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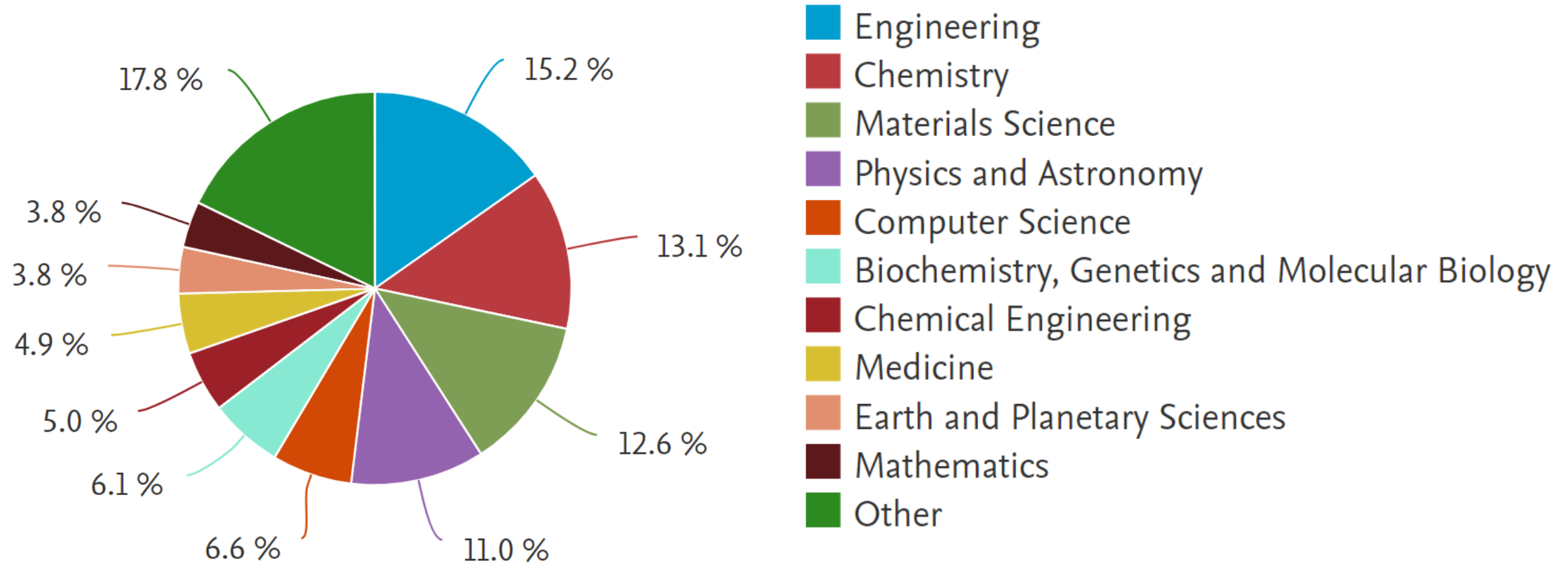
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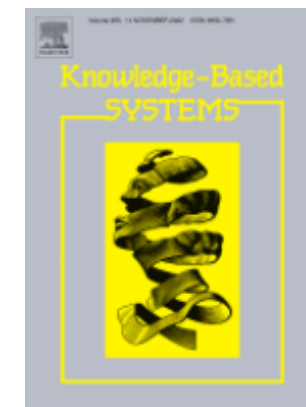
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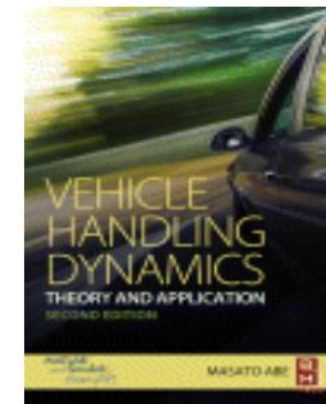
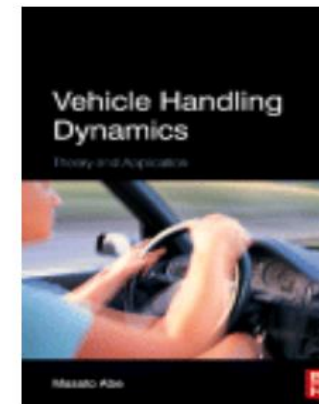
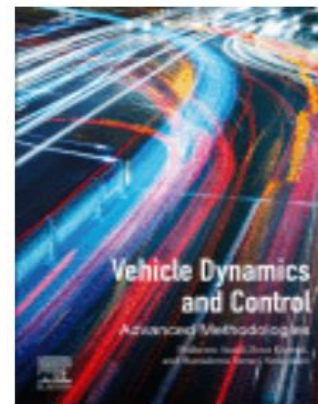
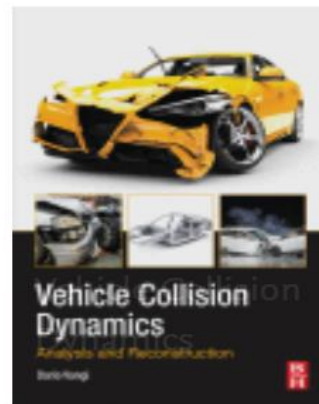
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
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In this paper, a distributed model predictive control (DMPC) algorithm for a platoon of heterogeneous vehicles is proposed. The leading vehicle is allowed to be driven by a non-zero and time-varying 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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Actuators, Volume 12, Issue 1, January 2023
Lin, S., ..., Shi, W.


