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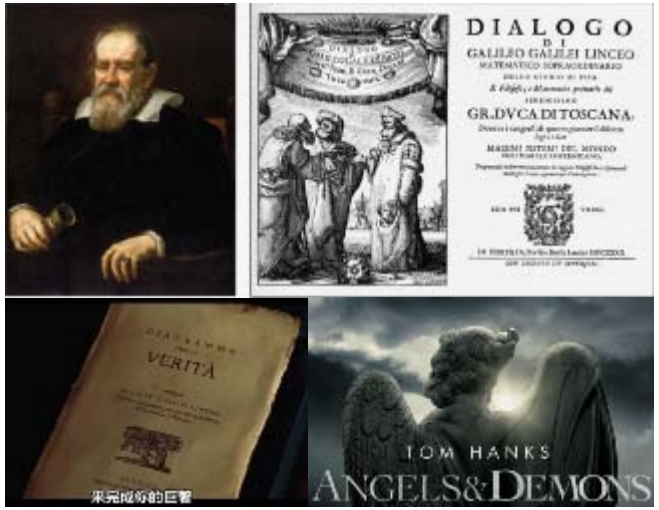

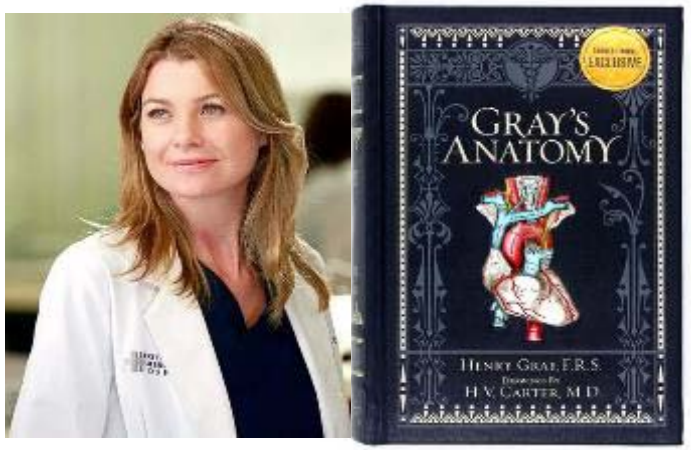

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THE LANCET
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Wu Lien Teh (DIRECTOR AND CHIEF MEDICAL OFFICER, NORTH MANCHURIAN PLAGUE PREVENTION SERVICE; MEDICAL OFFICER OF THE FOREIGN OFFICE, PEKING; AND LATE PRESIDENT OF THE INTERNATIONAL PLAGUE CONFERENCE, 1911.), G.L. Tuck M.A., M.D., B.C. CANTAB., LL.D. PEKING (DIRECTOR AND CHIEF MEDICAL OFFICER, NORTH MANCHURIAN PLAGUE PREVENTION SERVICE; MEDICAL OFFICER OF THE FOREIGN OFFICE, PEKING; AND LATE PRESIDENT OF THE INTERNATIONAL PLAGUE CONFERENCE, 1911.)

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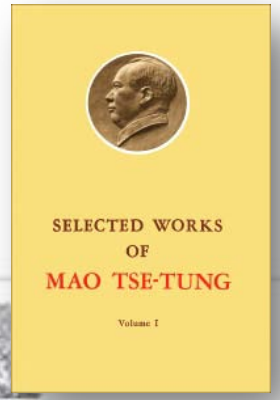

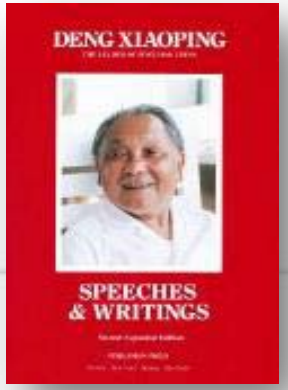

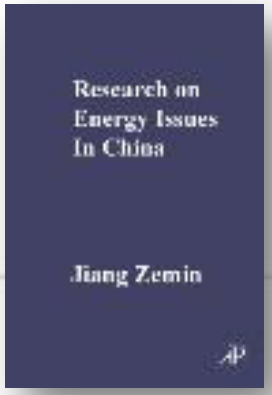

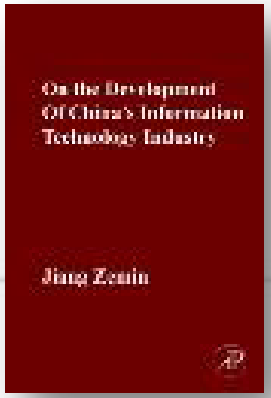

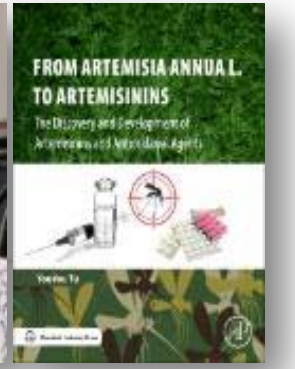

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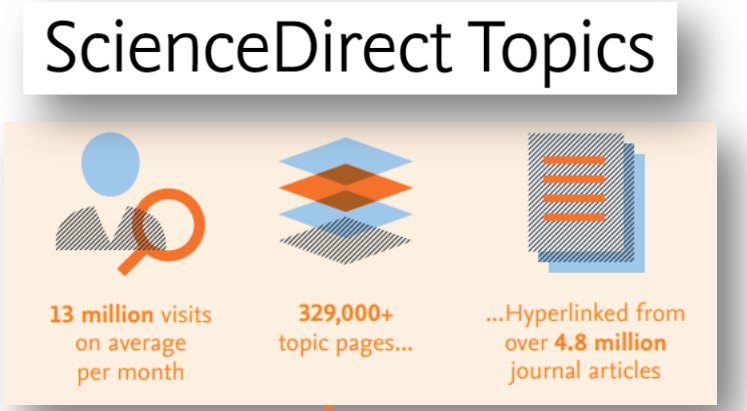

