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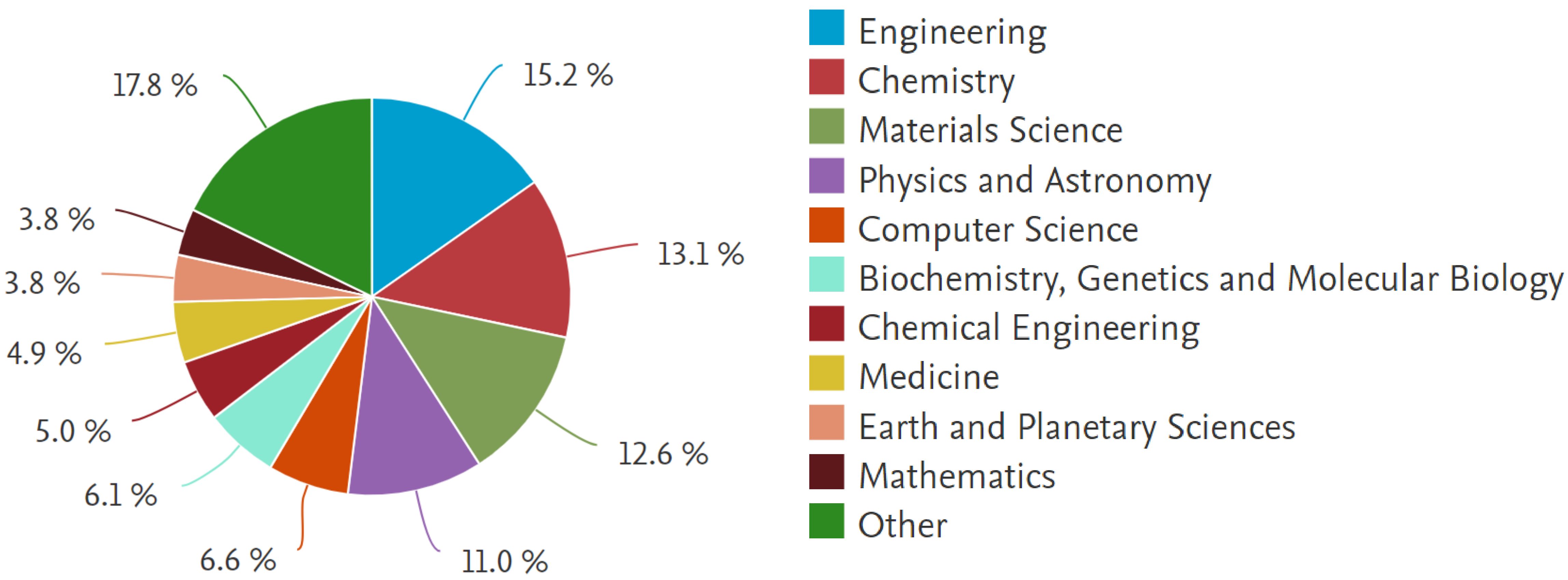

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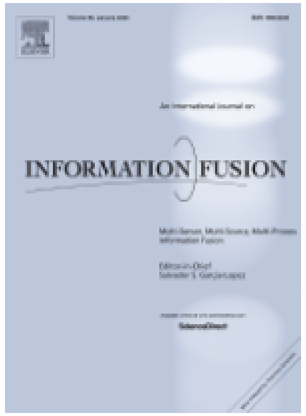

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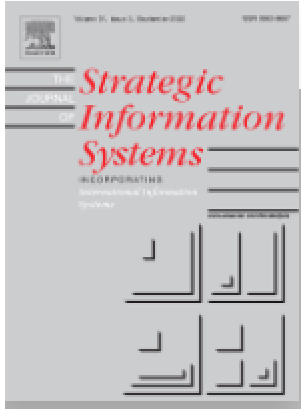

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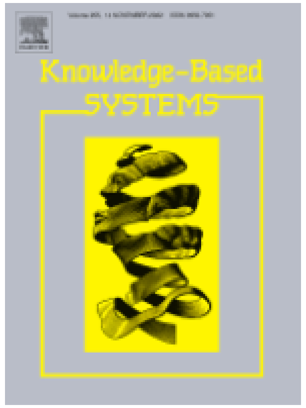

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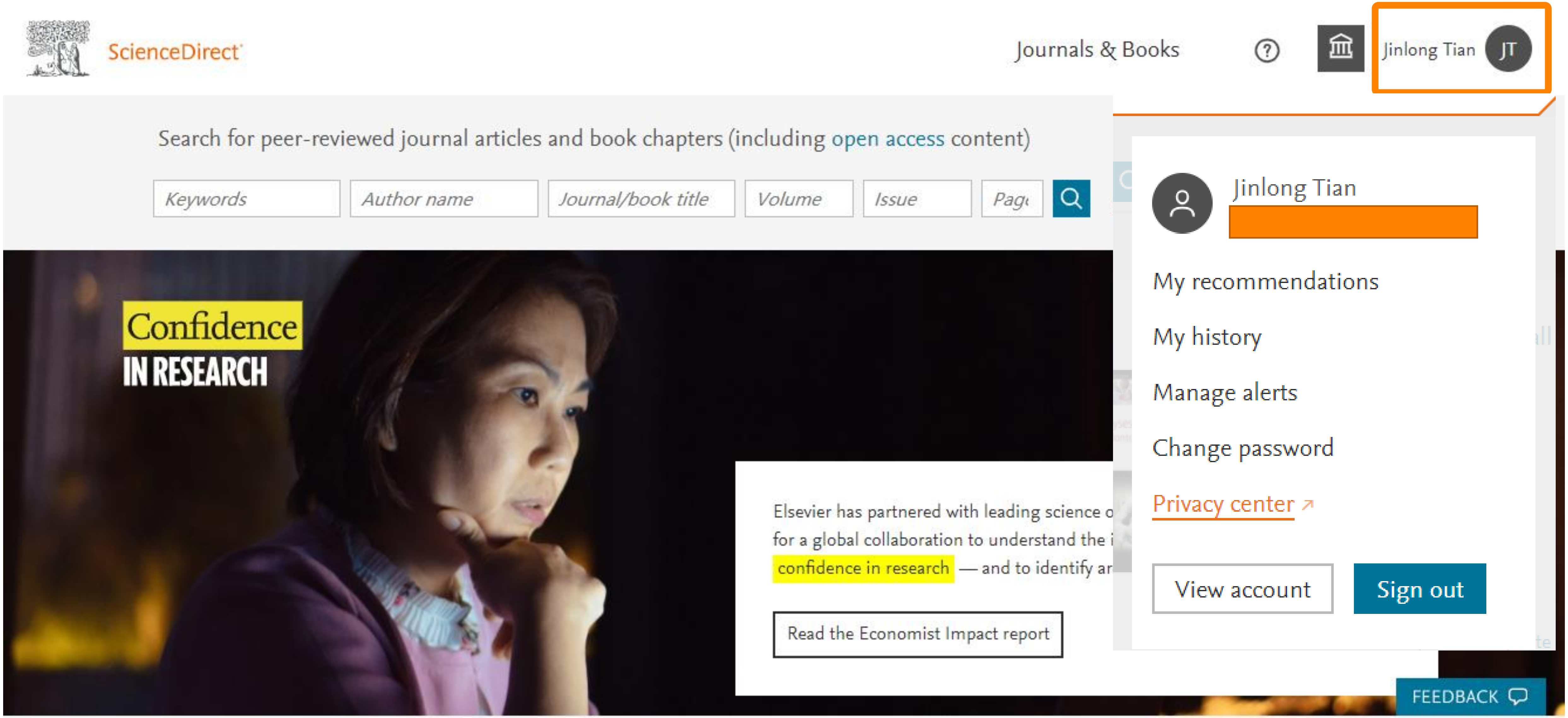

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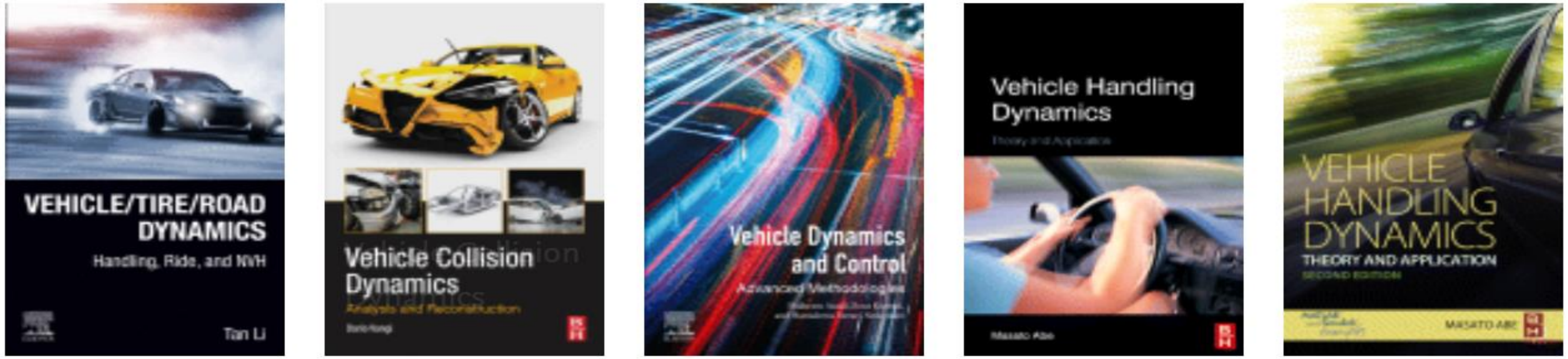

