



工欲善其事，必先利其器

- 利用Web of Science助力科学研究

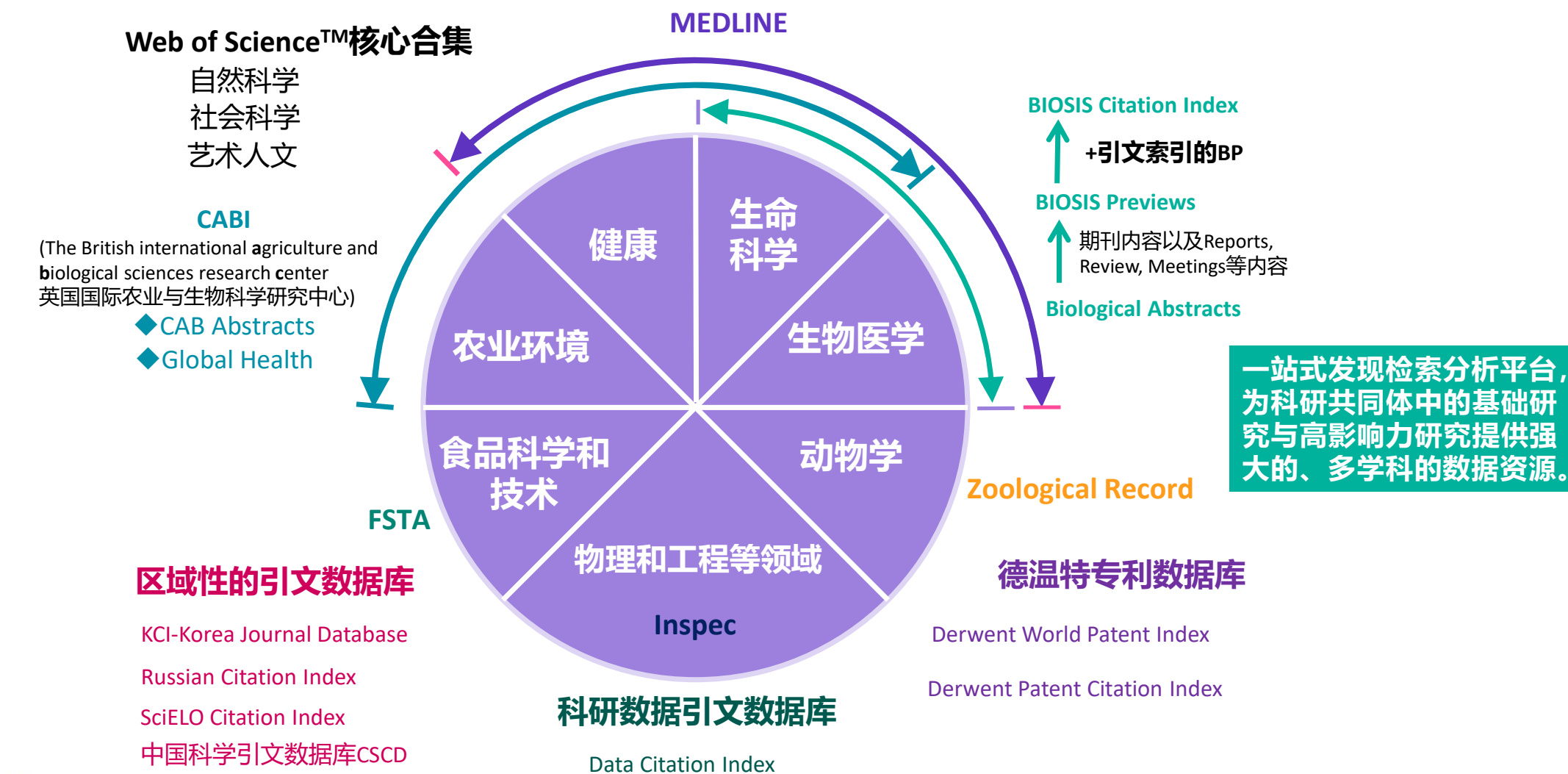
袁庆文
科睿唯安
2021.9.28

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 - ❑ 高效开展课题文献调研
 - ❑ 定期追踪最新研究进展
 - ❑ 文献管理与科研写作好帮手-EndNote
 - ❑ 选择合适的期刊投稿
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1. 数据与资源： Web of Science 简介

Web of Science™平台包含的内容



Web of Science™核心合集数据库



➤ Science Citation Index Expanded (科学引文索引)

178个学科的9500多种高质量学术期刊

➤ Social Sciences Citation Index (社会科学引文索引)

58个社会科学学科的3500多种权威学术期刊

➤ Arts & Humanities Citation Index (艺术与人文引文索引)

收录28个人文艺术领域学科的1800多种国际性、高影响力的学术期刊的数据内容

➤ Emerging Sources Citation Index (ESCI) --2005年至今

期刊
SCI+SSCI+A&HCI



➤ Conference Proceedings Citation Index – Science+ Social Science & Humanities (会议录引文索引– 自然科学版+社会科学与人文版)

超过200,000个会议录，涉及250多个学科

会议
CPCI-S+CPCI-SSH

➤ Book Citation Index - Science + Social Science & Humanities (图书引文索引–自然科学版 + 社会科学与人文版)

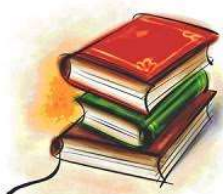
收录超过101,800种学术专著，同时每年增加10,000种新书

图书
BKCI

➤ IC/CCR(化学类数据库)

包括超过100万种化学反应信息及420万种化合物

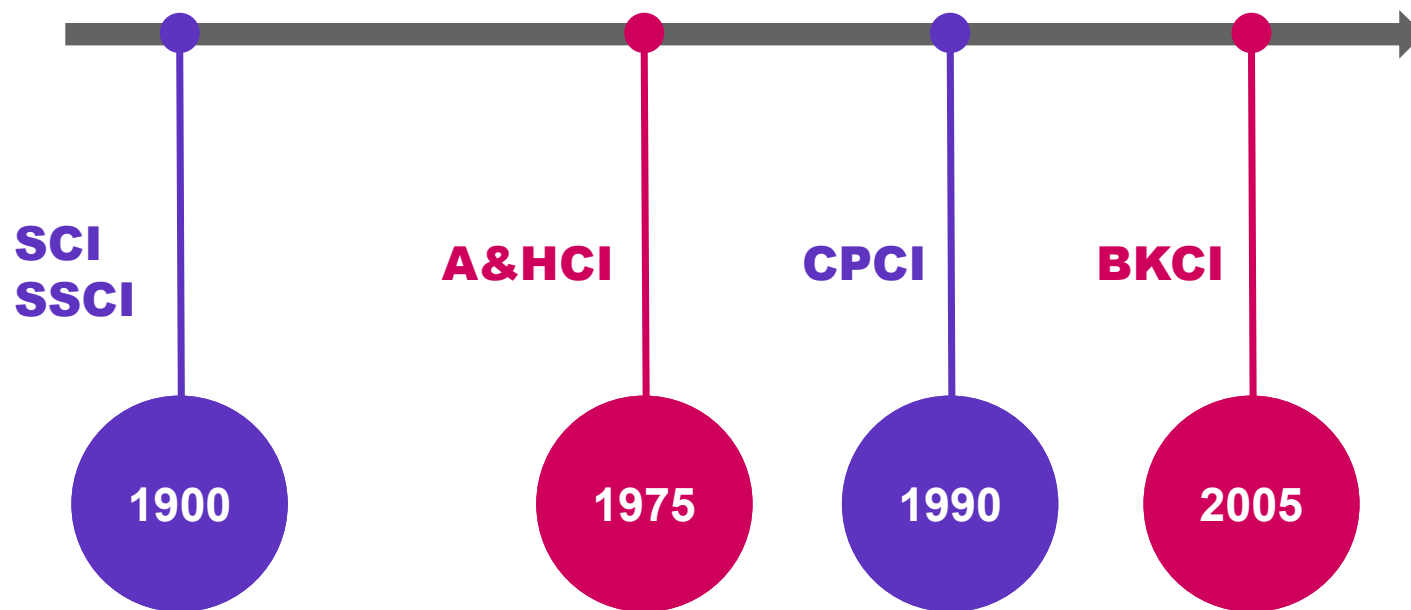
化学式
IC/CCR



Social Sciences Citation Index (SSCI) 学科类别

Anthropology 人类学	Education & Educational Research 教育和教学研究	Health Policy & Services 卫生保健政策和服务	Management 管理学	Psychology, Applied 心理学, 应用	Social Issues 社会问题
Area Studies 区域研究	Education, Special 教育, 特殊	History 历史	Nursing 护理学	Psychology, Biological 心理学, 生物	Social Sciences, Biomedical 社会科学, 生物医学
Business 商业	Environmental Studies 环境研究	History & Philosophy Of Science 历史和科学哲学	Political Science 政治科学	Psychology, Clinical 心理学, 临床	Social Sciences, Interdisciplinary 社会科学, 跨学科
Business, Finance 商业, 财经	Ergonomics 人体工程学	History of Social Sciences 社会科学史	Psychiatry 精神病学	Psychology, Developmental 心理学, 发展	Social Sciences, Mathematical Methods 社会科学, 数学方法
Cultural Studies 文化研究	Ethics 伦理学	Hospitality, Leisure, Sport & Tourism 餐旅、休闲、运动和旅游	Public Administration 公共行政	Psychology, Educational 心理学, 教育	Social Work 社会工作
Communication 通信与传播	Ethnic Studies 民族研究	Industrial Relations & Labor 劳动关系与劳动力	Public, Environmental & Occupational Health 公共事业、环境和职业健康	Psychology, Experimental 心理学, 试验	Sociology 社会学
Criminology & Penology 犯罪学和刑罚学	Family Studies 家族研究	Information Science & Library Science 信息科学与图书馆科学	Regional & Urban Planning 区域和城市规划	Psychology, Mathematical 心理学, 数学	Substance Abuse 滥用药物
Demography 人口学	Geography 地理	International Relations 国际关系	Rehabilitation 康复	Psychology, Multidisciplinary 心理学, 跨学科	Transportation 运输
Development Studies 发展研究	Gerontology 老年医学	Law 法律		Psychology, Psychoanalysis 心理学, 精神分析	Urban Studies 城市研究
Economics 经济学	Green & Sustainable Science & Technology 环保和可持续发展的科学技术	Linguistics 语言学		Psychology, Social 心理学, 社会	Women's Studies 女性研究

