expanded (SCIE)**

**Social Science Citation Index (SSCI)**

**Arts & Humanities Citation Index (AHCI)**

**Emerging Sources Citation Index (ESCI)**

OVER 24,000 Journals

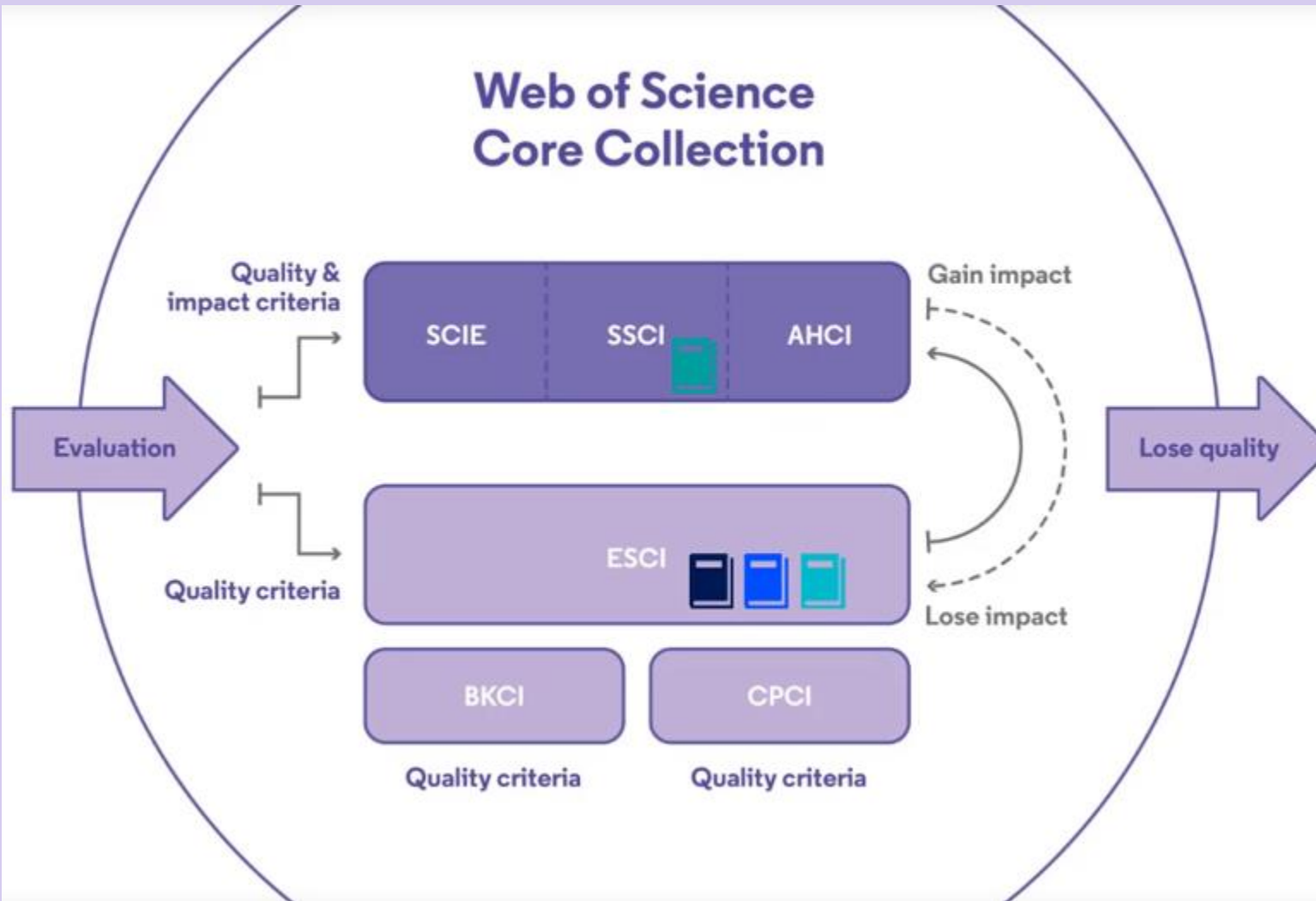
**Emerging Sources Citation Index (CPCI)**

OVER 225,000 Conferences

**Book Citation Index (BKCI)**

Over 128,000 books

## Web of Science Core Collection




---

✓ 28  
selection criteria in total

✓ 24  
quality criteria to select for  
editorial rigor and  
publishing best practice

✓ 4  
impact criteria to select for  
the most impactful journals

**The world's leading journals and publisher-neutral  
data**

**source data for Journal Impact Factor**

**Journal's performance**

DOCUMENTS

RESEARCHERS

Search in: **Web of Science Core Collection** ▾ Editions: **Science Citation Index Expanded (SCI-EXPANDED)--1985-present** ▾

DOCUMENTS CITED REFERENCES STRUCTURE

All Fields ▾

Example: liver disease india singh

+ Add row

+ Add date range

Advanced Search

× Clear

Search



**Jump back into your research - try out our new personalized homepage dashboard.**

Don't have an account? [Register for a new account](#)

[Sign in to access](#)

Harbin Institute of Technology

Let us help you make the most of the Web of Science.

## Getting Started with Web of Science



This self-guided course provides a complete introduction to Web of Science, completed at your own pace. A certificate of completion is provided. (90 min)



Recorded training: Web of Science essentials (60min)



Guide to creating a researcher profile



Quick Reference Guide

Full details to make an accurate search

### First steps

Personalize Web of Science  
Create an account



Clarivate™

Web of Science Core Collection:  
The Value of True Citation  
Indexing

Clarivate™

Supercharge Your Search with  
Web of Science

#### PDF guides:

- Explore the research on a subject with Web of Science – User guide (PDF)
- Citation Context in Web of Science (PDF)



**Part 1 Identify the Must-read Papers in Your Field**

**Part 2 Efficient Reading of Papers**

**Part 3 Get Access to Full-text Papers**

**Part 4 Paper Writing and Manuscript Submission**





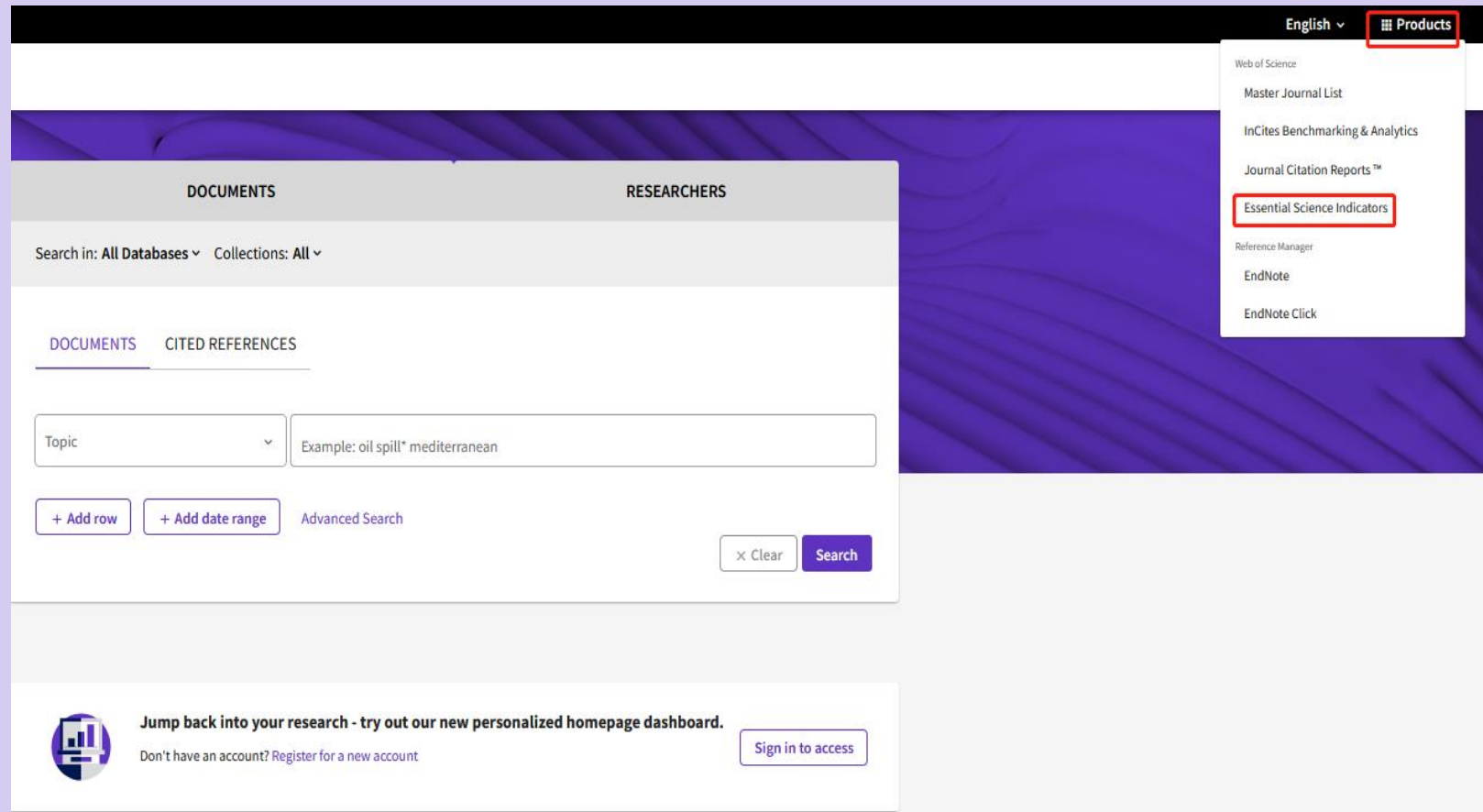
## **Part 1 Identify the Must-read Papers in Your Field**

# Part 1

## Identify the must-read papers in your field?

### Step 1 Research Frontiers

## Essential Science Indicators (ESI)



The screenshot displays the Clarivate Research Frontiers website interface. At the top right, there is a language dropdown set to 'English' and a 'Products' menu icon. The 'Products' dropdown menu is open, listing several options: 'Web of Science', 'Master Journal List', 'InCites Benchmarking & Analytics', 'Journal Citation Reports™', 'Essential Science Indicators' (highlighted with a red box), 'Reference Manager', 'EndNote', and 'EndNote Click'. Below the navigation bar, the main content area is divided into 'DOCUMENTS' and 'RESEARCHERS' tabs. The 'DOCUMENTS' tab is active, showing a search interface with a 'Search in: All Databases' dropdown and a 'Collections: All' dropdown. A search input field contains the text 'Example: oil spill\* mediterranean'. Below the search field are buttons for '+ Add row', '+ Add date range', and 'Advanced Search'. At the bottom of the search area are 'x Clear' and 'Search' buttons. At the bottom of the page, there is a promotional banner with a bar chart icon, the text 'Jump back into your research - try out our new personalized homepage dashboard.', and a 'Sign in to access' button. A link for 'Don't have an account? Register for a new account' is also present.



# Top Papers by Research Fronts

**Results List**

Research Fronts

---

**Filter Results**

By

- Attributes ?
- Research Fields >
- Research Fronts

Add Filter »

---

**Include Results For**

Top Papers

Clear Save Criteria

Map View by Top / Hot / Highly Cited Papers

Hide Visualization —

0 81,740

Report View by Selection		Customize
	Research Fronts	Top Papers
1	BLEND MEAT ALTERNATIVES TASTE LIKE MEAT; NEW GENERATION PLANT-BASED MEAT ALTERNATIVES; EXTRUDED PLANT-BASED MEAT ALTERNATIVES; PLANT-BASED MEAT ALTERNATIVES; PLANT-BASED MEAT ANALOGUES	50

Research Fronts

Find Fronts by Fields

Find Fronts by Key Words

# Top Papers by Research Fronts

## Results List

Research Fronts ▼

## Filter Results By ?

Changing the filter field removes all current filters.

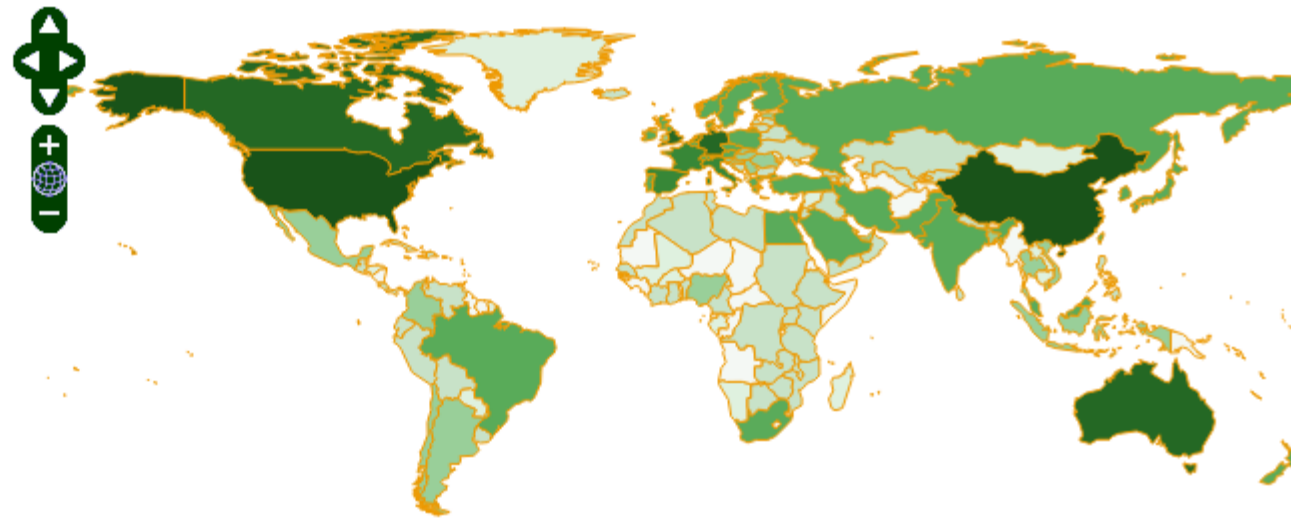
### Add Filter »

membrane fouling

- CA-ALGINATE GEL-ASSOCIATED ME
- CERAMIC MEMBRANE TECHNOLO
- INITIAL MEMBRANE FOULING;MEM
- MITIGATE MEMBRANE FOULING;ME
- NANOPHOTONICS-ENABLED SOLA
- WASTEWATER TREATMENT PLANT

## Map View by Top / Hot / Highly Cited Papers

Hide Visualization —



0 81,740

## Report View by Selection

Customize

Total:	Research Fronts	Top Papers	Mea Year
12922			
1	BLEND MEAT ALTERNATIVES TASTE LIKE MEAT; NEW GENERATION PLANT-BASED MEAT ALTERNATIVES; EXTRUDED PLANT-BASED MEAT ALTERNATIVES; PLANT-BASED MEAT ALTERNATIVES; PLANT-BASED MEAT ANALOGUES	50	2
	PHOSPHORUS-CONTAINING FLAME RETARDANT EPOXY THERMOSETS; FLAME RETARDANT POLYMERIC		

# Papers by Research Field

Citation Trends

Documents

Filter Results By ?

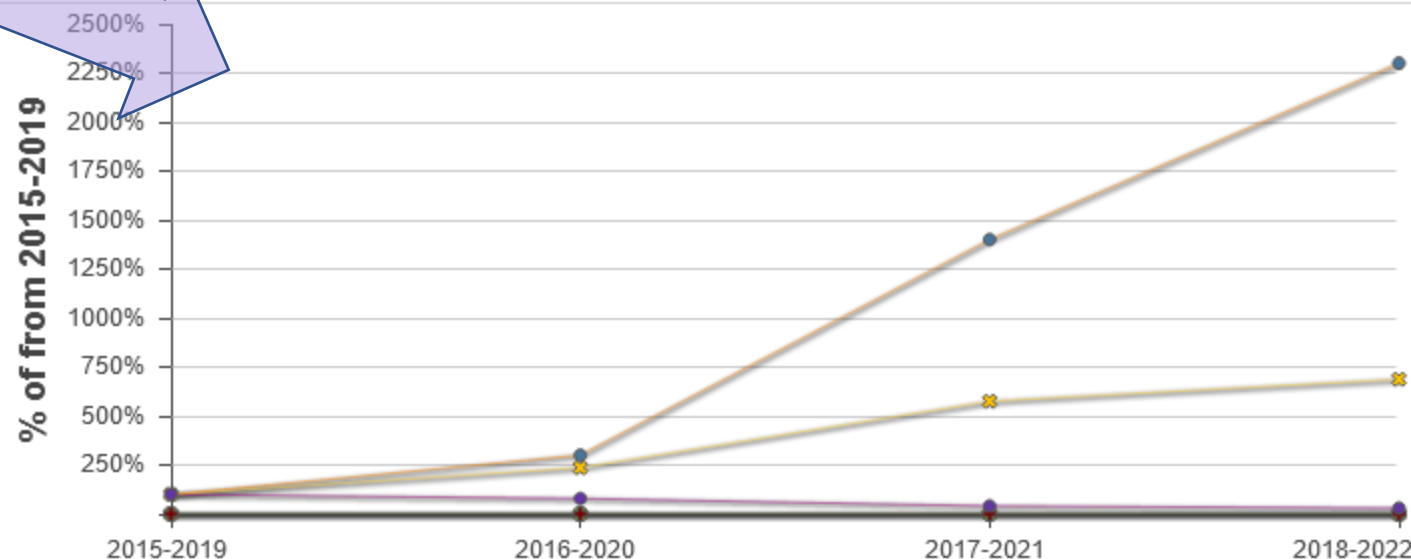
Add Filter »

× CA-ALGINATE GEL-ASSOCIATED MEMBRANE FOULING AFFECTED; MEMBRANE FOULING; METAL-ORGANIC FRAMEWORK (MOF) NANOFILTRATION MEMBRANE; 2D TIO2@MXENE COMPOSITE MEMBRANE; SUBMERGED MEMBRANE BIOREACTOR

Include Results For

- Top Papers
- Top Papers
- Highly Cited Papers
- Hot Papers

Research Fronts: CA-ALGINATE GEL-ASSOCIATED MEMBRANE FOULING AFFECTED; MEMBRANE FOULING; METAL-ORGANIC FRAMEWORK (MOF) NANOFILTRATION MEMBRANE; 2D TIO2@MXENE COMPOSITE MEMBRANE; SUBMERGED MEMBRANE BIOREACTOR



Normalized	2015-2019	2016-2020	2017-2021	2018-2022
Top Papers	100%	300%	1400%	2300%
Citations to Top	100%	236%	575%	687%
Citations per Top	100%	79%	41%	30%