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Zhiwen Qiang, Li Dai, ... Yuanqing Xia
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Research article • *Open access*
2 Naturalistic driving study on the impact of an aftermarket blind spot monitoring system on the driver's behaviour of heavy goods vehicles and buses on reducing conflicts with pedestrians and cyclists
Accident Analysis & Prevention, 1 August 2023
Ernst Tomasch, Stefan Smit
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3 Do plug-in hybrid adopters switch to battery electric vehicles (and vice versa)?
Transportation Research Part D: Transport and Environment, 28 April 2023
Jae Hyun Lee, Minyoung Cho, ... Scott Hardman
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4 Tridimensional vector path abstracting and trajectory tracking control on ramps of full self-driving vehicle
Control Engineering Practice, 20 July 2023
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Journal of Cleaner Production, 8 August 2023
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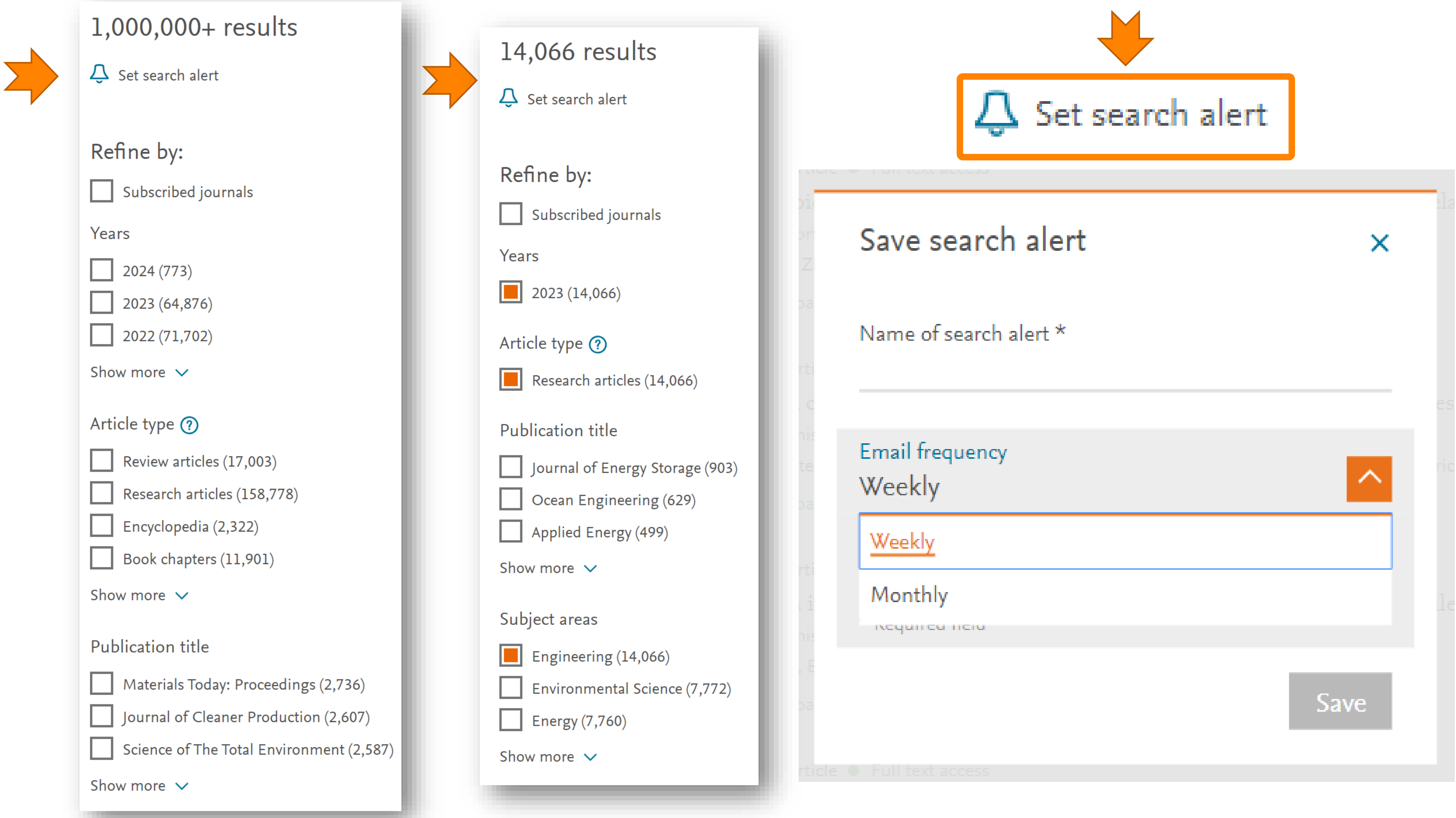
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In this paper, a distributed model predictive control (DMPC) algorithm for a platoon of heterogeneous vehicles is proposed. The leading vehicle is allowed to be driven by a non-zero and time-varying input, rather than traveling at a constant velocity. Except for individual state and input constraints for each vehicle, all vehicles are coupled via state-coupled inter-vehicular spacing constraints and state-coupled cost functions, which maintain the unidimensional platoon formation with satisfactory transient performance. Each vehicle communicates with its neighboring vehicles, and may not know the leading vehicle's kinetic status information. The control input of each following vehicle is computed by a local optimization problem established by each vehicle's local information and the assumed state information from its neighbors. By designing distributed terminal control laws for following vehicles, dividing each state-coupled set into several specific subsets, and then forcing each following vehicle to optimize its state constrained in the assigned subsets, the coupled constraints and cost functions can be decoupled, and thus a distributed and parallel computing method can be adopted to compute the control inputs of all following vehicles. Based on the tailored terminal equality constraints together with the tailored terminal control laws, the recursive feasibility of local MPC optimization problems is achieved at all time steps and the asymptotic stability of each vehicle is also guaranteed. The effectiveness of the proposed DMPC method is demonstrated in simulation, and the advantage of the proposed DMPC dealing with the leading vehicle's non-zero, inaccessible, and time-varying input is highlighted by a comparison simulation for heterogeneous vehicle platoon with a continuously changing leading vehicle velocity.

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Energy Reports

Volume 8, November 2022, Pages 12570-12582

Research paper

Design and application of electromechanical flywheel hybrid device for electric vehicle

Binbin Sun, Tianqi Gu, Bo Li, Pengwei Wang, Song Gao, Shubin Wei

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Actuators, Volume 12, Issue 1, January 2023
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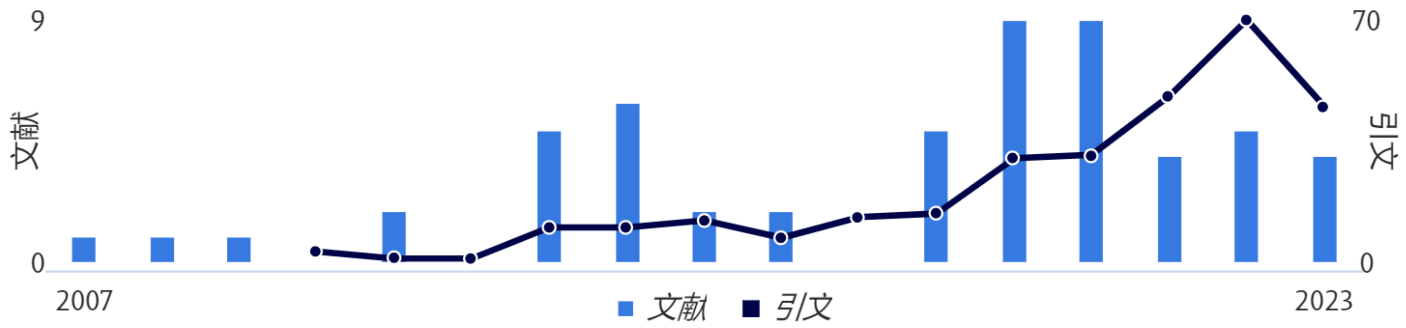

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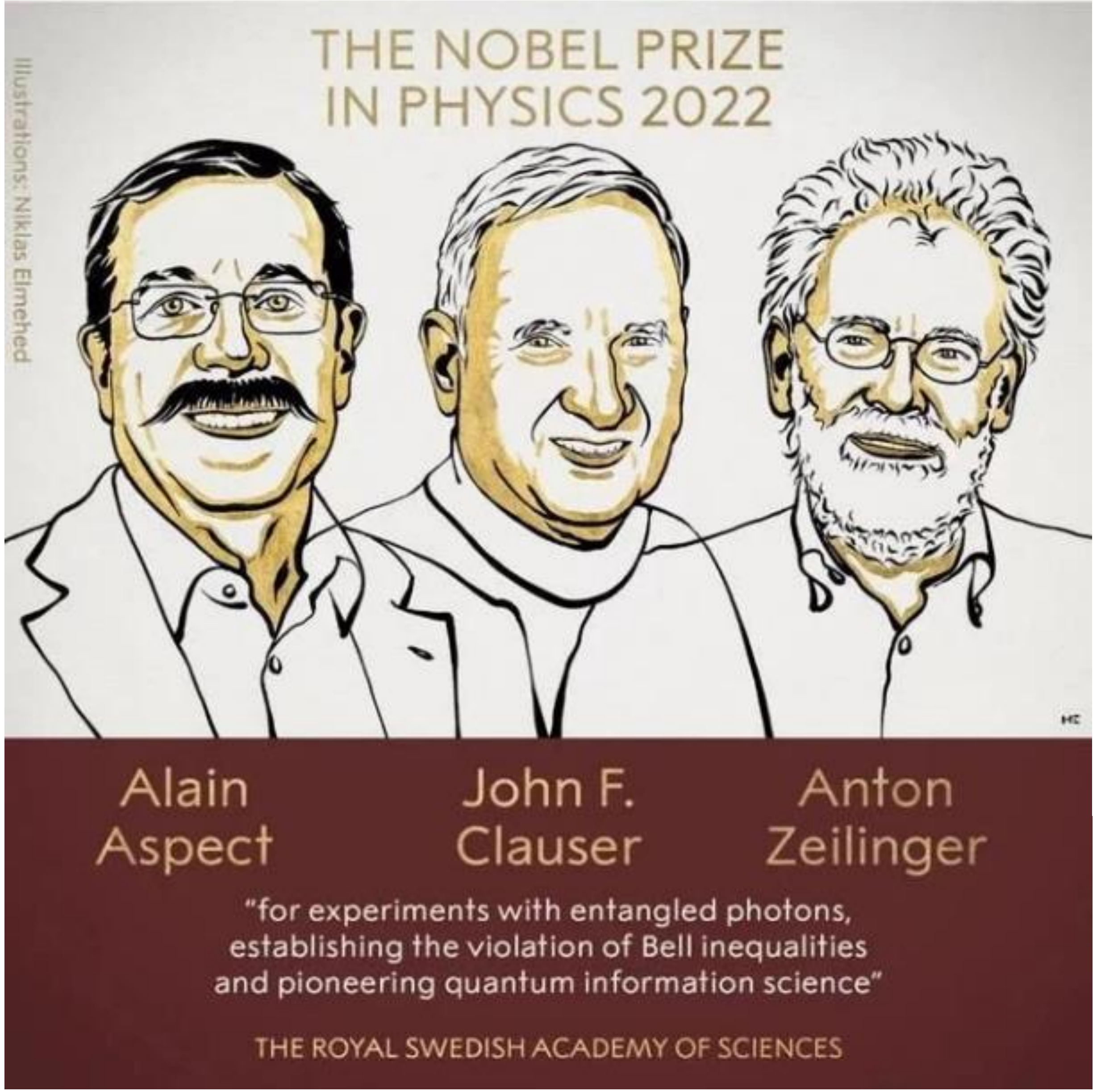

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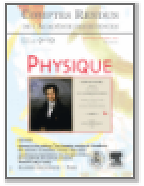
Comptes Rendus Physique
Volume 18, Issues 9–10, November–December 2017, Pages 498-503



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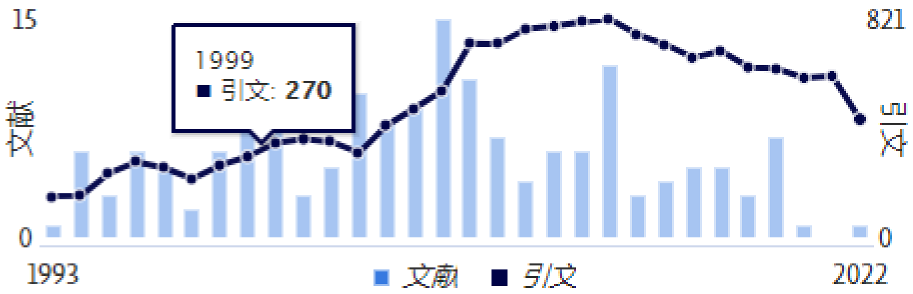

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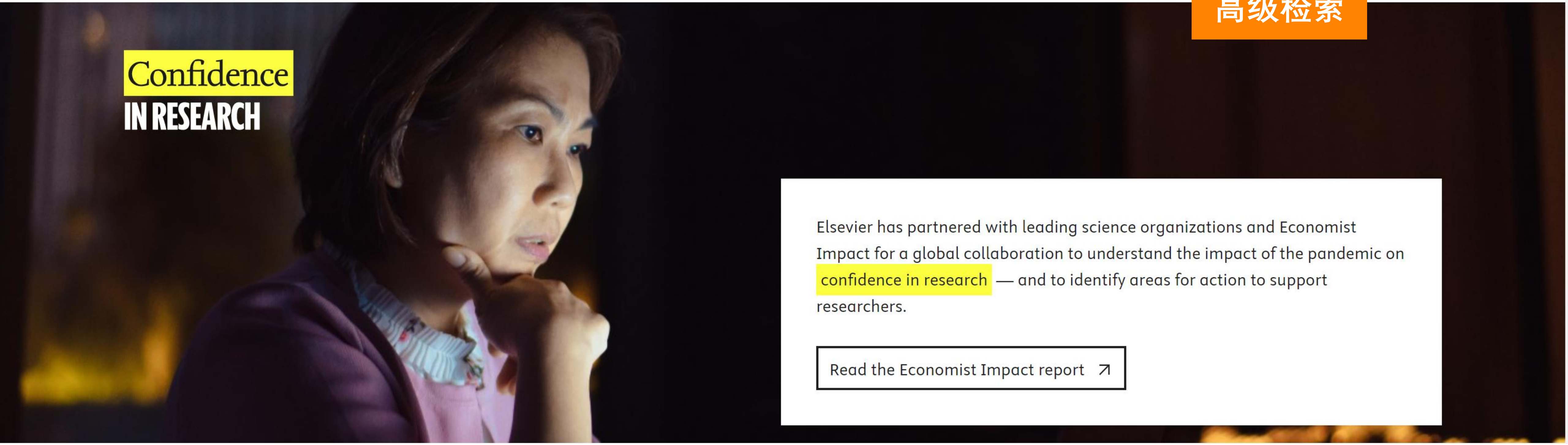