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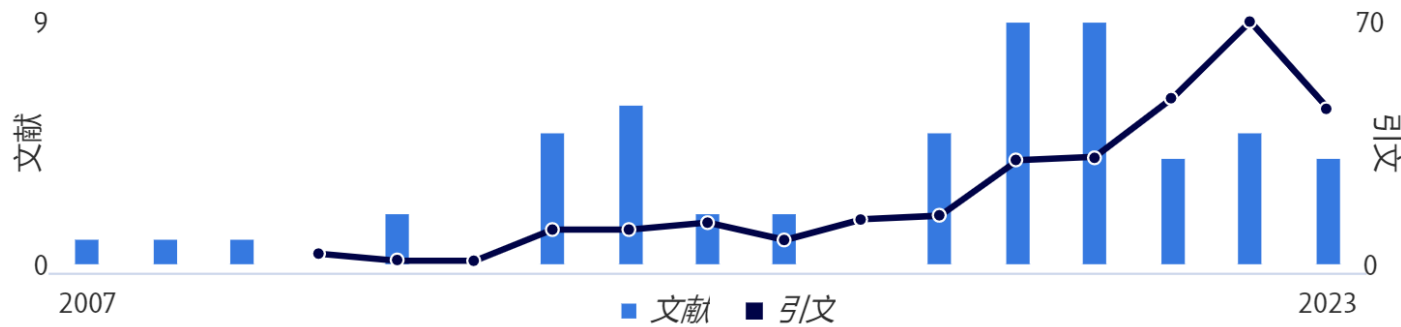
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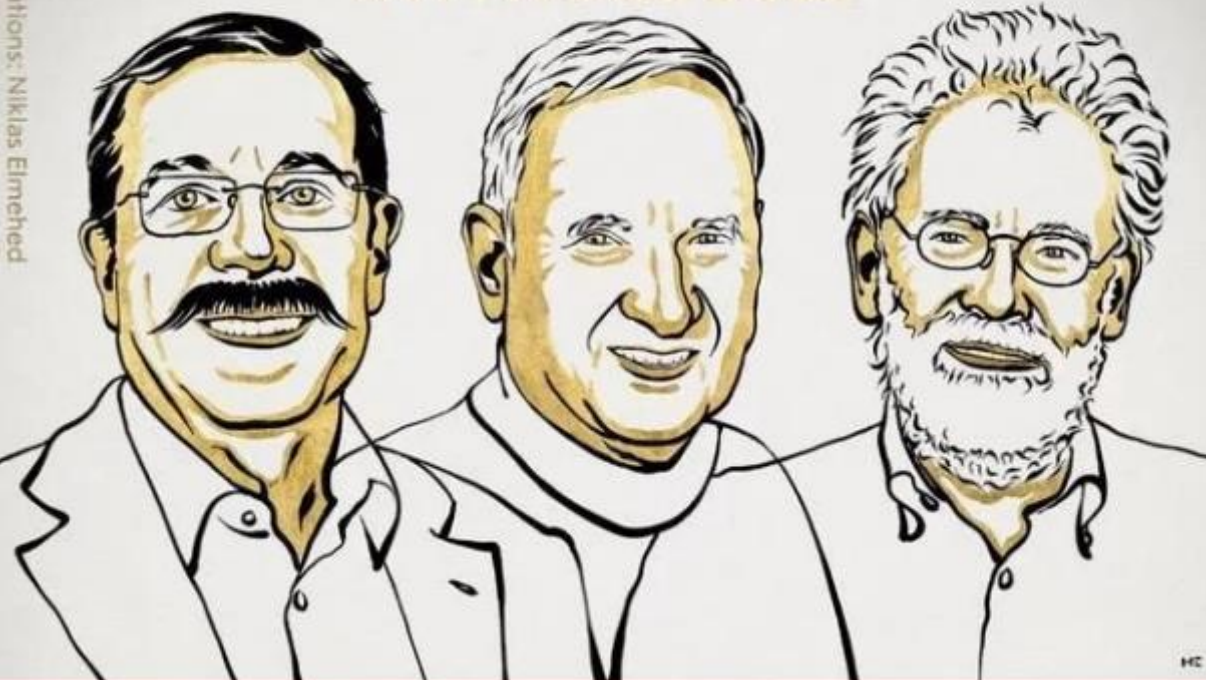