# Papers by Research Field

Citation Trends

Sort By Citations

Customize Documents

1 - 10 of 10

Documents		Times Cited: 163
<p data-bbox="30 615 275 644">Filter Results By ?</p> <p data-bbox="30 658 173 686">Add Filter »</p> <ul style="list-style-type: none"> <li data-bbox="56 701 387 951">× CA-ALGINATE GEL-ASSOCIATED MEMBRANE FOULING AFFECTED; MEMBRANE FOULING; METAL-ORGANIC FRAMEWORK (MOF) NANOFILTRATION MEMBRANE; 2D TIO2@MXENE COMPOSITE MEMBRANE; SUBMERGED MEMBRANE BIOREACTOR</li> </ul> <p data-bbox="30 1001 285 1029">Include Results For</p> <ul style="list-style-type: none"> <li data-bbox="56 1051 387 1079">Top Papers</li> <li data-bbox="56 1093 387 1122">Top Papers</li> <li data-bbox="56 1136 387 1165">Highly Cited Papers</li> <li data-bbox="56 1179 387 1208">Hot Papers</li> </ul>	<p data-bbox="504 486 2135 536">1 <b>A UNIFIED THERMODYNAMIC MECHANISM UNDERLYING FOULING BEHAVIORS OF SOLUBLE MICROBIAL PRODUCTS (SMPS) IN A MEMBRANE BIOREACTOR</b></p> <p data-bbox="570 558 1192 644">By: TENG, JH; ZHANG, MJ; LEUNG, KT; et.al Source: WATER RESEARCH 149: 477-487 FEB 1 2019 Research Fields: ENVIRONMENT/ECOLOGY</p>	Research Front
	<p data-bbox="504 751 2135 786">2 <b>MEMBRANE FOULING CAUSED BY BIOLOGICAL FOAMS IN A SUBMERGED MEMBRANE BIOREACTOR: MECHANISM INSIGHTS</b></p> <p data-bbox="570 801 1123 893">By: WU, MF; CHEN, YF; LIN, HJ; et.al Source: WATER RESEARCH 181: - AUG 15 2020 Research Fields: ENVIRONMENT/ECOLOGY</p>	<p data-bbox="2262 751 2471 779">Times Cited: 138</p> Research Front
	<p data-bbox="504 1001 2135 1051">3 <b>SYNERGISTIC FOULING BEHAVIORS AND MECHANISMS OF CALCIUM IONS AND POLYALUMINUM CHLORIDE ASSOCIATED WITH ALGINATE SOLUTION IN COAGULATION-ULTRAFILTRATION (UF) PROCESS</b></p> <p data-bbox="570 1065 1105 1158">By: LONG, Y; YU, GY; DONG, L; et.al Source: WATER RESEARCH 189: - FEB 1 2021 Research Fields: ENVIRONMENT/ECOLOGY</p>	<p data-bbox="2262 1001 2471 1029">Times Cited: 115</p> Research Front
	<p data-bbox="504 1265 2135 1315">4 <b>INKJET PRINTING OF DOPAMINE FOLLOWED BY UV LIGHT IRRADIATION TO MODIFY MUSSEL-INSPIRED PVDF MEMBRANE FOR EFFICIENT OIL-WATER SEPARATION</b></p> <p data-bbox="570 1336 1284 1393">By: LI, RJ; LI, JY; RAO, LH; et.al Source: JOURNAL OF MEMBRANE SCIENCE 619: - FEB 1 2021</p>	<p data-bbox="2262 1265 2471 1293">Times Cited: 89</p> Research Front

# Part 1

## Identify the must-read papers in your field?

### *Research Fronts & Engineering Fronts*

**In Research Fronts 2022, 110 hot Research Fronts and 55 emerging Research Fronts were identified**



Essential Science Indicators  
(ESI)

Research Fronts  
& Engineering Fronts





# 2022 RESEARCH FRONTS

Institute of Science and Innovation,  
Chinese Academy of Sciences  
The National Science Library,  
Chinese Academy of Sciences  
Clarivate

## Contents

### BACKGROUND AND METHODOLOGY

1. BACKGROUND
2. METHODOLOGY
- 2.1 RESEARCH FRONTS SELECTION
- 2.2 FINAL SELECTION AND INTERPRETATION

### AGRICULTURAL, PLANT AND ANIMAL SCIENCES

1. HOT RESEARCH FRONT
- 1.1 TREND OF THE TOP 10 RESEARCH SCIENCES
- 1.2 KEY HOT RESEARCH FRONT - "In vitro meat"
- 1.3 KEY HOT RESEARCH FRONT - "Ruminant health"
2. EMERGING RESEARCH FRONT
- 2.1 OVERVIEW OF EMERGING RESEARCH SCIENCES
- 2.2 KEY EMERGING RESEARCH FRONT - "Genetic editing in crop"

### ECOLOGY AND ENVIRONMENTAL SCIENCES

1. HOT RESEARCH FRONT
- 1.1 TREND OF THE TOP 10 RESEARCH SCIENCES
- 1.2 KEY HOT RESEARCH FRONT - "Genetic modification in crop"
- 1.3 KEY HOT RESEARCH FRONT - "Ecological restoration"
2. EMERGING RESEARCH FRONT
- 2.1 OVERVIEW OF EMERGING RESEARCH SCIENCES
- 2.2 KEY EMERGING RESEARCH FRONT - "Carbon capture and utilization"

### GEOSCIENCES

1. HOT RESEARCH FRONT
- 1.1 TREND OF THE TOP 10 RESEARCH SCIENCES
- 1.2 KEY HOT RESEARCH FRONT - "Geothermal energy"
- 1.3 KEY HOT RESEARCH FRONT - "Deep-sea mining"
2. EMERGING RESEARCH FRONT
- 2.1 OVERVIEW OF EMERGING RESEARCH SCIENCES
- 2.2 KEY EMERGING RESEARCH FRONT - "Artificial intelligence in geology"

### CLINICAL MEDICINE

1. HOT RESEARCH FRONT
- 1.1 TREND OF THE TOP 10 RESEARCH FRONT
- 1.2 KEY HOT RESEARCH FRONT - "Gene editing in cancer"
- 1.3 KEY HOT RESEARCH FRONT - "AI in diagnosis"
2. EMERGING RESEARCH FRONT
- 2.1 SUMMARY OF EMERGING RESEARCH
- 2.2 KEY EMERGING RESEARCH FRONT - "COVID-19 vaccine against outbreak"

### BIOLOGICAL SCIENCES

1. HOT RESEARCH FRONT
- 1.1 TREND OF THE TOP 10 RESEARCH FRONT
- 1.2 KEY HOT RESEARCH FRONT - "CRISPR-Cas9"
- 1.3 KEY HOT RESEARCH FRONT - "Synthetic biology"
2. EMERGING RESEARCH FRONT
- 2.1 OVERVIEW OF EMERGING RESEARCH
- 2.2 KEY EMERGING RESEARCH FRONT - "Plant-based meat"

### CHEMISTRY AND MATERIALS SCIENCE

1. HOT RESEARCH FRONT
- 1.1 TREND OF THE TOP 10 RESEARCH FRONT
- 1.2 KEY HOT RESEARCH FRONT - "Nanotechnology"
- 1.3 KEY HOT RESEARCH FRONT - "Artificial intelligence in chemistry"
2. EMERGING RESEARCH FRONT
- 2.1 OVERVIEW OF EMERGING RESEARCH
- 2.2 KEY EMERGING RESEARCH FRONT - "Quantum computing"

### PHYSICS

1. HOT RESEARCH FRONT
- 1.1 TREND OF THE TOP 10 RESEARCH FRONT
- 1.2 KEY HOT RESEARCH FRONT - "Quantum computing"
- 1.3 KEY HOT RESEARCH FRONT - "Artificial intelligence in physics"
2. EMERGING RESEARCH FRONT
- 2.1 OVERVIEW OF EMERGING RESEARCH
- 2.2 KEY EMERGING RESEARCH FRONT - "Space exploration"

### ASTRONOMY AND ASTROPHYSICS

1. HOT RESEARCH FRONT
- 1.1 TREND OF THE TOP 10 RESEARCH FRONT
- 1.2 KEY HOT RESEARCH FRONT - "Space exploration"
- 1.3 KEY HOT RESEARCH FRONT - "Artificial intelligence in astronomy"

2. EMERGING RESEARCH FRONT
- 2.1 OVERVIEW OF EMERGING RESEARCH FRONTS IN ASTRONOMY AND ASTROPHYSICS
- 2.2 KEY EMERGING RESEARCH FRONT - "The properties of GW190521 secondary component with 2.6 solar mass"

### MATHEMATICS

1. HOT RESEARCH FRONT
- 1.1 TREND OF THE TOP 10 RESEARCH FRONTS IN MATHEMATICS
- 1.2 KEY HOT RESEARCH FRONT - "Numerical algorithms for high-dimensional partial differential equations based on deep learning"
- 1.3 KEY HOT RESEARCH FRONT - "Data packing of equal-sized spheres in 6 and 24-dimensional spaces"
2. EMERGING RESEARCH FRONT
- 2.1 OVERVIEW OF EMERGING RESEARCH FRONTS IN MATHEMATICS
- 2.2 KEY EMERGING RESEARCH FRONT - "Quantum neural networks for time series forecasting"

### INFORMATION SCIENCE

1. HOT RESEARCH FRONT
- 1.1 TREND OF THE TOP 10 RESEARCH FRONTS IN INFORMATION SCIENCE
- 1.2 KEY HOT RESEARCH FRONT - "Research on deep learning methods for six sense classification"
- 1.3 KEY HOT RESEARCH FRONT - "Research on intelligent embedded learning"
2. EMERGING RESEARCH FRONT
- 2.1 OVERVIEW OF EMERGING RESEARCH FRONTS IN INFORMATION SCIENCE
- 2.2 KEY EMERGING RESEARCH FRONT - "Cognitive Artificial Intelligence (CAI)"

### ECONOMICS, PSYCHOLOGY AND OTHER SOCIAL SCIENCES

1. HOT RESEARCH FRONT
- 1.1 TREND OF THE TOP 10 RESEARCH FRONTS IN ECONOMICS, PSYCHOLOGY AND OTHER SOCIAL SCIENCES
- 1.2 KEY HOT RESEARCH FRONT - "Financial market volatility under the COVID-19 global pandemic"
- 1.3 KEY HOT RESEARCH FRONT - "Research on scientific mapping in the field of economic management based on bibliometric analysis"
2. EMERGING RESEARCH FRONT
- 2.1 SUMMARY OF EMERGING RESEARCH FRONTS IN ECONOMICS, PSYCHOLOGY AND OTHER SOCIAL SCIENCES
- 2.2 KEY EMERGING RESEARCH FRONT - "Studies of COVID-19 vaccination hesitancy and related issues"

### APPENDIX RESEARCH FRONTS: IN SEARCH OF THE STRUCTURE OF SCIENCE

Compilation Committee 137

## Part 1

### Identify the must-read papers in your field?

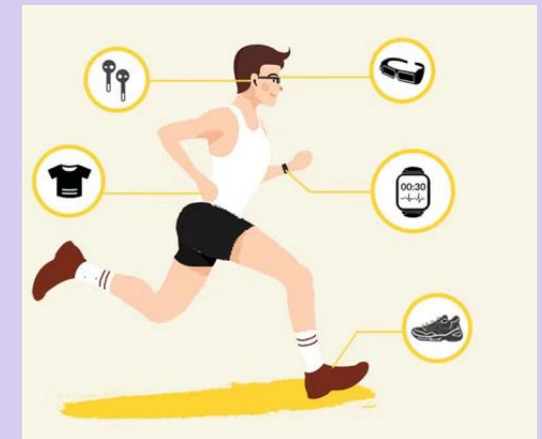
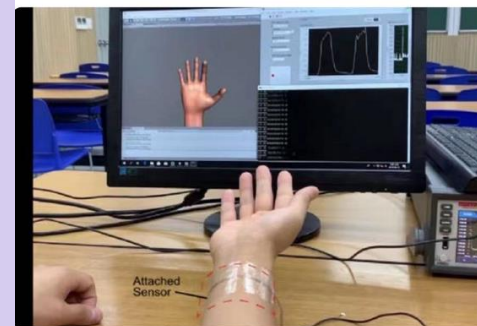
Step 1 Research Frontiers

Step 2 Identify the must-reads

Key Words

For Example: **Research on human activity recognition system using sensors and deep learning**

——From Top 10 Research Fronts in Information Science



## A. Start by Keywords:

provide relevant words as many as possible:

sensors or electronics or devices or chips……

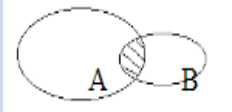

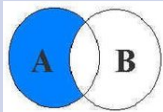
flexible or wearable or on-skin……

“deep learning” or “machine learning”……

<https://dict.cnki.net/index>

<https://wantwords.net/>

<https://www.termonline.cn/index>

Operators	Explanations	Examples
AND	A AND B an intersection to narrow your search scope	Coffee AND Tea Insulin AND Diabetes 
OR	A OR B an union or a collection to expand your search scope	Tumor OR Cancer University OR College 
NOT	A NOT B to exclude the unwanted contents form your findings	Hepatitis B Virus NOT Human Cookies NOT Computer 
Near Operator(N)	A N(1,2,3,4,...) B allow to put a designated number of words between A and B, and the order of A and B <b>can</b> be reversed	female patients female N1 patient: <b>female</b> cardiac <b>patients</b> female N2 patient: <b>female</b> lung cancer <b>patients</b> ....the <b>patients</b> are primarily <b>females</b> ....
Within Operator (W)	A W(1,2,3,4,...)B allow to put a designated number of words between A and B, and the order of A and B <b>cannot</b> be reversed	tax W2 reform

wildcard characters	explanations and examples
*	* is used in different variants of words: e.g. econ* ----economy, economic, economically
?	? is a substitution for <b>just one letter</b> and used in the spelling differences in British and American English: e.g. organi?ation : organization or organisation
#	# is a substitution for <b>more than one letter</b> and used in the spelling differences in British and American English e.g. behavi#: behaviour or behavior
" "	" " is used in fixed phrases e.g. "network security", "global warming" , "international trade"

DOCUMENTS

RESEARCHERS

Search in: Web of Science Core Collection ▾ Editions: Science Citation Index Expanded (SCI-EXPANDED)--1985-present ▾

DOCUMENTS

CITED REFERENCES

STRUCTURE

Topic ▾	Example: oil spill* mediterranean sensor* or chip* or electron* or device*	×	
⊖ And ▾	Topic ▾	Example: oil spill* mediterranean flex* or wearable* or on skin	×
⊖ And ▾	Topic ▾	Example: oil spill* mediterranean "deep learning" or "machine learning"	×

+ Add row

+ Add date range

Advanced Search

× Clear

Search

**4,450** results from Science Citation Index Expanded (SCI-EXPANDED):

Q sensor\* or chip\* or electron\* or device\* (Topic) and flex\* or wearable\* or on skin (Topic) and "deep learning" or "machine learning..."

Analyze Results

Citation Report

Create Alert

Copy query link

Publications You may also like...

Refine results

Search within results...

Filter by Marked List

Quick Filters

- Highly Cited Papers 90
- Hot Papers 5
- Review Article 371
- Early Access 141
- Open Access 2,820
- Enriched Cited References 1,364

Citation Topics Meso

- 4.17 Computer Vision & Graphics 645
- 1.82 Gait & Posture 438
- 4.13 Telecommunications 188
- 2.114 Organic Semiconductors 164
- 1.7 Neuroscanning 132

See all >

Citation Topics Micro

- 4.17.630 Action Recognition 453
- 1.82.263 Falls 301
- 2.114.914 Stretchable Electronics 159
- 4.17.128 Deep Learning 155
- 4.13.807 Internet Of Things 106

See all >

Authors

0/4,450 Add To Marked List Export Sort by: Relevance 1 of 89

1 **The Role of Machine Learning and Deep Learning Approaches for the Detection of Skin Cancer** 69 References

Mazhar, T; Haq, J (-); Goh, LPW  
Feb 2023 | HEALTHCARE 11 (3)

Machine learning (ML) can enhance a dermatologist's work, from diagnosis to customized care. The development of ML algorithms in dermatology has been supported lately regarding links to digital data processing (e.g., electronic medical records, Image Archives, omics), quicker computing and cheaper data storage. This article describes the fundamentals of ML-based implementations, as well as futu ... Show more

Free Full Text from Publisher

Related records

2 **Deep Learning and Machine Learning Techniques of Diagnosis Dermoscopy Images for Early Detection of Skin Diseases** 12 Citations 52 References

Abunadi, I and Senan, EM  
Dec 2021 | ELECTRONICS 10 (24)

Enriched Cited References

With the increasing incidence of severe skin diseases, such as skin cancer, endoscopic medical imaging has become urgent for revealing the internal and hidden tissues under the skin. Diagnostic information to help doctors make an accurate diagnosis is provided by endoscopy devices. Nonetheless, most skin diseases have similar features, which make it challenging for dermatologists to diagnose pa ... Show more

Free Full Text from Publisher

Related records

3 **Printed, Wireless, Soft Bioelectronics and Deep Learning Algorithm for Smart Human-Machine Interfaces** 25 Citations 40 References

Kwon, YT; Kim, H (-); Yeo, WH  
Nov 4 2020 | ACS APPLIED MATERIALS & INTERFACES 12 (44) , pp.49398-49406

Recent advances in flexible materials and wearable electronics offer a noninvasive, high-fidelity recording of biopotentials for portable healthcare, disease diagnosis, and machine interfaces. Current device-manufacturing methods, however, still heavily rely on the conventional cleanroom microfabrication that requires expensive, time-consuming, and complicated processes. Here, we introduce an a ... Show more

Full Text at Publisher

Related records



## Part 1

### Identify the must-read papers in your field?

Step 1 Research Frontiers

Step 2 The Papers We Want

Key Words

A Researcher/Group

Prof. Chen Xiaodong ( Nanyang Technological University , Singapore)

Research Field:

Material Science

Flexible Electronics

sensors



DOCUMENTS

RESEARCHERS

Search in: **Web of Science Core Collection** ▾ Editions: **Science Citation Index Expanded (SCI-EXPANDED)--1985-present** ▾

DOCUMENTS

CITED REFERENCES

STRUCTURE

Author ▾

Example: O'Brian C\* OR OBrian C\*  
CHEN XIAODONG

AZ X

Search

All Fields

Topic

Title

Author

Publication Titles

Year Published

Affiliation

Funding Agency

Publisher

Author

Author

Searches these fields: Authors and Group Author. For Authors, enter the last name first followed by a space and the author's initials.