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1 Targeted electric vehicle procurement incentives facilitate efficient abatement cost outcomes

Sustainable Cities and Society, 1 May 2023

Lucas Woodley, Philip Rossetti, Ashley Nunes

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2 Electric vehicle adoption delivers public health and environmental benefits

Eco-Environment & Health, Available online 2 August 2023

Yijing Zhu, Ernani F. Choma, ... Haikun Wang

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3 Assessing the health impacts of electric vehicles through air pollution in the United States

Environment International, 25 August 2020

Ernani F. Choma, John S. Evans, ... John D. Spengler

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1 An imitation learning-based energy management strategy for electric vehicles considering battery aging

Energy, 25 July 2023

Yiming Ye, Hanchen Wang, … Jiangfeng Zhang

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2 Unleashing the circular economy in the electric vehicle battery supply chain: A case study on data sharing and blockchain potential

Resources, Conservation and Recycling, 20 March 2023

Elias Ribeiro da Silva, Jacob Lohmer, … Jannis Angelis

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3 A new study on the prediction of the effects of road gradient and coolant flow on electric vehicle battery power electronics components using machine learning approach

Journal of Energy Storage, 16 June 2023

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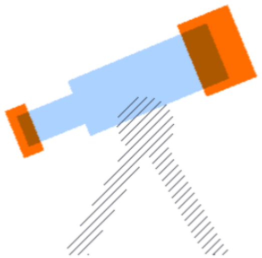

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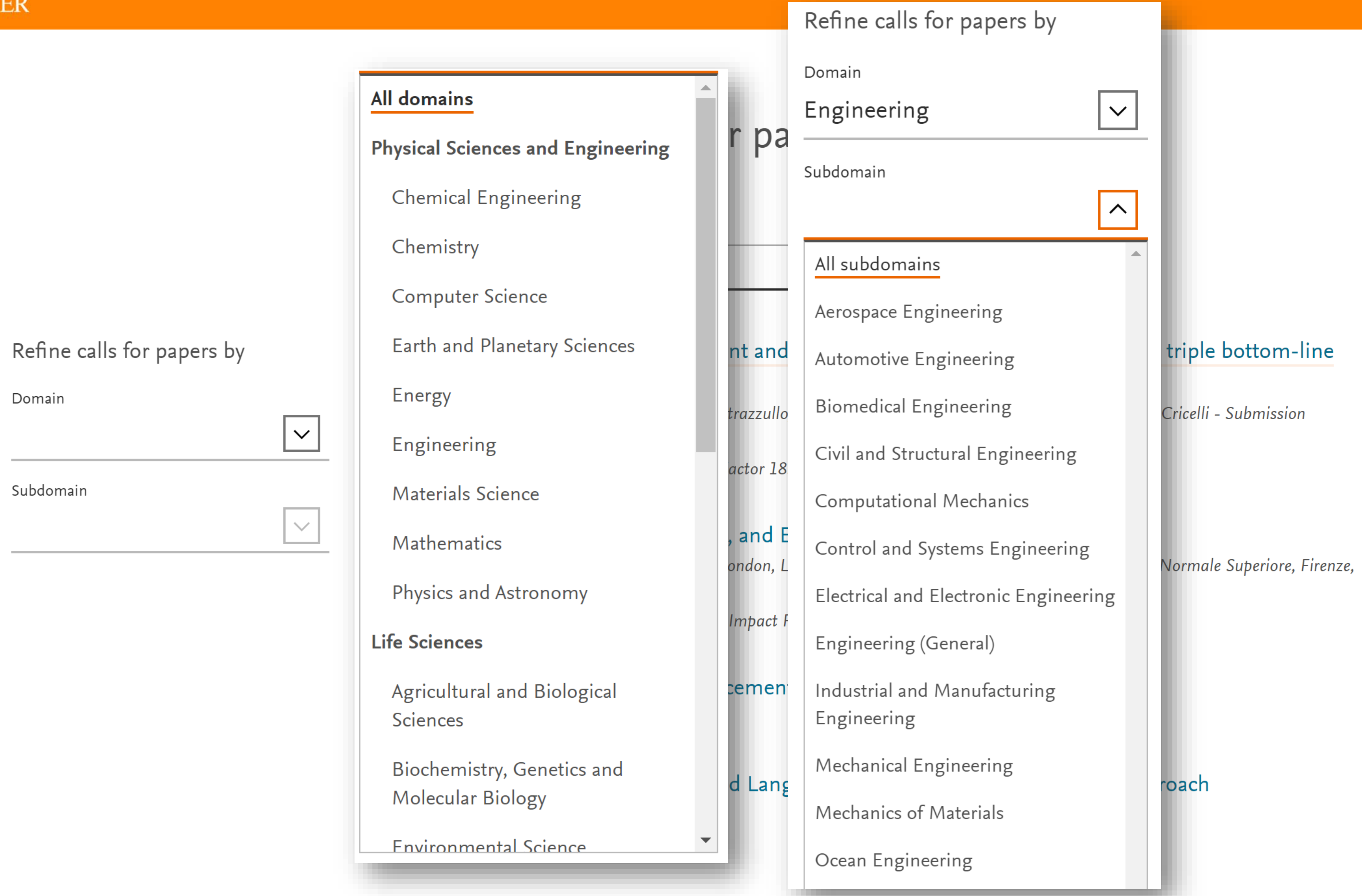
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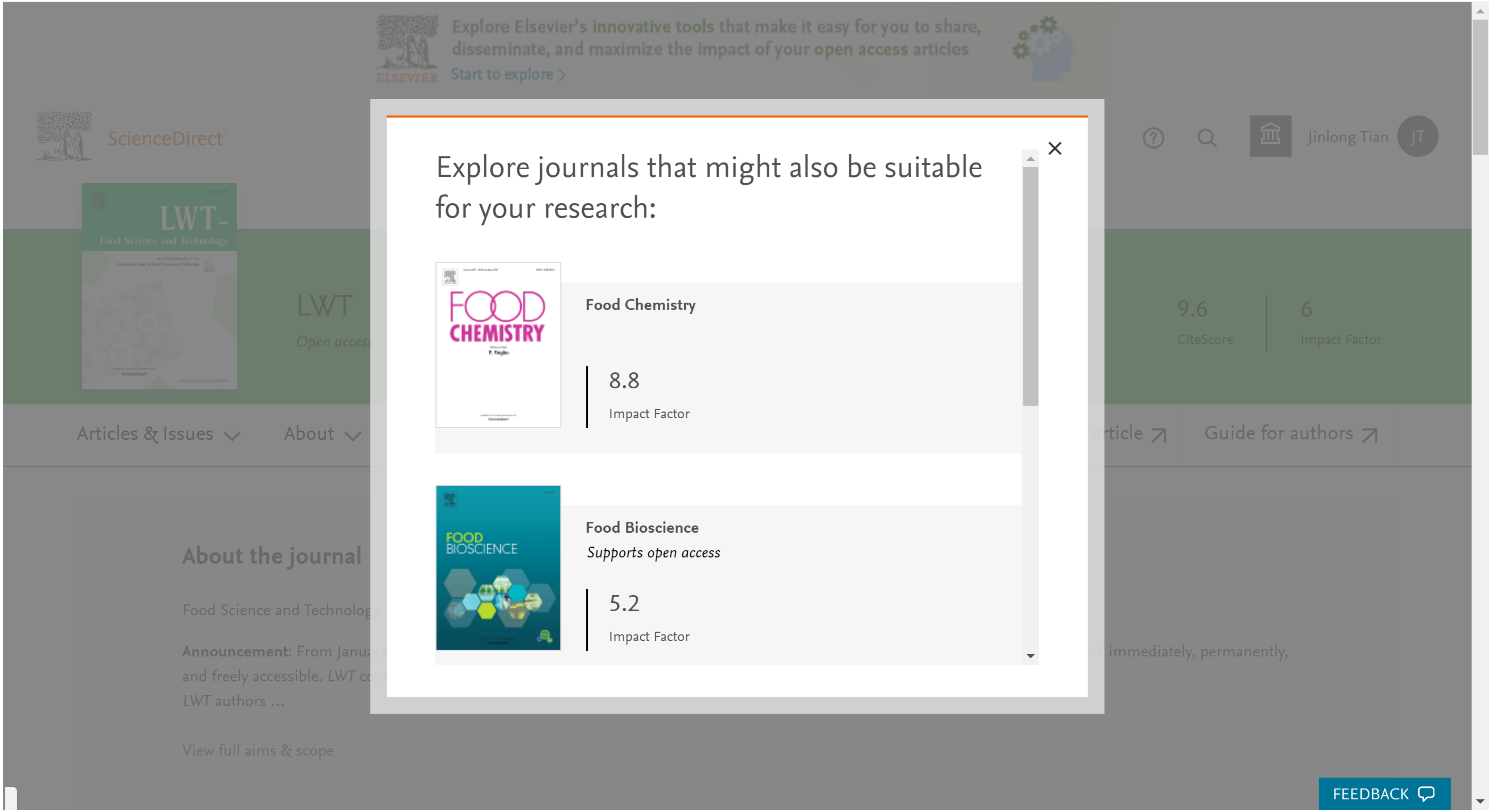
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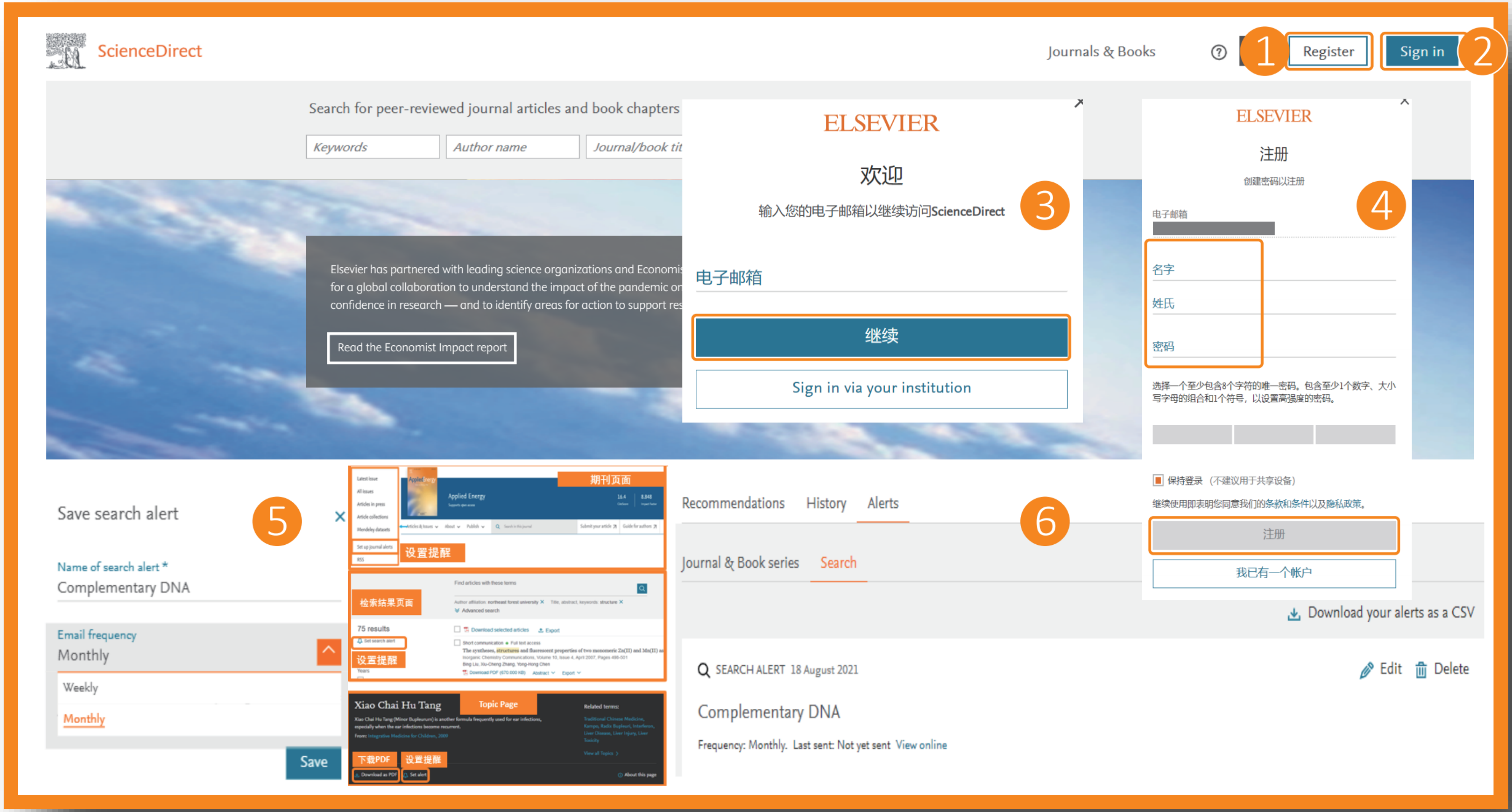
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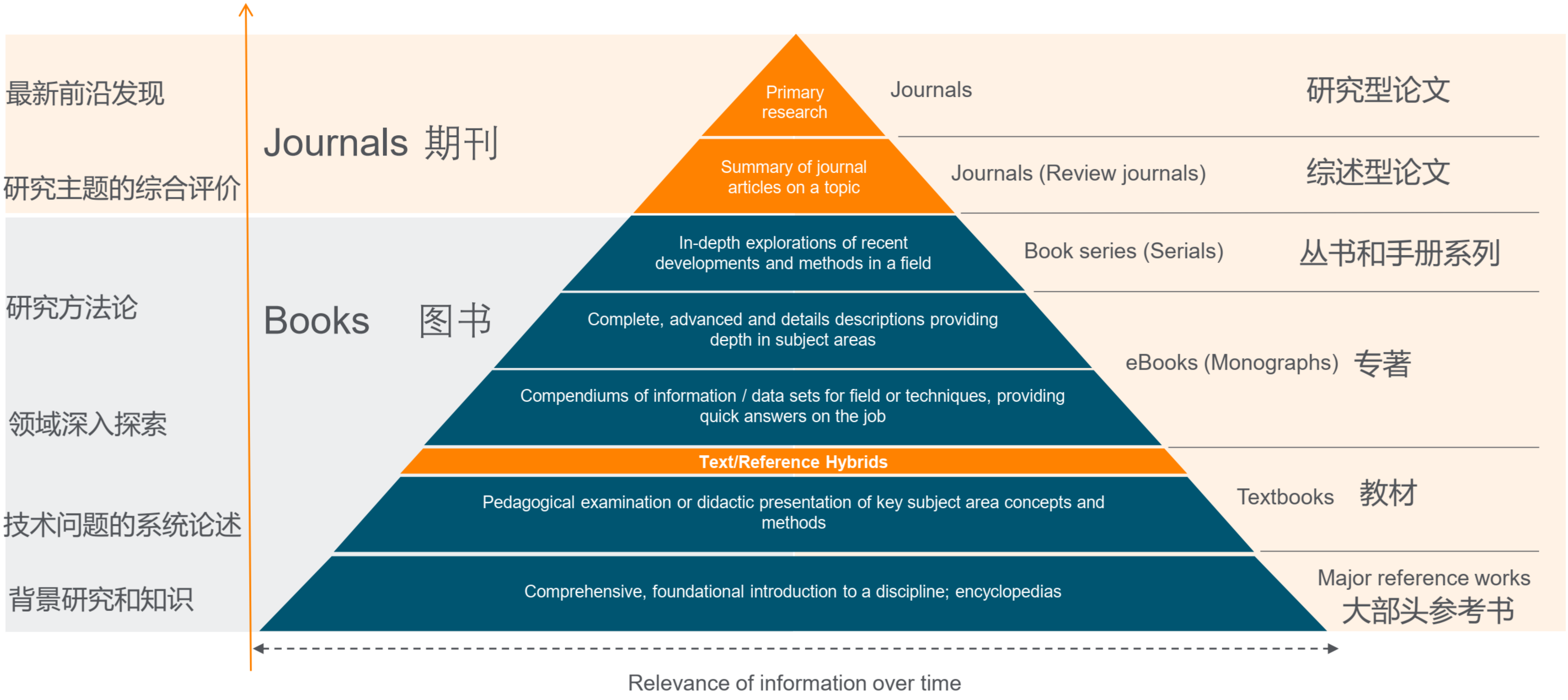