Web of Science核心合集百年回溯文献

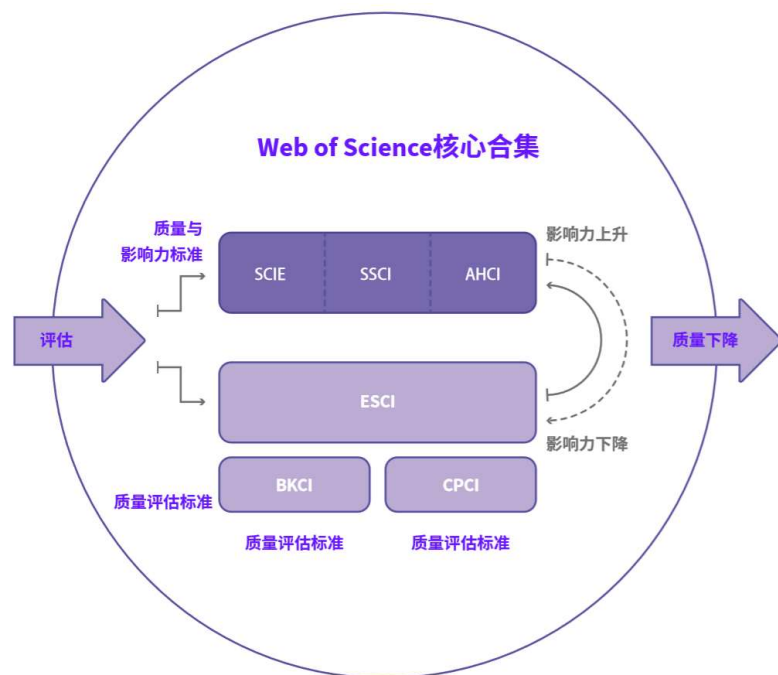


完整梳理理论脉络
了解课题前世今生

- 基于早期的期刊、报告、出版物来定位当前研究；
- 追溯某一观点从首次提出至今的历史脉络与方法论；
- 进行更深入、更全面的检索，并跟踪百年的研究发展趋势。

Web of Science™核心合集数据库

客观、择优、动态收录



- ❖ 根据文献计量学中的布莱福德定律（Bradford's law），在各个学科领域中，少数的核心期刊汇集了足够的信息，反映科学发展中最重要的成果与进展，因而WOS核心合集仅收录各学科领域中的重要学术期刊。



- ❖ Web of Science™核心合集严格遵循50多年来一贯的选刊标准，遴选全球最具学术影响力的高质量期刊。
- ❖ 完整收录每一篇文章的全部信息，包括全面的**引文信息**。

如何查询SCI/SSCI期刊以及最新收录动态？

Clarivate

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Web of Science™

检索

标记结果列表

历史

跟踪服务

探索跨学科内容

来自最值得您信赖的全球引文数据库

选择数据库: Web of Science 核心合集 引文索引: All

文献

作者

被引参考文献

化学结构

所有字段

示例: liver disease india singh

+ 添加行

+ 添加日期范围

高级检索

清除

检索

Web of Science

Web of Science (Classic)

Master Journal List

Publons

使用情况报告

InCites Benchmarking & Analytics

Journal Citation Reports™

Essential Science Indicators


Reference Manager

EndNote

EndNote Click

主期刊列表

主期刊列表-了解SCI 期刊



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molecular pharmaceuticals

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MOLECULAR PHARMACEUTICS

Publisher:

AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, USA, DC, 20036

ISSN / eISSN:

1543-8384 / 1543-8392

Categories:

PHARMACOLOGY & PHARMACY | PHARMACOLOGY & TOXICOLOGY | MEDICINE, RESEARCH & EXPERIMENTAL

Web of Science Core Collection:

Science Citation Index Expanded

Additional Web of Science Indexes:

Biological Abstracts | BIOSIS Previews | Current Contents Life Sciences | Essential Science Indicators

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ISSN / eISSN 1543-8384 / 1543-8392

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General Information

期刊官网

Journal Website

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Publisher Website

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期刊投稿官网

1st Year Published2004

FrequencyBi-monthly

Issues Per Year6


Country / RegionUNITED STATES OF AMERICA

Primary LanguageEnglish

Web of Science Coverage

Collection	Index	Category	Similar Journals ⓘ
Core Collection	Science Citation Index Expanded (SCIE)	Pharmacology & Pharmacy Medicine, Research & Experimental	Find Similar Journals
Current Contents	Life Sciences	Pharmacology & Toxicology	Find Similar Journals
Other	Biological Abstracts	Medicine, Research & Experimental Pharmacology & Pharmacy	Find Similar Journals
Other	BIOSIS Previews	Pharmacology & Pharmacy Medicine, Research & Experimental	Find Similar Journals

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Additional Web of Science Indexes

Web of Science Core Collection

Last Updated: August 21, 2021

The Web of Science Core Collection™ includes the Science Citation Index Expanded™ (SCIE), Social Sciences Citation Index™ (SSCI), Arts & Humanities Citation Index™ (AHCI), and Emerging Sources Citation Index™ (ESCI). Web of Science Core Collection includes only journals that demonstrate high levels of editorial rigor and best practice. The Journal Citation Reports™ includes journals from the SCIE and SSCI.

Each collection list download includes the journal title, ISSN/eISSN, publisher name and address, language, and category.



Science Citation Index Expanded (SCIE)



Social Sciences Citation Index (SSCI)



Arts & Humanities Citation Index (AHCI)



Emerging Sources Citation Index (ESCI)



JCR 2021

Additional Web of Science Indexes

Last Updated: August 21, 2021

下载最新期刊列表

独特

Citation
Index
引文索引

Citation Indexes for Science

A New Dimension in Documentation
through Association of Ideas

Eugene Garfield

"The uncritical citation of disputed data by a writer, whether it be deliberate or not, is a serious matter. Of course, knowingly propagandizing unsubstantiated claims is particularly abhorrent, but just as many naive students may be swayed by unfounded assertions presented by a writer who is unaware of the criticisms. Buried in scholarly journals, critical notes are increasingly likely to be overlooked with the passage of time, while the studies to which they pertain, having been reported more widely, are

approach to subject control of the literature of science. By virtue of its different construction, it tends to bring together material that would never be collated by the usual subject indexing. It is best described as an association-of-ideas index, and it gives the reader as much leeway as he requires. Suggestiveness through association-of-ideas is offered by conventional subject indexes but only within the limits of a particular subject heading.

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

Dr. Eugene Garfield

(1925. 9.16–2017.2.26)

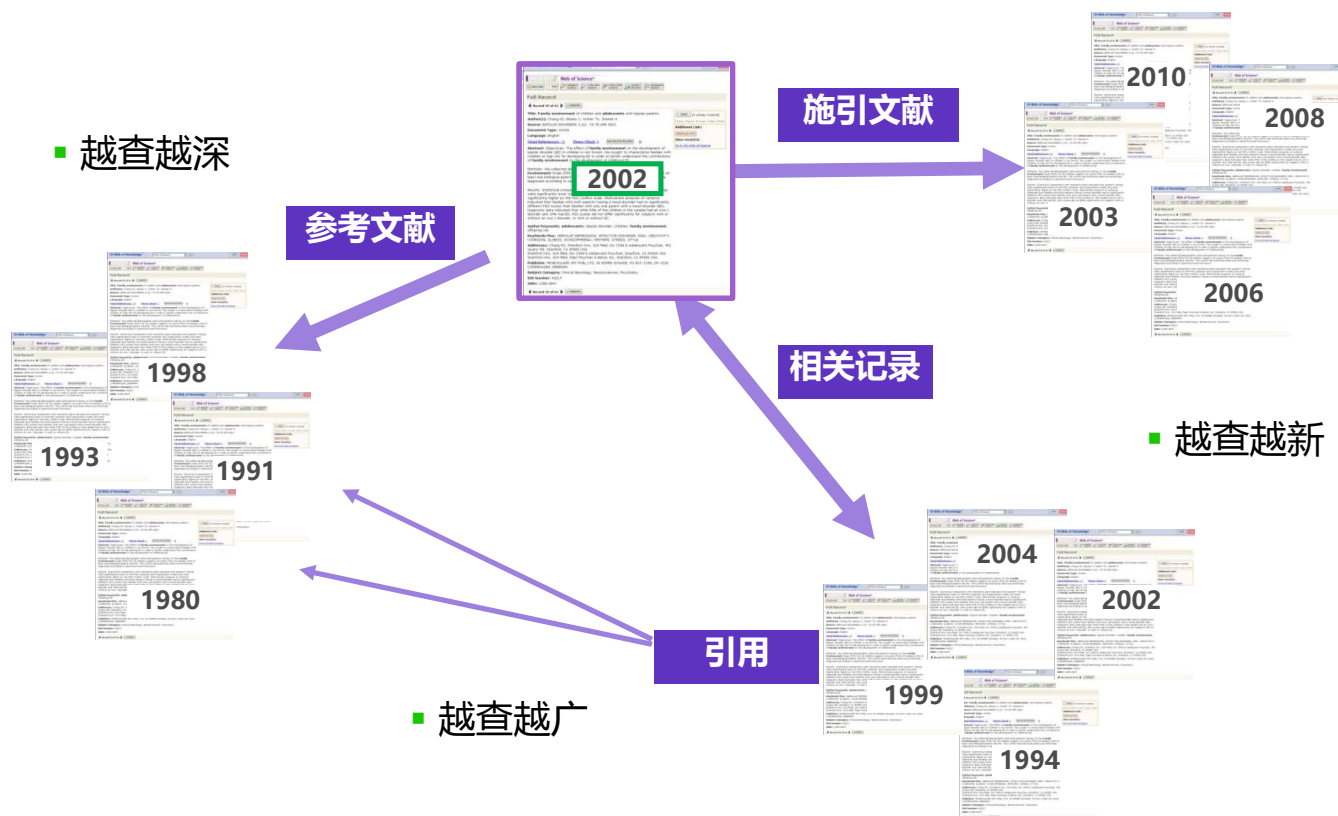
美国情报学家和科学计量学家

美国科学信息研究所创始人

Dr. Garfield 1955年在 *Science* 发表论文提出将引文索引作为一种新的文献检索与分类工具：将**一篇文献**作为检索字段从而跟踪一个Idea的发展过程及学科之间的交叉渗透的关系。

引文网络三维度检索——把握课题脉络 挖掘文献宝藏

从一篇高质量的文献出发，沿着科学研究的发展道路前行



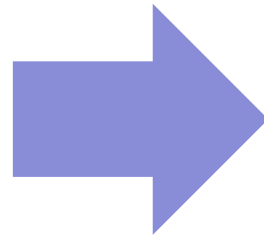
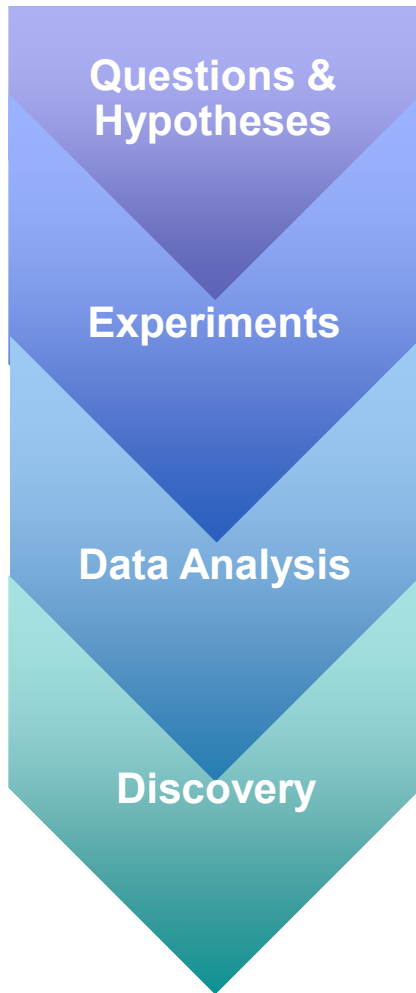
2. Web of Science在科研选题与 投稿选刊中的应用