Examples:  
Johnson m\*

X Clear

Search

ized homepage dashboard.

Sign in to access

2,026 results from Web of Science Core Collection for:

Q CHEN XIAODONG (Author)

Analyze Results Citation Report Create Alert

- Chen, Xiaodong 171
  - Yu, Junsheng 89
- See all > Exclude Refine

- Publication Years
- 2023 47
  - 2022 225
  - 2021 173
  - 2020 206
  - 2019 176
- See all > Exclude Refine

- Document Types
- Article 1,478
  - Review Article 70
  - Meeting Abstract 41
  - Editorial Material 31
  - Early Access 25
- See all > Exclude Refine

- Web of Science Categories
- Materials Science Multidisciplinary 386
  - Chemistry Multidisciplinary 350
  - Chemistry Physical 299
  - Physics Applied 287
  - Nanoscience Nanotechnology 275
- See all > Exclude Refine

- Affiliations
- NANYANG TECHNOLOGICAL UNIVERSITY 340
  - NANYANG TECHNOLOGICAL UNIVERSITY ... 340
  - CHINESE ACADEMY OF SCIENCES 194

4 **Salt-Triggered Adaptive Dissociation Coating with Dual Effect of Antibacteria and Anti-Multiple Encrustations in Urological Devices**

[Yu, H; Shi, HC; \(...\); Chen, XD](#)

Mar 2023 (Early Access) | [ADVANCED HEALTHCARE MATERIALS](#)

Bacterial infections and multiple encrustations are life-threatening complications in patients implanted with urological devices. Limited by time-consuming procedures and substrate dependence, it is difficult to simultaneously prevent the aforementioned complications. Herein, is reported the design of a salt-triggered chondroitin sulfate complex (CS/SI-N+) coating with adaptive dissociation, wh ... [Show more](#)

58 References

[Full Text at Publisher](#) ... [Related records](#)

5 **Spatiotemporal evolution and influencing factors of provincial tourism ecological security in China**

[Zheng, X; Yang, ZP; \(...\); Wang, CR](#)

Apr 2023 | Mar 2023 (Early Access) | [ECOLOGICAL INDICATORS](#) 148

The scientific evaluation of tourism ecological security (TES) is vital for promoting sustainable tourism development and ecological environmental protection. Using the Driver-Pressure-State-Impact-Response model, this study constructed a theoretical framework for evaluating TES. An improved Technique for Order Preference by Similarity to Ideal Solution method, spatial autocorrelation, a stand ... [Show more](#)

52 References

[Free Full Text from Publisher](#) ... [Related records](#)

6 **Application of periodic boundaries in freight train aerodynamic performance simulations**

[Liang, GP; Liu, TH; \(...\); Chen, XD](#)

May 1 2023 | Mar 2023 (Early Access) | [ALEXANDRIA ENGINEERING JOURNAL](#) 70, pp.315-329

The length of long marshalling freight train and the non-streamline shape of wagon lead to more difficulties in simulating the aerodynamic performances. To simplify the simulation process of long freight trains and conserve computational resources, periodic boundary conditions and the improved delayed detached eddy simulation based on the shear-stress transport k-x turbulence model were employe ... [Show more](#)

29 References

[View full text](#) ... [Related records](#)

7 **Corri2P: Deep Image-to-Point Cloud Registration via Dense Correspondence**

[Ren, SY; Zeng, YM; \(...\); Chen, XD](#)

Mar 2023 | [IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY](#) 33 (3), pp.1198-1208

Motivated by the intuition that the critical step of localizing a 2D image in the corresponding 3D point cloud is establishing 2D-3D correspondence between them, we propose the first feature-based dense correspondence framework for addressing the challenging problem of 2D image to 3D point

56 References

**Part 1**  
Identify the must-read papers in your field?

Step 1 Research Frontiers

Step 2 The Papers We Want

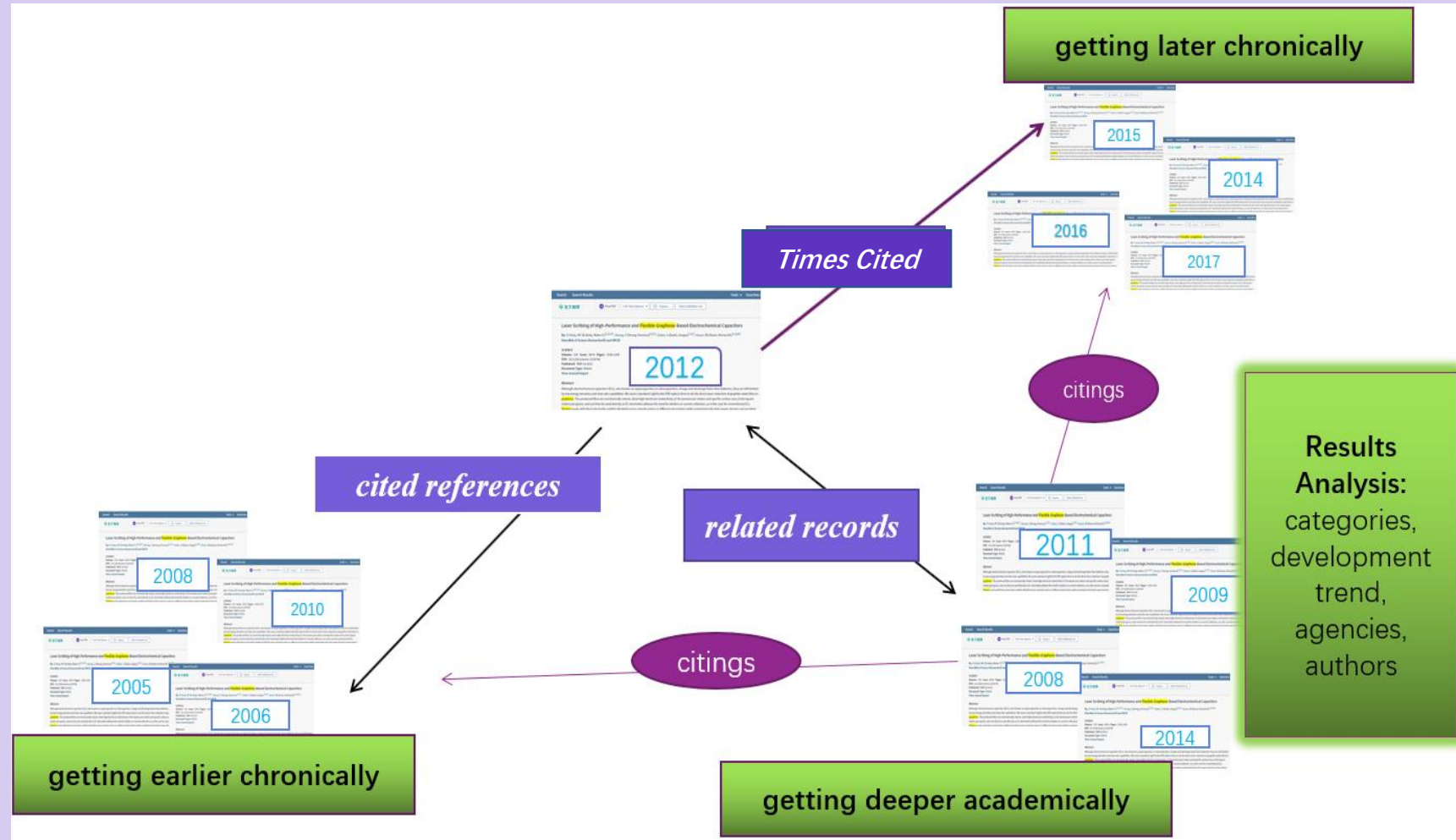
Key Words

A Researcher/Group

A Specific Article—Citation Index

Citation Network

**Uniqueness of Clarivate Core Collection: Citation Index**



# Part 1

## Identify the must-read papers in your field?

Step 1 Research Frontiers

Step 2 The Papers We Want

Key Words

A Researcher/Group

A Specific Article—Citation Index

Citation Network

### Generalized extreme learning machine autoencoder and a new deep neural network

By: Sun, K (Sun, Kai) [1]; Zhang, JS (Zhang, Jiangshe) [1]; Zhang, CX (Zhang, Chunxia) [1]; Hu, JY (Hu, Junying) [1]

NEUROCOMPUTING

Volume: 230 Page: 374-381  
DOI: 10.1016/j.neucom.2016.12.027  
Published: MAR 22 2017  
Indexed: 2017-03-22  
Document Type: Article

#### Abstract:

Extreme learning machine (ELM) is an efficient learning algorithm of training single layer feed-forward neural networks (SLFNs). With the development of unsupervised learning in recent years, integrating ELM with autoencoder has become a new perspective for extracting feature using unlabeled data. In this paper, we propose a new variant of extreme learning machine autoencoder (ELM-AE) called generalized extreme learning machine autoencoder (GELM-AE) which adds the manifold regularization to the objective of ELM-AE. Some experiments carried out on real-world data sets show that GELM-AE outperforms some state-of-the-art unsupervised learning algorithms, including k-means, laplacian embedding (LE), spectral clustering (SC) and ELM-AE. Furthermore, we also propose a new deep neural network called multilayer generalized extreme learning machine autoencoder (ML-GELM) by stacking several GELM-AE to detect more abstract representations. The experiments results show that ML-GELM outperforms ELM and many other deep models, such as multilayer ELM autoencoder (ML-ELM), deep belief network (DBN) and stacked autoencoder (SAE). Due to the utilization of ELM, ML-GELM is also faster than DBN and SAE.

#### Keywords

**Author Keywords:** Extreme learning machine; Generalized extreme learning machine autoencoder; Manifold regularization; Deep neural network; Multilayer generalized extreme learning machine autoencoder

**Keywords Plus:** FACE RECOGNITION; DIMENSIONALITY

#### Author Information

**Corresponding Address:** Zhang, Jiangshe (corresponding author)

Xi An Jiao Tong Univ, Sch Math & Stat, Xian, Peoples R China

#### Addresses:

<sup>1</sup> Xi An Jiao Tong Univ, Sch Math & Stat, Xian, Peoples R China

#### Citation Network

In Web of Science Core Collection

101 Citations

Create citation alert

111 Times Cited in All Databases

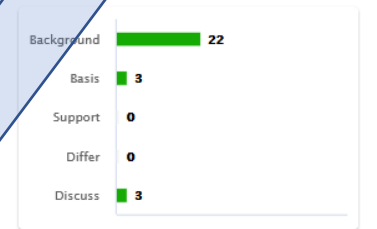
26 Cited References

VIEW RELATED RECORDS

See more times cited

#### Citing items by classification

Breakdown of how this article has been mentioned, based on available citation context data and snippets from 24 citing item(s).



73,603 results related to:

Generalized extreme learning machine autoencoder and a new deep neural network

Copy query link

#### Refine results

Search within results...

#### Filter by Marked List

#### Quick Filters

- Highly Cited Papers 1,466
- Hot Papers 41
- Review Article 2,330
- Early Access 1,180
- Open Access 28,040
- Enriched Cited References 11,207

#### Citation Topics Meso

- 4.17 Computer Vision & Graphics 21,512
- 4.61 Artificial Intelligence & Machine Le... 8,141
- 4.48 Knowledge Engineering & Represe... 3,630
- 4.101 Security, Encryption & Encoding 1,650
- 1.7 Neuroscanning 1,583

0/73,603

Add To Marked List

Export

Sort by: Relevance

1 of 1,473

1 A new deep neural network based on a stack of single-hidden-layer feedforward neural networks with randomly fixed hidden neurons

Hu, JY; Zhang, JS; (-); Wang, J

Jan 1 2016 | NEUROCOMPUTING 171 . pp.63-72

Single-hidden layer feedforward neural networks with randomly fixed hidden neurons (RHN-SLFNs) have been shown, both theoretically and experimentally, to be fast and accurate. Besides, it is well known that deep architectures can find higher-level representations, thus can potentially capture relevant higher-level abstractions. But most of current deep learning methods require a long time to so

Full Text at Publisher

21 Citations

25 References (10 shared)

Related records

2 Non-iterative and Fast Deep Learning: Multilayer Extreme Learning Machines

Zhang, J; Li, Y; (-); Zhang, ZQ

Sep 2020 | JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS 357 (13) . pp.8925-8955

In the past decade, deep learning techniques have powered many aspects of our daily life, and drawn ever-increasing research interests. However, conventional deep learning approaches, such as deep belief network (DBN), restricted Boltzmann machine (RBM), and convolutional neural network (CNN), suffer from time-consuming training process due to fine-tuning of a large number of parameters and the

Free Accepted Article From Repository View full text

56 Citations

141 References (9 shared)

Related records

**Part 1**  
**Identify the must-read papers in your field?**

Step 1 Research Frontiers

Step 2 The Papers We Want

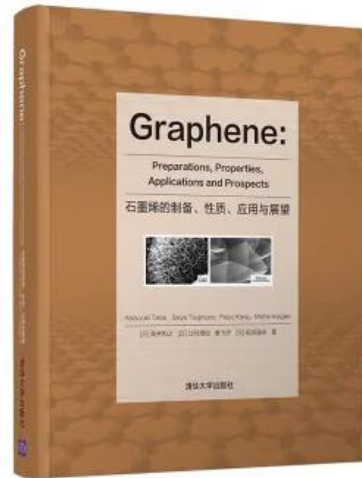
Key Words

A Researcher/Group

A Specific Article—Citation Index

Citation Network

Cited References



Start from any of a known item:

- a journal article
- book
- patent
- work of art
- .....

DOCUMENTS	RESEARCHERS
Search in: <b>Web of Science Core Collection</b> Editions: <b>Science Citation Index Expanded (SCI-EXPANDED)--1985-present</b>	
DOCUMENTS	<b>CITED REFERENCES</b>
<input type="text" value="Graphene: Preparations, properties, applications and prospects"/>	
<input type="text" value="Takai, K"/>	
<input type="button" value="+ Add row"/>	<input type="button" value="+ Add date range"/>
<input type="button" value="x Clear"/> <input type="button" value="Search"/>	



<input checked="" type="checkbox"/>	Cited Author	Cited Work	Title	Year	Volume	Issue	Page	Identifier	Citing Articles
<input checked="" type="checkbox"/>	<a href="#">Takai, K.; (...); Inagaki, M.</a>	GRAPHENE: PREPARATIONS, PROPERTIES, APPLICATIONS AND PROSPECTS	Graphene: Preparations, Properties, Applications and Prospects	2020			1-607		2
<input checked="" type="checkbox"/>	<a href="#">Takai, K.; (...); Inagaki, M.</a>	GRAPHENE PREPARATION		2020					
<input checked="" type="checkbox"/>	<a href="#">Takai, K.; (...); Tsujimura, S.</a>	GRAPHENE PREPARATION		2019			620		
<input checked="" type="checkbox"/>	<a href="#">Takai, K.; (...); Inagaki, M.</a>	GRAPHENE PREPARATION		2019					
<input checked="" type="checkbox"/>	<a href="#">Takai, K.; (...); Inagaki, M.</a>	GRAPHENE: PREPARATIONS, PROPERTIES, APPLICATIONS AND PROSPECTS	Introduction	2020			1-37	10.101	
<input checked="" type="checkbox"/>	<a href="#">Takai, K.; (...); Inagaki, M.</a>	GRAPHENE: PREPARATIONS, PROPERTIES, APPLICATIONS AND PROSPECTS	Preparation of graphene	2020			39-171	10.101	

[Back to list](#)
**11 citing articles from the Web of Science Core Collection for:**

Q: Graphene: Preparations, properties, applications and prospects (Cited Work) and Takai, K (Cited Author)

[Analyze Results](#)
[Citation Report](#)
[Create Alert](#)
[Copy query link](#)

Refine results

Search within results...

Filter by Marked List

Quick Filters

- Review Article 2
- Open Access 5
- Enriched Cited References 3

Citation Topics Meso

- 2.76.2d Materials 3
- 1.105 Strokes 1
- 1.129 Back Pain 1
- 1.7 Neuroscanning 1
- 4.18 Power Systems & Electric Vehicles 1

Citation Topics Micro

- 2.76.39 Graphene 3
- 1.105.429 Carotid Endarterectomy 1
- 1.129.175 Intervertebral Disc 1
- 1.7.603 Brain Computer Interface 1
- 4.18.334 Dc-dc Converter 1

Authors

- Show Researcher Profiles
- Martinek, Radek 1

 0/11

[Add To Marked List](#)
[Export](#)

Sort by: Relevance

&lt; 1 of 1 &gt;

 1 Nanoarchitectonics effect of few-layer graphene on the properties of cement mortar

[He, W.; Liang, J.W.; Zhou, J.S.](#)

 Sep 26 2022 | Aug 2022 (Early Access) | [CONSTRUCTION AND BUILDING MATERIALS](#) 349

 36  
References

To further study graphene/mortar composites, the effects of few-layer graphene (FLG) on the fluidity, me-chanical properties (compressive strength and flexural strength) and electrical properties of cement mortar were systematically studied in this paper, through SEM, XRD and EDS to analyze the mechanism. Meanwhile, AFM, Raman and SEM were used to characterize the layer number and structure of ... [Show more](#)

[Full Text at Publisher](#)
[Related records](#)
 2 Thermal Backbone Curves of Nanocomposite Beams Reinforced with Graphene Platelet on Elastic Foundation

[Davoudvand, A.; Arvin, H. and Kiani, Y.](#)

 Oct 2022 | May 2022 (Early Access) | [INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS](#) 22 (13)

 3  
Citations

 43  
References

In this paper, an examination on the backbone curves of nanocomposite beams reinforced with graphene platelet (GPL) on elastic foundation exposed to a temperature increment is accomplished. By means of the Hamilton principle and in the framework of a third-order shear deformation beam theory, i.e. Reddy's beam theory (RBT), along with the von Karman nonlinear strains, the nonlinear motion equat ... [Show more](#)

[View full text](#)
[Related records](#)
 3 Study on the Effect of Deposited Graphene Oxide on the Fatigue Life of Austenitic Steel 1.4541 in Different Temperature Ranges

[Naslowaska, B.; Bopdanowicz, Z.; \(...\); Mierczyk, Z.](#)

 Jan 2022 | [MATERIALS](#) 15 (1)

 17  
References

[Enriched Cited References](#)

This paper presents the effect of deposited graphene oxide coating on fatigue life of austenitic steel 1.4541 at 20 degrees C, 100 degrees C, and 200 degrees C. The study showed a decrease in the fatigue life of samples with a deposited graphene oxide layer in comparison with reference samples at 20 degrees C and 100 degrees C. However, an increase in fatigue life of samples with a deposited gr ... [Show more](#)