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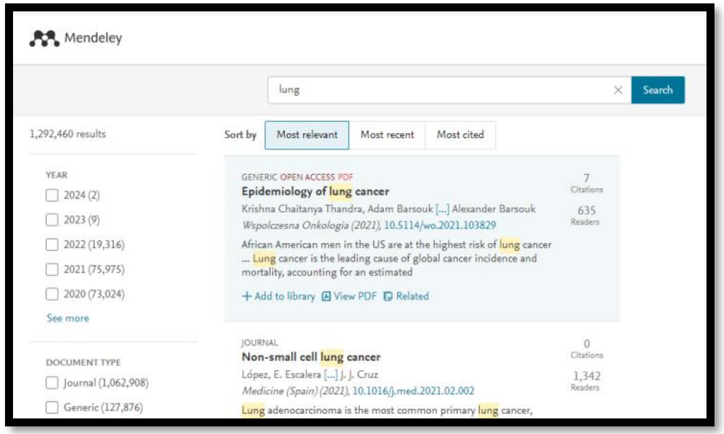

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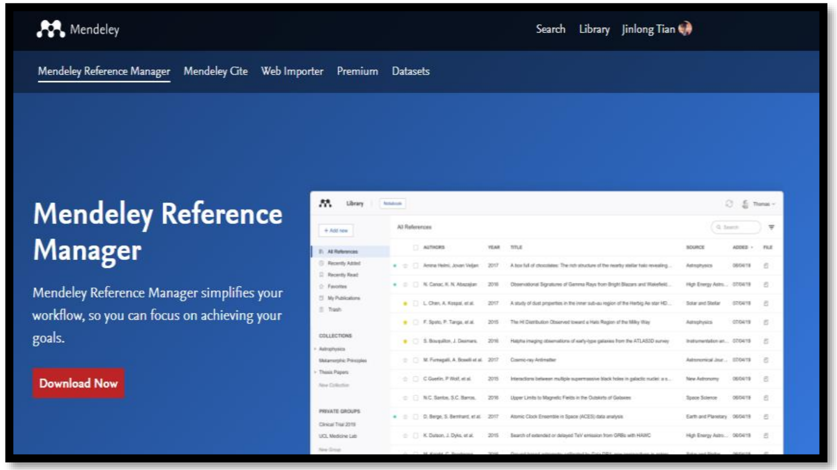

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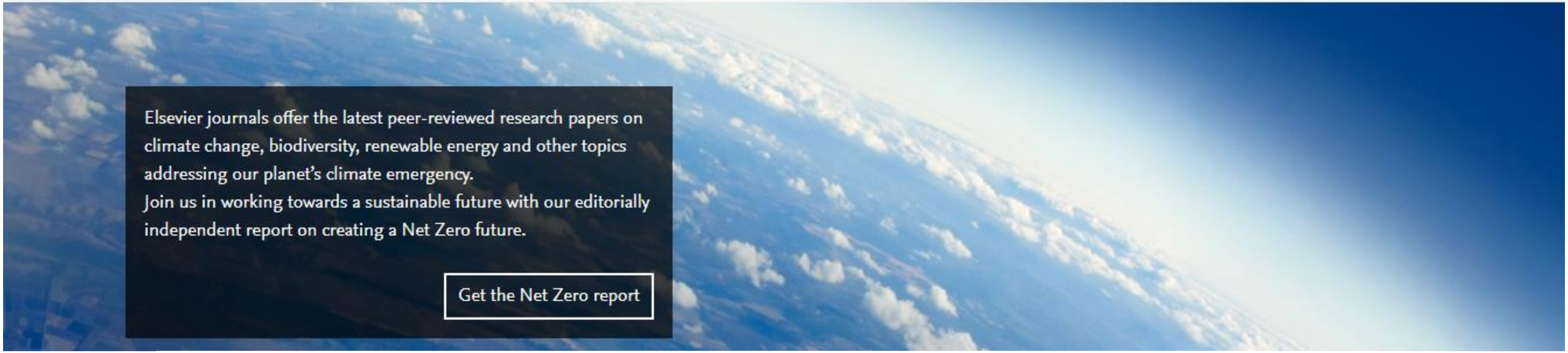

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Outline

Nano Today 47 (2022) 101627

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Ruthenium-based metal-organic framework with reactive oxygen and nitrogen species scavenging activities for alleviating inflammation diseases

Jia Liu[a,1], Lin Shi[a,b,1], Yang Wang[a,1], Mingyi Li[a], Cheng Zhou[a,c], Lifang Zhang[a,b], Chundong Yao[a], Ye Yuan[a,c], Daan Fu[a,c], Yan Deng[a,b], Miaodeng Liu[a,b], Guobin Wang[c], Lin Wang[a,b,*], Zheng Wang[a,c,*]

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A R T I C L E I N F O

Article history:
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Metal-organic framework
Inflammation
Reactive oxygen species
Reactive nitrogen species
Nanozyme

A B S T R A C T

The overproduction of reactive oxygen and nitrogen species (RONS) is highly associated with a variety of inflammatory diseases. Nevertheless, few treatments are clinically available to address this issue. Developing new artificial enzymes with RONS scavenging activities might be a promising strategy to treat inflammation. Here, we report a nanosized ruthenium-based metal-organic framework (Ru-MOF) with high porosity and versatile RONS scavenging activities for treating inflammatory diseases. This Ru-MOF can not only functionally mimic enzymatic activities of catalase and superoxide dismutase to remove ROS (H_2O_2 and $O_2^{\bullet-}$), but also efficiently clear free radicals and RNS. Through eliminating reactive species, Ru-MOF protects cells from oxidative-stress induced damage in vitro, significantly reduces the mortality of endotoxemia mice induced by lipopolysaccharide (LPS), and markedly alleviates colon damage of the mice with colitis induced by dextran sulfate sodium (DSS). The Ru-MOF with good stability and biocompatibility as well as high catalytic activity is an effective and safe RONS-scavenger for treating inflammatory diseases.

Introduction

Inflammation is a defensive response of organisms to resist harmful stimuli [1]. Oxidative stress on inflammatory cells helps remove external stimuli, but simultaneously destroys endothelial barriers, which subsequently promotes migration and infiltration of inflammatory cells to aggravate tissue injury [2,3]. The excessive production of reactive oxygen species (ROS) and reactive nitrogen species (RNS) is the vital pathophysiological alteration during the occurrence of various inflammatory diseases [4–6]. These inappropriately-generated RONS (H_2O_2, •OH, $O_2^{\bullet-}$, NO, $ONOO^-$, etc.) not only impair cellular components, but also act as signal molecules to promote the infiltration of immune cells and their release of inflammatory mediators [7]. To protect tissues from RONS-induced damage, various antioxidants have been employed to scavenge reactive species, such as N-acetyl cysteine [8], glutathione [9], and vitamin C [10]. Nevertheless, these molecules suffer from poor stability, low bioavailability, and insufficient antioxidant activities [11,12]. Moreover, although exogenous antioxidant enzymes (e.g., catalase, superoxide dismutase) were reportedly administrated using nano-delivery systems [13–15], these systems were limited by finite loading capacity, premature release, high cost of fabrication, and low enzyme stability. Therefore, it is necessary to develop novel antioxidant strategies for effectively scavenging RONS.

Recently, nanomaterials with inherent catalytic activities, including nano-carbons [16–18], precious metal nanoparticles [19–21], metal oxides [22–24], and polyphenol nanoparticles [25,26], are thought to be an alternative approach to clean RONS towards addressing oxidative stress-related injuries. These materials defined as

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[1] These authors contributed equally to this work.