Research Workflow



- **检索相关研究 分析现有研究结果 发现问题 提出假说**
- **制定实验方案 定义实验步骤 试验 资料汇总**
- **数据可视化 数据验证 调整试验 验证假说**
- **撰写研究论文 发表论文**

Web of Science在科研选题与投稿选刊中的应用

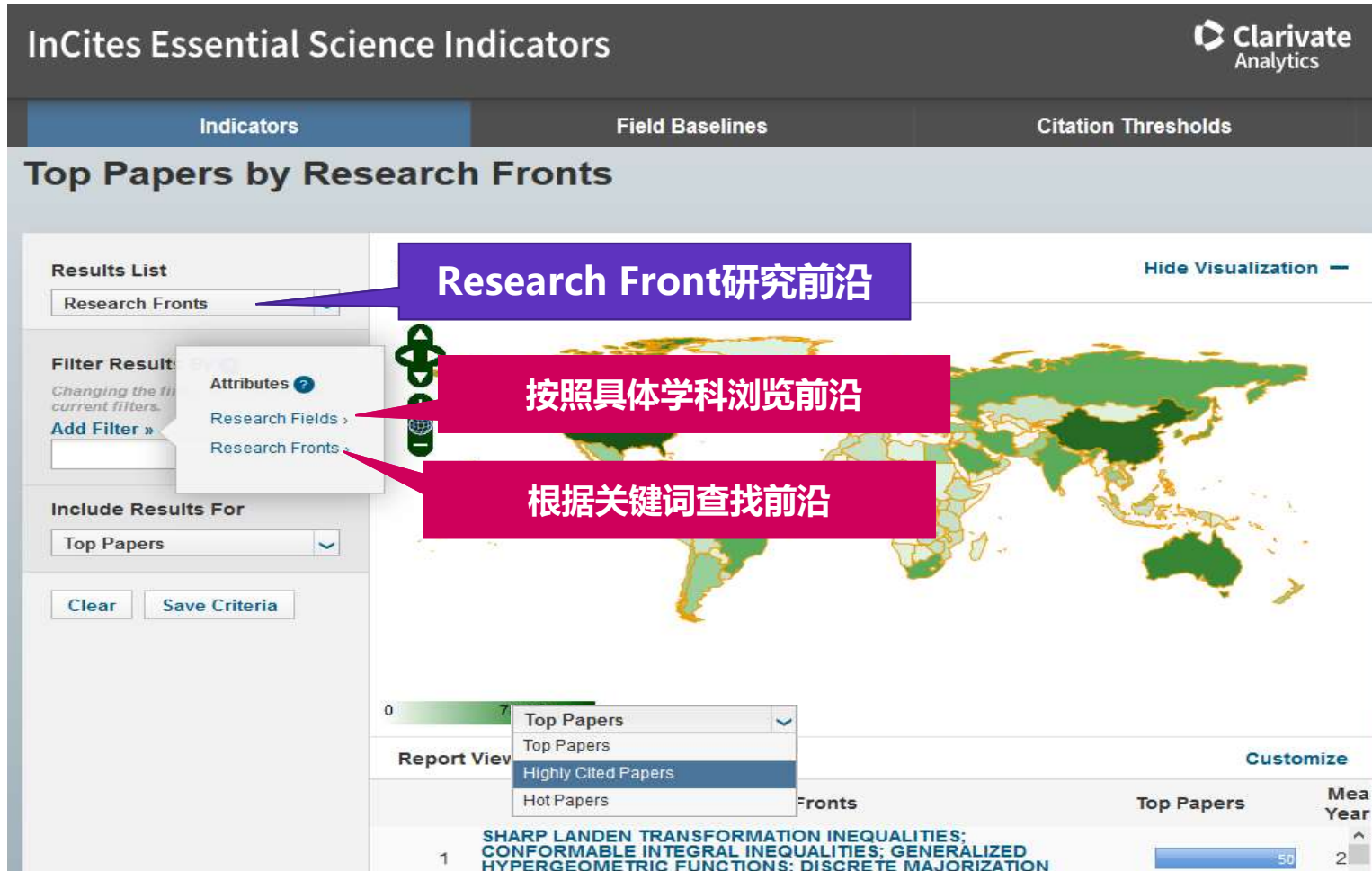


- ❑ 科研选题的思路与方法
- ❑ 高效开展课题文献调研
- ❑ 定期追踪最新研究进展
- ❑ 文献管理与科研写作好帮手-EndNote
- ❑ 选择合适的期刊投稿

选题的方法与思路

如何洞悉本领域的研究前沿？

如何洞悉本领域的研究前沿？



如何洞悉本领域的研究前沿？ 示例：根据关键词获取研究前沿

Results List

Research Fronts

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

topoietic stem cell transplantation

ALLOGENEIC HEMATOPOIETIC ST

NONMYELOABLATIVE HLA-MATCH

Highly Cited Papers

Clear Save Criteria

Highly Cited Papers by Research Fronts

Results List

Research Fronts

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

ALLOGENEIC HEMATOPOIETIC STEM CELL TRANSPLANTATION; THIRD-PARTY FECAL MICROBIOTA TRANSPLANTATION; FECAL MICROBIOTA TRANSPLANTATION; INTESTINAL EPITHELIAL CELL DAMAGE; INTESTINAL MICROBIOTA

NONMYELOABLATIVE HLA-MATCHED SIBLING ALLOGENEIC HEMATOPOIETIC STEM CELL TRANSPLANTATION; HLA-IDENTICAL SIBLING HEMATOPOIETIC STEM CELL TRANSPLANTATION; SEVERE SICKLE CELL PHENOTYPE; SICKLE CELL DISEASE; INTERNATIONAL SURVEY

Include Results For

Highly Cited Papers

Clear Save Criteria

Map View by Top / Hot / Highly Cited Papers

Show Visualization +

Report View by Selection

Customize

	Research Fronts	Highly Cited Papers	Mean Year
1	ALLOGENEIC HEMATOPOIETIC STEM CELL TRANSPLANTATION; THIRD-PARTY FECAL MICROBIOTA TRANSPLANTATION; FECAL MICROBIOTA TRANSPLANTATION; INTESTINAL EPITHELIAL CELL DAMAGE; INTESTINAL MICROBIOTA	7	2016
2	NONMYELOABLATIVE HLA-MATCHED SIBLING ALLOGENEIC HEMATOPOIETIC STEM CELL TRANSPLANTATION; HLA-IDENTICAL SIBLING HEMATOPOIETIC STEM CELL TRANSPLANTATION; SEVERE SICKLE CELL PHENOTYPE; SICKLE CELL DISEASE; INTERNATIONAL SURVEY	2	2015.5

查看核心论文
了解研究细节

Allogeneic hematopoietic
stem cell transplantation
同种异体造血干细胞移植

如何洞悉本领域的研究前沿? Research Fronts 研究前沿报告

科睿唯安与中国科学院合作发布《2014研究前沿》、《2015研究前沿》、《2016研究前沿》
《2017研究前沿》、《2018研究前沿》、《2019研究前沿》、《2020研究前沿》



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如何洞悉本领域的研究前沿? Research Fronts 研究前沿报告

学科分类 (11个大学科领域)

- 农业、植物学和动物学
- 地球科学
- 生物科学
- 物理学
- 数学
- 经济学、心理学及其他社会科学
- 生态与环境科学
- 临床医学
- 化学与材料科学
- 天文学与天体物理学
- 信息科学



七、化学与材料科学

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如何洞悉本领域的研究前沿? Research Fronts 研究前沿报告



表 31 化学与材料科学领域 Top 10 热点前沿

排名	热点前沿	核心论文	被引频次	核心论文平均出版年
1	无铅储能陶瓷	33	2130	2017.9
2	近红外二区荧光探针用于生物医学成像	35	3040	2017.8
3	对映选择性合成阻旋异构体	35	2412	2017.6
4	电化学促进的碳氢键官能团化反应	37	4868	2017.5
5	水系锌离子电池正极材料	39	4733	2017.5
6	有机室温磷光材料	44	3750	2017.5
7	石墨炔研究	25	2329	2017.3
8	氮杂环卡宾催化	19	3865	2016.9
9	仿生肌肉水凝胶	24	3379	2017
10	金属有机框架化合物用于气体分离和纯化	15	2273	2016.9

与工程院合作全球工程前沿

全球工程焦点 2017



《全球工程前沿2020》报告依托中国工程院9个学部，围绕机械与运载工程、信息与电子工程、化工冶金与材料工程、能源与矿业工程、土木水利与建筑工程、环境与轻纺工程、农业、医药卫生、工程管理9个领域，遴选出93项全球工程研究前沿和91项全球工程开发前沿，并筛选出28个工程研究前沿和28个工程开发前沿进行重点解读。

报告中工程研究前沿的遴选基于科睿唯安Web of Science核心合集的引文数据和专家提名，工程开发前沿的遴选基于科睿唯安Derwent Innovation专利数据库中的数据和专家提名及其专利分析。

《2020全球工程前沿》报告下载地址：

https://discover.clarivate.com/EngineeringFronts2020_Download_CN

2020年化工、冶金与材料工程领域Top 10 工程研究前沿

表 1.1.1 化工、冶金与材料工程领域 Top 10 工程研究前沿

序号	工程研究前沿	核心 论文数	被引 频次	篇均被 引频次	平均 出版年
1	用于肿瘤诊疗的智能纳米药物	190	27 890	146.79	2015.7
2	可快速充电电池－电容器储能体系电极材料结构调控及制备	177	27 040	152.77	2016.0
3	强磁场下冶金和材料过程及功能材料制备	139	5431	39.07	2015.8
4	用于骨修复的高性能新型多孔生物材料制备	161	13 121	81.50	2015.8
5	基于二维材料的下一代先进电子元器件研究	86	15 572	181.07	2015.9
6	高效稳健合成太阳燃料	77	6893	89.52	2017.6
7	高能量密度有机系钾离子电池	52	8710	167.50	2017.0
8	高超声速导弹天线罩陶瓷材料	94	4140	44.04	2015.7
9	人工结构量子材料与器件	167	12 065	72.25	2015.5
10	大线能量焊剂基础研究	115	2954	25.69	2015.6