[Free Full Text from Publisher](#)
[Related records](#)



[Back to list](#)

## 11 citing articles from the Web of Science Core Collection for:

Graphene: Preparations, properties, applications and prospects (Cited Work) and Takai, K (Cited Author)

[Analyze Results](#)
[Citation Report](#)
[Create Alert](#)
[Copy query link](#)

### Refine results

Filter by Marked List

#### Quick Filters

- Review Article 2
- Open Access 5
- Enriched Cited References 3

#### Citation Topics Meso

- 2.76 2d Materials 3
- 1.105 Strokes 1
- 1.129 Back Pain 1
- 1.7 Neuroscanning 1
- 4.18 Power Systems & Electric Vehicles 1

#### Citation Topics Micro

- 2.76.39 Graphene 3
- 1.105.429 Carotid Endarterectomy 1
- 1.129.175 Intervertebral Disc 1
- 1.7.603 Brain Computer Interface 1
- 4.18.334 Dc-dc Converter 1

 0/11

[Add To Marked List](#)
[Export](#)

Sort by: Citations: highest first

< 1 of 1 >

 1

### Advances in Drug Delivery Nanosystems Using Graphene-Based Materials and Carbon Nanotubes



[Jampilek, J](#) and [Kralova, K](#)

Mar 2021 | [MATERIALS](#) 14 (5)

Carbon is one of the most abundant elements on Earth. In addition to the well-known crystallographic modifications such as graphite and diamond, other allotropic carbon modifications such as graphene-based nanomaterials and carbon nanotubes have recently come to the fore. These carbon nanomaterials can be designed to help deliver or target drugs more efficiently and to innovate therapeutic app... [Show more](#)

[Free Full Text from Publisher](#)

42

Citations

300

References

[Related records](#)

 2

### Summary of over Fifty Years with Brain-Computer Interfaces-A Review



[Kawala-Stemiuk, A](#); [Browarska, N](#); (-); [Gorzalanczyk, E](#)

Jan 2021 | [BRAIN SCIENCES](#) 11 (1)

Over the last few decades, the Brain-Computer Interfaces have been gradually making their way to the epicenter of scientific interest. Many scientists from all around the world have contributed to the state of the art in this scientific domain by developing numerous tools and methods for brain signal acquisition and processing. Such a spectacular progress would not be achievable without accompa... [Show more](#)

[Free Full Text from Publisher](#)

35

Citations

306

References

[Related records](#)

 3

### Laser-induced reduced-graphene-oxide micro-optics patterned by femtosecond laser direct writing



[Low, M](#); [Lee, H](#); (-); [Kim, Y](#)

Oct 1 2020 | [APPLIED SURFACE SCIENCE](#) 526

Direct laser writing has emerged as a promising technology for facile and cost-effective single-step manufacturing of laser-induced reduced-graphene-oxide (LIRGO). Since LIRGO's optical properties can be controlled during photoreduction process, laser-patterned micro-optics can work as light-weight diffractive optical elements over conventional bulk refractive optics. Here, we present ultra-thi... [Show more](#)

[Free Accepted Article From Repository](#) [View full text](#)

13

Citations

53

References

[Related records](#)

## **Part 2    Efficient Reading of Papers**

# Part 2 Efficient Reading of Papers

—Must-reads Only

## A. Reviews

**4,450 results from Science Citation Index Expanded (SCI-EXPANDED):**

Q sensor\* or chip\* or electron\* or device\* (Topic) and flex\* or wearable\* or on skin (Topic) and "deep learning" or "machine learning..." [Analyze Results](#) [Citation Report](#) [Create Alert](#)

[Copy query link](#)

Publications You may also like...

Refine results

Search within results...

Filter by Marked List

Quick Filters

- Highly Cited Papers 90
- Hot Papers 5
- Review Article 371
- Early Access 141
- Open Access 2,820
- Enriched Cited References 1,364

[Exclude](#) [Refine](#)

Citation Topics Meso

- 4.17 Computer Vision & Graphics 645
- 1.82 Gait & Posture 438
- 4.13 Telecommunications 188
- 2.114 Organic Semiconductors 164
- 1.7 Neuroscanning 132

[See all >](#) [Exclude](#) [Refine](#)

Citation Topics Micro

- 4.17.630 Action Recognition 453
- 1.82.263 Falls 301
- 2.114.914 Stretchable Electronics 159
- 4.17.128 Deep Learning 155
- 4.13.807 Internet Of Things 106

[See all >](#) [Exclude](#) [Refine](#)

0/4,450 [Add To Marked List](#) [Export](#) Sort by: Relevance < 1 of 89 >

1  [The Role of Machine Learning and Deep Learning Approaches for the Detection of Skin Cancer](#) 69 References  
[Mazhar, T; Haq, J; \(-\); Goh, LPW](#)  
Feb 2023 | HEALTHCARE 11 (3)  
Machine learning (ML) can enhance a dermatologist's work, from diagnosis to customized care. The development of ML algorithms in dermatology has been supported lately regarding links to digital data processing (e.g., electronic medical records, Image Archives, omics), quicker computing and cheaper data storage. This article describes the fundamentals of ML-based implementations, as well as futu ... [Show more](#)  
[Free Full Text from Publisher](#) [Related records](#)

2  [Deep Learning and Machine Learning Techniques of Diagnosis Dermoscopy Images for Early Detection of Skin Diseases](#) 12 Citations 52 References  
[Abunadi, J and Senan, EM](#)  
Dec 2021 | ELECTRONICS 10 (24)  
[Enriched Cited References](#)  
With the increasing incidence of severe skin diseases, such as skin cancer, endoscopic medical imaging has become urgent for revealing the internal and hidden tissues under the skin. Diagnostic information to help doctors make an accurate diagnosis is provided by endoscopy devices. Nonetheless, most skin diseases have similar features, which make it challenging for dermatologists to diagnose pa ... [Show more](#)  
[Free Full Text from Publisher](#) [Related records](#)


3  [Printed, Wireless, Soft Bioelectronics and Deep Learning Algorithm for Smart Human-Machine Interfaces](#) 25 Citations 40 References  
[Kwon, YT; Kim, H; \(-\); Yeo, WH](#)  
Nov 4 2020 | ACS APPLIED MATERIALS & INTERFACES 12 (44) , pp.49398-49406  
Recent advances in flexible materials and wearable electronics offer a noninvasive, high-fidelity recording of biopotentials for portable healthcare, disease diagnosis, and machine interfaces. Current device-manufacturing methods, however, still heavily rely on the conventional cleanroom microfabrication that requires expensive, time-consuming, and complicated processes. Here, we introduce a ... [Show more](#)  
[Full Text at Publisher](#) [Related records](#)

Analyze Results

Citation Report

 Create Alert

Refined By: Document Types: Review Article X Clear all

 Copy query link

Publications

You may also like...

## Refine results



## Filter by Marked List

## Quick Filters

-  Highly Cited Papers 21
-  Hot Papers 2
-  Review Article 371
-  Early Access 11
-  Open Access 279

## Citation Topics Meso

- 1.82 Gait & Posture 30
- 4.17 Computer Vision & Graphics 29
- 1.44 Nutrition & Dietetics 14
- 1.94 Cardiac Arrhythmia 14
- 4.13 Telecommunications 14

See all &gt;

## Citation Topics Micro

- 1.82.263 Falls 23
- 4.17.630 Action Recognition 20
- 1.94.1263 Ecg 11
- 2.114.914 Stretchable Electronics 11
- 1.44.1069 Sibutramine 9

See all &gt;













0/371

Add To Marked List

Export ▾

Sort by: Citations: highest first ▾

&lt; 1 of 8 &gt;

- |                            |  |   |
|----------------------------|--|---|
| <input type="checkbox"/> 1 | <p><b>Constructing high-dimensional neural network potentials: A tutorial review</b></p> <p> <a href="#">Behler_J</a></p> <p> Aug 15 2015   <a href="#">INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY</a> 115 (16) , pp.1032-1050</p> <p> A lot of progress has been made in recent years in the development of atomistic potentials using <b>machine learning</b> (ML) techniques. In contrast to most conventional potentials, which are based <b>on</b> physical approximations and simplifications to derive an analytic functional relation between the atomic configuration and the potential-energy, ML potentials rely <b>on</b> simple but very <b>flexible</b> mathematic ... <a href="#">Show more</a></p> <p> <a href="#">Free Full Text From Publisher</a> ...</p>   | <p>426<br/>Citations</p> <hr/> <p>112<br/>References</p> <hr/> <p><a href="#">Related records</a></p> |
| <input type="checkbox"/> 2 | <p><b>Activity identification using body-mounted <b>sensors</b>-a review of classification techniques</b></p> <p> <a href="#">Preece_SJ; Goulernas_JY; (...); Crompton_B</a></p> <p> Apr 2009   <a href="#">PHYSIOLOGICAL MEASUREMENT</a> 30 (4) , pp.R1-R33</p> <p> With the advent of miniaturized sensing technology, which can be body-worn, it is now possible to collect and store data <b>on</b> different aspects of human movement under the conditions of free living. This technology has the potential to be used in automated activity profiling systems which produce a continuous record of activity patterns over extended periods of time. Such activity profiling syste ... <a href="#">Show more</a></p> <p> <a href="#">Free Published Article From Repository</a> <a href="#">Full Text at Publisher</a> ...</p>      | <p>389<br/>Citations</p> <hr/> <p>151<br/>References</p> <hr/> <p><a href="#">Related records</a></p> |
| <input type="checkbox"/> 3 | <p><b><b>Deep learning</b> algorithms for human activity recognition using mobile and <b>wearable sensor</b> networks: State of the art and research challenges</b></p> <p> <a href="#">Nweke_HF; Teh_YW; (...); Alo_UR</a></p> <p> Sep 1 2018   <a href="#">EXPERT SYSTEMS WITH APPLICATIONS</a> 105 , pp.233-261</p> <p> Human activity recognition systems are developed as part of a framework to enable continuous monitoring of human behaviours in the area of ambient assisted living, sports injury detection, elderly care, rehabilitation, and entertainment and surveillance in smart home environments. The extraction of relevant features is the most challenging part of the mobile and <b>wearable sensor</b>-based human acti ... <a href="#">Show more</a></p> <p> <a href="#">Full Text at Publisher</a> ...</p> | <p>369<br/>Citations</p> <hr/> <p>268<br/>References</p> <hr/> <p><a href="#">Related records</a></p> |

## Reviews matter because:

- Leading Researchers in a certain field
- Based on large quantities of research findings
- provide comprehensive overviews of a subject
- identify problems



# Part 2

## Efficient Reading of Papers

### —Must-reads Only

A. Reviews

B. Highlighted Papers

highest citations

highly cited Papers

hot papers

4,450 results from Science Citation Index Expanded (SCI-EXPANDED):

Q sensor\* or chip\* or electron\* or device\* (Topic) and flex\* or wearable\* or on skin (Topic) and "deep learning" or "machine learning" ... Analyze Results Citation Report Create Alert

Copy query link

Publications You may also like...

Refine results

Search within results...

Filter by Marked List

Quick Filters

- Highly Cited Papers 90
- Hot Papers 5
- Review Article 371
- Early Access 141
- Open Access 2,820
- Enriched Cited References 1,364

Citation Topics Micro

0/4,450 Add To Marked List Export

Sort by: Citations: highest first 1 of 89

1 A Survey on Human Activity Recognition using Wearable Sensors 1,440 Citations 80 References

Lara, OD and Labrador, MA

2013 | IEEE COMMUNICATIONS SURVEYS AND TUTORIALS 15 (3), pp.1192-1209

Providing accurate and opportune information on people's activities and behaviors is one of the most important tasks in pervasive computing. Innumerable applications can be visualized, for instance, in medical, security, entertainment, and tactical scenarios. Despite human activity recognition (HAR) being an active field for more than a decade, there are still key aspects that, if addressed, wo ... Show more

Full Text at Publisher

Related records

2 Deep Convolutional and LSTM Recurrent Neural Networks for Multimodal Wearable Activity Recognition 1,221 Citations 46 References

Ordonez, FJ and Roggen, D

Jan 2016 | SENSORS 16 (1)

on (HAR) tasks have traditionally been solved using engineered features obtained by heuristic processes. Current research convolutional neural networks are suited to automate feature extraction from raw sensor inputs. However, human activities are ces of motor movements, and capturing this temporal dynamics is fundamental for succ ... Show more

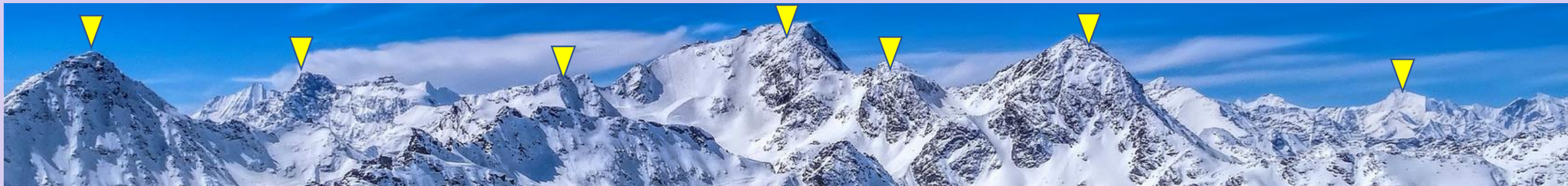
Full Text at Publisher

Related records

3 Density functionals for surface science: Exchange-correlation model development with Bayesian error estimation 939 Citations 133 References

Wellendorff, J; Lundgaard, KT; (...); Jacobsen, KW

JUN 27 2012 | PHYSICAL REVIEW B 85 (23)



# Part 2

## Efficient Reading of Papers

### —Must-reads Only

A. Reviews

B. Highlighted Papers

C. Multi-Dimensional Analysis

Analyze Results

4,450 results from Science Citation Index Expanded (SCI-EXPANDED):

sensor\* or chip\* or electron\* or device\* (Topic) and flex\* or wearable\* or on skin (Topic) and "deep learning" or "machine learning" (Topic)

Analyze Results

Citation Report

Create Alerts

Copy query link

Publications

You may also like...

Analyze Results

Refine results

Search within results...

Filter by Marked List

Quick Filters

- Highly Cited Papers 90
- Hot Papers 5
- Review Article 371
- Early Access 141
- Open Access 2,820
- Enriched Cited References 1,364

0/4,450

Add To Marked List

Export

Sort by: Citations: highest first

1 of 89

1 A Survey on Human Activity Recognition using Wearable Sensors

1,440

Citations



Lara, OD and Labrador, MA

2013 | IEEE COMMUNICATIONS SURVEYS AND TUTORIALS 15 (3), pp.1192-1209

80

References

Providing accurate and opportune information on people's activities and behaviors is one of the most important tasks in pervasive computing. Innumerable applications can be visualized, for instance, in medical, security, entertainment, and tactical scenarios. Despite human activity recognition (HAR) being an active field for more than a decade, there are still key aspects that, if addressed, wo ... Show more

Full Text at Publisher

Related records

2 Deep Convolutional and LSTM Recurrent Neural Networks for Multimodal Wearable Activity Recognition

1,221

Citations



Ordonez, FJ and Roggen, D

Authors

Publication Years

Document Types

Web of Science Categories

Affiliations

Publication Titles

Publishers

Funding Agencies

Grant numbers

Open Access

Editorial Notices

Editors

Group Authors

Research Areas

Countries/Regions

Languages

Conference Titles

Book Series Titles

Web of Science Index

## Analyze Results——discover trends across a certain field

**Who are the prolific authors in my field?**

**Which institutions are publishing research in my field?**

**Which journals publish papers in my field?**

**Which agencies have funded research?**

Authors

Publication Years

Document Types

Web of Science  
Categories

Affiliations

Publication Titles

Publishers

Funding Agencies

Grant numbers

Open Access

Editorial Notices

Editors

Group Authors

Research Areas

Countries/Regions

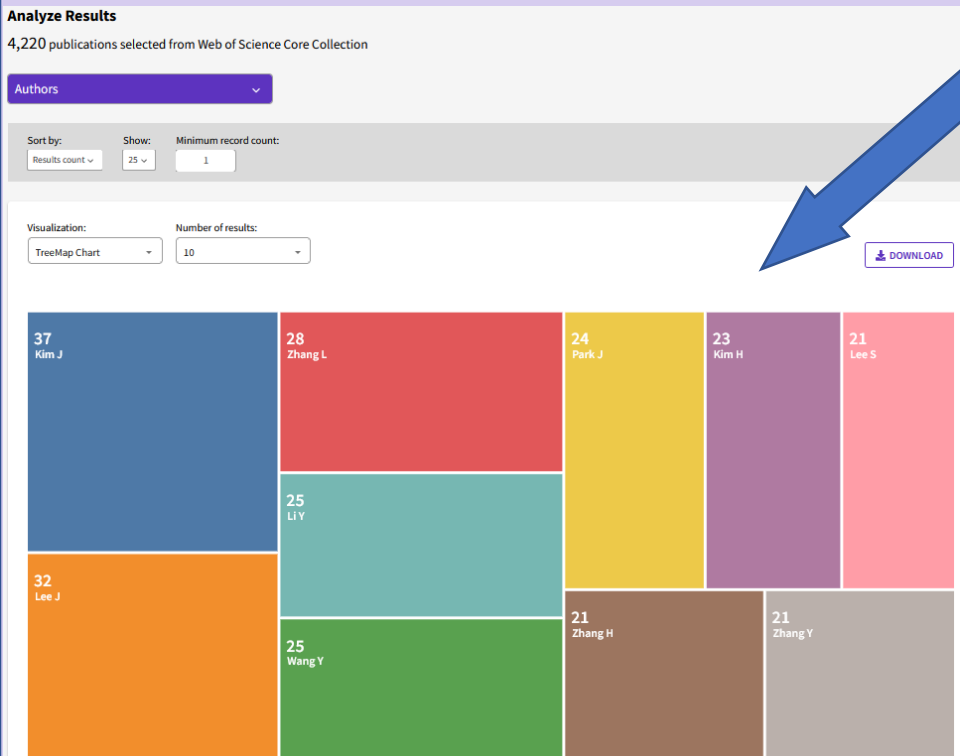
Languages

Conference Titles

Book Series Titles


Web of Science Index



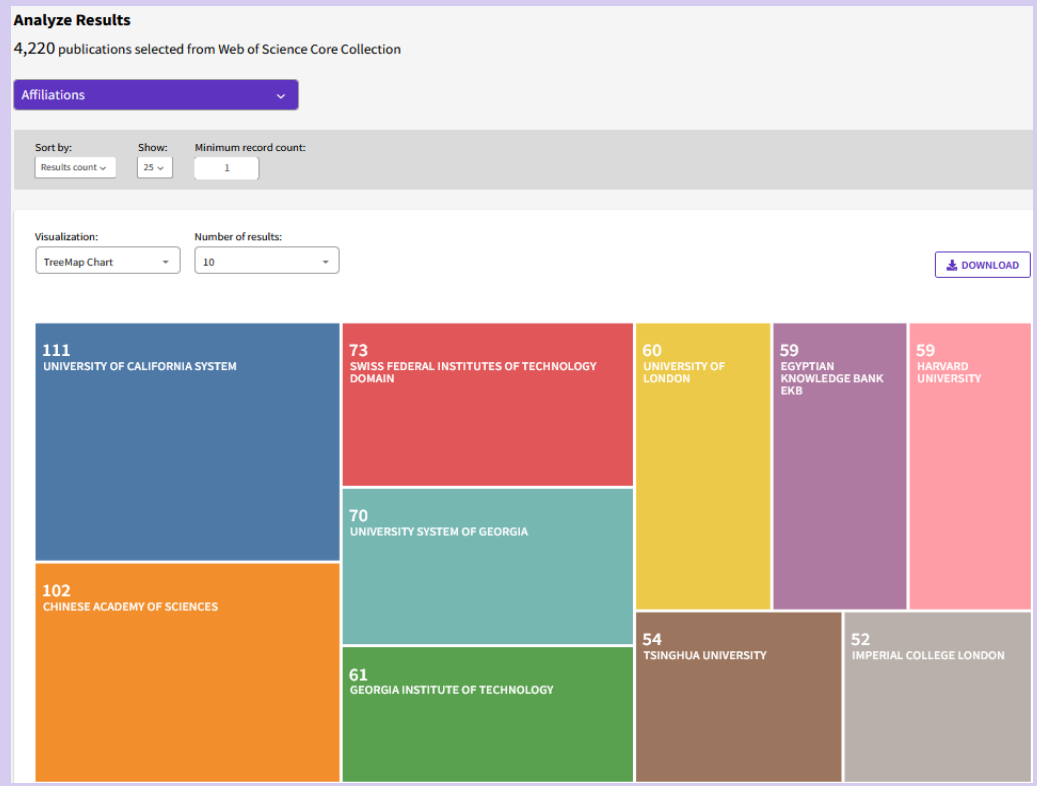


- Authors
- Publication Years
- Document Types
- Web of Science Categories
- Affiliations
- Publication Titles
- Publishers
- Funding Agencies
- Grant numbers
- Open Access



**Affiliations:**   
 Find the productive institutions in your field  
 opportunities of further work / study

.....