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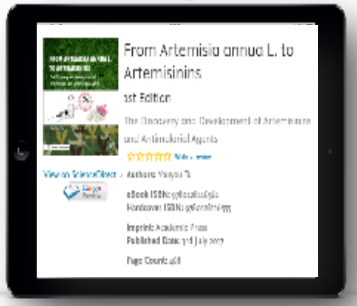

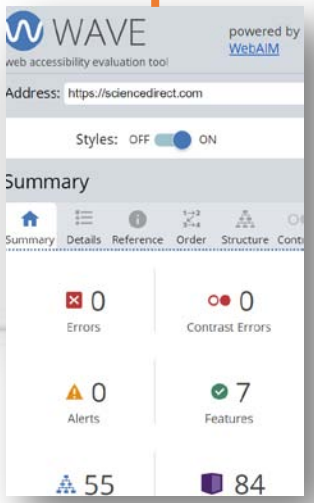

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3,967,976
1,019,290
707,178

中国科研数量和质量稳步提升

Overall research performance

3,399,701 ▲
Scholarly Output ⓘ
34.6% All Open Access
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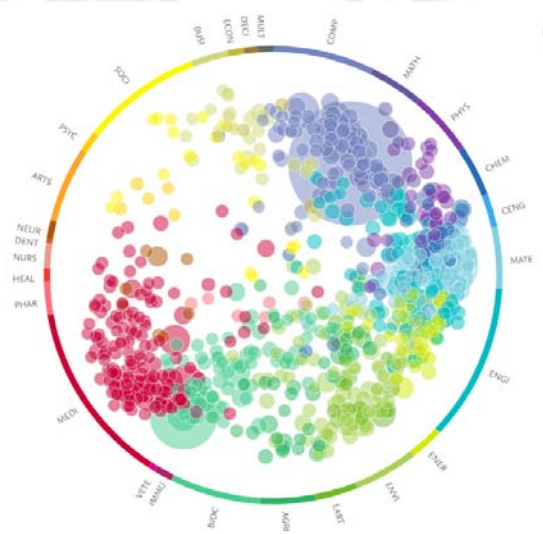
4,606,962 ▲
Authors

1.11
Field-Weighted Citation Impact ⓘ
Yearly breakdown

28,575,566
Citation Count ⓘ

8.4
Citations per Publication ⓘ



Overall research performance

2,937,304 ▲
Scholarly Output ⓘ
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2,568,213 ▲
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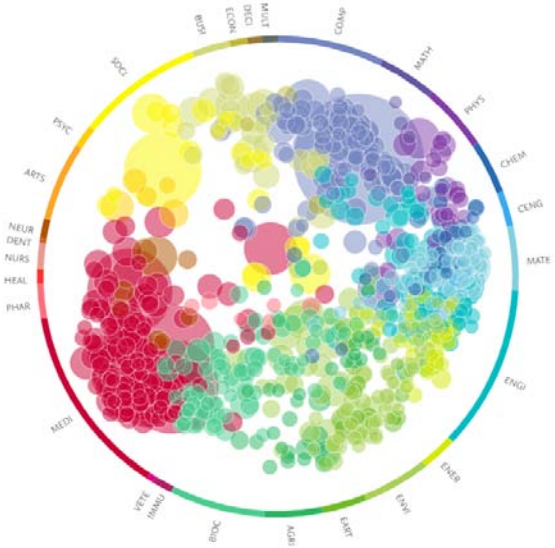

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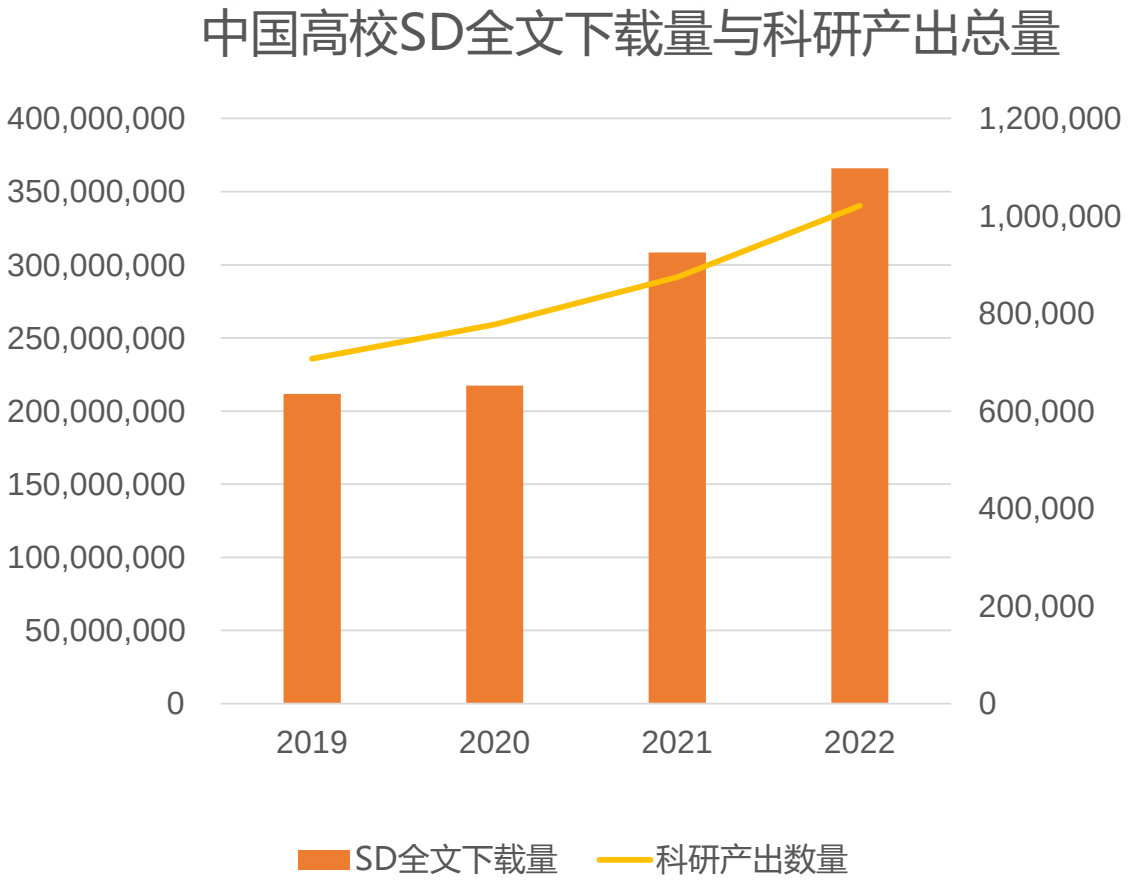