如何高效开展课题调研？

如何高效开展课题调研？

❖ 查找本课题相关的论文

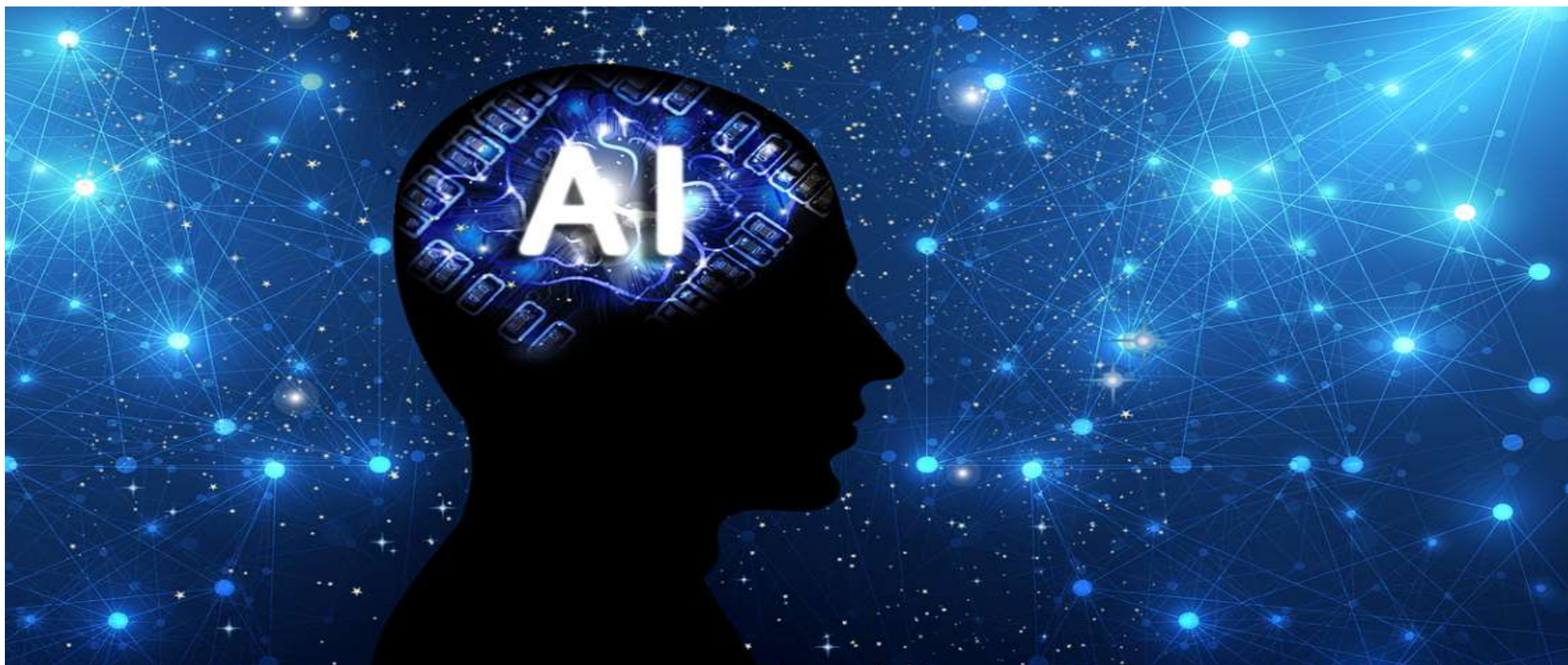
- 如何快速获取该领域的高影响力的论文？

❖ 分析研究进展与发展趋势

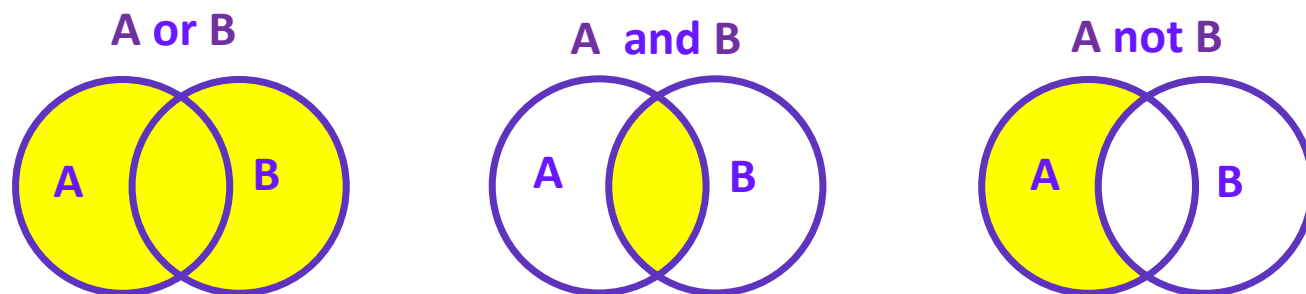
- ✓ 了解某特定课题在不同学科的分布情况
- ✓ 分析某研究课题的总体发展趋势
- ✓ 了解与自己研究方向有关的科研机构
- ✓ 找到该研究课题中潜在的合作伙伴
- ✓ 密切关注该研究领域的顶尖研究小组的发表成果

如何积累SCI论文阅读与写作技能？

人工智能 Artificial Intelligence



巧用运算符/通配符



运算符 (英文)	检索结果	检索式	作用
" "	aquatic ecosystem	"aquatic ecosystem"	精确检索短语
*	gene, genetics, generation等	gene*	代表≥0个字符
?	women;woman等	wom?n	代表1个字符
\$	color,colour等	colo\$r	代表0或1个字符

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1 Random forests
Breiman, L.
Oct 2001 | MACHINE LEARNING 45 (1), pp.5-32
Random forests are a combination of tree predictors such that each tree depends on the values of a random vector sampled independently and with the same distribution for all trees in the forest. The generalization error for forests converges a.s. to a limit as the number of trees in the forest becomes large. The generalization error of a forest of tree classifiers ... 显示更多
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42,409 被引频次
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2 Distinctive image features from scale-invariant keypoints
Lowe, DG
Nov 2004 | INTERNATIONAL JOURNAL OF COMPUTER VISION 60 (2), pp.91-110
This paper presents a method for extracting distinctive invariant features from images that can be used to perform reliable matching between different views of an object or scene. The features are invariant to image scale and rotation, and are shown to provide robust matching across a substantial range of affine distortion, change in 3D viewpoint, addi ... 显示更多
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3 Particle swarm optimization
Kennedy, J and Eberhart, R
1995 IEEE International Conference on Neural Networks (ICNN 95)
1995 | 1995 IEEE INTERNATIONAL CONFERENCE ON NEURAL NETWORKS PROCEEDINGS, VOLS 1-6, pp.1942-1948
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1 **Deep learning** 23,551 被引频次

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

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

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2 **Scikit-learn: Machine Learning in Python** 20,458 被引频次

Pedregosa, F; Varoquaux, G; (...); Duchesnay, E
Oct 2011 | JOURNAL OF MACHINE LEARNING RESEARCH 12 , pp.2825-2830

Scikit-learn is a Python module integrating a wide range of state-of-the-art machine learning algorithms for medium-scale supervised and unsupervised problems. This package focuses on bringing machine learning to non-specialists using a general-purpose high-level language. Emphasis is put on ease of use, performance, documentation, and API co ... 显示更多

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作者: LeCun, Y (LeCun, Yann) ^{1, 2}; Bengio, Y (Bengio, Yoshua) ³; Hinton, G (Hinton, Geoffrey) ^{4, 5}

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NATURE

卷: 521 期: 7553 页: 436-444

DOI: 10.1038/nature14539

出版时间: MAY 28 2015

文献类型: Review

摘要

Deep learning allows computational models that are composed of multiple layers of abstraction. These methods have dramatically improved the state-of-the-art in many other domains such as drug discovery and genomics. Deep learning discloses a general algorithm to indicate how a machine should change its internal parameters to improve its representation in the previous layer. Deep convolutional nets have brought about state-of-the-art performance in image recognition, while recurrent neural networks have shined on sequential data such as text processing.

关键词

Keywords Plus: NEURAL-NETWORK; ARCHITECTURE; RECURRENT-NEURAL-NETWORK

作者信息

通讯作者地址: LeCun, Yann (通讯作者)

Facebook AI Res, 770 Broadway, New York, NY 10013

地址:



Yann LeCun

Yoshua Bengio

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1 Mastering the game of Go with deep neural networks and tree search 4,583 被引频次

Silver, D; Huang, A; (...); Hassabis, D

Jan 28 2016 | NATURE 529 (7587) , pp.484+

The game of Go has long been viewed as the most challenging of classic games for artificial intelligence owing to its enormous search space and the difficulty of evaluating board positions and moves. Here we introduce a new approach to computer Go that uses 'value networks' to evaluate board positions and 'policy networks' to select moves. These der ... 显示更多

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2 Dermatologist-level classification of skin cancer with deep neural networks 3,538 被引频次

Esteva, A; Kuprel, B; (...); Thrun, S

Feb 2 2017 | NATURE 542 (7639) , pp.115+

Skin cancer, the most common human malignancy(1-3), is primarily diagnosed visually, beginning with an initial clinical screening and followed potentially by dermoscopic analysis, a biopsy and histopathological examination. Automated classification of skin lesions using images is a challenging task owing to the fine-grained variability in th ... 显示更多

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3 Mastering the game of Go without human knowledge 2,118 被引频次

Silver, D; Schrittwieser, J; (...); Hassabis, D

Oct 19 2017 | NATURE 550 (7676) , pp.354+

A long-standing goal of artificial intelligence is an algorithm that learns, tabula rasa, superhuman proficiency in challenging domains. Recently, AlphaGo became the first program to defeat a world champion in the game of Go. The tree search in AlphaGo evaluated positions and selected moves using deep neural networks. These neural networks v ... 显示更多



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1 Multiple object recognition with visual attention
[Ba, J.](#), [Mnih, V.](#) and [Kavukcuoglu, K.](#)
In Proc. International Conference on Learning Representations
2014 |
URL: <http://arxiv.org/abs/1412.7755>




2
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2 Neural machine translation by jointly learning to align and translate
[Bahdanau, D.](#), [Cho, K.](#) and [Bengio, Y.](#)
Proc. Int. Conf. Learn. Representations
2015 |



246
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0
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8 Representation Learning: A Review and New Perspectives
[Bengio, Y.](#), [Courville, A.](#) and [Vincent, P.](#)
Aug 2013 | [IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE](#) 35 (8) , pp.1798-1801
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1 The Understanding of Deep Learning: A Comprehensive Review

Mishra, RK; Reddy, GYS and Pathak, H
Apr 5 2021 | MATHEMATICAL PROBLEMS IN ENGINEERING 2021

Deep learning is a computer-based modeling approach, which is made up of many processing layers that are used to understand the representation of data with several levels of abstraction. This review paper presents the state of the art in deep learning to highlight the major challenges and contributions in computer vision. This work mainly give: ... 显示更多

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2 Deep Learning

Goodfellow, I; Bengio, Y and Courville, A
2016 | DEEP LEARNING, pp.1-775

4,167 被引频次

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3 Deep learning in neural networks: An overview