**Authors:** Identify the highly productive authors in a certain field  
 appropriate peer reviewers in your fields  
 potential collaborators

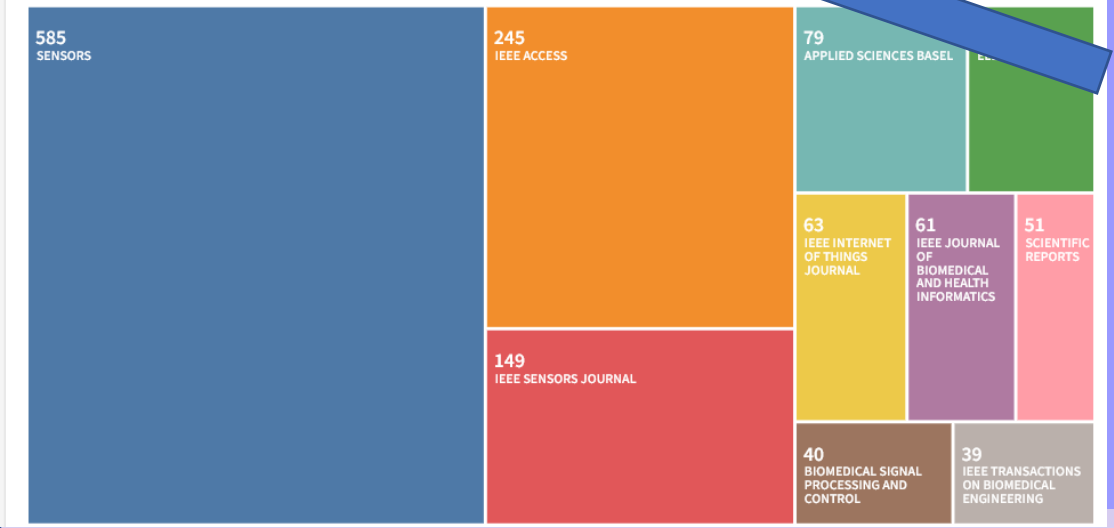


Publication Titles

Sort by: Results count  
Show: 25  
Minimum record count: 1

Visualization: TreeMap Chart  
Number of results: 10

DOWNLOAD



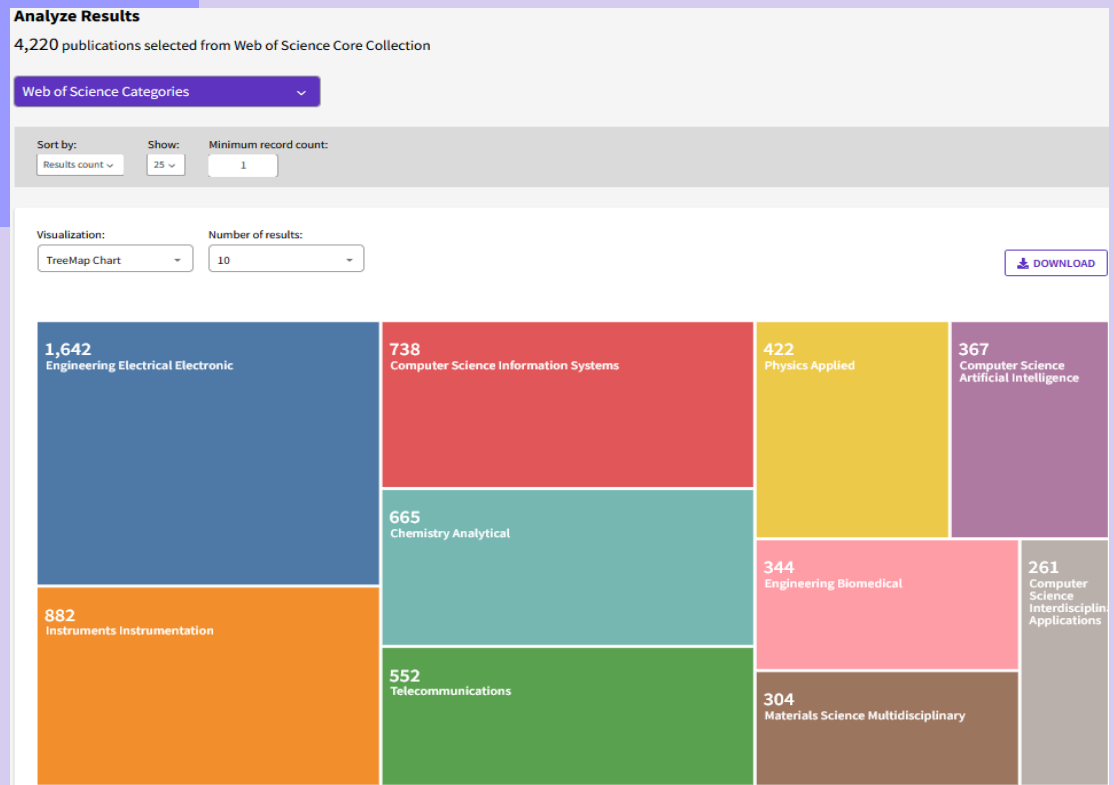
- Authors
- Publication Years
- Document Types
- Web of Science Categories
- Affiliations
- Publication Titles
- Publishers
- Funding Agencies
- Grant numbers
- Open Access

### Web of Science Categories:



interdisciplinary subjects  
opportunities in other categories

**Publication Titles:** an overview of the titles in a certain field  
find the proper journals to submit my paper



# Part 2 Efficient Reading of Papers —Must-reads Only

A. Reviews

B. Highlighted Papers

C. Multi-Dimensional Analysis

Analyze Results

Citation Report

### 4,450 results from Science Citation Index Expanded (SCI-EXPANDED):

sensor\* or chip\* or electron\* or device\* (Topic) and flex\* or wearable\* or on skin (Topic) and "deep learning" or "machine learning" (Topic)

[Analyze Results](#) [Citation Report](#) [Create Alert](#)

[Copy query link](#)

Publications You may also like...

Refine results

Search within results...

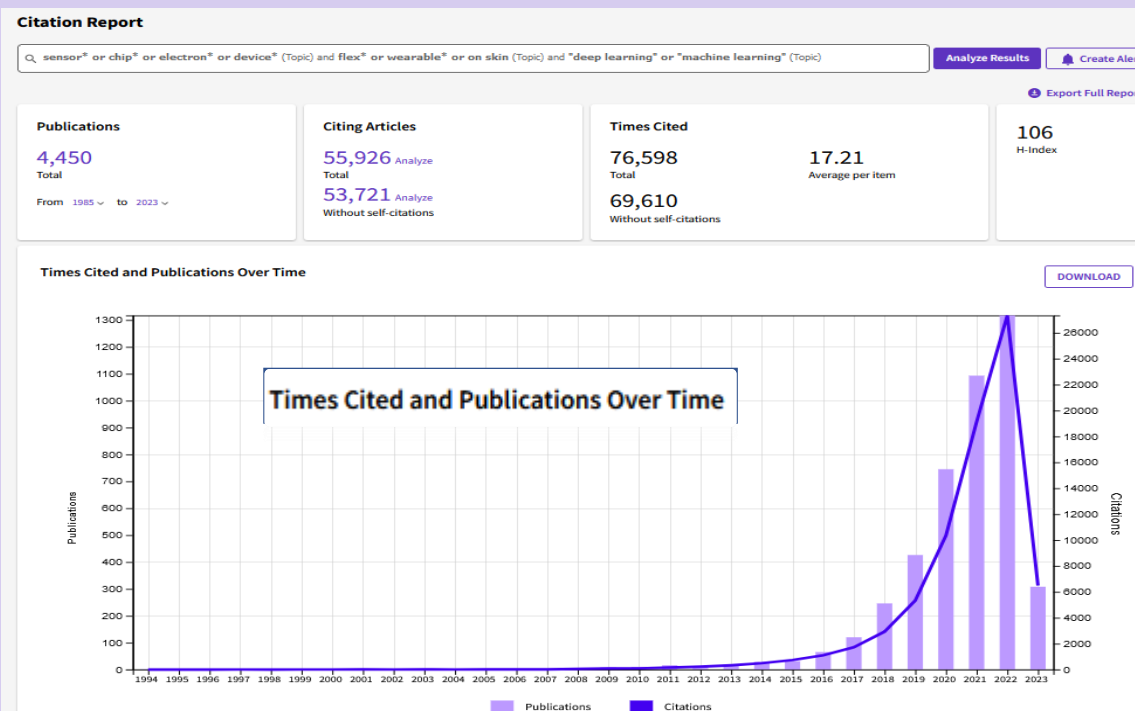
Filter by Marked List

Quick Filters

- Highly Cited Papers 90
- Hot Papers 5
- Review Article 371
- Early Access 141
- Open Access 2,820
- Enriched Cited References 1,364

0/4,450 [Add To Marked List](#) [Export](#) Sort by: Citations: highest first < 1 of 89 >

<input type="checkbox"/> 1	<b>A Survey on Human Activity Recognition using Wearable Sensors</b>	1,440 Citations
	<a href="#">Lara, OD</a> and <a href="#">Labrador, MA</a>	80 References
	2013   <a href="#">IEEE COMMUNICATIONS SURVEYS AND TUTORIALS</a> 15 (3), pp.1192-1209	
	Providing accurate and opportune information on people's activities and behaviors is one of the most important tasks in pervasive computing. Innumerable applications can be visualized, for instance, in medical, security, entertainment, and tactical scenarios. Despite human activity recognition (HAR) being an active field for more than a decade, there are still key aspects that, if addressed, wo... <a href="#">Show more</a>	<a href="#">Related records</a>
	<a href="#">Full Text at Publisher</a>	
<input type="checkbox"/> 2	<b>Deep Convolutional and LSTM Recurrent Neural Networks for Multimodal Wearable Activity Recognition</b>	1,221 Citations
	<a href="#">Ordonez, FJ</a> and <a href="#">Roggen, D</a>	46 References
	Jan 2016   <a href="#">SENSORS</a> 16 (1)	



## Part 2 Efficient Reading of Papers —Must-reads Only

A. Reviews

B. Highlighted Papers

C. Multi-Dimensional Analysis

D. Draw the Most Attention

Usage ( last 180 days)

4,502 results from Science Citation Index Expanded (SCI-EXPANDED):

sensor\* or chip\* or electron\* or device\* (Topic) and flex\* or wearable\* or on skin (Topic) and "deep learning" or "machine learning" (Topic) [Analyze Results](#) [Citation Report](#) [Create Alert](#)

[Copy query link](#)

Publications You may also like...

Refine results

Search within results...

Filter by Marked List

Quick Filters

- Highly Cited Papers 90
- Hot Papers 5
- Review Article 378
- Early Access 134
- Open Access 2,866
- Enriched Cited References 1,386

Citation Topics Meso

- 4.17 Computer Vision & Graphics 767
- 1.82 Gait & Posture 520

0/4,502 [Add To Marked List](#) [Export](#)

Sort by: Usage (last 180 days): most first

- Relevance
- Recently added
- Citation class
- Date: newest first
- Date: oldest first
- Citations: highest first
- Citations: lowest first
- Usage (all time): most first
- Usage (last 180 days): most first**
- Conference title: A to Z
- Conference title: Z to A
- First author name: A to Z
- First author name: Z to A
- Publication title: A to Z
- Publication title: Z to A

1 of 91

1 **Flexible Electronics and Devices as Human-Machine Interfaces for Medical Robotics**  
Heng, WZ; Solomon, S and Gao, W  
Apr 2022 | Feb 2022 (Early Access) | [ADVANCED MATERIALS](#) 34 (16)  
Medical robots are invaluable players in non-pharmaceutical treatment of disabilities. Particularly, human-machine interfaces can greatly improve the quality of life for impaired patients. In recent years, these interfaces have attracted tremendous attention in this field due to their high biocompatibility, function, and ease of use. This review summarizes the current progress in the field of flexible electronics and devices for medical robotics, with a focus on the design, fabrication, and application of these devices. The review is organized into three parts: (1) flexible electronics and devices for medical robotics, (2) flexible electronics and devices for medical robotics, and (3) flexible electronics and devices for medical robotics. The review highlights the challenges and opportunities in this field and provides a comprehensive overview of the current state of the art.

2 **Development Trends and Perspectives of Future Sensors and MEMS/NEMS**  
Zhu, JX; Liu, XM; (...); Lee, C  
Jan 2020 | [MICROMACHINES](#) 11 (1)  
With the fast development of the fifth-generation cellular network technology (5G), the future (MEMS)/nanoelectromechanical systems (NEMS) are presenting a more and more critical role in the development of the fifth-generation cellular network technology. This review introduces the development trends and perspectives of the future sensors and MEMS/NEMS. Starting from the issue of the development of the fifth-generation cellular network technology, the review discusses the development trends and perspectives of the future sensors and MEMS/NEMS. The review highlights the challenges and opportunities in this field and provides a comprehensive overview of the current state of the art.

62 Citations

617 References

133 Citations

204 References

Usage ( late 180 days)is the record of the users' activities, which reflects the number of times a particular paper meets the user's information needs.

Users' activities include:

- ①The users clicked on the link to the full text at the publisher
- ②Users saved or downloaded a paper

# Part 2 Efficient Reading of Papers

A. Reviews

B. Highlighted Papers

C. Multi-Dimensional Analysis

D. Recent Focus

Usage ( last 180 days)

Create Alerts

**4,502 results from Science Citation Index Expanded (SCI-EXPANDED):**

Q sensor\* or chip\* or electron\* or device\* (Topic) and flex\* or wearable\* or on skin (Topic) and "deep learning" or "machine learning" (Topic) Analyze Results Citation Report Create Alert

[Copy query link](#)

Publications You may also like...

Refine results

Search within results...