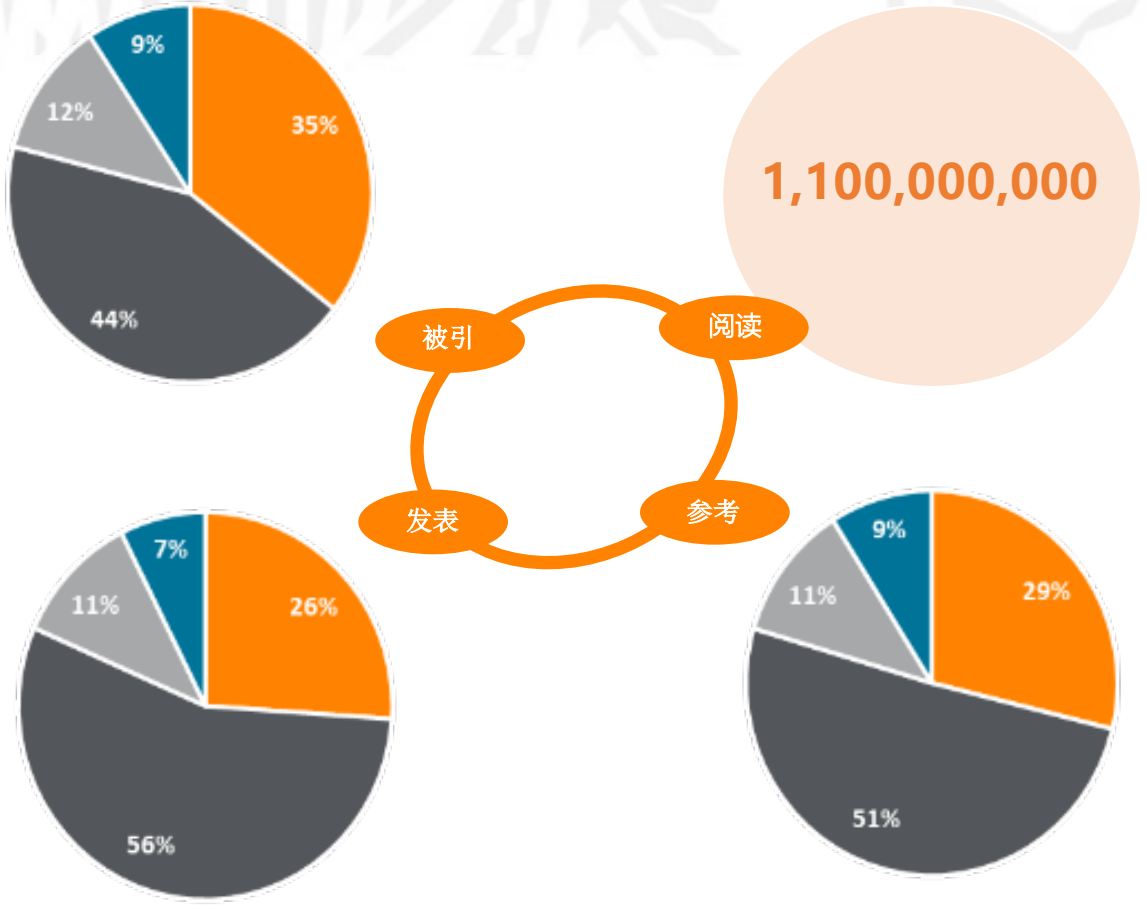

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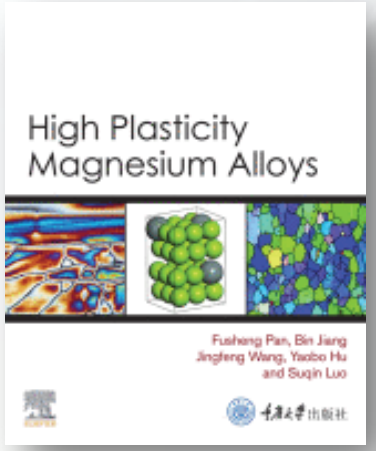