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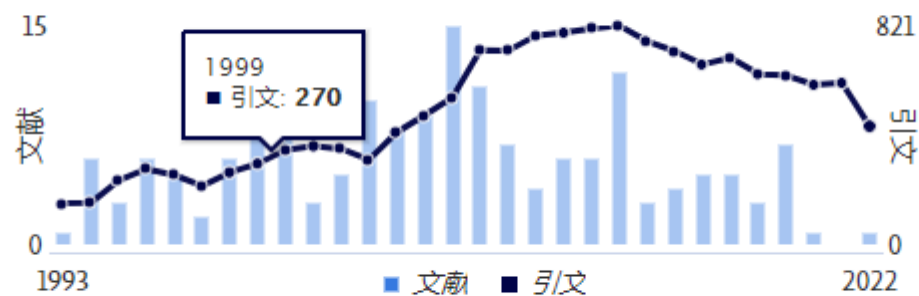
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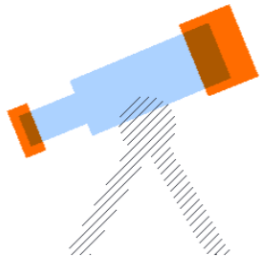
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Volume 171, Issue 6, 30 November 2017, Pages 1229-1231



BenchMarks

How Cryo-EM Became so Hot

Yifan Cheng¹, Robert M. Glaeser², Eva Nogales^{2,3}

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The Royal Swedish Academy of Sciences awarded the 2017 Nobel Prize for Chemistry to Jacques Dubochet, Joachim Frank, and Richard Henderson for “developing **cryoelectron microscopy** for the high-resolution structure determination of biomolecules in solution.” Achieving this goal, which required

Cryo-Electron Microscopy

Cryoelectron microscopy showed that the flexible dimerization domain gets ordered when Ase1/PRC1 crosslinks two antiparallel microtubules [78], leading to the rod domains projecting from the microtubule-binding domains at a fixed angle [74,78].

From: Trends in Cell Biology, 2013

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Cryo-EM, Part C: Analyses, Interpretation, and Case studies

Friedrich Förster, Elizabeth Villa, in *Methods in Enzymology*, 2010

Abstract

Cryoelectron microscopy (cryo-EM) is an increasingly popular method to elucidate the structures of macromolecular complexes. However, in many applications the resolution of cryo-EM densities is limited to the low or intermediate resolution regime, that is, $(10 \text{ \AA})^{-1}$ or worse. Therefore, unambiguous molecular interpretation of cryo-EM densities requires efficient use of additional information, such as

Recent Advances in Electron Cryomicroscopy, Part B

Michael G. Rossmann, ... Pavel Plevka, in *Advances in Protein Chemistry and Structural Biology*, 2011

Abstract

Cryo-electron microscopy (cryo-EM) in combination with **single-particle analysis** has begun to complement crystallography in the study of large macromolecules at near-atomic resolution. Furthermore, advances in **cryo-electron tomography** have made possible the study of macromolecules within their cellular