Filter by Marked List

Quick Filters

- Highly Cited Papers 90
- Hot Papers 5
- Review Article 378
- Early Access 134
- Open Access 2,866
- Enriched Cited References 1,386

0/4,502 Add To Marked List Export Sort by: Usage (last 180 days): most first 1 of 91

1 **Flexible Electronics and Devices as Human-Machine Interfaces for Medical Robotics**  
 Heng, WZ; Solomon, S and Gao, W  
 Apr 2022 | Feb 2022 (Early Access) | [ADVANCED MATERIALS](#) 34 (16)  
 Medical robots are invaluable players in non-pharmaceutical treatment of disabilities. Particular human-machine interfaces can greatly improve the quality of life for impaired patients. In recent years, these interfaces have attracted tremendous attention in this field due to their high biocompatibility, function, and ease of use. This review summarizes the current progress in the field of flexible electronics and devices for medical robotics, with a focus on the design and fabrication of flexible electronics and devices for medical robotics. The review highlights the challenges and opportunities in this field and provides a comprehensive overview of the current state of the art. [Free Published Article From Repository](#) [Full Text at Publisher](#)

2 **Development Trends and Perspectives of Future Sensors and MEMS/NEMS**  
 Zhu, JX; Liu, XM; (...); Lee, C  
 Jan 2020 | [MICROMACHINES](#) 11 (1)

62 Citations  
617 References  
133 Citations  
204 References

**Create Alert** : use your email address to register  
 receive each update according to your searching queries



Create Alert

## Search alerts

Citation alerts

Search alerts

Author alerts

Alerts on :

Citation

Search

Author

**Search Alerts will email you when new publications are added to the database that match your saved search criteria. system emails new works on this topic at a frequency of your choice.**

Name \*

sensor 1

**sensors or flexible electronics or devices**  
(Topic) and **gas-permeable or breathable**  
(Topic) and **stretchable or flexible** (Topic)

**Database** : Web of Science Core Collection

Active



Name \*

sensors

**sensor\* or chip\* or electron\* or device\***  
(Topic) and **flex\* or wearable\* or on skin**  
(Topic) and **"deep learning" or "machine learning"** (Topic)

**Database** : Web of Science Core Collection

Active



## **Part 3    Get Access to Full-text Papers**



# Part 3

## Get Access to Full-text Papers

### Links from Publishers

<input type="checkbox"/> 1	<b>Printed, Wireless, Soft Bioelectronics and Deep Learning Algorithm for Smart Human-Machine Interfaces</b> <a href="#">Kwon, YT; Kim, H; (...); Yeo, WH</a> Nov 4 2020   <a href="#">ACS APPLIED MATERIALS &amp; INTERFACES</a> 12 (44) , pp.49398-49406 Recent advances in flexible materials and wearable electronics offer a noninvasive, high-fidelity recording of biopotentials for portable healthcare, disease diagnosis, and machine interfaces. Current device-manufacturing methods, however, still heavily rely on the conventional cleanroom microfabrication that requires expensive, time-consuming, and complicated processes. Here, we introduce an a ... <a href="#">Show more</a> <a href="#">全文链接</a> <a href="#">Full Text at Publisher</a> ...	28 Citations 40 References <a href="#">Related records</a>
<input type="checkbox"/> 2	<b>The Role of Machine Learning and Deep Learning Approaches for the Detection of Skin Cancer</b> <a href="#">Mazhar, T; Haq, J; (...); Goh, LPW</a> Feb 2023   <a href="#">HEALTHCARE</a> 11 (3) Machine learning (ML) can enhance a dermatologist's work, from diagnosis to customized care. The development of ML algorithms in dermatology has been supported lately regarding links to digital data processing (e.g., electronic medical records, Image Archives, omics), quicker computing and cheaper data storage. This article describes the fundamentals of ML-based implementations, as well as futu ... <a href="#">Show more</a> <a href="#">全文链接</a> <a href="#">Free Full Text from Publisher</a> ... <a href="#">View PDF with EndNote Click</a>	69 References <a href="#">Related records</a>
<input type="checkbox"/> 3	<b>Deep Learning and Machine Learning Techniques of Diagnosis Dermoscopy Images for Early Detection of Skin Diseases</b> <a href="#">Abunadi, I and Senan, EM</a> Dec 2021   <a href="#">ELECTRONICS</a> 10 (24) <a href="#">Enriched Cited References</a> With the increasing incidence of severe skin diseases, such as skin cancer, endoscopic medical imaging has become urgent for revealing the internal and hidden tissues under the skin. Diagnostic information to help doctors make an accurate diagnosis is provided by endoscopy devices. Nonetheless, most skin diseases have similar features, which make it challenging for dermatologists to diagnose pa ... <a href="#">Show more</a> <a href="#">全文链接</a> <a href="#">Free Full Text from Publisher</a> ...	16 Citations 52 References <a href="#">Related records</a>

# Part 3 Get Access to Full-text Papers

Links from Publishers

EndNote Click

The screenshot shows the Web of Science interface. At the top right, there is a language dropdown set to 'English' and a 'Products' menu. The 'Products' dropdown is open, listing various services: Web of Science, Master Journal List, InCites Benchmarking & Analytics, Journal Citation Reports™, Essential Science Indicators, Reference Manager, EndNote, and EndNote Click. The 'EndNote Click' option is highlighted with a red box. Below the menu, a search bar contains the query 'wearable\* or on skin (Topic) and deep learning or machine learning (Topic)'. Two buttons, 'Analyze Results' and 'Citation Report', are visible. Below the search bar, there are buttons for 'To Marked List' and 'Export'. The search results are sorted by 'Relevance' and show 1 of 100 results. The first result is titled 'Wireless, Soft Bioelectronics and Deep Learning Algorithm for Smart Human-Machine Interfaces' by m. H.; (...); Yeo, WH, published in ACS APPLIED MATERIALS & INTERFACES, 12 (44), pp.49398-49406. It has 28 Citations and 40 References. The second result is titled 'of Machine Learning and Deep Learning Approaches for the Detection of Skin Cancer' by aq.,J; (...); Goh, LPW, published in HEALTHCARE, 11 (3), and has 69 References. A 'Full Text at Publisher' link is visible for the first result.

**EN**  
EndNote Click - Formerly Kopernio  
by EndNote click - formerly Kopernio

▲ This add-on is not actively monitored for security by Mozilla. Make sure you trust it before installing.  
[Learn more](#)

EndNote Click adds a one-click access button to full-text research article PDFs on thousands of academic sites. Works with subscription and open access articles.

[Add to Firefox](#)

全文链接

Free Full Text from Publisher

Full Text Links

Export

Add To Marked List

### The Role of Machine Learning and Deep Learning Approaches for the Detection of Skin Cancer

Dr. Mazhar T (Mazhar, Tehsan) [1], Haq, I (Inayatul Haq) [2], Ditta, A (Allah Ditta) [3], Mohsan, SAH (Mohsan, Syed Agha Hassnain) [4]; Rehman, F (Rehman, Faisal) [5], Imran Zafar [6], Jualang Azlan Gansau [7] and Lucky Poh Wah Goh [7]



#### Article The Role of Machine Learning and Deep Learning Approaches for the Detection of Skin Cancer

Tehseen Mazhar<sup>1</sup>, Inayatul Haq<sup>2</sup>, Allah Ditta<sup>3</sup>, Syed Agha Hassnain Mohsan<sup>4</sup>, Faisal Rehman<sup>5</sup>, Imran Zafar<sup>6</sup>, Jualang Azlan Gansau<sup>7</sup> and Lucky Poh Wah Goh<sup>7,\*</sup>

- <sup>1</sup> Department of Computer Science, Virtual University of Pakistan, Lahore 54000, Pakistan
  - <sup>2</sup> School of Information Engineering, Zhengzhou University, Zhengzhou 450001, China
  - <sup>3</sup> Department of Information Sciences, Division of Science and Technology, University of Education, Lahore 54000, Pakistan
  - <sup>4</sup> Optical Communications Laboratory, Ocean College, Zhejiang University, Zhoushan 316021, China
  - <sup>5</sup> Department of Statistics and Data Science, University of Mianwali, Mianwali 42200, Pakistan
  - <sup>6</sup> Department of Bioinformatics and Computational Biology, Virtual University of Pakistan, Lahore 57000, Pakistan
  - <sup>7</sup> Faculty of Science and Natural Resources, Universiti Malaysia Sabah, Jalan UMS, Kota Kinabalu 88400, Sabah, Malaysia
- \* Correspondence: luckygoh@ums.edu.my

**Abstract:** Machine learning (ML) can enhance a dermatologist's work, from diagnosis to customized care. The development of ML algorithms in dermatology has been supported lately regarding links to digital data processing (e.g., electronic medical records, Image Archives, omics), quicker computing and cheaper data storage. This article describes the fundamentals of ML-based implementations, as well as future limits and concerns for the production of skin cancer detection and classification systems. We also explored five fields of dermatology using deep learning applications: (1) the classification of diseases by clinical photos, (2) der moto pathology visual classification of cancer, and (3) the measurement of skin diseases by smartphone applications and personal tracking systems. This analysis aims to provide dermatologists with a guide that helps demystify the basics of ML and its different applications to identify their possible challenges correctly. This paper surveyed studies on skin cancer detection using deep learning to assess the features and advantages of other techniques. Moreover, this paper also defined the basic requirements for creating a skin cancer detection application, which revolves around two main issues: the full segmentation image and the tracking of the lesion on the skin using deep learning. Most of the techniques found in this survey address these two problems. Some of the methods also categorize the type of cancer too.

**Keywords:** classification; detection; deep learning; identification; machine learning; skin cancer

#### 1. Introduction

Skin cancer is a term used to describe a group of diseases in which abnormal skin cells grow uncontrolled and form tumors. These cancers are primarily brought on by unprotected skin damage to UV (ultraviolet) rays [1]. Melanomas make up just one percent of skin cancers. Skin cancers or basal cell carcinomas make up the remaining cases [2]. Due to its widespread occurrence and the potential for huge consequences, HPV is a significant health concern in the United States. In the United States, about five million different skin diseases are thought to be recorded annually. The rate of skin cancer has increased since

The development of ML algorithms in dermatology has been supported lately (ics), quicker computing and cheaper data storage. This article describes the uction of skin cancer detection and classification systems. We also explored five lical photos, (2) der moto pathology visual classification of cancer, and (3) the s analysis aims to provide dermatologists with a guide that helps demystify the aper surveyed studies on skin cancer detection using deep learning to assess the irements for creating a skin cancer detection application, which revolves around eep learning. Most of the techniques found in this survey address these two

skin cancer

#### Citation Network

In Web of Science Core Collectio

0 Citations

Create citation alert

69 Cited References  
View Related Records

#### Use in Web of Science

Web of Science Usage Count

4	4
Last 180 Days	Since 2

Learn more



**Citation:** Mazhar, T.; Haq, I.; Ditta, A.; Mohsan, S.A.H.; Rehman, F.; Zafar, I.; Gansau, J.A.; Goh, L.P.W. The Role of Machine Learning and Deep Learning Approaches for the Detection of Skin Cancer. *Healthcare* **2023**, *11*, 415. <https://doi.org/10.3390/healthcare11030415>

Academic Editor: Daniele Giusti

Received: 1 January 2023  
 Revised: 28 January 2023  
 Accepted: 29 January 2023  
 Published: 1 February 2023



Copyright: © 2023 by the authors. Licensee MDPI, Basel, Switzerland.

查看PDF EN

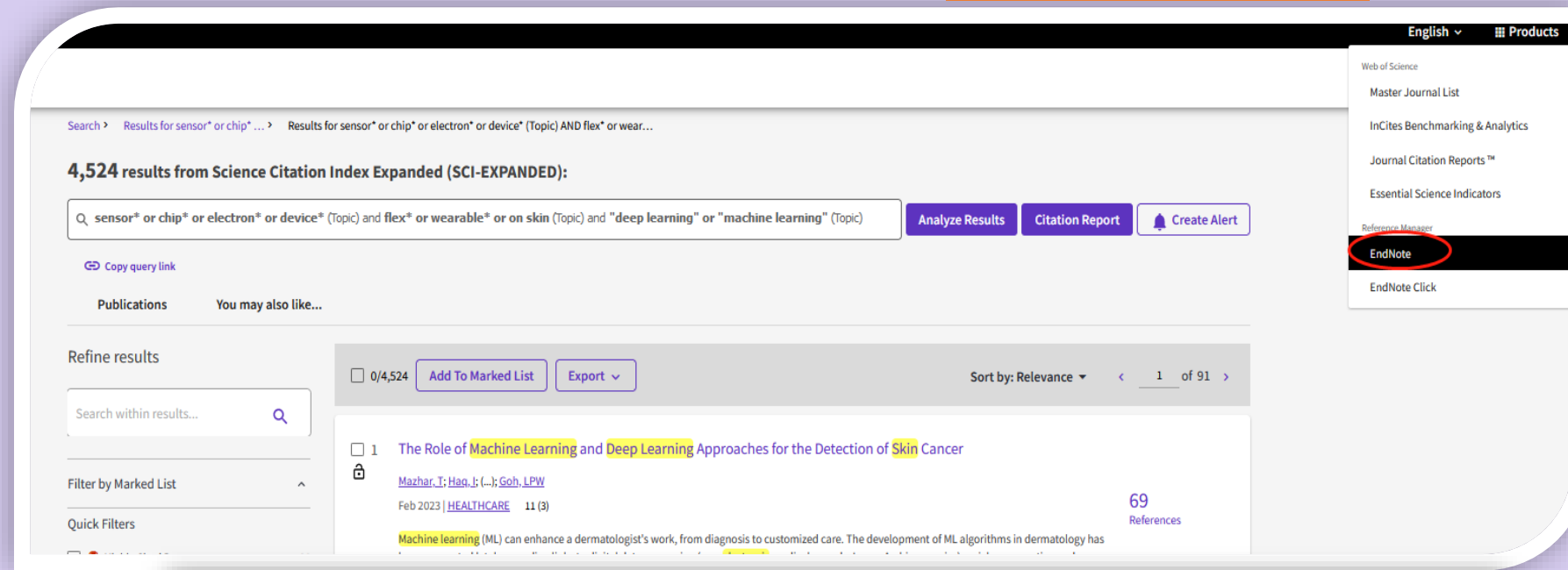
## **Part 4 Paper Writing and Manuscript Submission**

# Part 4 Paper Writing & Manuscript Submission

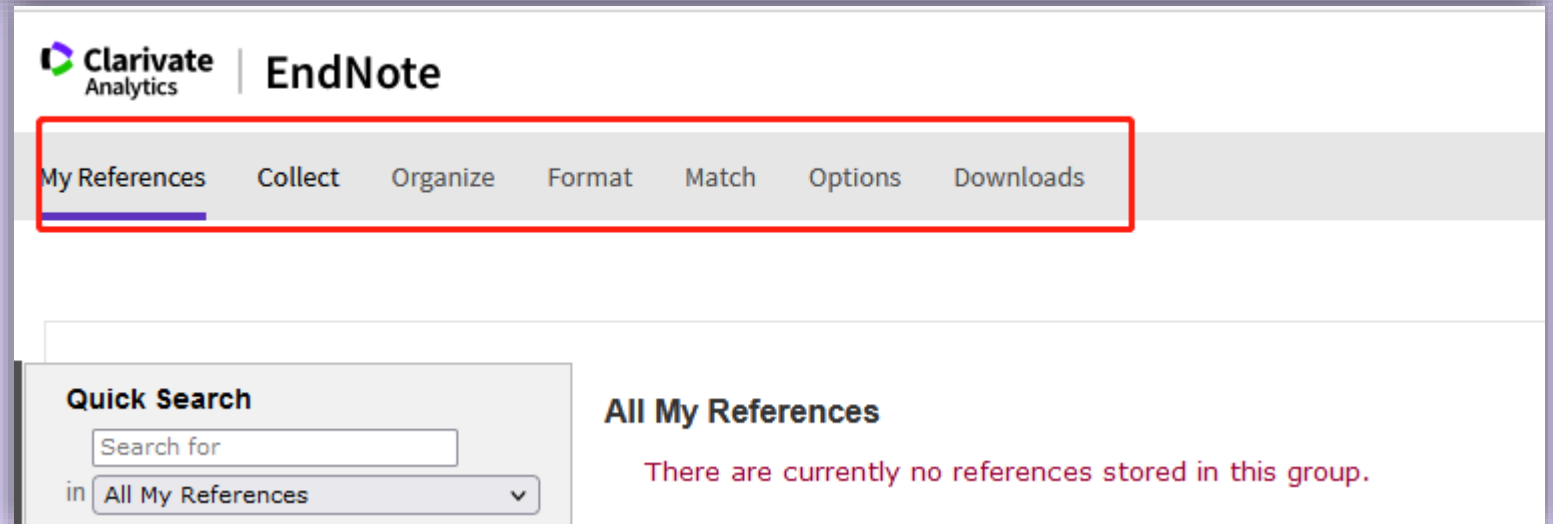
## Paper Writing

EndNote Online

Reference Management



This screenshot shows the search results interface in EndNote Online. At the top right, there is a navigation menu with 'EndNote' highlighted. The main search area displays a query: 'sensor\* or chip\* or electron\* or device\* (Topic) and flex\* or wearable\* or on skin (Topic) and "deep learning" or "machine learning" (Topic)'. It reports 4,524 results from the Science Citation Index Expanded (SCI-EXPANDED). Below the search bar are buttons for 'Analyze Results', 'Citation Report', and 'Create Alert'. A 'Refine results' section on the left includes a search box and filter options. The main results list shows a single entry: 'The Role of Machine Learning and Deep Learning Approaches for the Detection of Skin Cancer' by Mazhar, J.; Haq, J. (-); Goh, LPW, published in Feb 2023 in HEALTHCARE, with 11 citations and 69 references. The title and author names are highlighted in yellow.



This screenshot shows the desktop application interface for EndNote. The top navigation bar includes the 'Clarivate Analytics' logo and the 'EndNote' title. Below this is a menu bar with options: 'My References', 'Collect', 'Organize', 'Format', 'Match', 'Options', and 'Downloads'. The 'My References' option is highlighted with a red underline. Below the menu bar, there is a 'Quick Search' section with a search input field and a dropdown menu set to 'All My References'. To the right of the search section, the text reads 'All My References' and 'There are currently no references stored in this group.'

### 5,524 results from Science Citation Index Expanded (SCI-EXPANDED):

sensor\* or chip\* or electron\* or device\* (Topic) and flex\* or wearable\* or on skin (Topic) and "deep learning" or "machine learning" (Topic)

Analyze Results

Citation Report

Create Alert

Copy query link

Publications You may also like...

Refine results

Search within results...

Filter by Marked List

Quick Filters

- Highly Cited Papers 90
- Hot Papers 5
- Review Article 378
- Early Access 138
- Open Access 2,872
- Enriched Cited References 1,393

Citation Topics Meso

- 4.17 Computer Vision & Graphics 766
- 1.82 Gait & Posture 520
- 4.13 Telecommunications 242
- 2.114 Organic Semiconductors 240
- 1.7 Neuroscanning 164

See all >

2/4,524

Add To Marked List

Export

1



The Role of Machine Learning and Deep Learning Approaches for

Mazhar, I; Haq, I; (...); Goh, LPW

Feb 2023 | HEALTHCARE 11 (3)

Machine learning (ML) can enhance a dermatologist's work, from diagnosis to custom... been supported lately regarding links to digital data processing (e.g., electronic med... cheaper data storage. This article describes the fundamentals of ML-based impleme...

Free Full Text from Publisher View PDF with EndNote Click

2



Deep Learning and Machine Learning Techniques of Diagnosis De Diseases

Abunadi, I and Senan, EM

Dec 2021 | ELECTRONICS 10 (24)

Enriched Cited References

With the increasing incidence of severe skin diseases, such as skin cancer, endoscopic medical imaging has become urgent for revealing the internal and hidden tissues under the skin. Diagnostic information to help doctors make an accurate diagnosis is provided by endoscopy devices. Nonetheless, most skin diseases have similar features, which make it challenging for dermatologists to diagnose pa ... Show more

Free Full Text from Publisher View PDF with EndNote Click

EndNote online

EndNote desktop

Add to my researcher profile

Plain text file

RefWorks

RIS (other reference software)

BibTeX

Excel

Tab delimited file

Printable HTML file

InCites

Email

Fast 5000

More Export Options

69

References

Related records

16

Citations

52

References

Related records

Web of Science

Master Journal List

InCites Benchmarking & Analytics

Journal Citation Reports™

Essential Science Indicators

Reference Manager

EndNote

EndNote Click

# EndNote Online — My References

Refine results

0/4,524 [Add To Marked List](#) [Export](#) Sort by: Relevance < 1 of 91 >

Search within results...