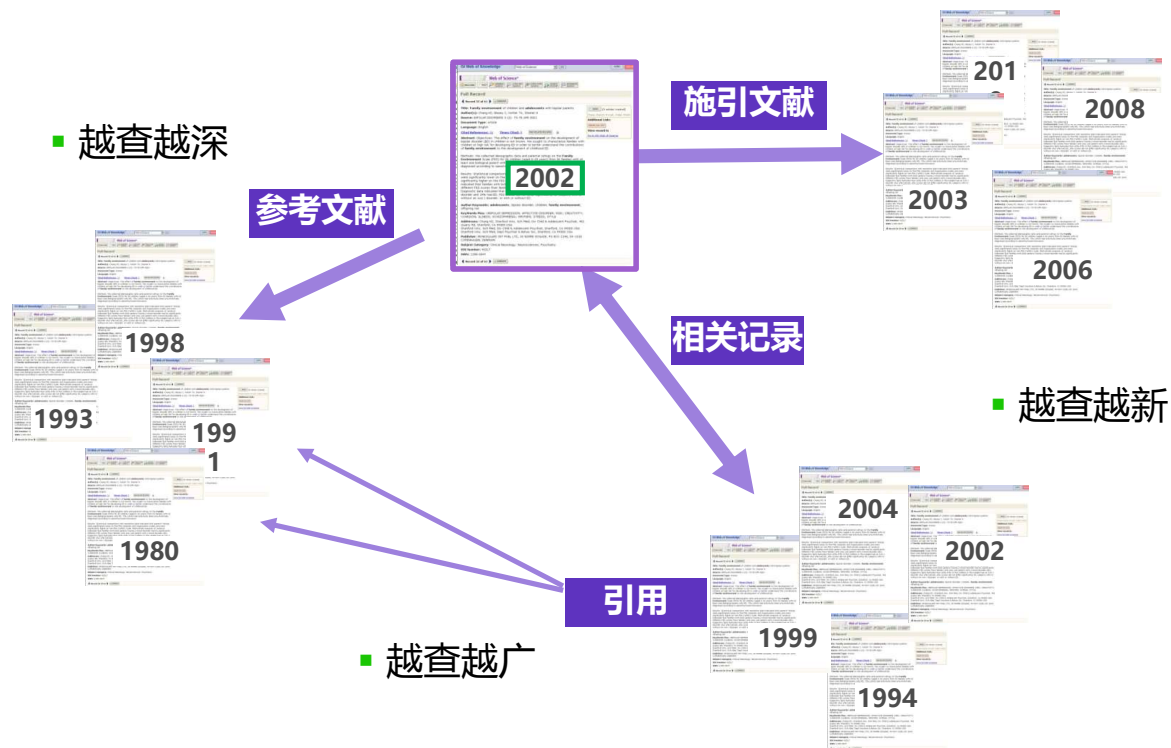
Schmidhuber, J
Jan 2015 | NEURAL NETWORKS 61, pp.85-117

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Deep learning

作者: LeCun, Y (LeCun, Yann)^{1, 2}; Bengio, Y (Bengio, Yoshua)³; Hinton, G (Hinton, Geoffrey)^{4, 5}

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卷: 521 期: 7553 页: 436-444

DOI: 10.1038/nature14539

出版时间: MAY 28 2015

文献类型: Review

摘要

Deep learning allows computational models that are composed of multiple layers of abstraction. These methods have dramatically improved the state-of-the-art in a wide variety of other domains such as drug discovery and genomics. Deep learning discourse has largely been restricted to how a machine should change its internal parameters to indicate how a machine should change its internal parameters to represent in the previous layer. Deep convolutional nets have been used for visual recognition, whereas recurrent nets have shone light on sequential data such as text processing.

关键词


Keywords Plus: NEURAL-NETWORK; ARCHITECTURE; RECURRENT NEURAL NETWORK; DEEP LEARNING; CONVOLUTIONAL NEURAL NETWORK; MACHINE LEARNING; ARTIFICIAL NEURAL NETWORK; DEEP CONVOLUTIONAL NEURAL NETWORK; DEEP RECURRENT NEURAL NETWORK; DEEP BELIEF NETWORK; DEEP GENERATIVE STochastic MODEL; DEEP NEURAL NETWORK; DEEP CONVOLUTIONAL NEURAL NETWORK; DEEP RECURRENT NEURAL NETWORK; DEEP BELIEF NETWORK; DEEP GENERATIVE STochastic MODEL; DEEP NEURAL NETWORK

作者信息

通讯作者地址: LeCun, Yann (通讯作者)

Facebook AI Res, 770 Broadway, New York, NY 10013

地址:



Yann LeCun

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Lozano, A; Suarez, JS; Fernandez, E; et al.
Neurolight: A Deep Learning Neural Interface
for Cortical Visual Prostheses

INTERNATIONAL JOURNAL OF NEURAL
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Dong, JB; Cao, Z; Xie, Y; et al.
EFLOPS: Algorithm and System Co-design for a
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2020 IEEE INTERNATIONAL SYMPOSIUM ON
HIGH PERFORMANCE COMPUTER
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Yu, F; Wei, YX; Yu, HG;
Research on Target Recognition Method Based
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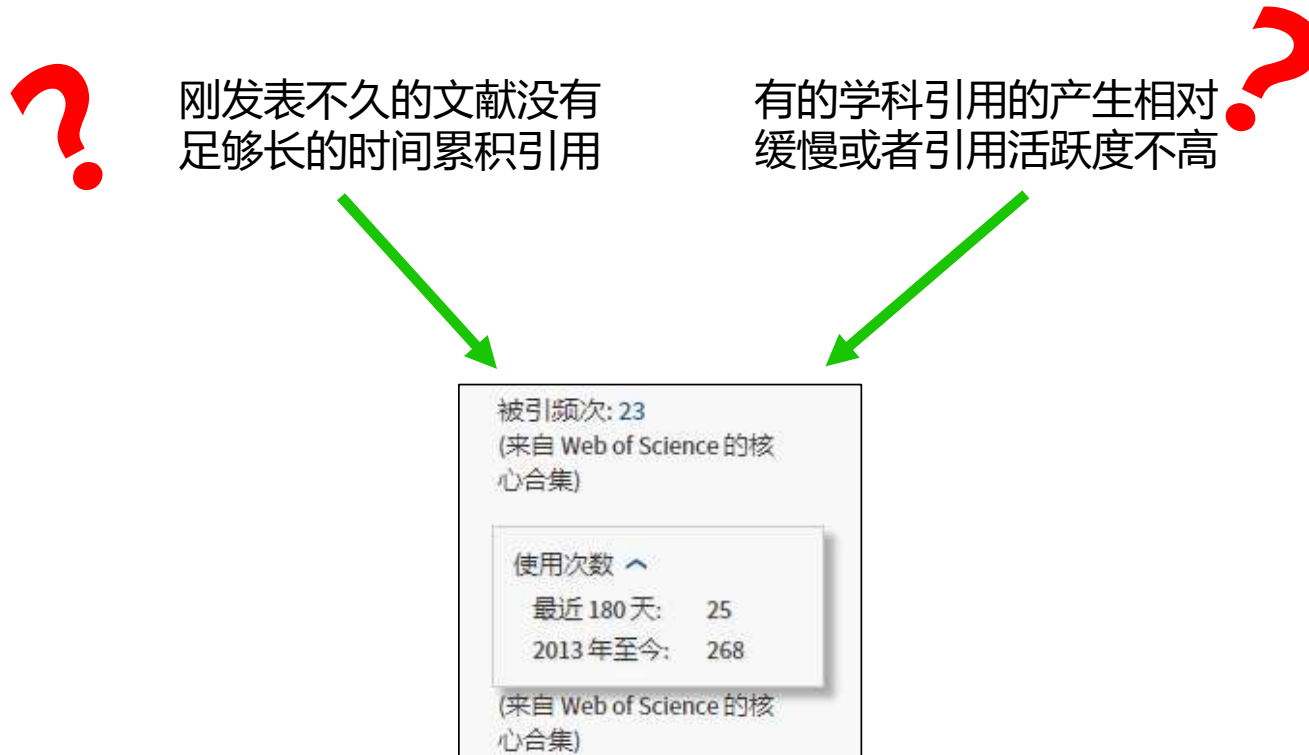
Chen, LJ; Qu, H; Zhao, JH;
Generalized Correntropy Induced Loss
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Determination of food doneness remains a challenge for automation in the cooking industry. The complex physicochemical processes that occur during cooking require a combination of several methods for their control. Herein, we utilized an electronic nose and computer vision to check the cooking state of grilled chicken. Thermogravimetry, c ... 显示更多
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Wang, Y; Li, LQ; (...); Zhang, ZZ
Sep 2021 | JOURNAL OF FOOD ENGINEERING 304
Polyphenol and catechin are key components in black tea processing, contributing to both taste and color quality. However, the rapid detection methods that are applicable throughout the processing stages are lacking. Here, we explored the potential of miniature near-infrared spectroscopy and self-built computer vision. Fresh tea leaves, and the samples ... 显示更多

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LeCun, Y; Bengio, Y and Hinton, G

May 28 2015 | NATURE 521 (7553) , pp.436-444

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

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Simon, P and Gogotsi, Y

Nov 2008 | NATURE MATERIALS 7 (11) , pp.845-854

Electrochemical capacitors, also called supercapacitors, store energy using either ion adsorption (electrochemical double layer capacitors) or fast surface redox reactions (pseudo-capacitors). They can complement or replace batteries in electrical energy storage and harvesting applications, when high power delivery or uptake is needed. A notable improve ... 显示更多

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Breiman, L

Oct 2001 | MACHINE LEARNING 45 (1), pp.5-32

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Lowe, DG

Nov 2004 | INTERNATIONAL JOURNAL OF COMPUTER VISION 60 (2), pp.91-110

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MEGA4: Molecular evolutionary genetics analysis (MEGA) software version 4.0

Tamura, K; Dudley, J; (...); Kumar, S

Aug 2007 | MOLECULAR BIOLOGY AND EVOLUTION 24 (8), pp.1596-1599

We announce the release of the fourth version of MEGA software, which expands on the existing facilities for editing DNA sequence data from autosequencers, mining Web-databases, performing automatic and manual sequence alignment, analyzing sequence alignments to estimate evolutionary distances, ... [显示更多](#)

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Huang, T and Zhang, XY

Jan 2022 | INTERNATIONAL REVIEW OF ECONOMICS & FINANCE 77 , pp.59-77

This paper investigates the cross-sectional relation between industry-level media tone returns in China. Using a machine learning technique to establish a proxy for industry-level media tone, we find that stocks in industries with more positive media tone earn significantly higher future returns.