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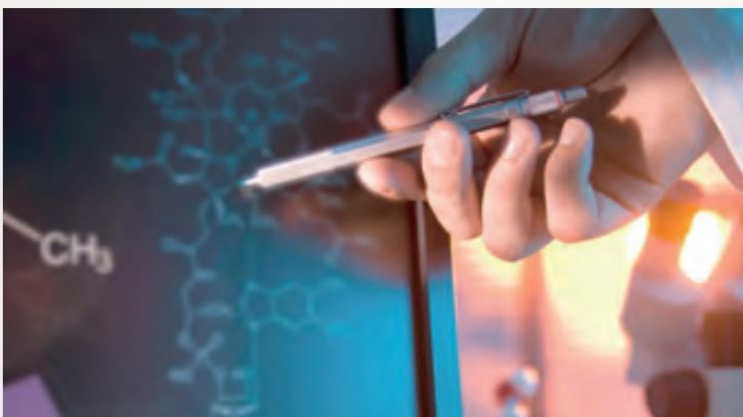
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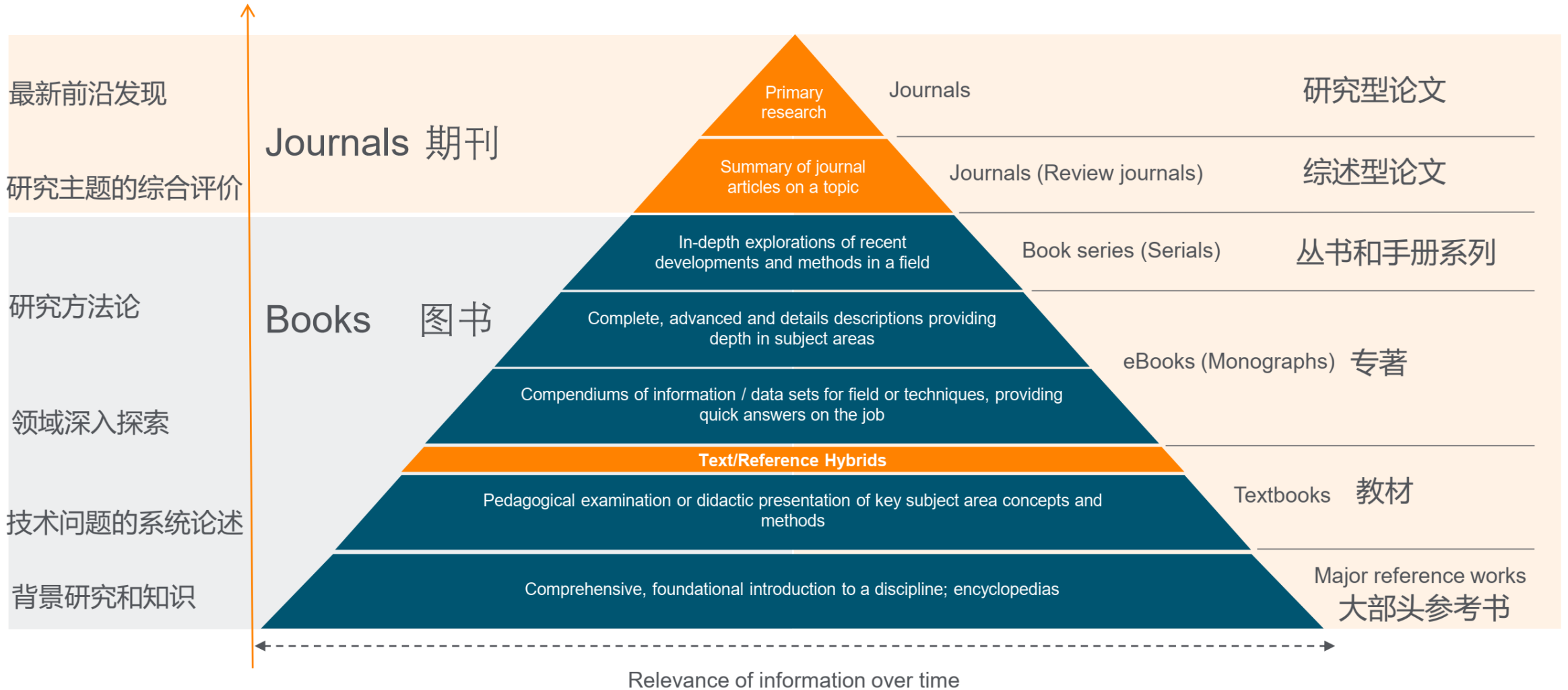


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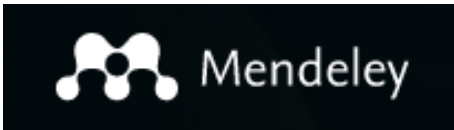
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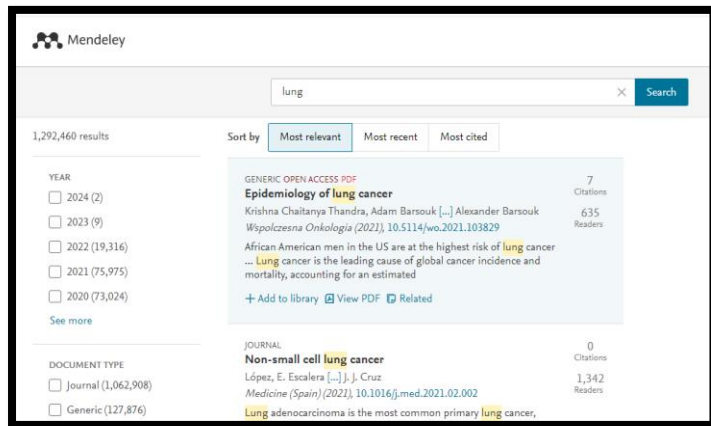