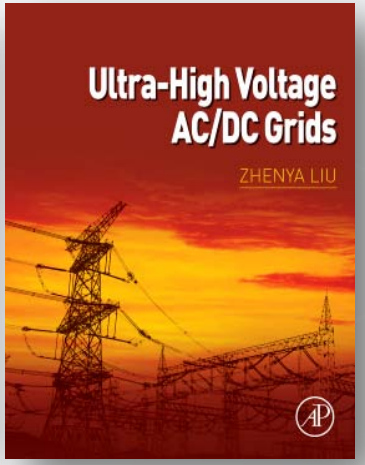

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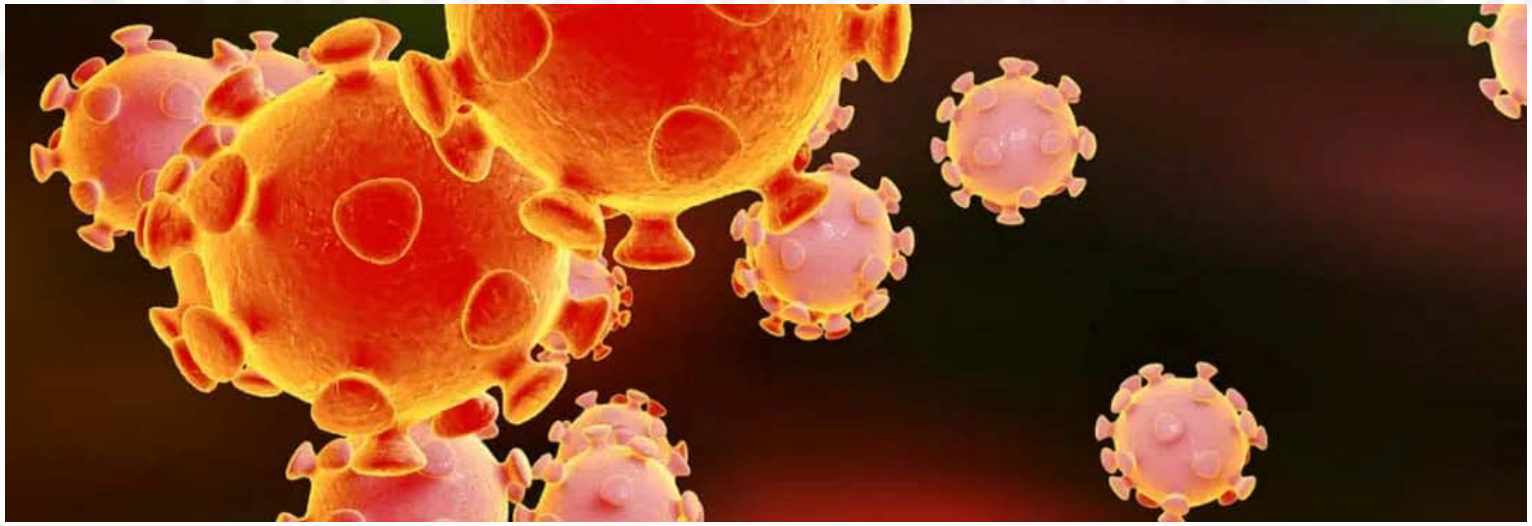
Novel Coronavirus Information Center

January 27, 2020



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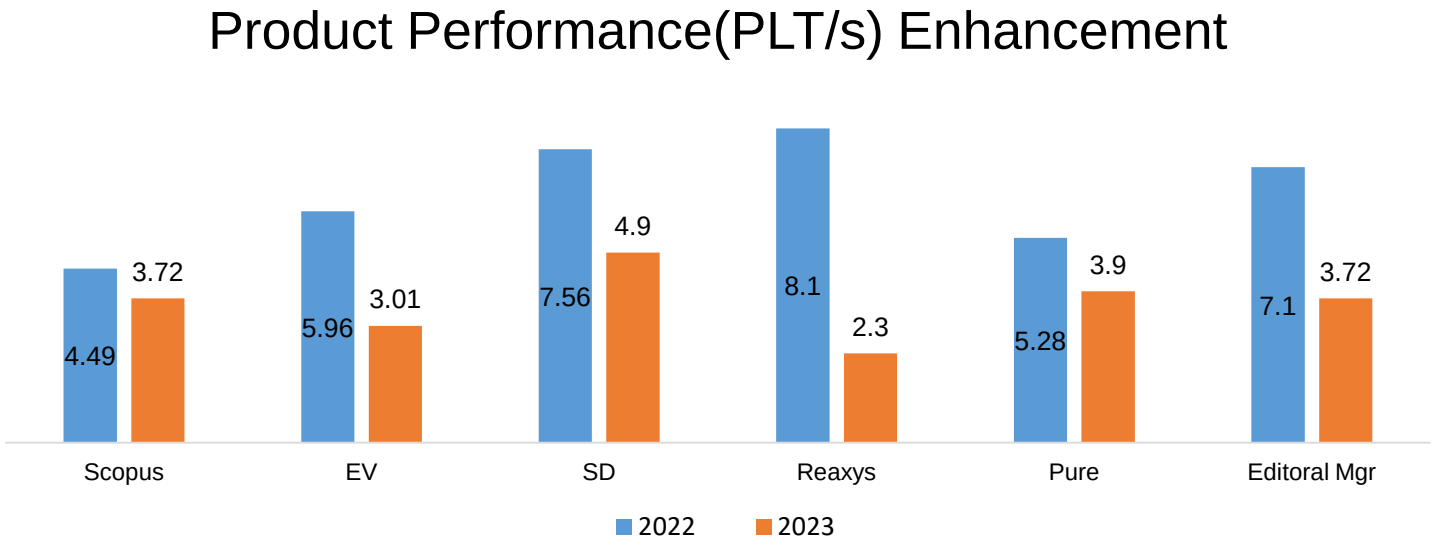