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Wang, C; Zhang, Y; (...); Gong, X

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Zhang, H; Shi, YX; (...); Zhou, RL

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[Simon, P and Gogotsi, Y](#)

Nov 2008 | [NATURE MATERIALS](#) 7 (11) , pp.845-854

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[Schmidhuber, J](#)

Jan 2015 | [NEURAL NETWORKS](#) 61 , pp.85-117

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作者: Pauly, D (Pauly, Daniel)¹; Zeller, D (Zeller, Dirk)¹
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Fisheries data assembled by the Food and Agriculture Organization (FAO) suggest that global marine fisheries catches increased to 86 million tonnes in 1996, then slightly declined. Here, using a decade-long multinational 'catch reconstruction' project covering the Exclusive Economic Zones of the world's maritime countries and the High Seas from 1950 to 2010, and accounting for all fisheries, we identify catch trajectories differing considerably from the national data submitted to the FAO. We suggest that catch actually peaked at 130 million tonnes, and has been declining much more strongly since. This decline in reconstructed catches reflects declines in industrial catches and to a smaller extent declining discards,

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Nature Communications (2016)



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Received 27 Feb 2015 | Accepted 19 Nov 2015 | Published 19 Jan 2016

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Daniel Pauly¹ & Dirk Zeller¹

Fisheries data assembled by the Food and Agriculture Organization (FAO) suggest that global marine fisheries catches increased to 86 million tonnes in 1996, then slightly declined. Here, using a decade-long multinational 'catch reconstruction' project covering the Exclusive Economic Zones of the world's maritime countries and the High Seas from 1950 to 2010, and accounting for all fisheries, we identify catch trajectories differing considerably from the national data submitted to the FAO. We suggest that catch actually peaked at 130 million tonnes, and has been declining much more strongly since. This decline in reconstructed catches reflects declines in industrial catches and to a smaller extent declining discards,

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Breiman, L
Oct 2001 | MACHINE LEARNING 45 (1), pp.5-32
Random forests are a combination of tree predictors such that each independently and with the same distribution for all trees in the forest limit as the number of trees in the forest becomes large. The generalization ability of the resulting ensemble classifier is proven to be robust to overfitting and to be comparable with the performance of the best individual tree predictor. The ensemble method is also shown to be robust to variations in the data and to be able to handle a large number of features. The method is applied to a variety of tasks, including image classification, text classification, and regression. [出版商处的全文](#) [查看关联数据](#) ***

2 Distinctive image features from scale-invariant keypoints
Lowe, DG
Nov 2004 | INTERNATIONAL JOURNAL OF COMPUTER VISION 60 (2), pp.91-110
This paper presents a method for extracting distinctive invariant features from images that can be used to perform reliable matching between different views of an object or scene. The features are invariant to image scale and rotation, and are shown to provide robust matching across a substantial range of affine distortion, change in 3D viewpoint, addition of noise, and non-linear transformations. The method is applied to a variety of tasks, including image classification, image retrieval, and object tracking. [出版商处的全文](#) ***

3 Particle swarm optimization
Kennedy, J and Eberhart, R
1995 IEEE International Conference on Neural Networks (ICNN 95)
1995 | 1995 IEEE INTERNATIONAL CONFERENCE ON NEURAL NETWORKS PROCEEDINGS, VOLS 1-6, pp.1942-1948
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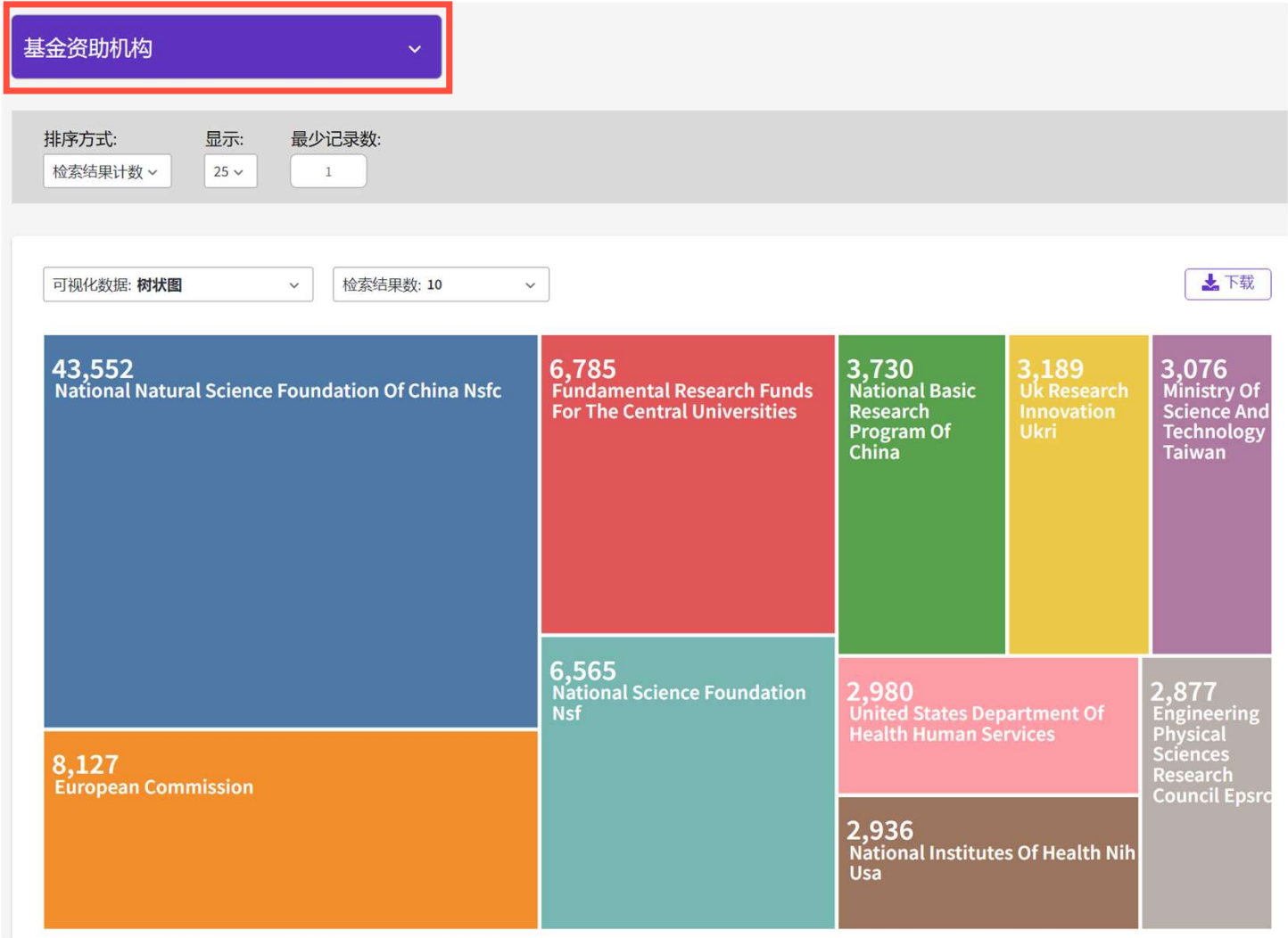
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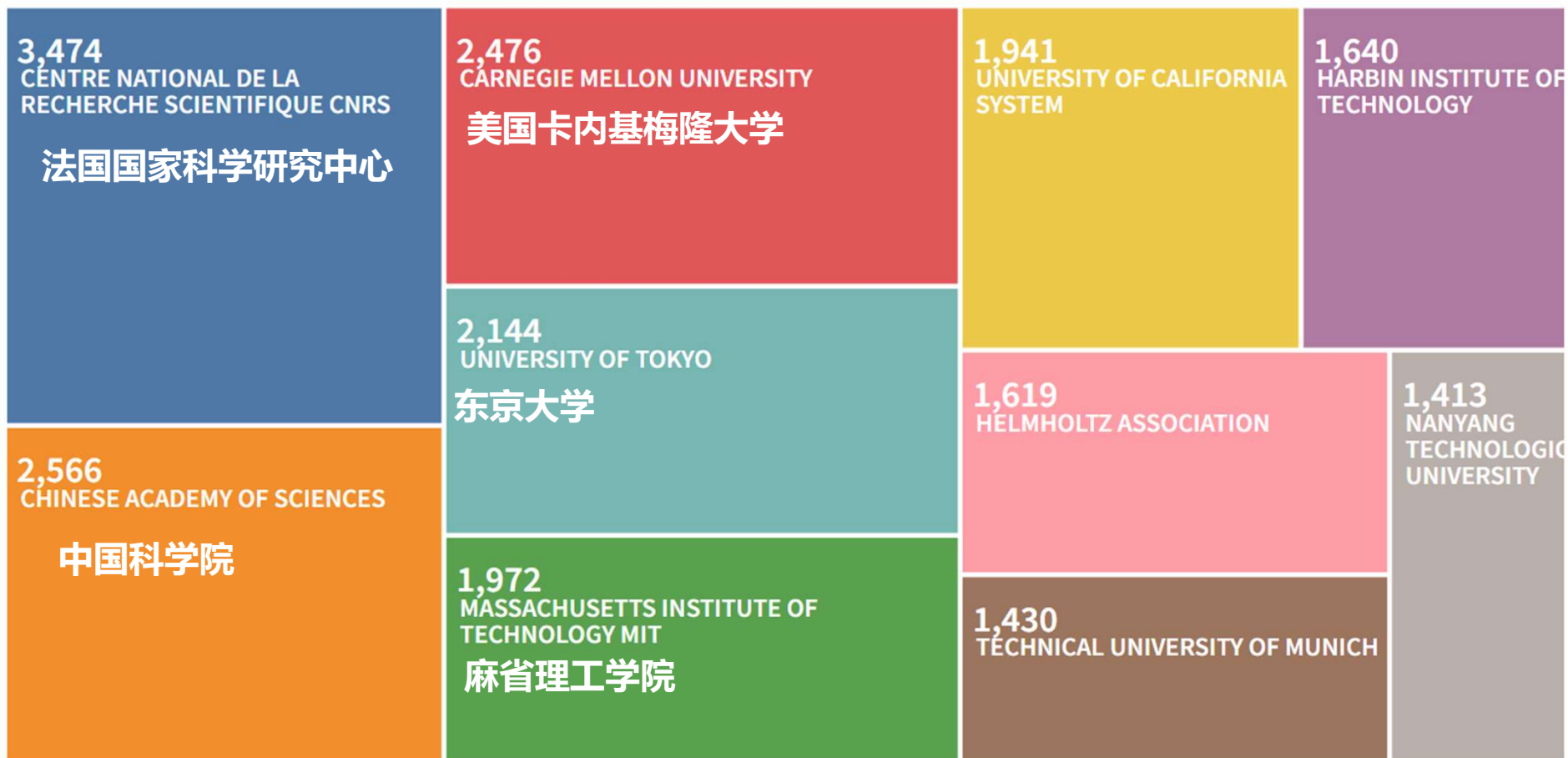
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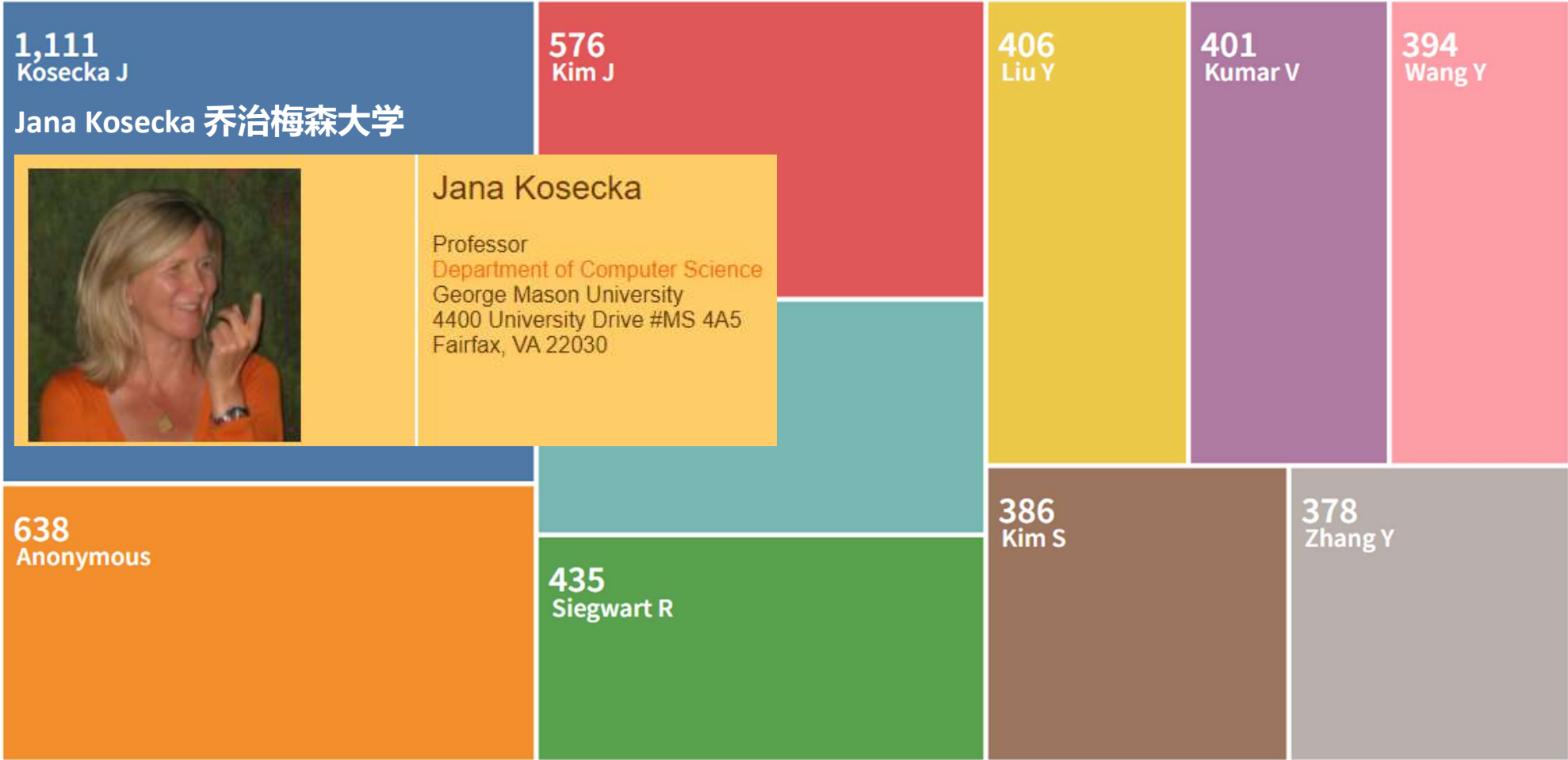
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1