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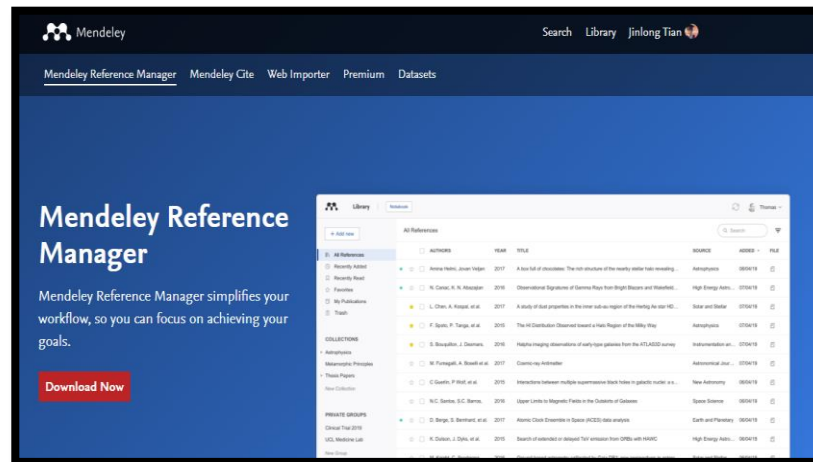
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Outline

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Results and discussion

Conclusion

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Acknowledgments

Appendix A. Supplementary material

Data Availability

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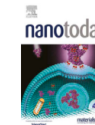
Nano Today 47 (2022) 101627



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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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ABSTRACT

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 (H₂O₂ and O₂^{•-}), 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.

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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 (H₂O₂, •OH, O₂^{•-}, 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 administered 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.