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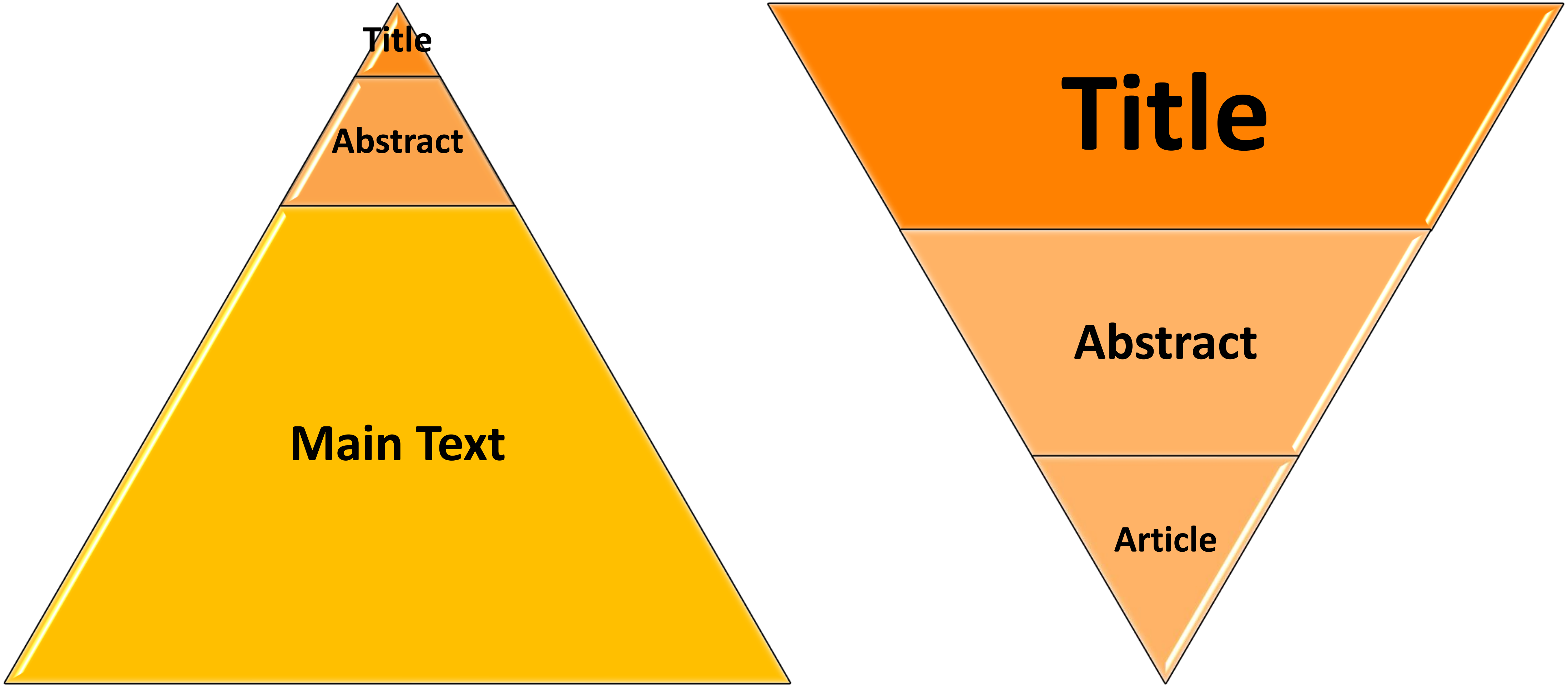

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- instant
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- nutrition
- slpn
- manufacture
- stem

Reference Manuscript

An instant beverage rich in nutrition and bio-activity components manufactured from stems and leaves of Panax notoginseng

The dried root of Panax. notoginseng (Burk) F.H. Chen (Araliaceae) is defined as Radix Notoginseng and is used as the most famous Chinese traditional medicine. However, stems and leaves of P. notoginseng (SLPN) has not been deeply utilized since it is a newly authorized food resource. Thus, the application methods, nutritional and bioactive components of SLPN need to be completely evaluated. In the present study, the extraction method was optimized to manufacture an instant beverage, the nutritional and bioactive components of SLPN were analyzed, and antioxidant activity of instant beverage was detected. The extraction yield of instant beverage was 37.89 ± 0.02% under the condition of 48.50% ethanol concentration, material to liquid 1:21, extraction time 39 h, and repeat twice. Forty-three triterpenoid saponins including ginsenoside La, ginsenoside Rb3, notoginsenoside D, notoginsenoside R1 were identified in SLPN. The total saponin of instant beverage was 403.05 ± 34.98 mg/g. The main nutritional components of instant beverage were Gly 2.10 ± 0.63 mg/g, His 1.23 ± 0.07 mg/g, α-VE 18.89 ± 1.87 μg/g, β-VE 17.53 ± 1.98 μg/g, 11.66 ± 1.24 μg/g, potassium(K) 49.26 ± 2.70 mg/g, calcium (Ca) 6.73 ± 0.27mg/g; the main active components were notoginsenoside Fd 227.45 ± 2.02 mg/g, notoginsenoside Fe 51.80 ± 2.33 mg/g, Catechin 24.57 ± 0.21mg/g, and γ-aminobutyric acid 7.50 ± 1.85 mg/g, respectively. The 50% effective concentrations (EC50) of instant beverage for scavenging hydroxyl (OH-) radicals, superoxide anion (O2-) radicals, 1,1-diphenyl-2-picrylhydrazyl (DPPH) radicals and 2,2′-azino-bis (3-ethylbenzothiazoline-6-sulfonate) (ABTS+) radicals were 0.07, 0.22, 0.13 and 0.19 mg/mL, respectively. Anyways, we optimized a method of high extraction yield for deeply utilization of newly authorized food resource SLPN. Meanwhile, we found that SLPN and its instant beverage contain richly nutritional components (e.g., γ-aminobutyric acid, Gly, His) and bioactive components (e.g., ginsenoside, polyphenols), and instant beverage shows a good antioxidant activity.

摘要

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Outline

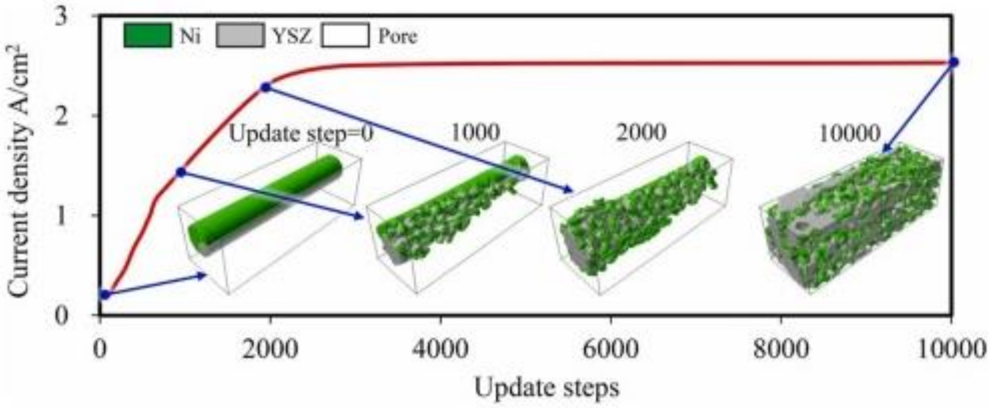
Highlights

- Optimization model is dev
Ni-YSZ.
- Multiphase level set metho
microstructure.
- Optimized Ni-YSZ structu
current.
- The optimized structure h
shaped YSZ scaffold.
- Effects of target radius and

Abstract

In the present study, numerical model is developed to optimize the 3D multiphase electrode microstructure for SOFC, e.g. nickel-yttria-stabilized zirconia (Ni-YSZ) anode. During the optimization, Ni-YSZ microstructure is deformed in order to maximize the total reaction current. Multiphase level-set (MLS) model is applied to r
adjoint method is applied for t
improve the computational acc
microstructure manufacturabl
the local particle radii are kept
interface is updated only when
also confirmed that the optimi
YSZ anode are independent of
schemes. According to the opti
electrochemical performances
the microstructure successfully
optimized Ni-YSZ microstructures are composed of Ni particles embedded into a YSZ scaffold which has a pillar-like shape along the anode thickness direction.

Graphical Abstract



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提供一个简单的研究背景概述

问题

明确提出你所关注的问题

研究现状

明确提出现有的解决方案及局限性

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阐明还有那些工作值得去完成的

明确地提出一个与本期刊研究方向相关的观点

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研究方法

How

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what

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By what

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研究结果

统计结果
必须给出包含图、表的可信的统计分析结果

分类表达
使用二级标题，将同一类别的研究结果放在一起

强调发现
主要发现突出强调，意外发现单独阐述

清晰易读
研究结果必须清晰且容易理解

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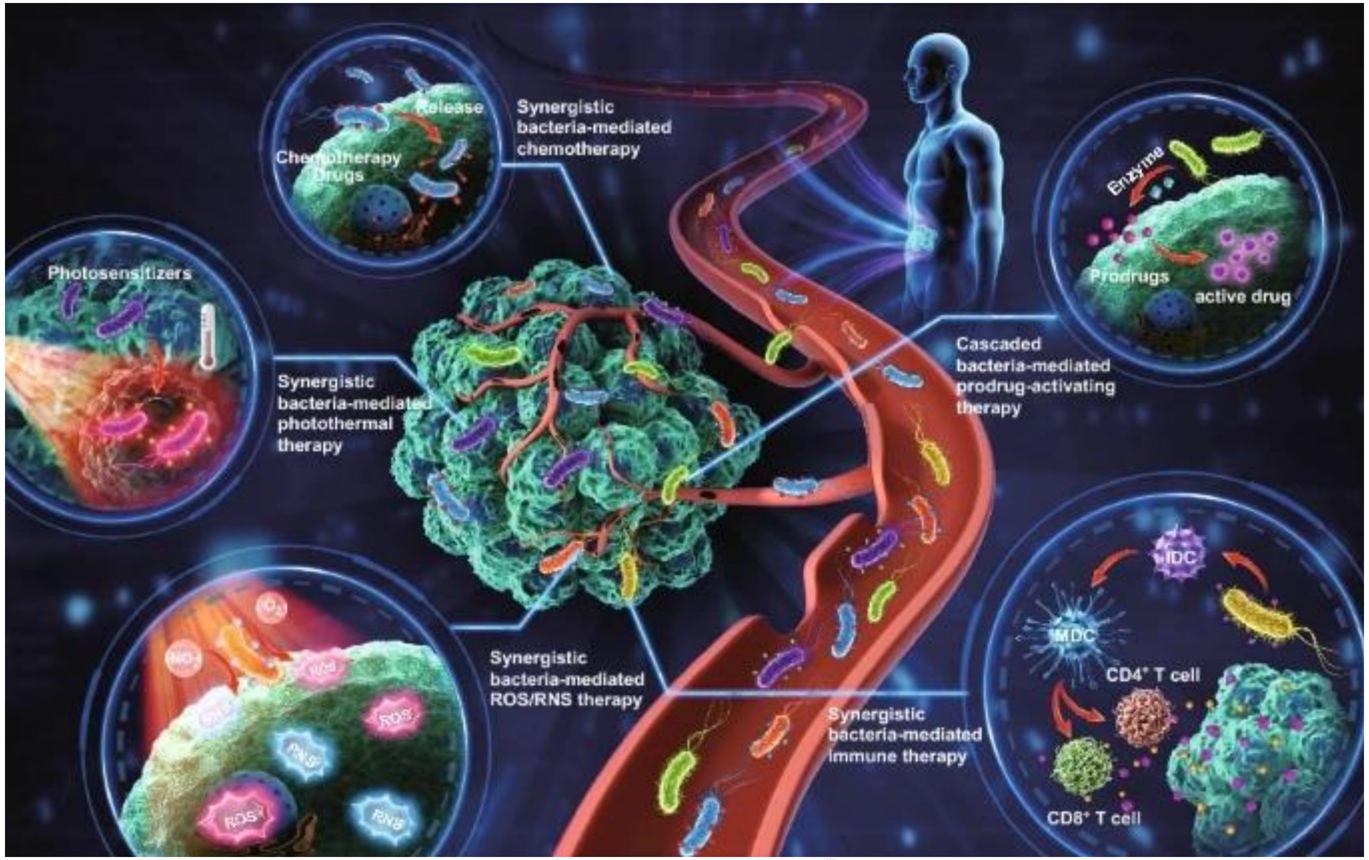
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Photosensitizers
Synergistic bacteria-mediated photothermal therapy
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Prodrugs
active drug
Cascaded bacteria-mediated prodrug-activating therapy
ROS
RNS
Synergistic bacteria-mediated ROS/RNS therapy
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CD4⁺ T cell
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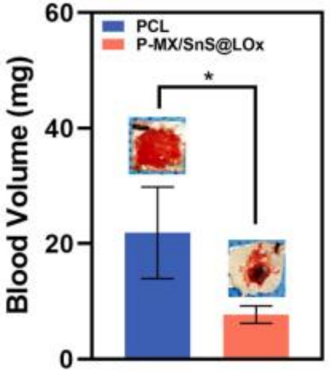
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Blood Volume (mg)
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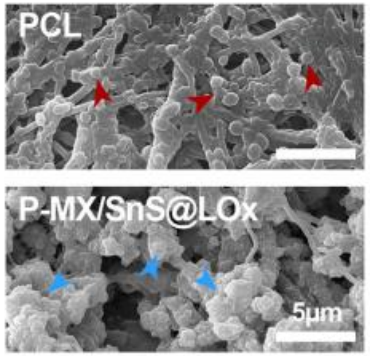
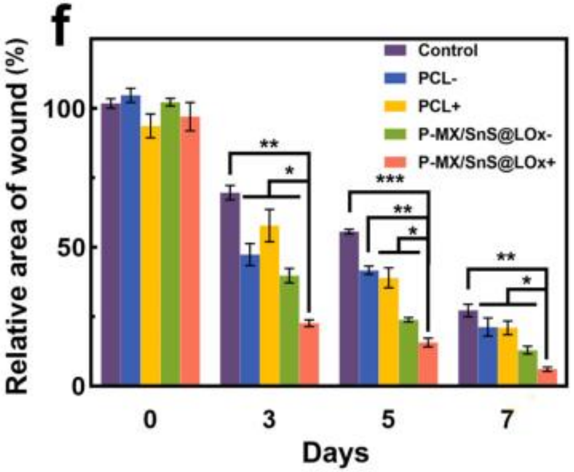