 Effects of heavy metal accumulation on the 96-h LC50 values in tench *Tinca tinca* L., 1758

[Shah, SL and Altindag, A](#)

2005 | [Turkish Journal Of Veterinary & Animal Sciences](#)

The effects of already accumulated heavy metals (Hg, Cd, Pb) in the body of tench on the 96-h LC50 values of the respective heavy metals were studied. The body concentration of mercury, cadmium and lead was 0.011, 0.32 and 1.59 mg/g respectively, and their 96-h LC50 values were 1.0, 6.5 and 300.0, ppm, respectively. The general accumulation order c ... [显示更多](#)

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 Indicator tissues for heavy metal monitoring - Additional attributes

[Rayment, GE and Barry, GA](#)

Jul-Dec 2000 | [Marine Pollution Bulletin](#)

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
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Microstructures and properties of high-entropy alloys

作者: Zhang, Y (Zhang, Yong)¹; Zuo, TT (Zuo, Ting Ting)¹; Tang, Z (Tang, Zhi)²; Gao, MC (Gao, Michael C.)^{3, 4}; Dahmen, KA (Dahmen, Karin A.)⁵; Liaw, PK (Liaw, Peter K.)²; Lu, ZP (Lu, Zhao Ping)¹

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PROGRESS IN MATERIALS SCIENCE
卷: 61 页: 1-93
DOI: 10.1016/j.pmatsci.2013.10.001
出版时间: APR 2014
文献类型: Review

摘要
This paper reviews the recent research and development of high-entropy alloys (HEAs). HEA more than five principal elements in equal or near equal atomic percent (at.%). The concept advanced materials with unique properties, which cannot be achieved by the conventional element. Up to date, many HEAs with promising properties have been reported, e.g., high w Al0.2Co1.5CrFeNi1.5Ti alloys; high-strength body-centered-cubic (BCC) AlCoCrFeNi HEAs at temperatures. Furthermore, the general corrosion resistance of the Cu0.5NiAlCoCrFeSi HEA steel. This paper first reviews HEA formation in relation to thermodynamics, kinetics, and processing. Physical, magnetic, chemical, and mechanical properties are then discussed. Great details are provided on the plastic deformation, fracture, and magnetization from the perspectives of crackling noise and Barkhausen noise measurements, and the analysis of serrations on stress-strain curves at specific strain rates or testing temperatures, as well

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1

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353

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The effects of already accumulated heavy metals (Hg, Cd, Pb) in the body of tench on the 96-h LC50 values of the respective heavy metals were studied. The body concentration of mercury, cadmium and lead was 0.011, 0.32 and 1.59 mg/g respectively, and their 96-h LC50 values were 1.0, 6.5 and 300.0, ppm, respectively. The general accumulation order (... 显示更多

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Jul-dec 2005 | Marine Pollution Bulletin

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autophagy references (0)

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cell reference (0)

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Outstanding tensile proper room and cryogenic tempe

Tong, Y; Chen, D; (...); Kai, JJ

Feb 15 2019 | ACTA MATERIALIA 165

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2

Phase stability in high entr

Guo, S and Liu, CT

Dec 2011 | PROGRESS IN NATURAL

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pp.433-446

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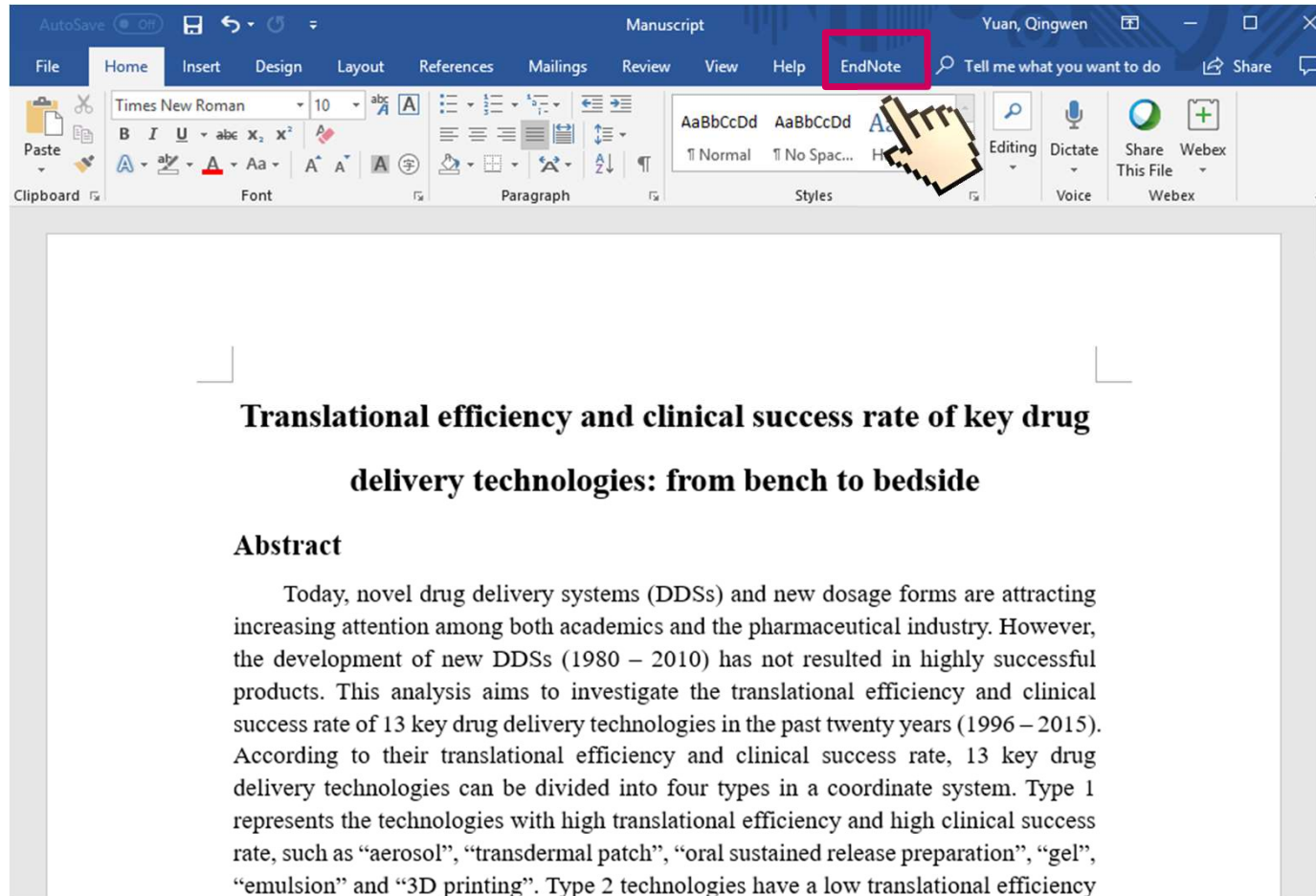
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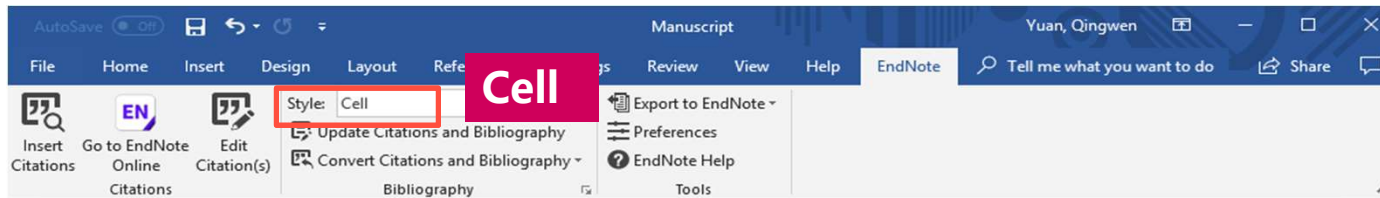
Translational efficiency and clinical success rate of key delivery technologies: from bench to bedside

Abstract

Today, novel drug delivery systems (DDSs) and new dosage forms are attracting increasing attention among both academics and the pharmaceutical industry. However, the development of new DDSs (1980 – 2010) has not resulted in highly successful products. This analysis aims to investigate the translational efficiency and clinical success rate of 13 key drug delivery technologies in the past twenty years (1996 – 2016). According to their translational efficiency and clinical success rate, 13 key drug delivery technologies can be divided into four types in a coordinate system. Type 1 represents the technologies with high translational efficiency and high clinical success rate, such as “aerosol”, “transdermal patch”, “oral sustained release preparation”, “emulsion” and “3D printing”. Type 2 technologies have a low translational efficiency and high clinical success rate and only include “cyclodextrin”. Type 3 represents technologies with translational efficiency and low clinical success rate, including “microspheres”, “microneedle”, “antibody-drug-conjugate”, and “liposome”. Type 4 technologies have low translational efficiency and low clinical success rate, such as “gene therapy” and “nanoparticle”. Type 1 and type 2 techniques have high technology readiness levels as most of them are the first generation (1G) drug delivery technologies.