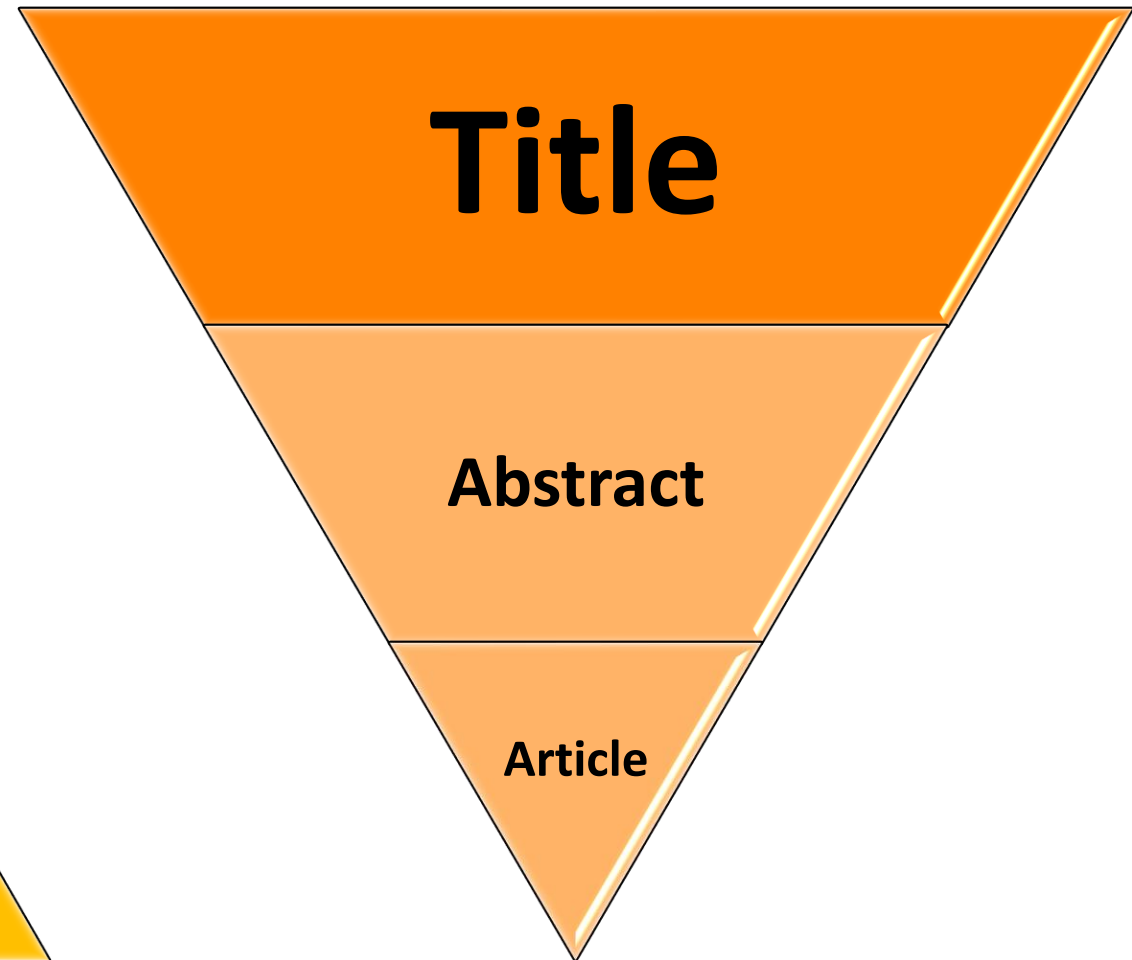
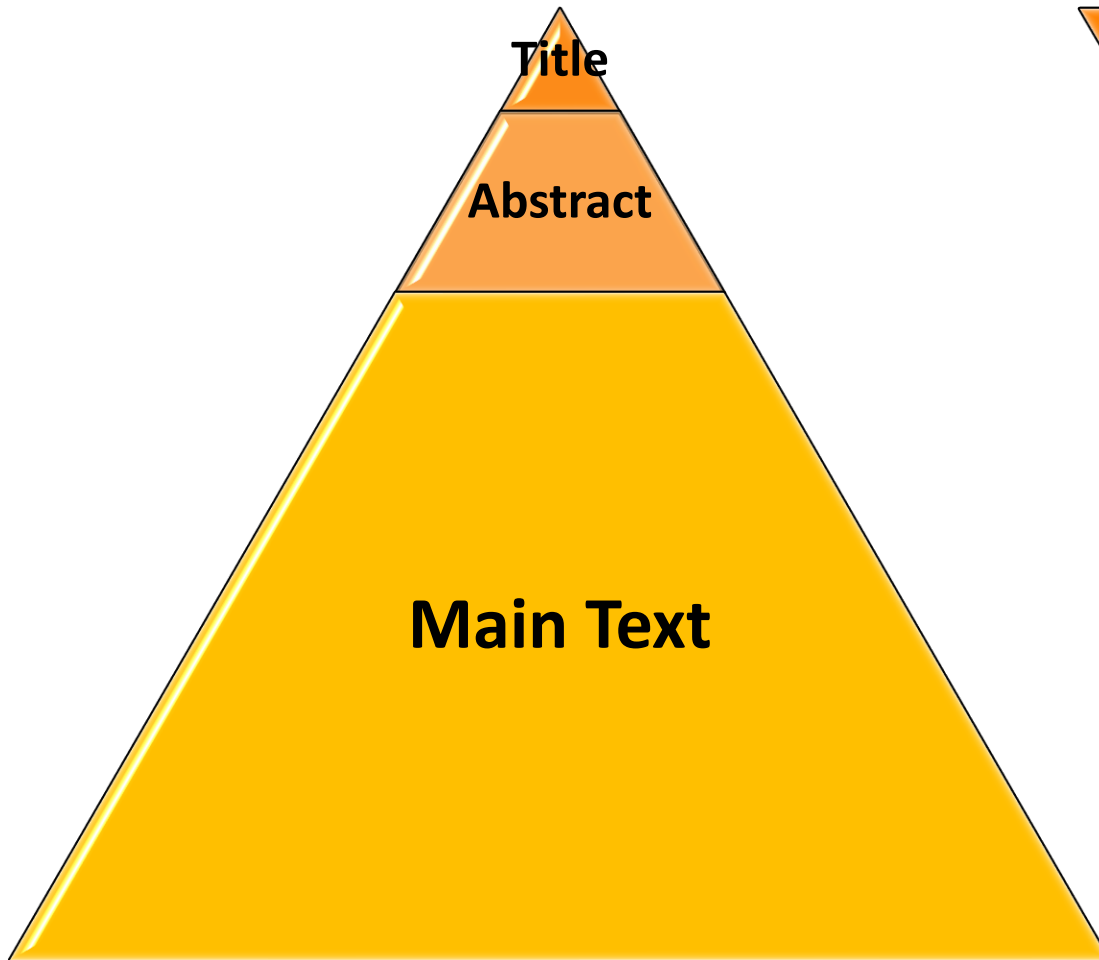
Recently, nanomaterials with inherent catalytic activities, including nano-carbons [16–18], precious metal nanoparticles [19–21], metal oxides [22–24], and polyphenol nanoparticles [25,26], are thought to be an alternative approach to clean RONS towards addressing oxidative stress-related injuries. These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

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¹ These authors contributed equally to this work.