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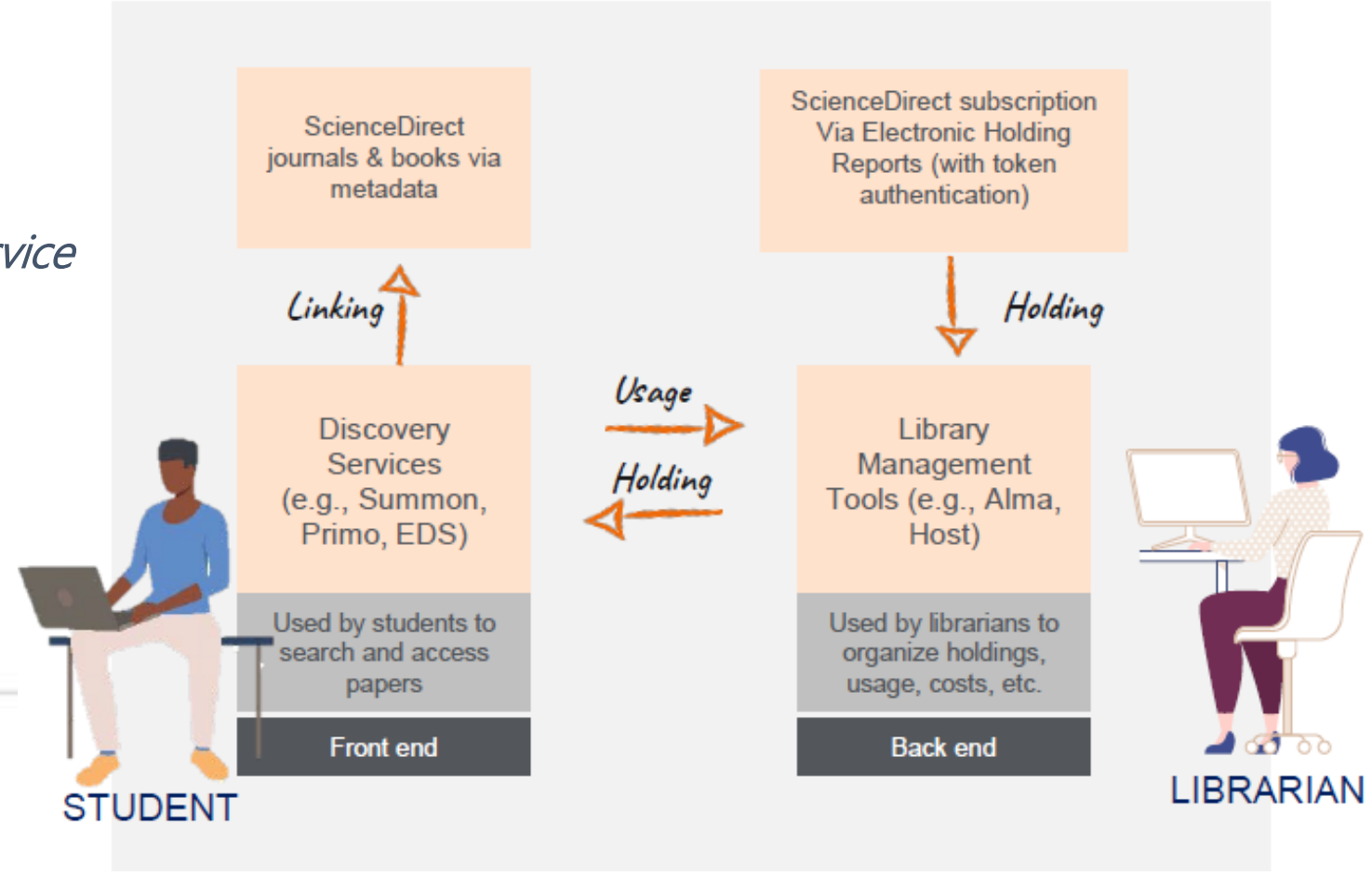

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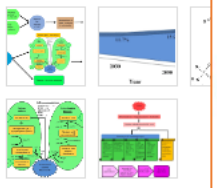
Outline



Journal of Advanced Research

Volume 37, March 2022, Pages 267-278

Nicotinamide mononucleotide (NMN) as an anti-aging health product – Promises and safety concerns

Harshani Nadeeshani [a], Jinyao Li [b], Tianlei Ying [c], Baohong Zhang [d], Jun Lu [a e f g h i j]

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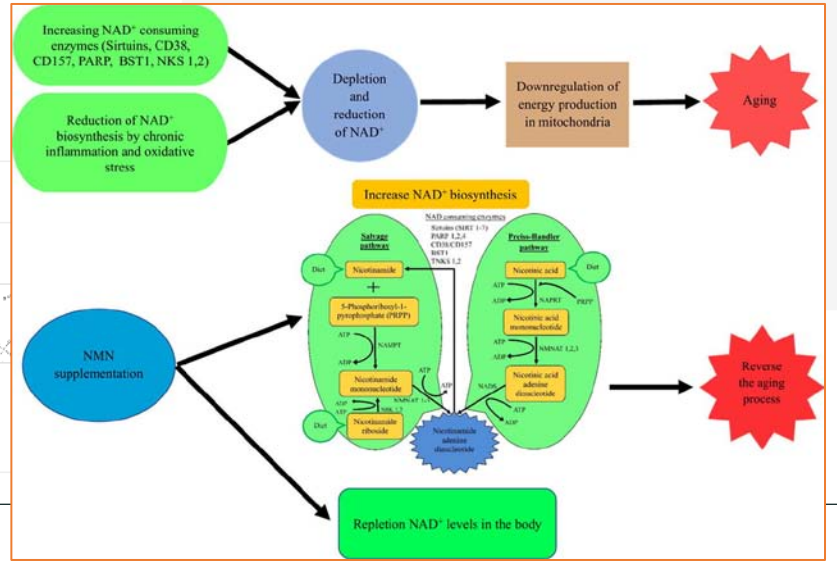

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Abstract

Background

Elderly population has been progressively rising in the world, thus the demand for anti-aging heath products to assure longevity as well as to ameliorate age-related complications is also on the rise. Among various anti-aging health products, nicotinamide mononucleotide (NMN) has been gaining attentions of the consumers and the scientific community.

Aim of review

This article intends to provide an overview on the current knowledge on promises and safety concerns of NMN as an anti-aging health product.