Filter by Marked List

Quick Filters

- Highly Cited Papers 90
- Hot Papers 5
- Review Article 378
- Early Access 138
- Open Access 2,872
- Enriched Cited References 1,393

Citation Topics Meso

- 4.17 Computer Vision & Graphics 766
- 1.82 Gait & Posture 520
- 4.13 Telecommunications 242

1 [The Role of Machine Learning and Deep Learning Approaches for the Detection of Skin Cancer](#)  
Mazhar, T. Mazhar, T. (-); Gob, LPW  
Feb 2023 | HEALTHCARE 11 (3) 69 References

2 [Deep Learning and Machine Learning Techniques of Diagnosis Dermoscopy Images for Early Detection of Skin Diseases](#)  
Abunadi, J and Senan, EM  
Dec 2021 | ELECTRONICS 10 (24) 16 Citations 52 References



My References Collect Organize Format Match Options Downloads

Quick Search

Search for

in All My References

Search

My References

- All My References (2)
- (Unfiled) (2)
- Quick List (0)
- Trash (16) Empty
- My Groups
  - deep learning / machine learn... (0)
  - sensors (0)

All My References

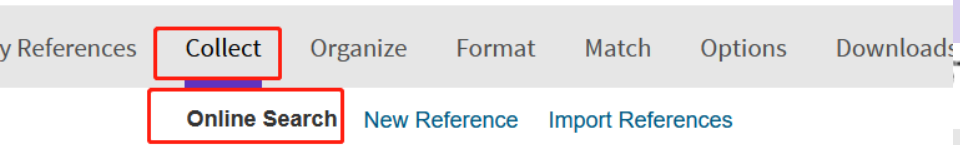
Show 10 per page

Page 1 of 1 Go

All Page Add to group... Copy To Quick List Delete

Author	Year	Title
<input type="checkbox"/> Abunadi, I.	2021	Deep Learning and Machine Learning Techniques of Diagnosis Dermoscopy Images for Early Detection of Skin Diseases Electronics Added to Library: 26 Apr 2023 Last Updated: 26 Apr 2023 View in Web of Science Source Record, Related Records, Times Cited: 16 <a href="#">全文链接</a>
<input type="checkbox"/> Mazhar, T.	2023	The Role of Machine Learning and Deep Learning Approaches for the Detection of Skin Cancer Healthcare Added to Library: 26 Apr 2023 Last Updated: 26 Apr 2023 View in Web of Science Source Record, Related Records, Times Cited: 0 <a href="#">全文链接</a>





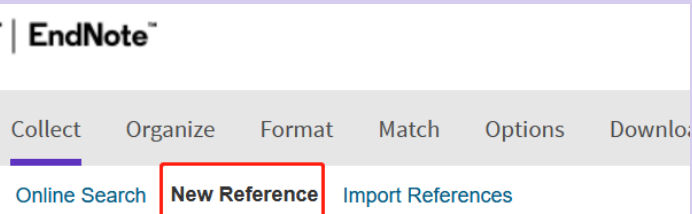
Online Search

Step 1

Select database or library catalog connection.

Select... [Select Favorites](#)

Connect



New Reference

Bibliographic Fields:

Reference Type:  [Cancel](#)

Author:  Use format L

Title:

Year:

Secondary Author:

Secondary Title:

Place Published:

Publisher:

Volume:

Number of Volumes:

Number:

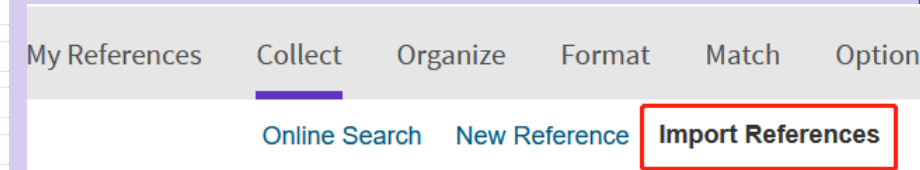
Pages:

Section:

3 ways of reference gathering:  
 online search  
 new reference ( manual creation)  
 imported from PC

EndNote online provides many options for automated reference capturing.

**Manual reference creation** is also an option for literature you cannot find electronically from an information provider with an EndNote export option.



Import References

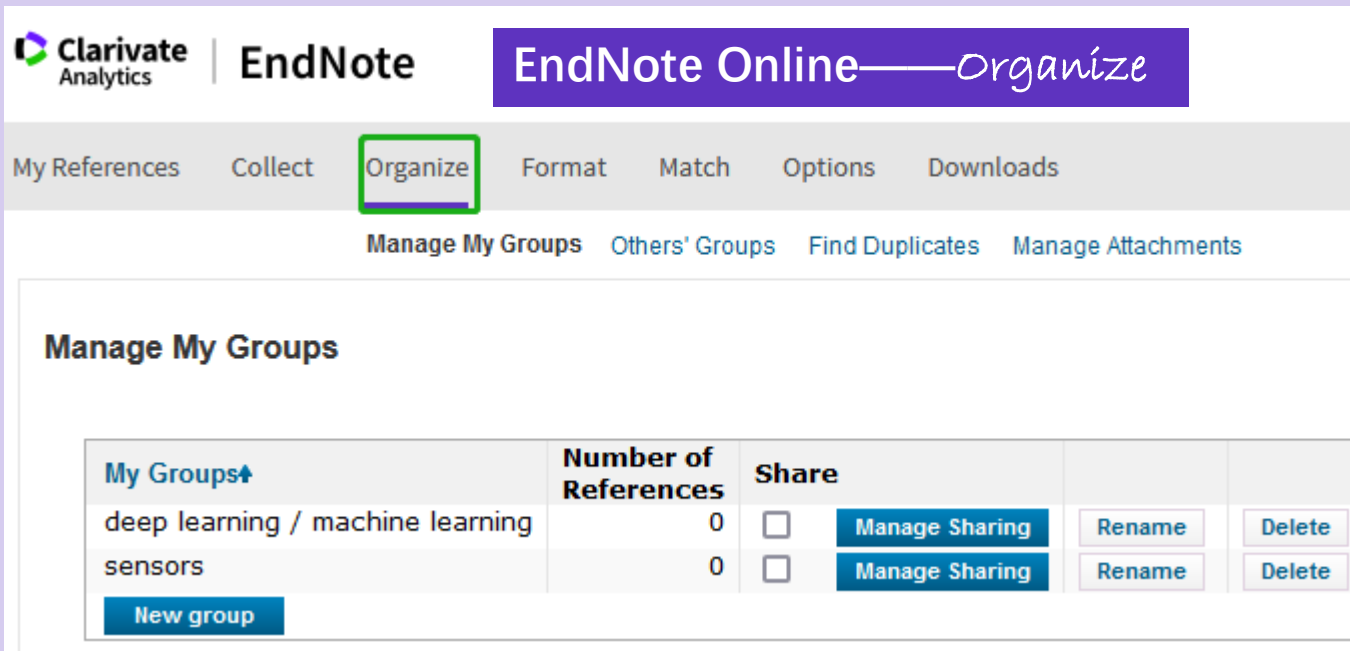
Importing from EndNote?

File:  未选择文件。

Import Option:

To:

Import



The screenshot shows the EndNote Online interface with the 'Organize' tab selected. The 'Manage My Groups' section contains a table of groups and a 'New group' button.

My Groups↑	Number of References	Share		
deep learning / machine learning	0	<input type="checkbox"/> <a href="#">Manage Sharing</a>	<a href="#">Rename</a>	<a href="#">Delete</a>
sensors	0	<input type="checkbox"/> <a href="#">Manage Sharing</a>	<a href="#">Rename</a>	<a href="#">Delete</a>

[New group](#)

Add new groups

Rename the groups

Remove the duplicates

Share the desired references to others

# Part 4 Paper Writing & Manuscript Submission

## A. Paper Writing

EndNote Online

Reference Management

EndNote Online

—Cite While You Write

(Plug-in)

Citations Insert  
Bibliography Formats Change

The image shows a composite screenshot. At the top right is the Clarivate logo. The main part of the image is a screenshot of the EndNote Online website. The navigation bar includes 'My References', 'Collect', 'Organize', 'Format', 'Match', 'Options', and 'Downloads'. The 'Format' tab is selected, and the 'Cite While You Write™ Plug-In' link is highlighted with a green box. Below this, there are links for 'Download Windows' and 'Download Macintosh', with 'Download Windows' also highlighted. A text box contains the text: 'Find out why EndNote is the industry leader in bibliographic formatting. Download our patented\* Cite While You Write tool to insert references, and format citations and bibliographies automatically. See [Installation Instructions](#) and [System Requirements](#).' Below this is a patent notice: '\*Patented technology. Australia Patent 2014318392; U.S. Patents 10002116, 9588955, 9218344, 9177013, 8676780, 8566304, 8201085, 8082241, 6233581; China Patent: 201380034689.3; Japan Patent: 5992404.' An 'EndNote Plug-Ins Installer' window is overlaid on the website, showing a 'Welcome to the EndNote Plug-Ins Installer' message and a list of plug-ins: '\* EndNote Click Browser Reference Capture' and '\* Cite While You Write for Microsoft Word'. Below the installer window is a screenshot of the Microsoft Word ribbon. The 'EndNote' tab is active, and the 'Go to EndNote Online Citations' button is highlighted with a red box. A blue arrow points from the 'Cite While You Write for Microsoft Word' plug-in in the installer window to the 'Go to EndNote Online Citations' button in the Word ribbon. The ribbon also shows 'Insert Citations', 'Edit Citation(s)', 'Style: Academic Psychiatry', 'Update Citations and Bibliography', 'Convert Citations and Bibliography', 'Export to EndNote', 'Preferences', and 'EndNote Help'.

To achieve effective automatic fall detection, we require the system to be accurate, inexpensive, and user friendly. Few of the FD systems using techniques above have been widely deployed into home settings due to the fact that they suffer terrible performance when considering one or more of the above three conditions. We want to employ a new technique to conduct fall detection in order

Before you use “Cite before you Write”, you should :

(1) choose your commonly used bibliographic styles and copy them to “My Favorites”

The screenshot shows the EndNote interface with the **Bibliography** menu open. The **Format** menu item is highlighted with a green box. Below it, the **Bibliography** sub-menu is also highlighted with a green box. A yellow arrow points from the **Select Favorites** button in the Bibliography sub-menu to the **My Favorites** list in the expanded menu.

**EndNote** | Clarivate Analytics

My References | Collect | Organize | **Format** | Match | Options | Downloads

**Bibliography** | Cite While You Write™ Plug-In | Format Paper | Export References

**Bibliography**

References: Select... ▼

Bibliographic style: Select... ▼ **Select Favorites**

File format: Select... ▼

Save | E-Mail | Print

**All:**

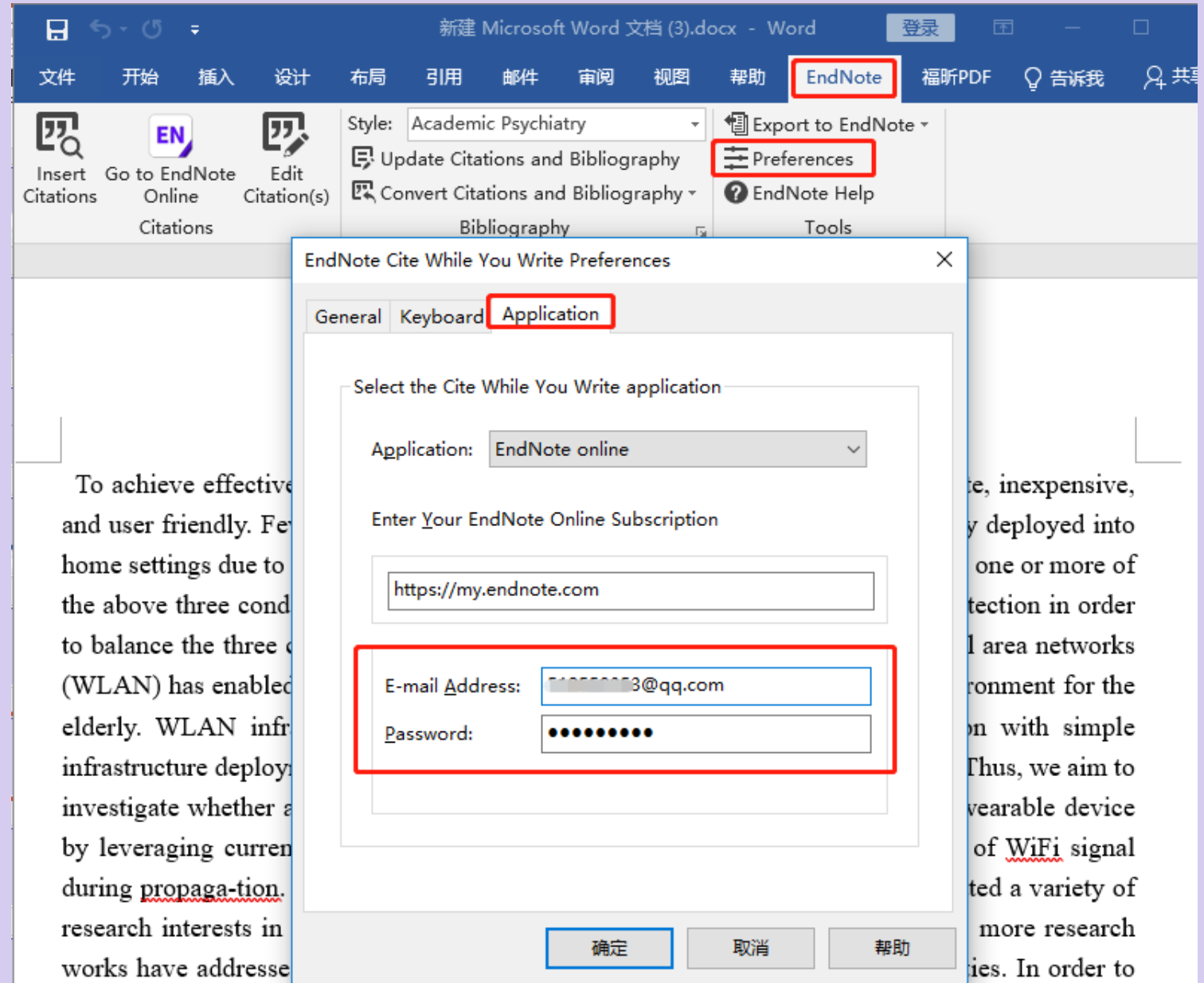
- AAG Style Guide
- AAPG Bulletin
- Abacus
- ABNT
- Abs Social Gerontology
- Acad Emergency Med
- Academic Medicine
- Academic Psychiatry
- Academy Management J
- Academy Management Review

**My Favorites:** Hide

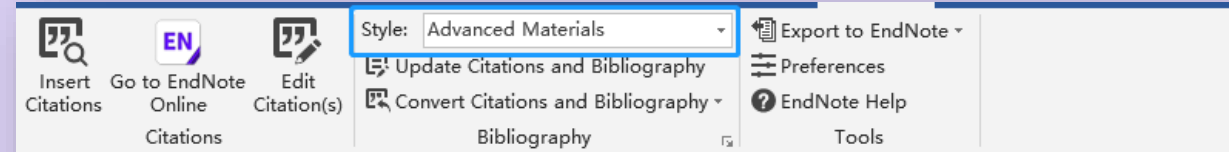
- Acta Neurol Scand
- Advanced Materials
- BMC Neuroscience
- Environ Science Tech
- Experi Brain Res
- IEEE Design Test Comp
- Livestock Science
- Nano Letters
- Nature Reviews
- Neuroscience Letters

Before you use “Cite before you Write”, you should :

(2) Log on the EndNote in your Microsoft Word.



# One click to insert citations



To achieve effective automatic fall detection, we require the system to be accurate, inexpensive, and user friendly. Few of the FD systems using techniques above have been widely deployed into home settings due to the fact that they suffer terrible performance when considering one or more of the above three conditions. We want to employ a new technique to conduct fall detection in order to balance the three conditions. <sup>[1]</sup>The widespread dissemination of the wireless local area networks (WLAN) has enabled the possibility of WLAN-based fall detection in indoor environment for the elderly. WLAN infrastructures can support high-accuracy-low-cost fall detection with simple infrastructure deployment, engaging user experience and limited privacy concerns. Thus, we aim to investigate whether automatic fall detection can be achieved without any special wearable device by leveraging current commercial wireless products by exploiting the properties of WiFi signal during propagation. In the last decade, WiFi facilities and techniques have motivated a variety of research interests in localization, motion detection and object tracking. Currently, more research works have addressed the relationship between wireless signals and human activities. In order to implement unobtrusive fall detection by wireless networks, we need to find a good representation of the wireless signal. It should be robust to environmental changes but sensitive to human disturbances. However, we observe that current radio propagation model cannot be

[1] Y. T. Kwon, H. Kim, M. Mahmood, Y. S. Kim, C. Demolder, W. H. Yeo, *Acs Applied Materials & Interfaces* **2020**, *12*, 49398.