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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 $37.89 \pm 0.02\%$ 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 μ g/g, β -VE 17.53 ± 1.98 μ g/g, 11.66 ± 1.24 μ g/g, potassium(K) 49.26 ± 2.70 mg/g, calcium (Ca) 6.73 ± 0.27 mg/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 ± 0.21 mg/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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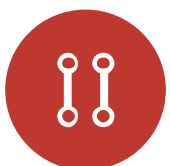
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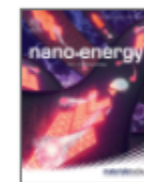
Highlights

- Optimization model is developed for Ni-YSZ.
- Multiphase level set method is used to optimize the microstructure.
- Optimized Ni-YSZ structure shows high current.
- The optimized structure has a pillar-like shaped YSZ scaffold.
- Effects of target radius and scaffold thickness on the electrochemical performances of the optimized Ni-YSZ microstructures are investigated.

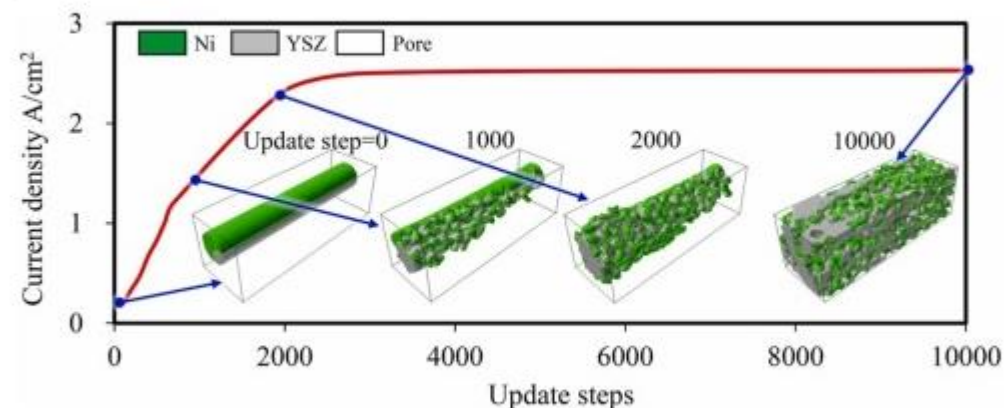
Abstract

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 optimize the microstructure. The adjoint method is applied for the optimization to improve the computational accuracy. The optimized microstructure is manufacturable. The local particle radii are kept constant. The pillar-like interface is updated only when the total current is improved. It is also confirmed that the optimized Ni-YSZ anode are independent of the optimization schemes. According to the optimization results, the electrochemical performances of the optimized Ni-YSZ microstructures are investigated.

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.