Key scientific concepts of review

Nicotinamide adenine dinucleotide (NAD^+) levels in the body deplete with aging and it is associated with downregulation of energy production in mitochondria, oxidative stress, DNA damage, cognitive impairment, and inflammatory conditions. However, NMN, as the precursor of NAD^+, can slow down this process by elevating NAD^+ levels in the body. A number of *in vivo* studies have indicated affirmative results of therapeutic effects for various age-induced complications with NMN supplementation. One preclinical and one clinical study have been conducted to investigate the safety concerns of NMN administration while a few more human clinical trials are being conducted. As there is a large influx of NMN based anti-aging products on the market, proper clinical investigations are urgently needed to find out the effectiveness and safety of NMN supplementation.

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Downregulation

The upregulation or downregulation of gene expression occurs with the help of the ubiquitin–proteasome system, which alters transcriptional regulators.
From: Abiotic Stress and Legumes, 2021

Related terms:

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miRNAs: Nanomachines That Micromanage the Pathophysiology of Diabetes Mellitus

Shilpy Sharma, ... Jeetender Chugh, in Advances in Clinical Chemistry, 2017

3.2.5 miR146a

Downregulation of miR146a has been observed in microvascular HRECs and endothelial cells from large vessels and retinal microvessels grown in high glucose concentration, thereby leading to inflammation [132,133]. It has been observed that overexpression of miR146a using miRNA mimics attenuates hyperglycemia-induced inflammatory pathways through reduced TLR4/NF-κB and TNFα signaling [132]. While fibronectin has been identified as a target for miR146a, p300 has been shown to regulate miR146a levels [133]. These studies suggest that miR146a downregulation could be a key mechanism for increased extracellular matrix (ECM) protein production in diabetes. Contrary to these observations, increased miR146a levels have been reported

Epigenomic reprogramming of caloric restriction on aging

Samo Ribarič, in Nutritional Epigenomics, 2019

4.1 CR modulates post-translational modification of histones

CR promotes histone deacetylation and methylation leading to down-regulation of *p53* (tumor suppressor protein p53 also known as tumor protein 53), *FOXO* (O subclass of the forkhead family of transcription factors), *Ku70* (protein encoded in humans by the gene *XRCC6*) and $p16^{Ink4a}$ (gene encoding the tumor suppressor protein cyclin-dependent kinase inhibitor 2A or CDKN2A or multiple tumor suppressor 1 (MTS-1)) and up regulation of *hTERT* (gene encoding human telomerase reverse transcriptase a catalytic subunit of the enzyme telomerase) and *PGC1-α* genes (peroxisome proliferator-activated receptor G co-activator 1α) [95,97,98].

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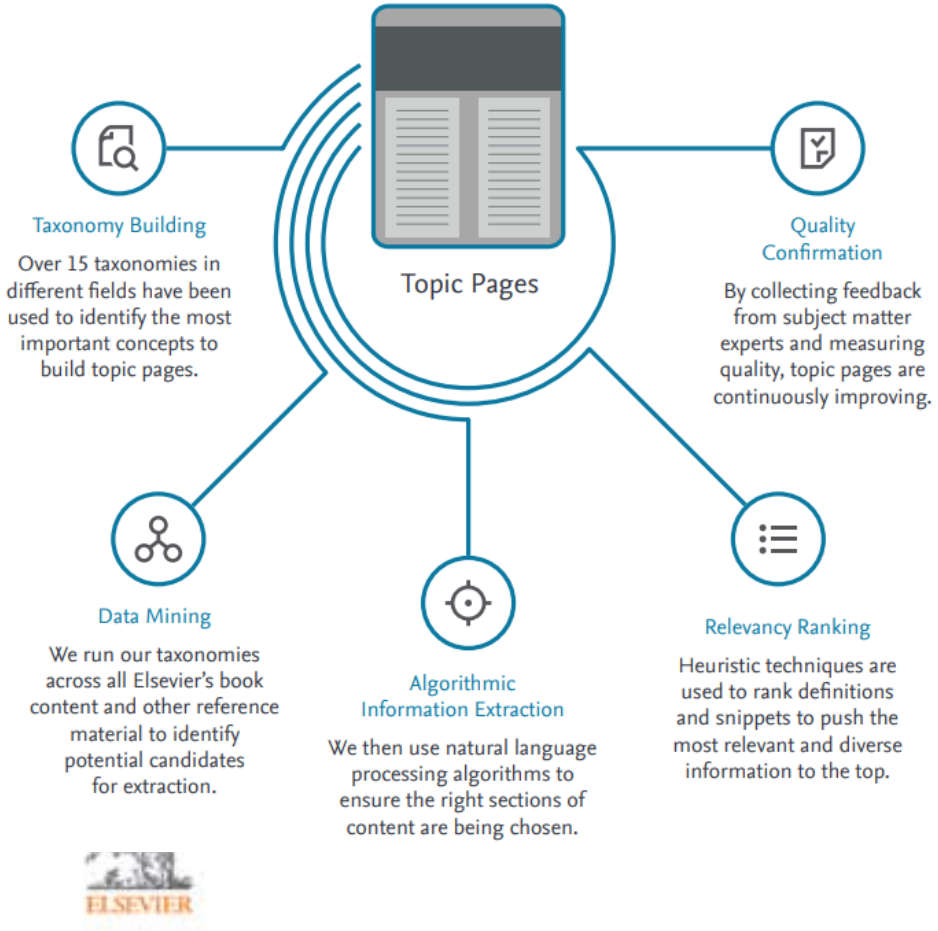