PCL
P-MX/SnS@LOx
5μm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Control
PCL-
PCL+
P-MX/SnS@LOx-
P-MX/SnS@LOx+
Relative area of wound (%)
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Days
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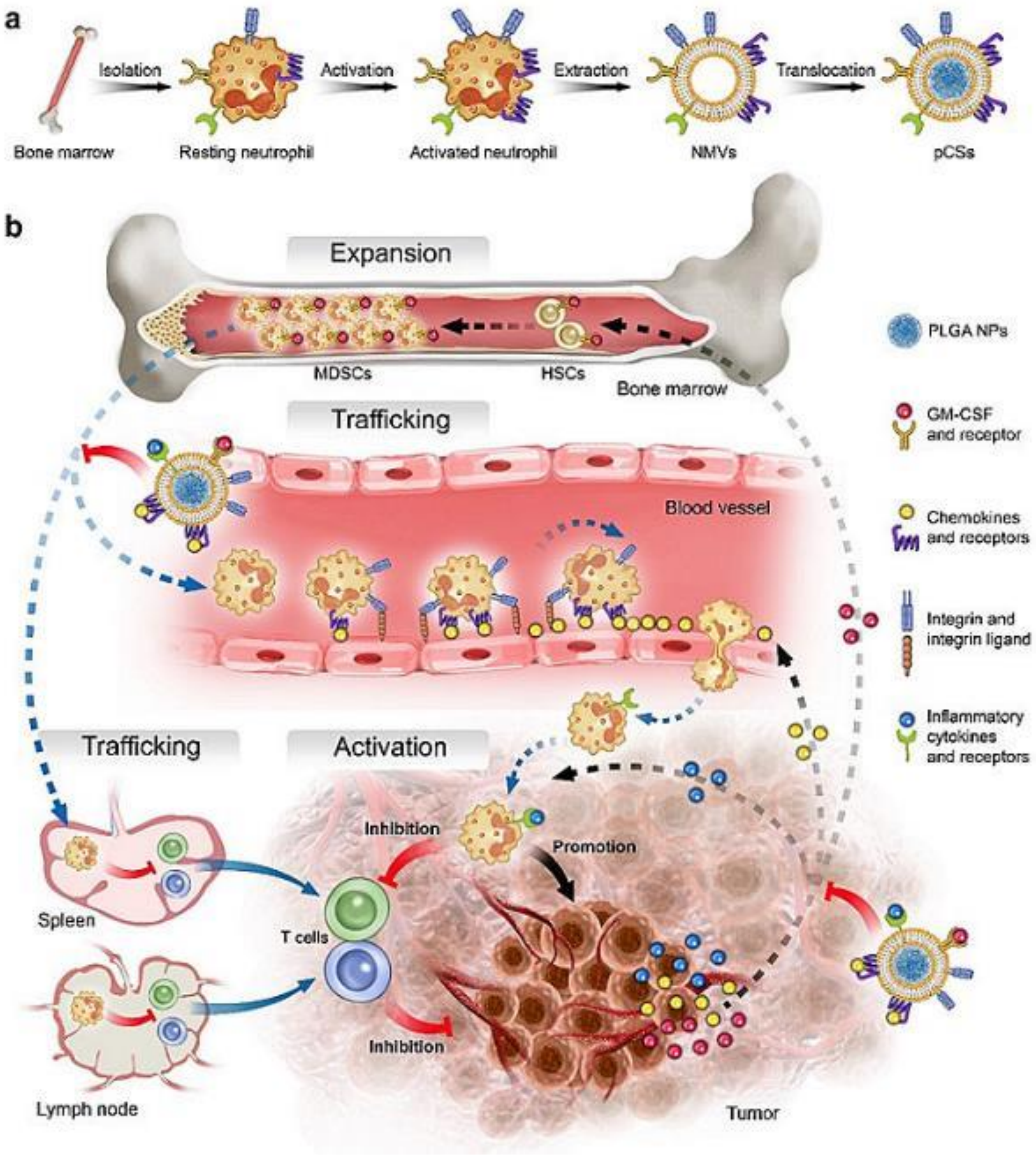
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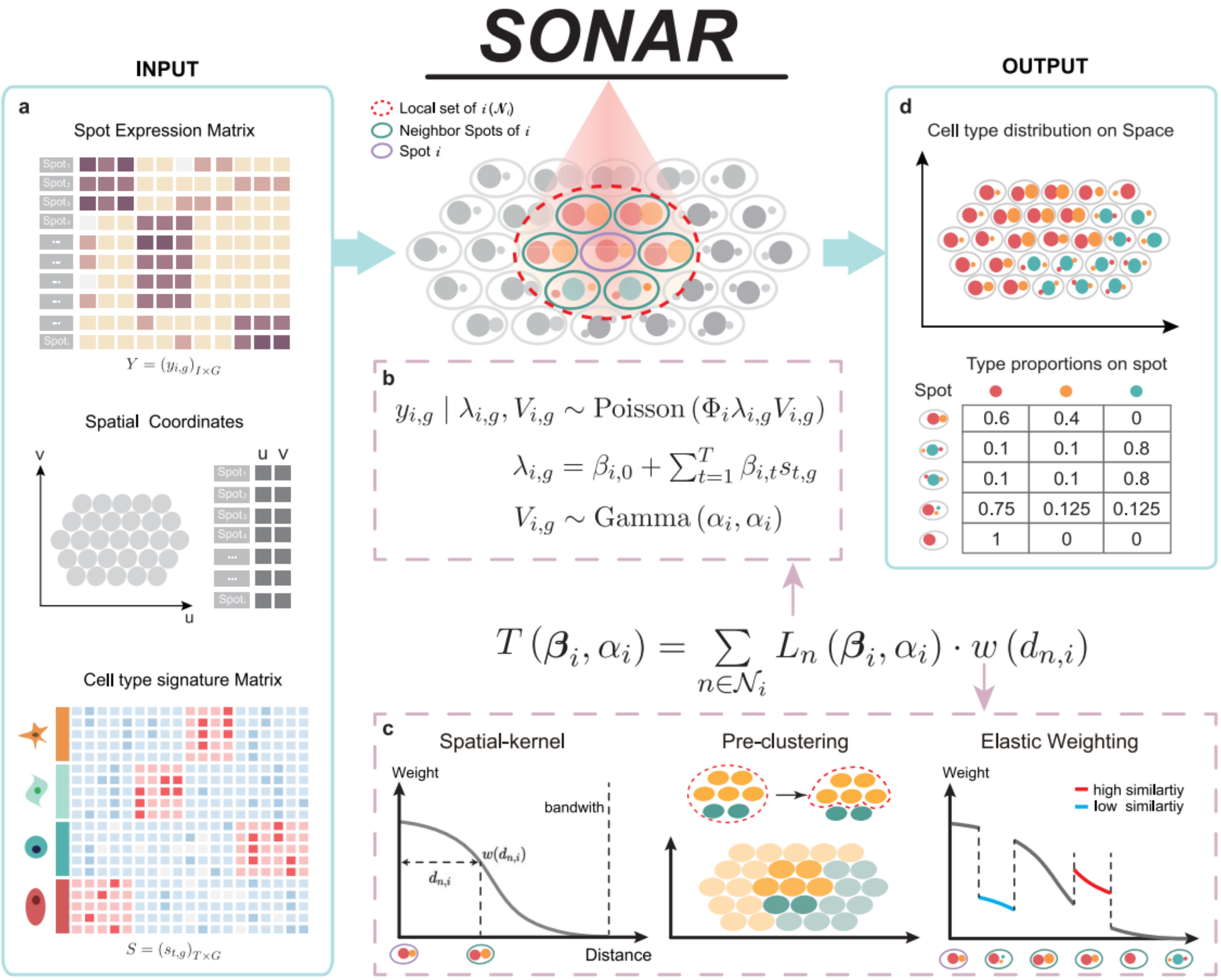

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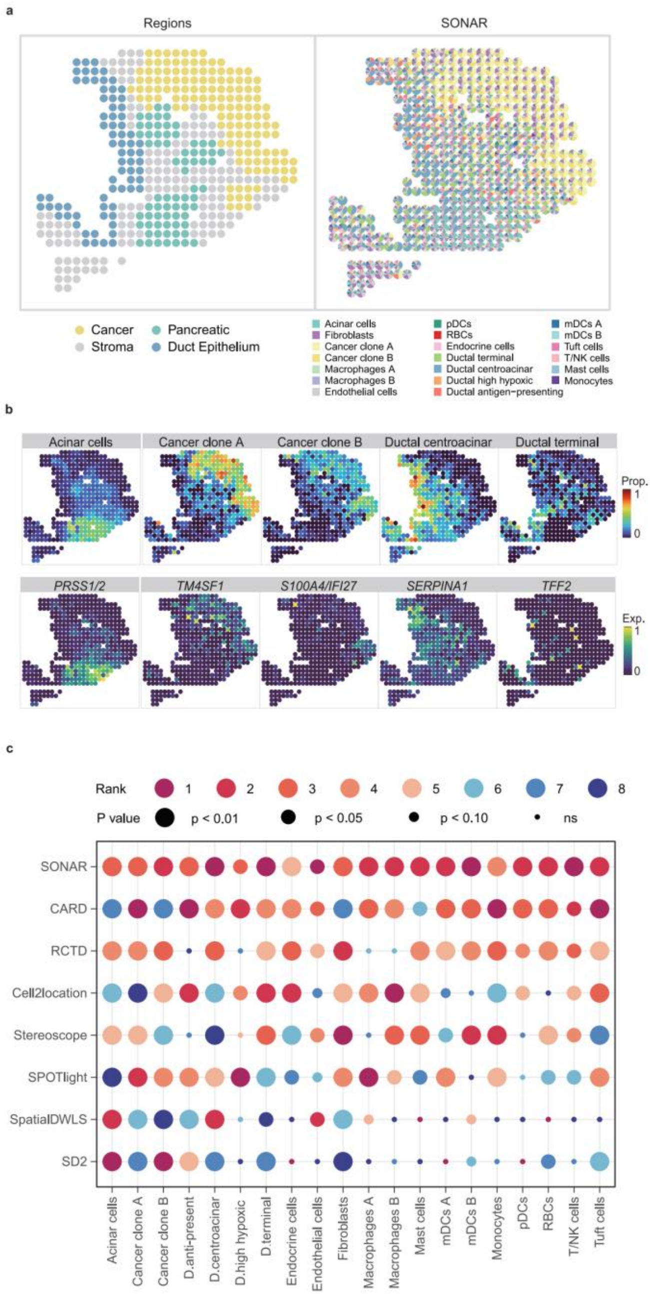