To achieve effective automatic fall detection, we require the system to be accurate, inexpensive, and user friendly. Few of the FD systems using techniques above have been widely deployed into home settings due to the fact that they suffer terrible performance when considering one or more of the above three conditions. We want to employ a new technique to conduct fall detection in order to balance the three conditions. The widespread dissemination of the wireless local area networks (WLAN) has enabled the possibility of WLAN-based fall detection in indoor environment for the elderly. WLAN infrastructures can support high-accuracy-low-cost fall detection with simple infrastructure deployment, engaging user experience and limited privacy concerns. Thus, we aim to investigate whether automatic fall detection can be achieved without any special wearable device by leveraging current commercial wireless products by exploiting the properties of WiFi signal during propagation. In the last decade, WiFi facilities and techniques have motivated a variety of research interests in localization, motion detection and object tracking. Currently, more research works have addressed the relationship between wireless signals and human activities. In order to implement unobtrusive fall detection by wireless networks, we need to find a good representation of the wireless signal. It should be robust to environmental changes but sensitive to human disturbances. However, we observe that current radio propagation model cannot be

deep learning  Find 3

author	Year	Title
lharthi	2019	Deep Learning for Monitoring of Human Gait: A Review
ntwi-Afari	2022	Deep learning-based networks for automated recognition and classification of awkward working posturing
ing	2022	Deep Learning-Enabled MXene/PEDOT:PSS Acoustic Sensor for Speech Recognition and Skin-Vibration
assan	2018	Human Activity Recognition from Body Sensor Data using Deep Learning
won	2020	Printed, Wireless, Soft Bioelectronics and Deep Learning Algorithm for Smart Human-Machine Interface
lweke	2018	Deep learning algorithms for human activity recognition using mobile and wearable sensor networks:
iang	2022	Recent Machine Learning Progress in Lower Limb Running Biomechanics With Wearable Technology: A

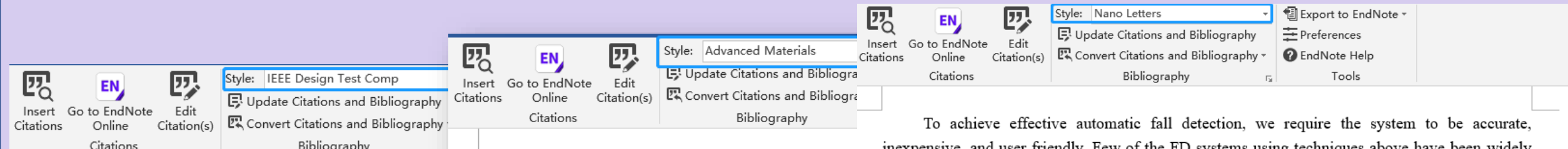
---

**Reference Type** Journal Article  
**Author** Kwon, Y. T.  
 Kim, H.  
 Mahmood, M.  
 Kim, Y. S.  
 Demolder, C.  
 Yeo, W. H.  
**Year** 2020  
**Title** Printed, Wireless, Soft Bioelectronics and Deep Learning Algorithm for Smart Human-Machine Interface

4 Insert Cancel Help



# One click to change bibliography formats



The screenshot shows the EndNote software interface. The 'Style' dropdown menu is open, showing three options: 'IEEE Design Test Comp', 'Advanced Materials', and 'Nano Letters'. The 'Nano Letters' style is currently selected. The interface also shows buttons for 'Insert Citations', 'Go to EndNote Online', and 'Edit Citation(s)'. Below the interface, a text block is shown with a citation [1] highlighted in a blue box. The citation text is: [1] Y. T. Kwon *et al.*, "Printed, Wireless, Soft Bioelectronic Smart Human-Machine Interfaces," *Acs Applied Materials & Interfaces* **2020**, 12, 49398-49406, Nov, 2020.

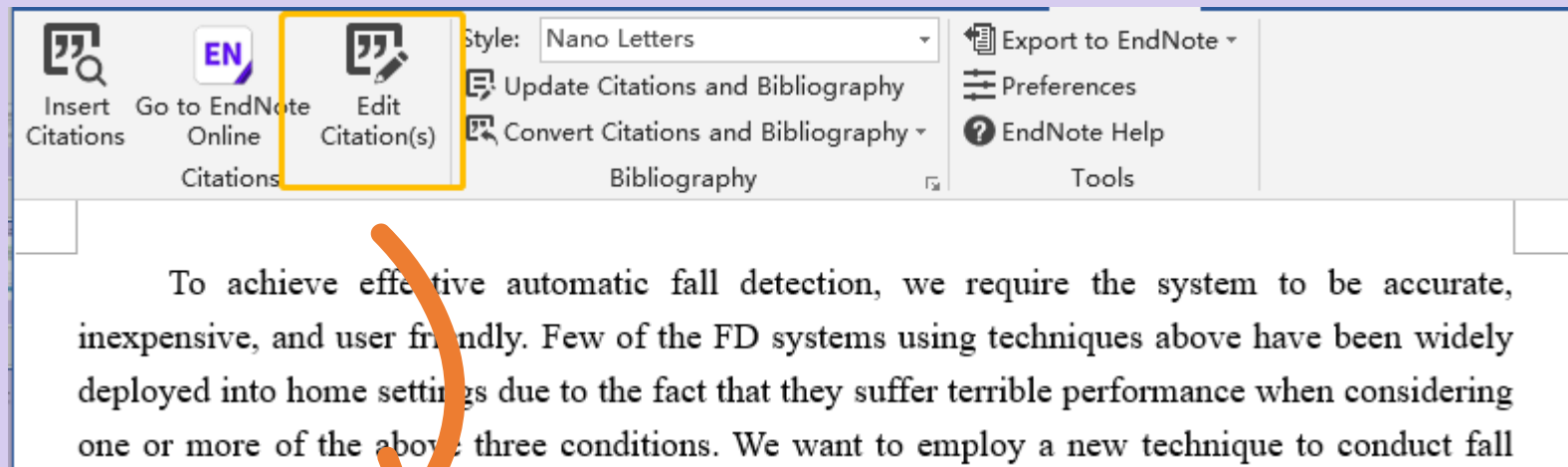
To achieve effective automatic fall detection, we require the system to be accurate, inexpensive, and user friendly. Few of the FD systems u deployed into home settings due to the fact that they suffe one or more of the above three conditions. We want to detection in order to balance the three conditions. [1]The local area networks (WLAN) has enabled the possi-bility environment for the elderly. WLAN infrastructures c detection with simple infrastructure deployment, engagi concerns. Thus, we aim to investigate whether automa special wearable device by leveraging current commerc properties of WiFi signal during propaga-tion. In the last de motivated a variety of research interests in localization Currently, more research works have addressed the relation activities. In order to implement unobtrusive fall detection good representation of the wireless signal. It should b sensitive to human disturbances. However, we observe tha be |

To achieve effective automatic fall detection inexpensive, and user friendly. Few of the FD system deployed into home settings due to the fact that they s one or more of the above three conditions. We want detection in order to balance the three conditions. [1] local area networks (WLAN) has enabled the possi-b environment for the elderly. WLAN infrastructure detection with simple infrastructure deployment, en concerns. Thus, we aim to investigate whether automa special wearable device by leveraging current commu properties of WiFi signal during propaga-tion. In the la motivated a variety of research interests in localiza Currently, more research works have addressed the rela activities. In order to implement unobtrusive fall dete good representation of the wireless signal. It shoul sensitive to human disturbances. However, we observ be |

[1] Y. T. Kwon, H. Kim, M. Mahmood, Y. S. Kim, C. D *Interfaces* **2020**, 12, 49398.

(1) Kwon, Y. T.; Kim, H.; Mahmood, M.; Kim, Y. S.; Demolder, C.; Yeo, W. H. Printed, Wireless, Soft Bioelectronics and Deep Learning Algorithm for Smart Human-Machine Interfaces. *Acs Applied Materials & Interfaces* **2020**, 12 (44), 49398-49406. DOI: 10.1021/acsami.0c14193.





Add information or remove a reference from a group of in-text citations

# Part 4 Paper Writing & Manuscript Submission

A. Paper Writing

B. Manuscript Submission

Analyze Results

Search > Results for membrane fouling (Topic) AND oily or waste water or sewage po...

4,900 results from Science Citation Index Expanded (SCI-EXPANDED):

Q membrane fouling (Topic) and oily or waste water or sewage pollut\* (Topic)

Analyze Results

Citation Report

Create Alert

Copy query link

Publication Titles

Sort by:

Results count

Show:

25

Minimum record count:

1

Visualization:

TreeMap Chart

Number of results:

10

DOWNLOAD

681  
JOURNAL OF MEMBRANE SCIENCE

367  
SEPARATION AND PURIFICATION TECHNOLOGY

219  
BIORESOURCE  
TECHNOLOGY

184  
CHEMICAL  
ENGINEERING  
JOURNAL

278  
DESALINATION AND WATER TREATMENT

400  
DESALINATION

248  
WATER RESEARCH

142  
WATER SCIENCE AND  
TECHNOLOGY

97  
CHEMOSP

116  
MEMBRANES

## Journals listed in a descending order by percentage

Select All	Field: Publication Titles	Record Count	% of 4,900
<input type="checkbox"/>	JOURNAL OF MEMBRANE SCIENCE	681	13.898%
<input type="checkbox"/>	DESALINATION	400	8.163%
<input type="checkbox"/>	SEPARATION AND PURIFICATION TECHNOLOGY	367	7.490%
<input type="checkbox"/>	DESALINATION AND WATER TREATMENT	278	5.673%
<input type="checkbox"/>	WATER RESEARCH	248	5.061%
<input type="checkbox"/>	BIORESOURCE TECHNOLOGY	219	4.469%
<input type="checkbox"/>	CHEMICAL ENGINEERING JOURNAL	184	3.755%
<input type="checkbox"/>	WATER SCIENCE AND TECHNOLOGY	142	2.898%
<input type="checkbox"/>	MEMBRANES	116	2.367%
<input type="checkbox"/>	CHEMOSPHERE	97	1.980%
<input type="checkbox"/>	JOURNAL OF WATER PROCESS ENGINEERING	95	1.939%
<input type="checkbox"/>	ENVIRONMENTAL SCIENCE TECHNOLOGY	89	1.816%
<input type="checkbox"/>	SCIENCE OF THE TOTAL ENVIRONMENT	88	1.796%
<input type="checkbox"/>	JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING	77	1.571%
<input type="checkbox"/>	SEPARATION SCIENCE AND TECHNOLOGY	65	1.327%
<input type="checkbox"/>	ENVIRONMENTAL TECHNOLOGY	52	1.061%



## 681 results from Science Citation Index Expanded (SCI-EXPANDED):

Q membrane fouling (Topic) and oily or waste water or sewage pollut\* (Topic)

Analyze Results

Citation Report

Create Alert

Refined By: Publication Titles: JOURNAL OF MEMBRANE SCIENCE X Clear all

Copy query link

Publications

You may also like...

### Refine results

Search within results...

Filter by Marked List

#### Quick Filters

- Highly Cited Papers 16
- Review Article 20
- Open Access 87
- Enriched Cited References 29

#### Citation Topics Meso

- 2.241 Membrane Science 586
- 2.160 Microfluidic Devices & Superhydrop... 31
- 3.83 Bioengineering 14
- 2.90 Water Treatment 9
- 1.42 Bacteriology 7

See all >

0/681

Add To Marked List

Export

Sort by: Citations: highest first

1 of 14

1 Recent developments in forward osmosis: Quantification and challenges

Zhao, SF; Zou, L; (...); Mulcahy, D

Apr 1 2012 JOURNAL OF MEMBRANE SCIENCE 396

Recently, forward osmosis (FO) has attracted growing treatment and food processing. However, there are still solute diffusion and the need for new membrane dev

Full Text at Publisher Search Insti

JOURNAL OF MEMBRANE SCIENCE

Publisher name: ELSEVIER

Journal Impact Factor™

2021	Five Year
10.53	9.761

JCR Category	Category Rank	Category Quartile
--------------	---------------	-------------------

ENGINEERING, CHEMICAL in SCIE edition	11/143	Q1
--	--------	----

POLYMER SCIENCE in SCIE edition	4/90	Q1
------------------------------------	------	----

2 Membrane fouling in membrane bioreact

Drews, A

Nov 1 2010 JOURNAL OF MEMBRANE SCIENCE 363 (1-2), pp.1-28

Despite more than a decade of worldwide research on membrane fouling in membrane bioreactors (MBRs), many questions still remain unanswered. In the light of the complexity of the system, it is not surprising that researchers jumped to conclusions on observing any correlations at all, many of which now have to be re-examined as more and more contradictory results are being published. This work t

Full Text at Publisher Search Institution Library

1,010

Citations

226

References

Related records

723

Citations

224

References

Related records

## Part 4 Paper Writing & Manuscript Submission

### A. Paper Writing

### B. Manuscript Submission

Analyze Results

EndNote Online—Match

The screenshot displays the EndNote Match interface. At the top, the Clarivate Analytics logo is on the left, and the 'EndNote' title is on the right. Below this is a navigation bar with several tabs: 'My References', 'Collect', 'Organize', 'Format', 'Match', 'Options', and 'Downloads'. The 'Match' tab is highlighted with a green box. Below the navigation bar is a dark blue banner with the text 'Browse, search, and explore journals indexed in the Web of Science'. Underneath the banner is a white box containing a search bar with the placeholder text 'Search Journal, ISSN or title word...' and a blue 'Search Journals' button. Below the search bar is a section titled 'Already have a manuscript?' with a sub-header 'Find relevant, reputable journals for potential publication of your research based on an analysis of tens of millions of citation connections in Web of Science Core Collection using Manuscript Matcher.' To the right of this text is a blue 'Match Manuscript' button. A large green arrow points from the 'Match' tab down to the 'Search Journals' button.

## Manuscript Matcher



Manuscript Matcher helps you find the most related journals for your manuscript. It works best when your title has at least 10 words and your abstract has at least 100 words. Using this information, it will pull the most relevant keywords for matching.

Please enter your manuscript information below.

Title

Comparison of the filtration characteristics between attached and suspended growth microorganisms in submerged membrane bioreactor

The manuscript title or relevant part(s) of the title. This works best with at least 10 words.

Abstract

An attached growth bioreactor was designed to minimize the effect of suspended microorganisms on membrane fouling in submerged membrane bioreactor. Comparison of mixed liquor from attached and suspended growth systems was made

The manuscript abstract or relevant part(s) of the abstract. This works best with at least 100 words.

Cancel

Find Journals



### Start a new search?



New Search

### Filters

Clear All

Web of Science Coverage

Open Access

Category

Country / Region

Language

Frequency

Journal Citation Reports

### Refine Your Manuscript Matcher Results

Title

Comparison of the filtration characteristics between attached and suspended growth microorganisms in submerged membrane bioreactor

The manuscript title or relevant part(s) of the title. Works best with at least 10 words.

Abstract

An attached growth bioreactor was designed to minimize the effect of suspended microorganisms on membrane fouling in submerged membrane bioreactor. Comparison of mixed liquor from attached and suspended growth systems was made to elucidate major factors giving rise to different filtration characteristics. Unexpectedly, the rate of membrane fouling of the attached growth system was about 7 times higher than that of the suspended growth system despite similar characteristics of

The manuscript abstract or relevant part(s) of the abstract. Works best with at least 100 words.

Find Journals

### Matching Keywords

- atomic force microscope
- mixed liquor
- scanning electron microscope
- filtration characteristics
- growth
- elucidate major factors
- submerged membrane bioreactor
- membrane fouling
- specific cake resistance

### Active Filters

SCIENCE CITATION INDEX EXPANDED (SCIE)

### Match Results

Found 46 results (Page 1)

Share These Results

### CHEMOSPHERE

Publisher: PERGAMON-ELSEVIER SCIENCE LTD , THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD, ENGLAND, OX5 1GB  
ISSN / eISSN: 0045-6535 / 1879-1298  
Web of Science Core Collection: Science Citation Index Expanded  
Additional Web of Science Indexes: Biological Abstracts | BIOSIS Previews | Current Contents Agriculture, Biology & Environmental Sciences | Essential Science Indicators | Zoological Record

Match Score **0.99** ●  
Top Keywords: submerged membrane bioreactor, filtration characteristics, membrane fouling, elucidate major factors, specific cake resistance, growth bioreactor

[Share This Journal](#) [View profile page](#)

### SCIENCE OF THE TOTAL ENVIRONMENT

Publisher: ELSEVIER , RADARWEG 29, AMSTERDAM, Netherlands, 1043 NX  
ISSN / eISSN: 0048-9697 / 1879-1026  
Web of Science Core Collection: Science Citation Index Expanded  
Additional Web of Science Indexes: Biological Abstracts | BIOSIS Previews | Current Contents Agriculture, Biology & Environmental Sciences | Essential Science Indicators

Match Score **0.99** ●  
Top Keywords: membrane fouling, filtration characteristics, submerged membrane bioreactor, elucidate major factors, specific cake resistance, growth bioreactor

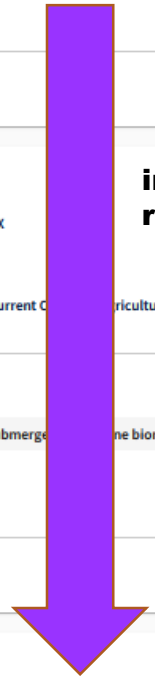
[Share This Journal](#) [View profile page](#)

### WATER RESEARCH

Publisher: PERGAMON-ELSEVIER SCIENCE LTD , THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD, ENGLAND, OX5 1GB  
ISSN / eISSN: 0043-1354 / 1879-2448  
Web of Science Core Collection: Science Citation Index Expanded  
Additional Web of Science Indexes: Biological Abstracts | BIOSIS Previews | Current Contents Agriculture, Biology & Environmental Sciences | Essential Science Indicators

Match Score **0.75** ●  
Top Keywords: submerged membrane bioreactor, filtration characteristics, membrane fouling, mixed liquor, growth bioreactor, specific cake resistance, elucidate major factors

[Share This Journal](#) [View profile page](#)



**in a descending order by relevance**

#### General Information

**WATER RESEARCH** [Share This Journal](#)

ISSN / eISSN 0043-1354 / 1879-2448  
Publisher PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD, ENGLAND, OX5 1GB

Journal Website [Visit Site](#) | Publisher Website [Visit Site](#)

1st Year Published	1967	Frequency	Semi-monthly
Issues Per Year	20	Country / Region	ENGLAND
Primary Language	English		

[Return to Search Results](#)

## Water Research

Supports open access

18 CiteScore | 13.4 Impact Factor

Articles & Issues | About | Publish | Order journal | Search in this journal | Submit your article | Guide for authors

#### Latest issue

**Volume 238**  
*In progress*  
30 June 2023

#### About the journal

A Journal of the International Water Association (IWA)

Water Research has an open access companion journal *Water Research X*, sharing the same aims and scope, editorial team, submission system and rigorous peer review.

Water Research publishes refereed, original research papers on all aspects of the science and technology of the anthropogenic water ...

[View full aims & scope](#)



**Part 1 How to Find the Desired Papers?**

**Part 2 Efficient Reading of Papers**

**Part 3 Get Access to Full-text Papers**

**Part 4 Paper Writing and Manuscript Submission**

## Part 1 Identify the Must-read Papers in Your Field

### Research Frontiers

Essential Science Indicators (ESI)

Research Fronts & Engineering Fronts

### Identify the Must-reads

Starting by Key Words

Starting from a certain researcher

Starting from an article/ book

Citation Network  
Cited References

## Part 2 Efficient Reading of Papers

### Reviews

### Highlighted Papers

highest citations  
highly cited papers  
hot papers

### Multi-Dimensional Analysis

Analyze Results  
Citation Reports

### Recent Focus

Usage ( last 180 days)  
Create Alerts

## Part 3 Get Access to Full-text Papers

Links from Publishers

EndNote Click

## Part 4 Paper Writing & Manuscript Submission

### Paper Writing

#### EndNote Online

Reference Management

Reference Gathering

Organize Groups/ References

#### EndNote Online—Cite While You Write

Insert Citations

Change Bibliography Formats

### Manuscript Submission

Analyze Results

EndNote online—Match



Thanks for Your Listening!