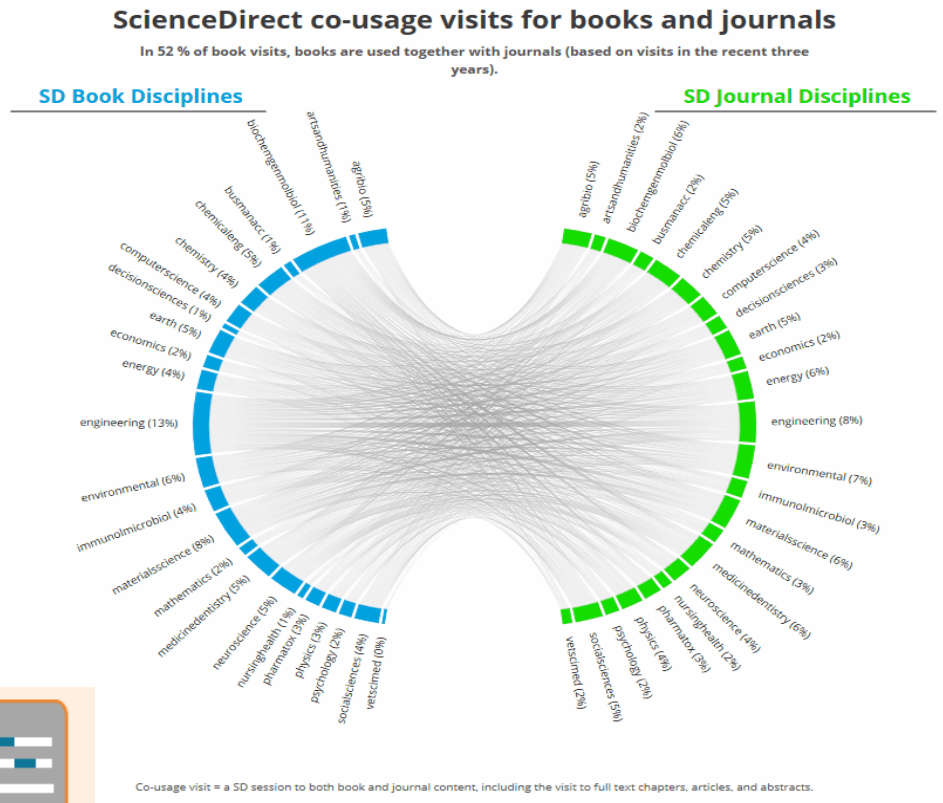

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Last week, the publication by **H. Nadeeshani et al.**, has been viewed the most

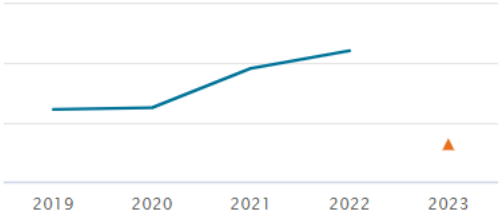
5,928 views
Nicotinamide mononucleotide (NMN) as an ant
aging health product – Promises and safety...

Journal demand

Most used journal in the last 12 months was:

Chemical Engineering Journal
65,873 views

ScienceDirect usage



Book turnaways

Most requested non-subscribed book-package was:

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times

Journal turnaways

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Matter
2,649 times

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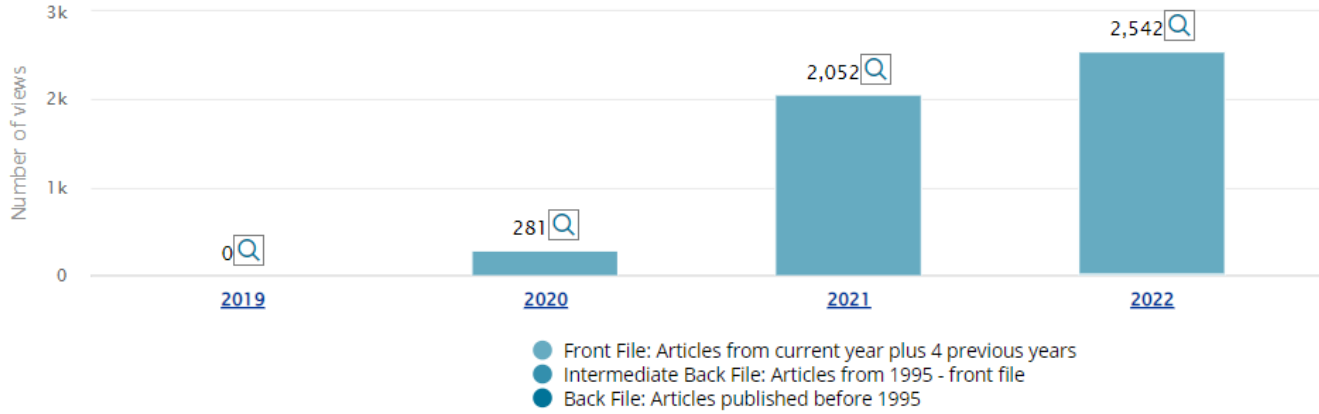
(Apr 2022 to Mar 2023)

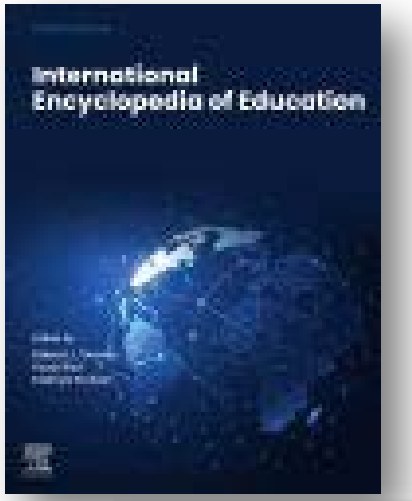
1. Chemical Engineering Journal
2. Construction and Building Mate
3. Nano Energy
4. Journal of Cleaner Production
5. Sensors and Actuators B: Chemi
6. Science of The Total Environmer
7. Journal of Power Sources
8. The Lancet
9. Applied Catalysis B: Environmen
10. Journal of Alloys and Compound