讨论

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- 保证讨论部分与你的研究结果相关且对其能提供有效的补充
- 将已发表的结果与你的研究结果进行比较，正面支持，反面尊重
- 这是全篇**最重要**的一个章节

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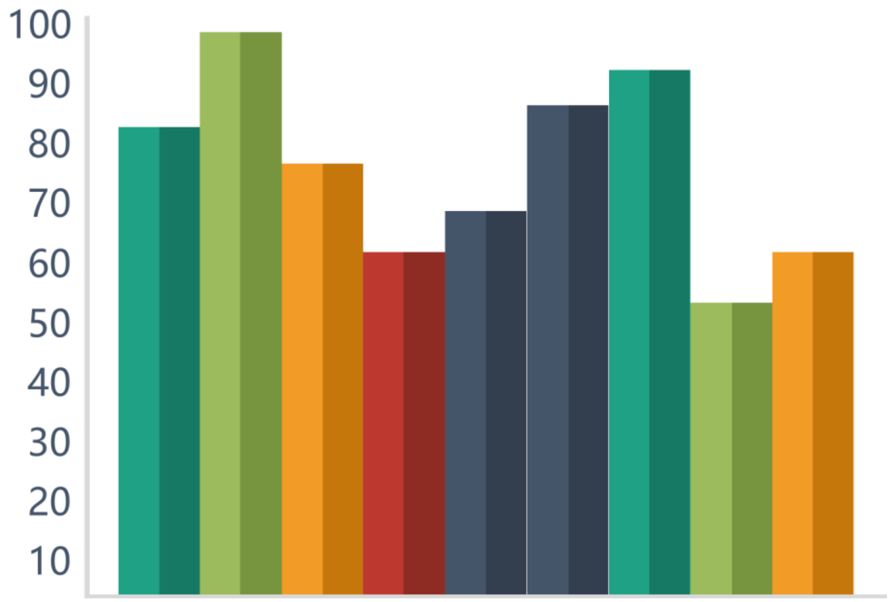
结论



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用尽量少的篇幅表达你的结论

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价值体现
阐述你的研究工作对已有研究有哪些提升

未来展望
提出未来的研究方向以及实验设计

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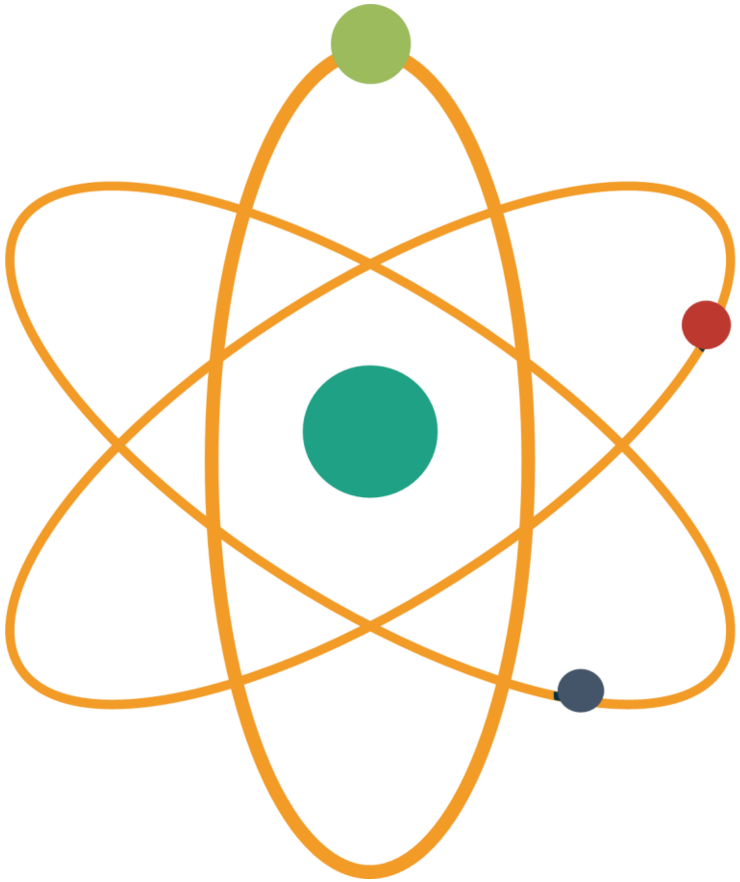

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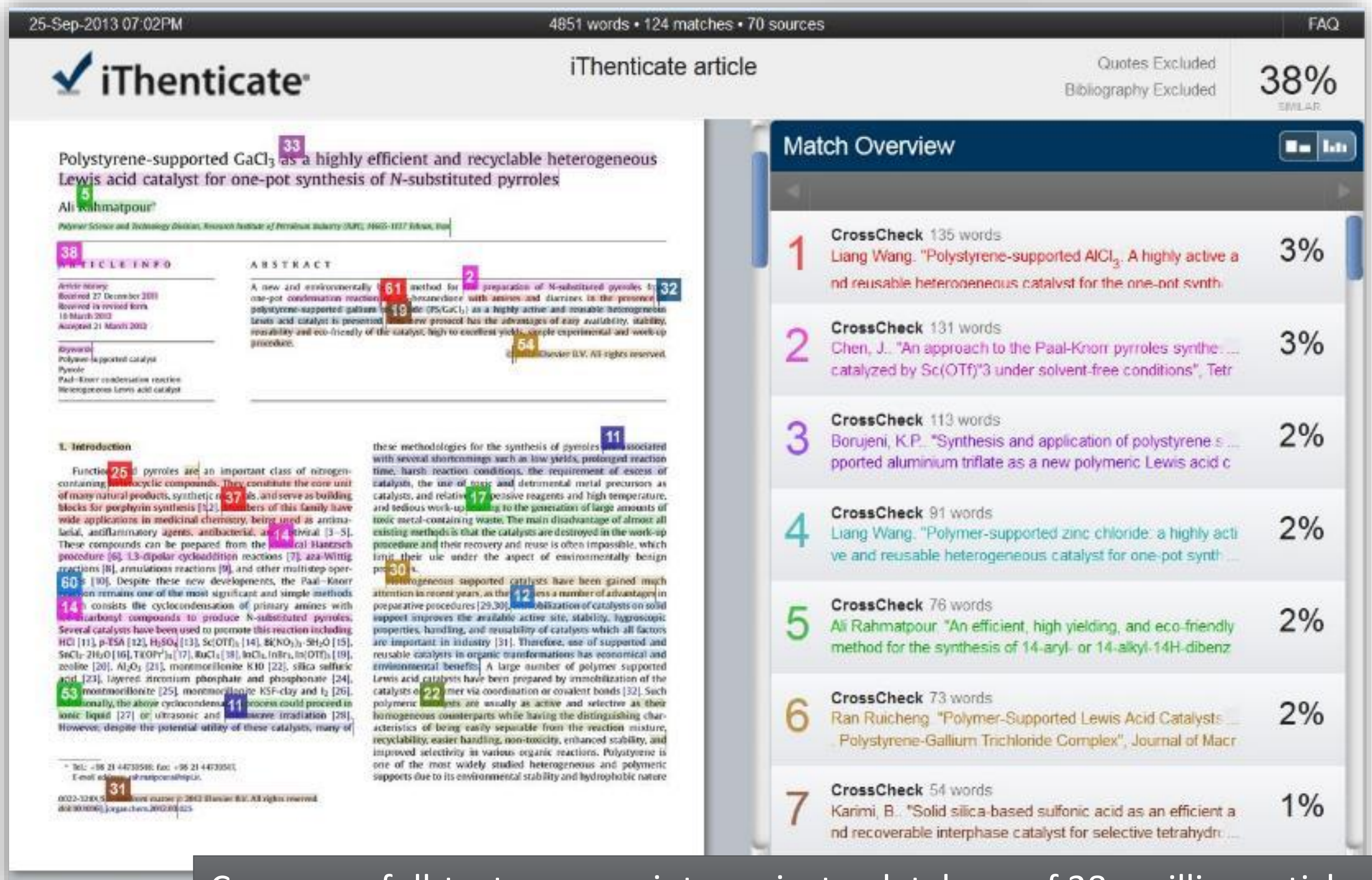

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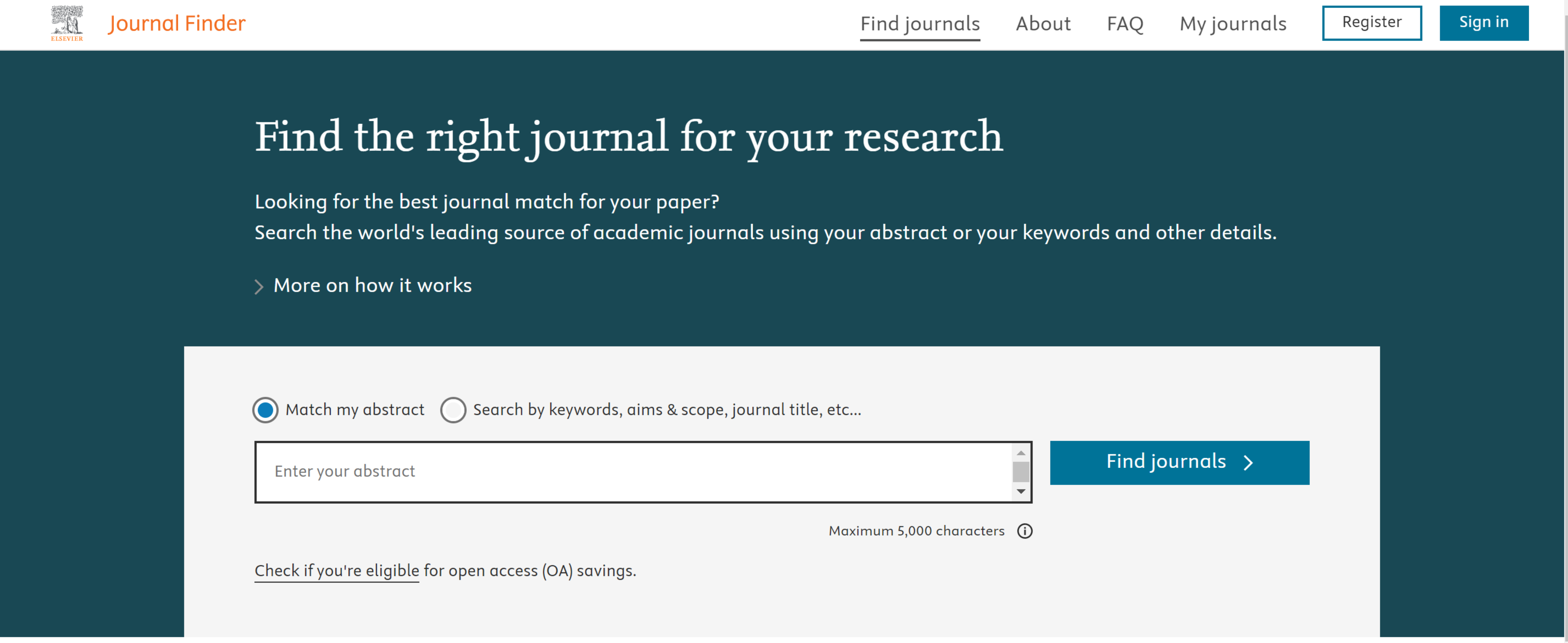

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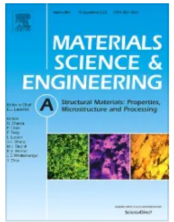