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1. Introduction

R&D productivity in the pharmaceutical industry has declined over the past two decades, and a recent article (Hay et al., 2014) found that the clinical success rates showed a downward trend at all phases in the past ten years. Over 90% of potential new

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molecular entities (NMEs) at

How to improve clinical success

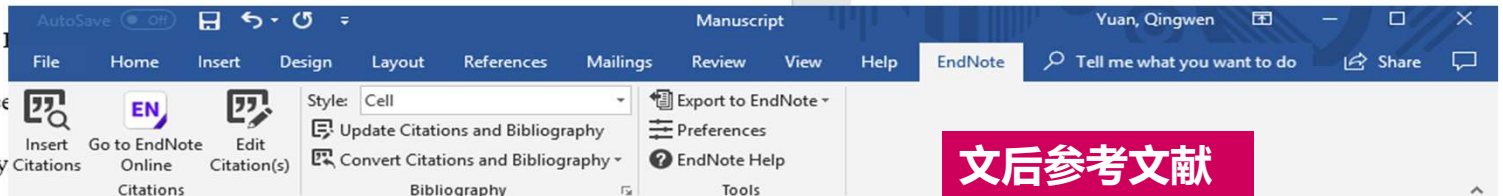
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Today, novel drug delivery

and more attention, and are w

industry(Rowland et al., 2012

number and clinical trials on

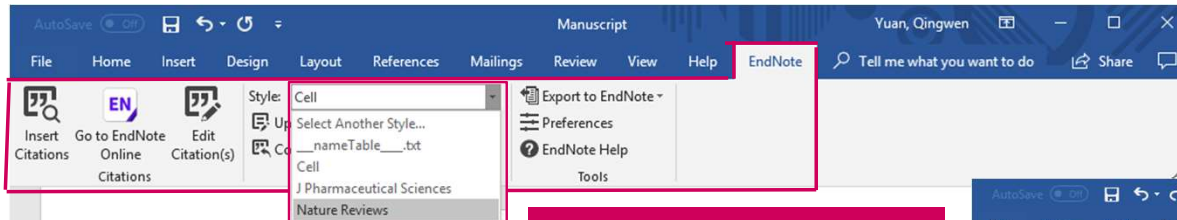


References

Hafren, A., Ustun, S., Hochmuth, A., Svenning, S., Johansen, T., and Hofius, D. (2018). Turnip Mosaic Virus Counteracts Selective Autophagy of the Viral Silencing Suppressor HCpro. *Plant Physiology* 176, 649-662.

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选择Nature Reviews

Cell

References

Hafren, A., Ustun, S., Hochmuth, A., Svenning, S., Johansen, T., and Hofius, D. (2018). Turnip Mosaic Virus Counteracts Selective Autophagy of the Viral Silencing Suppressor HCpro. *Plant Physiology* 176, 649-662.

Hay, M., Thomas, D. W., Craighead, J. L., Economides, C., and Rosenthal, J. (2014). Clinical development success rates for investigational drugs. *Nat Biotechnol* 32, 40-51.

Ouyang, D., and Smith, S. C. (2015). *Computational Pharmaceutics: Application of Molecular Modeling in Drug Delivery*. John Wiley & Sons: London, UK.

Park, K. (2016). Drug delivery of the future: Chasing the invisible gorilla. *J Control Release* 240, 2-8.

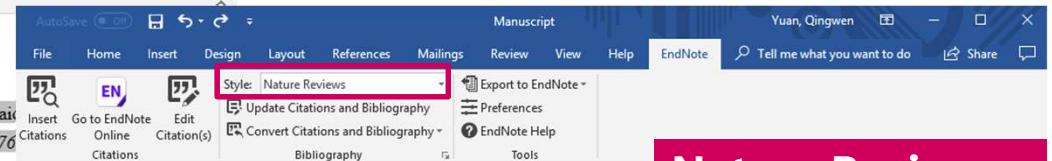
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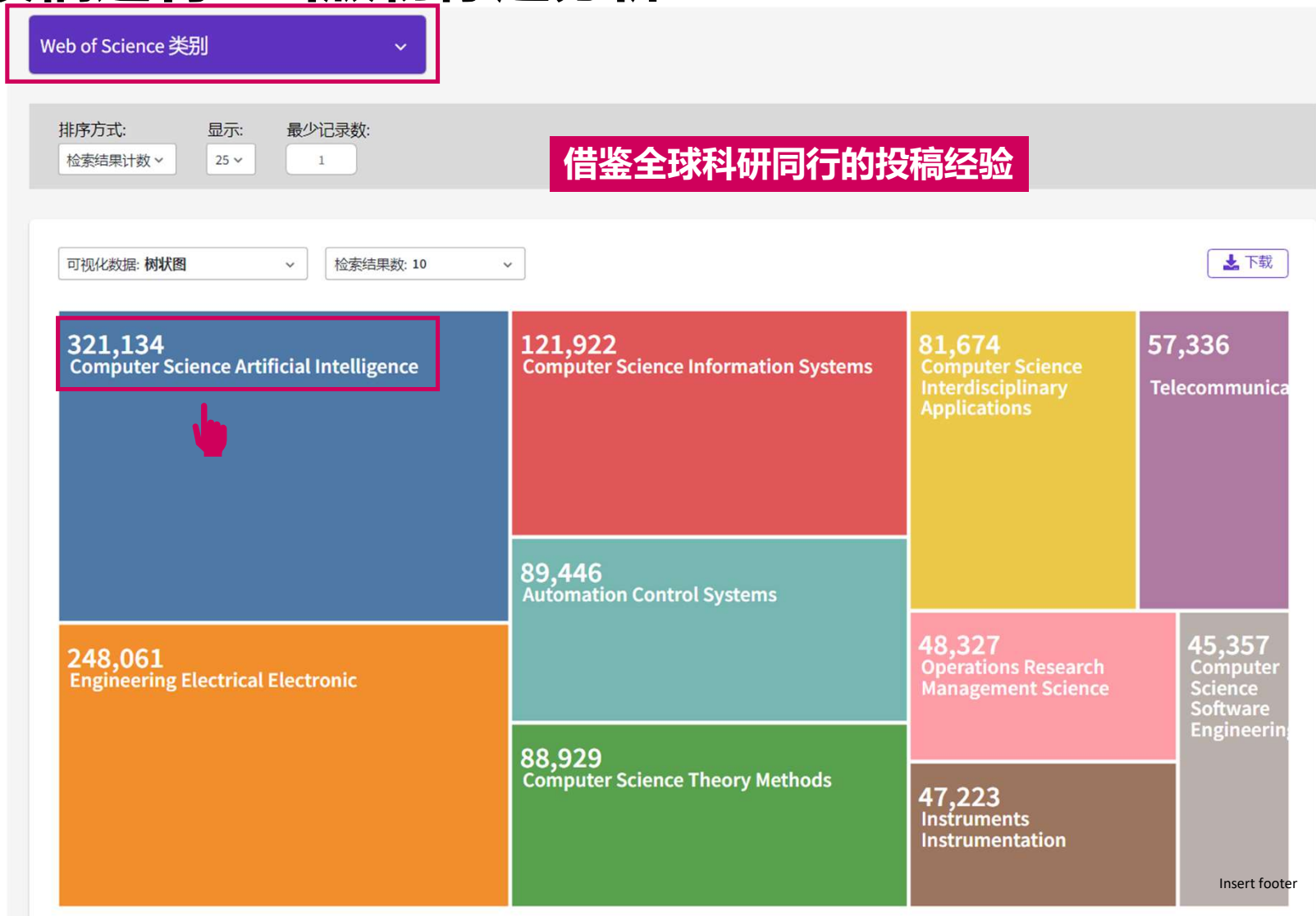
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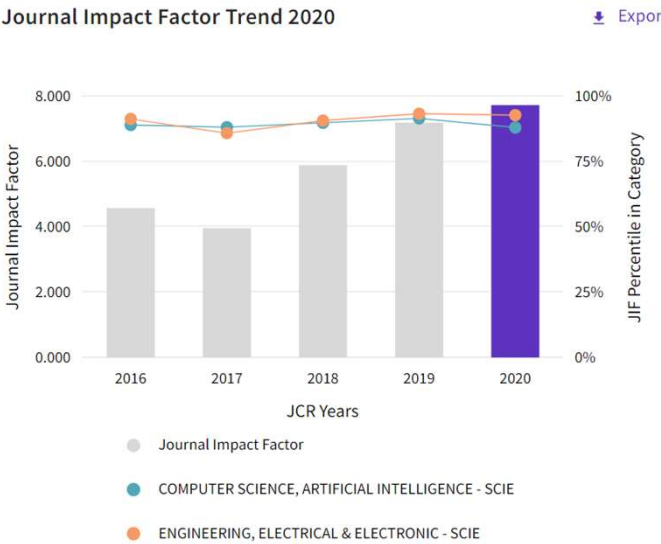
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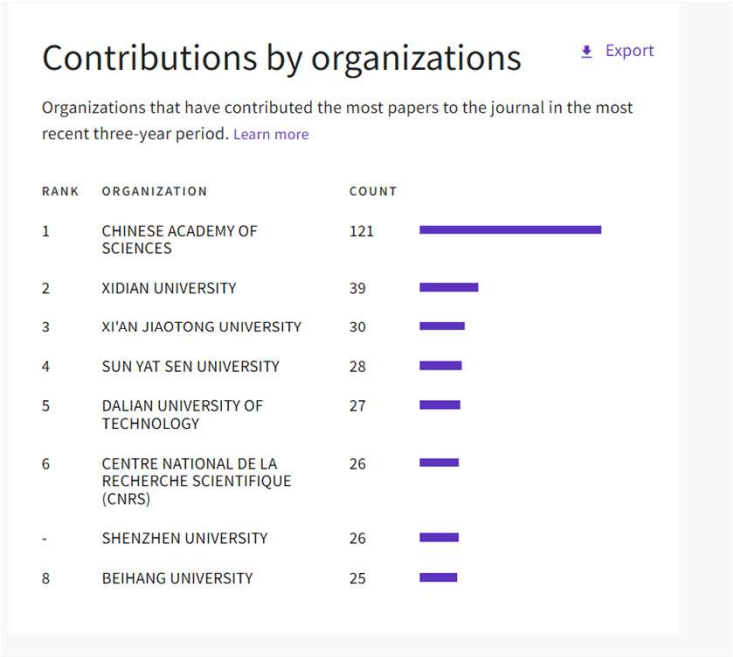
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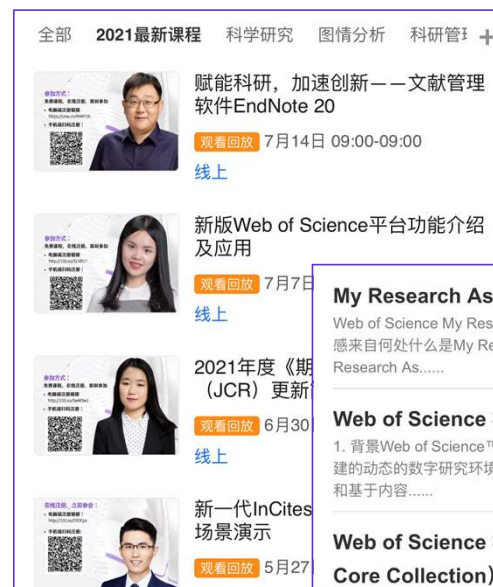
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