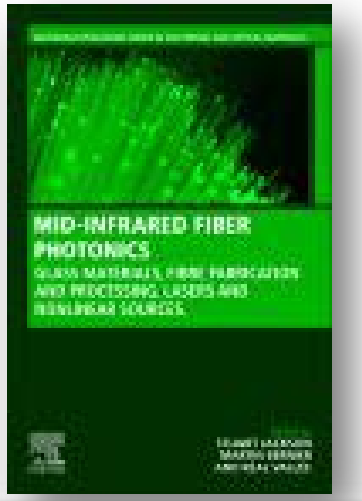
Top 10 journal turnaways from selected subjects and families
(April 2022 to March 2023)

1	**Matter**	**2649**
2	Joule	1408
3	Trends in Chemistry	715
4	The Journal of Pain	637
5	Chem Catalysis	606
6	Cement and Concrete Research	520
7	Gastroenterology	507
8	Journal of Consumer Psychology	496
9	Journal of Pharmaceutical Sciences	376
10	Journal of the American Academy of Child & Adolescent Psychiatry	369



Bar chart showing the journal portfolio gaps at this institution quantified by number of views for the past 5 years, broken down by front file, ir file.





""	"Package"	"Turnaways"	"Title with most turnaways in pack
1	"All Access Books"	16918	"International Encyclopedia of Edu
2	"SD College Edition Book Collection - Physical Sciences"	7387	"Mid-Infrared Fiber Photonics"
3	"SD College Edition Book Collection - Health and Life Sciences"	5640	"Biology of Stress in Fish"
4	"Freedom Collection Books 2022"	5582	"Mid-Infrared Fiber Photonics"
5	"Freedom Collection Books Backlist"	4999	"Biology of Stress in Fish"
6	"Freedom Collection Books Special 2023"	4929	"Mid-Infrared Fiber Photonics"
7	"Freedom Collection Books Special 2021"	4555	"Sample Return Missions"
8	"Freedom Collection Books 2020"	3816	"Cyanobacteria"

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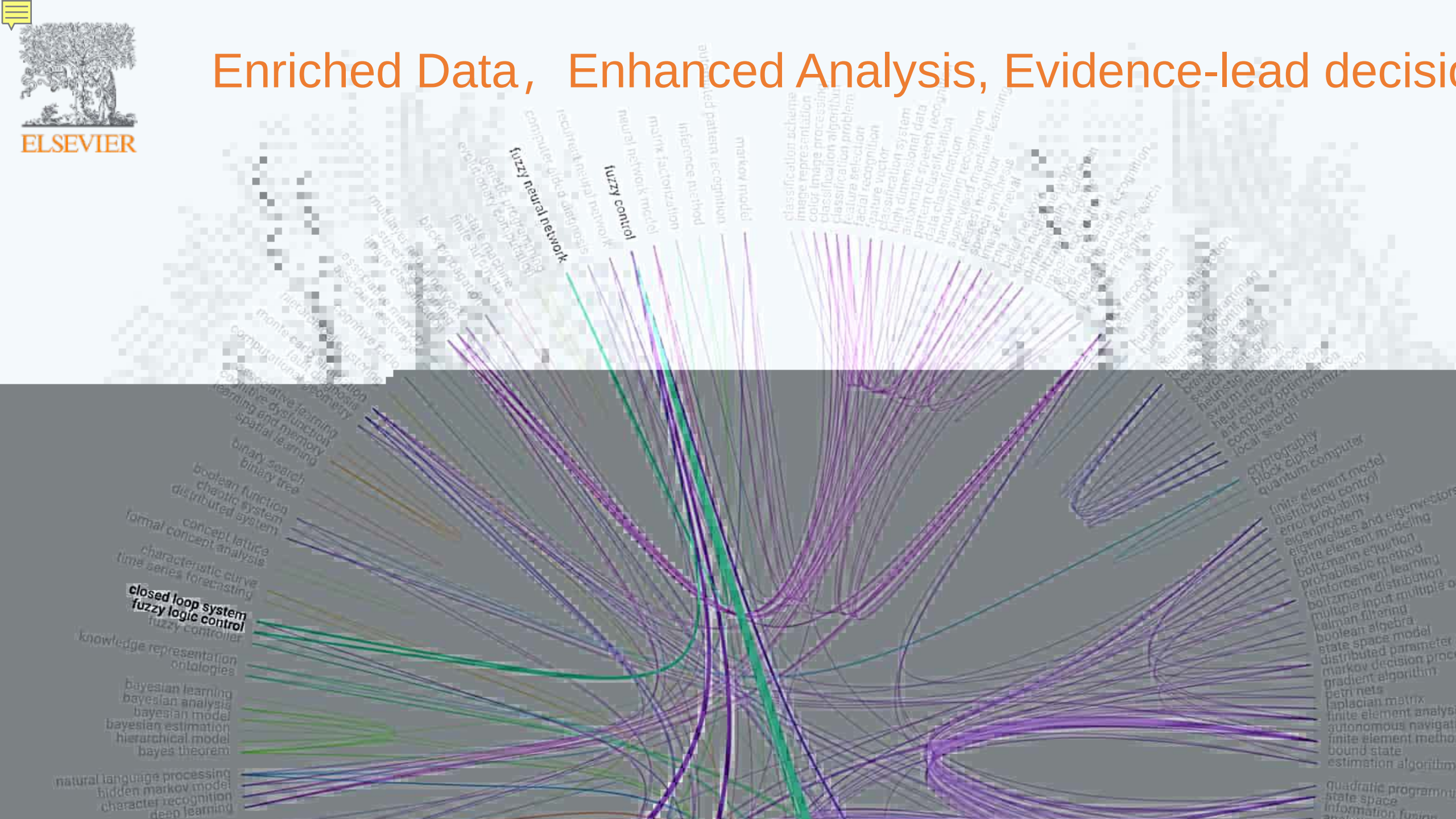
Enriched Data, Enhanced Analysis, Evidence-lead decisio



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