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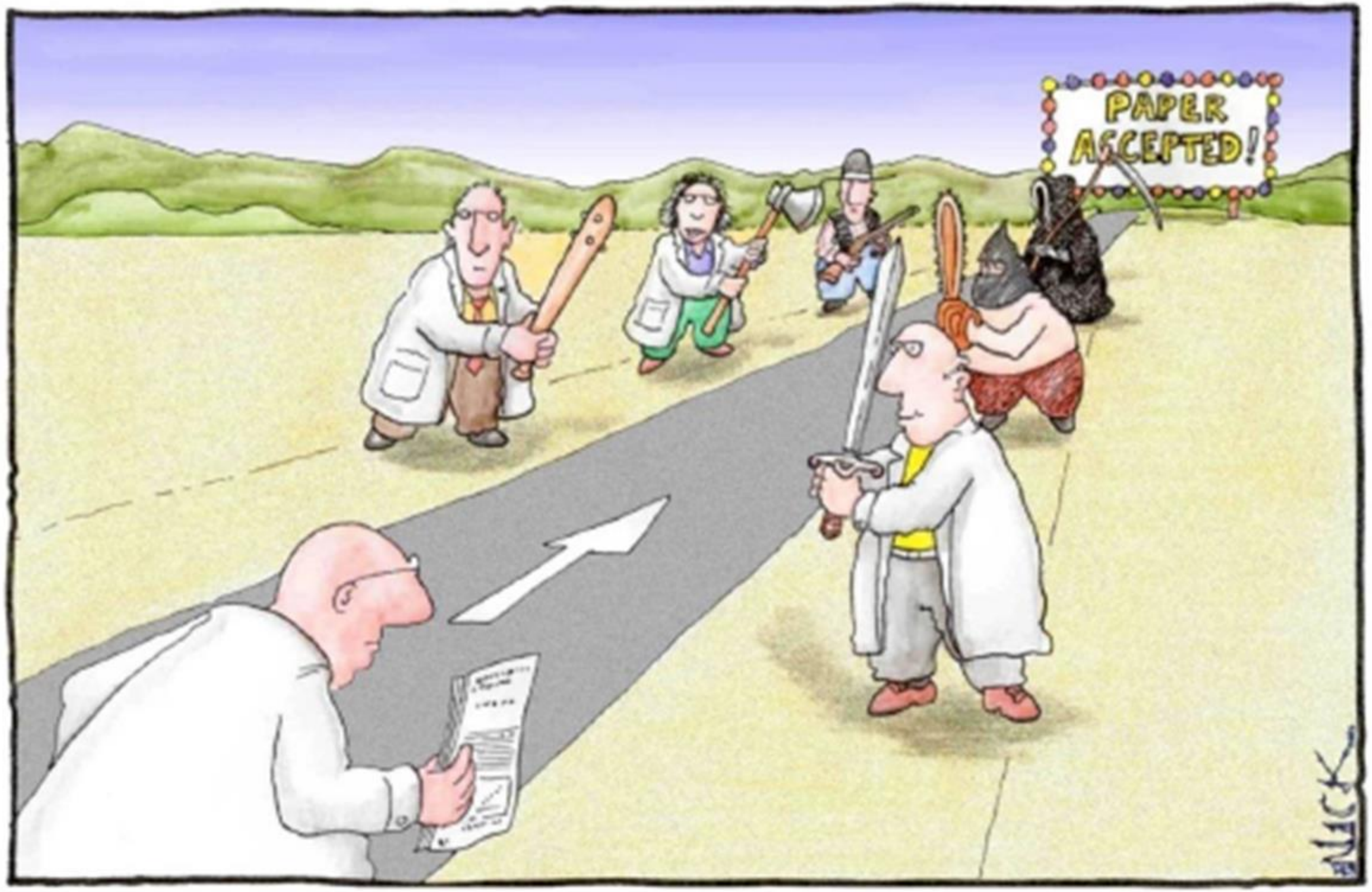

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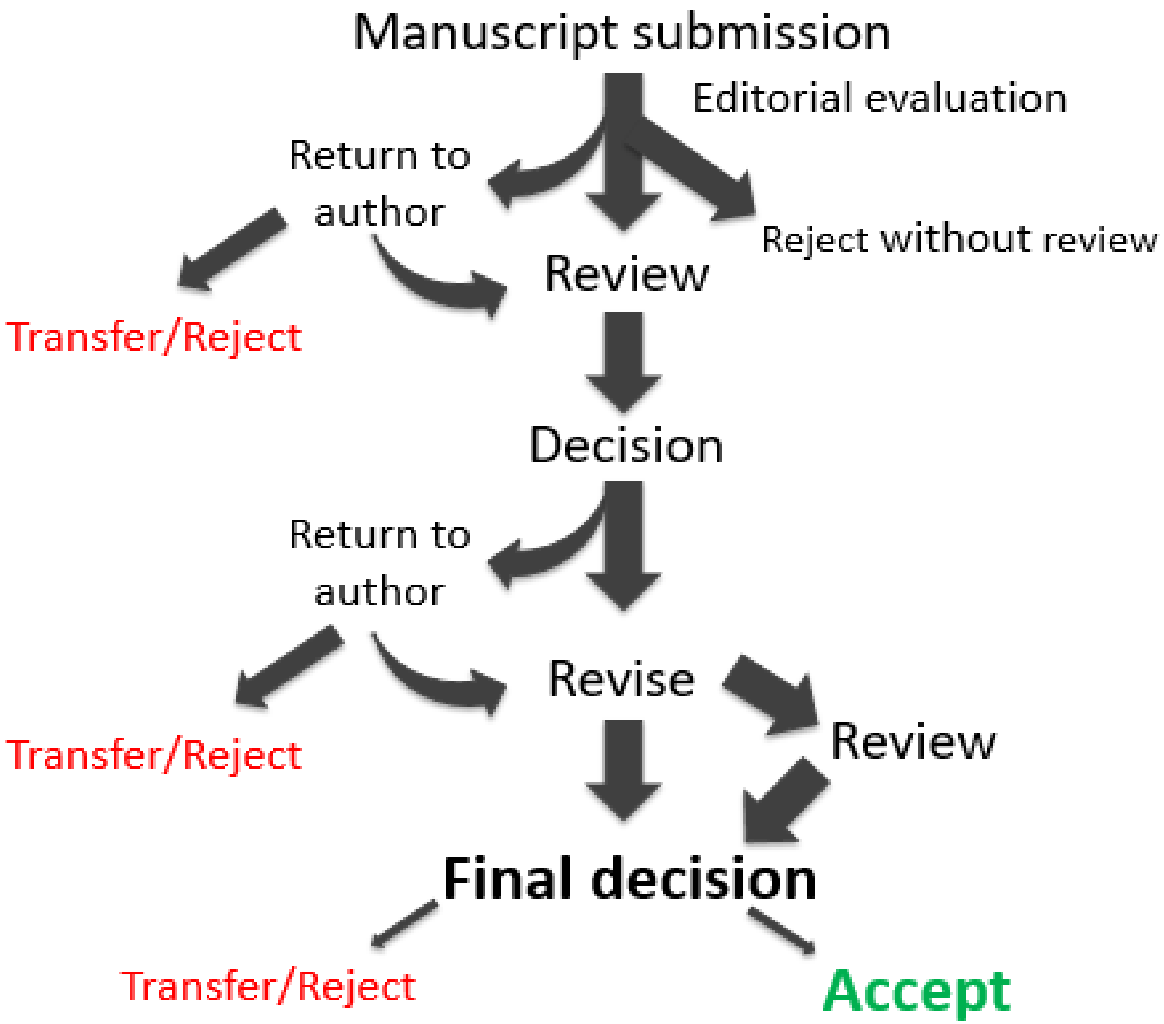

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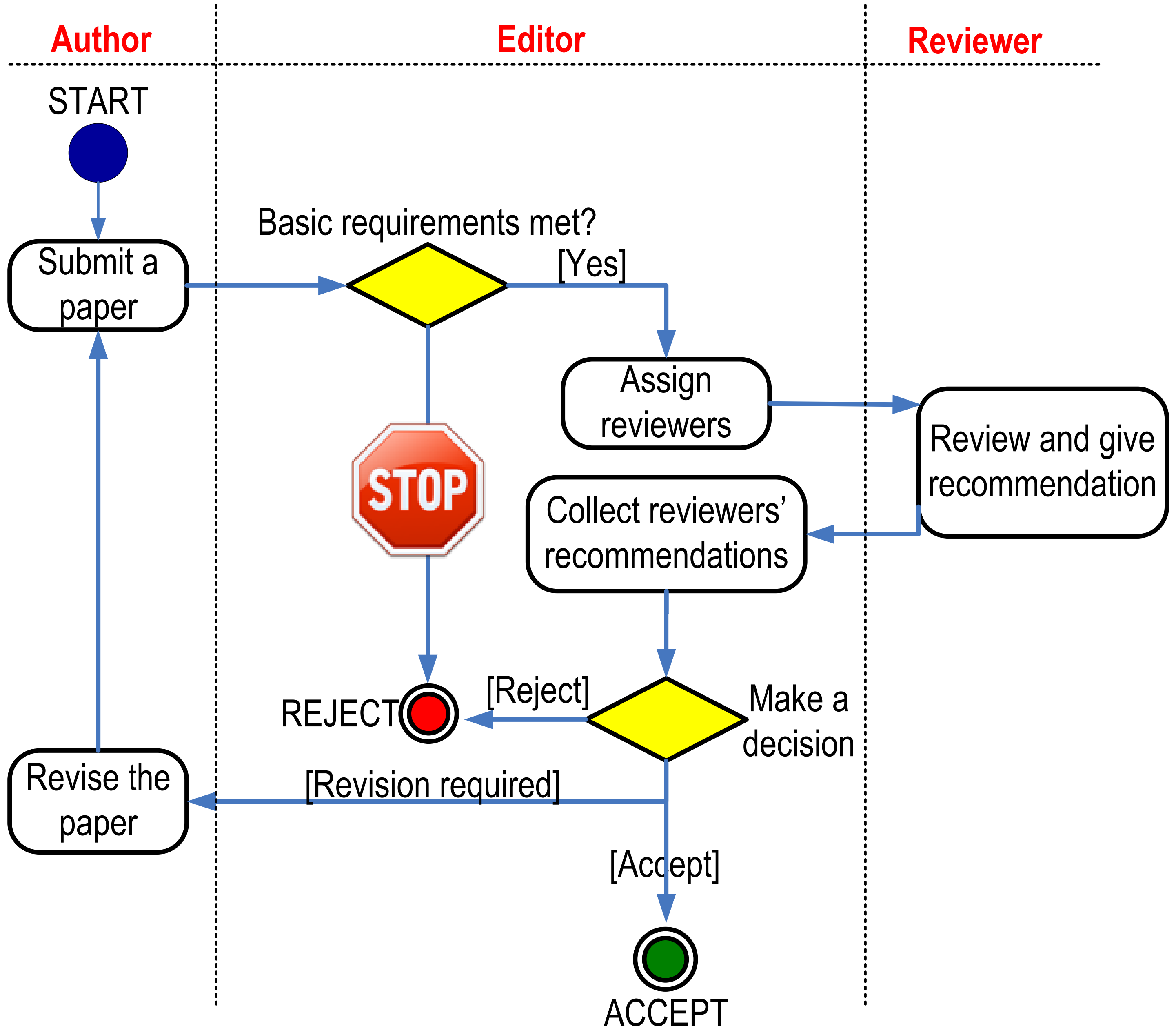
rejected by > 13,000 editors

557,000+
reviewers

365,000
articles accepted


Author
Editor
Reviewer
START
Submit a paper
Basic requirements met?
[Yes]
Assign reviewers
Review and give recommendation
Collect reviewers' recommendations
STOP
REJECT
[Reject]
Make a decision
Revise the paper
[Revision required]
[Accept]
ACCEPT

检查状态

- Submitted to Journal
- Editor Invited
- With Editor
- Under Review
- Required Reviews Complete
- Decision in Process
- Minor revision/Major revision
- Revision Submitted to Journal
- Accept
- Reject

Communication with Editor and Reviewers

提交新稿:	Cover Letter
提交修改稿:	Rebuttal Letter
	Response Letter
被拒后:	Appeal Letter
提醒:	Reminder Letter

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已发出评审邀请* 9
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