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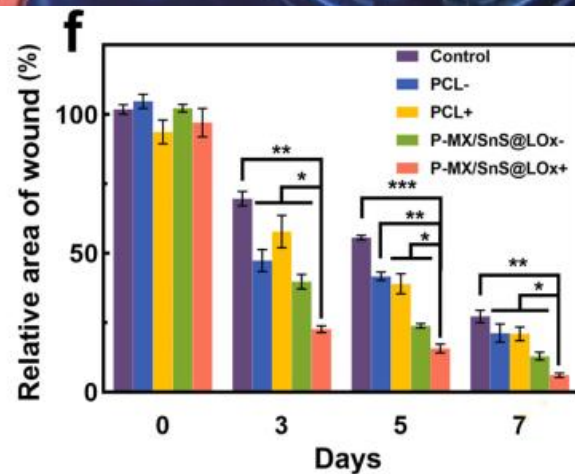
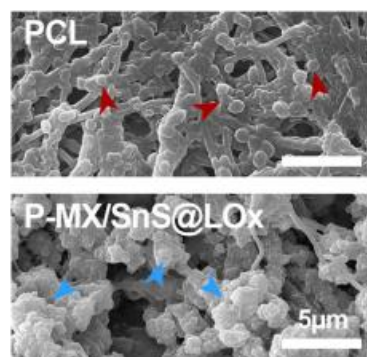
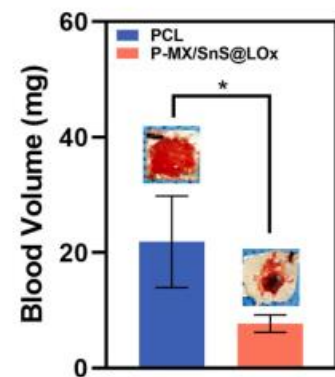
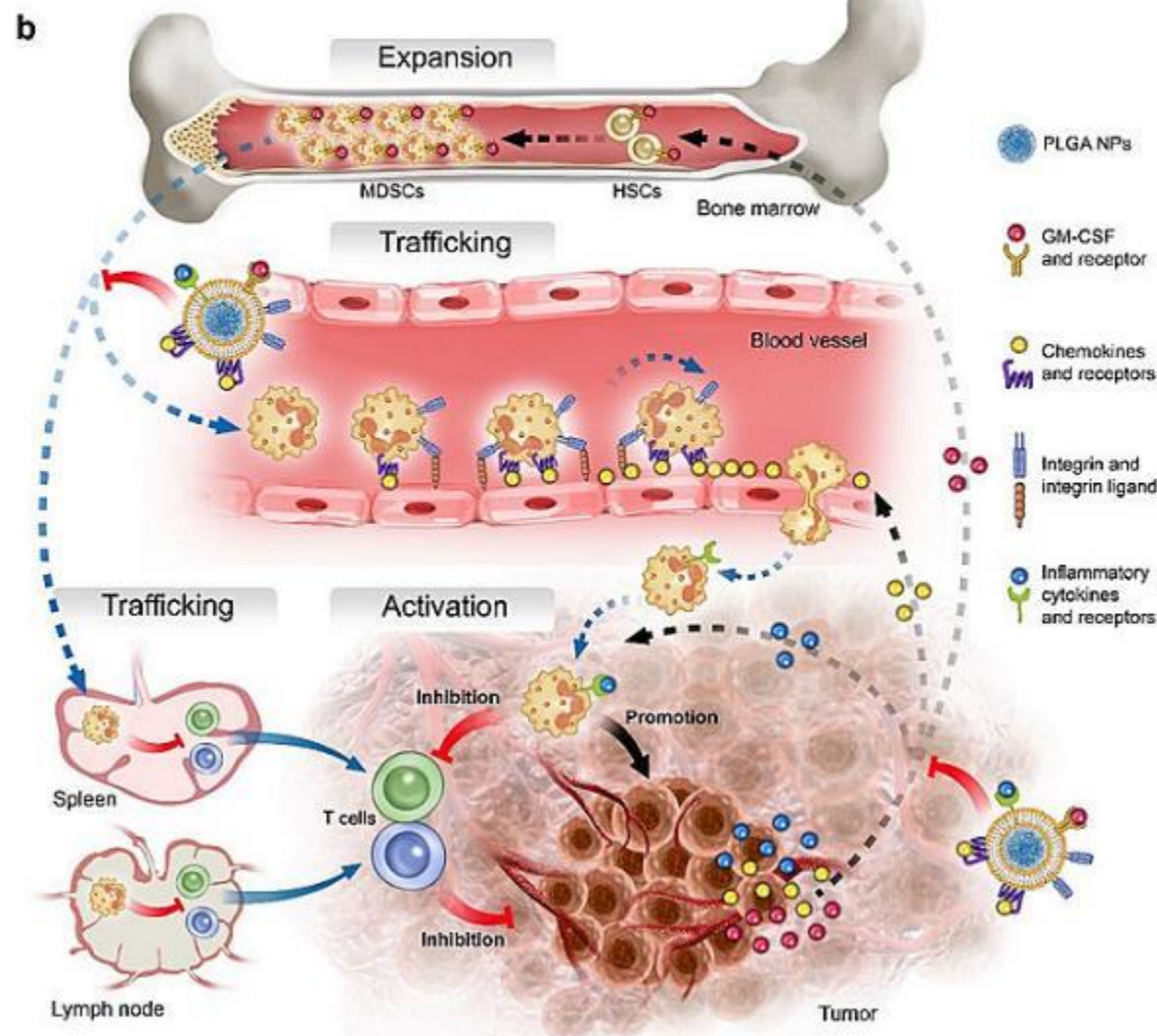
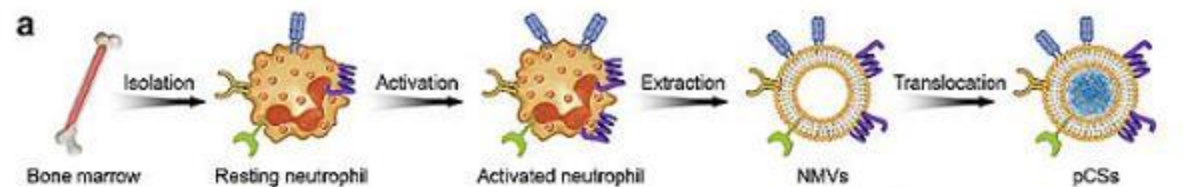
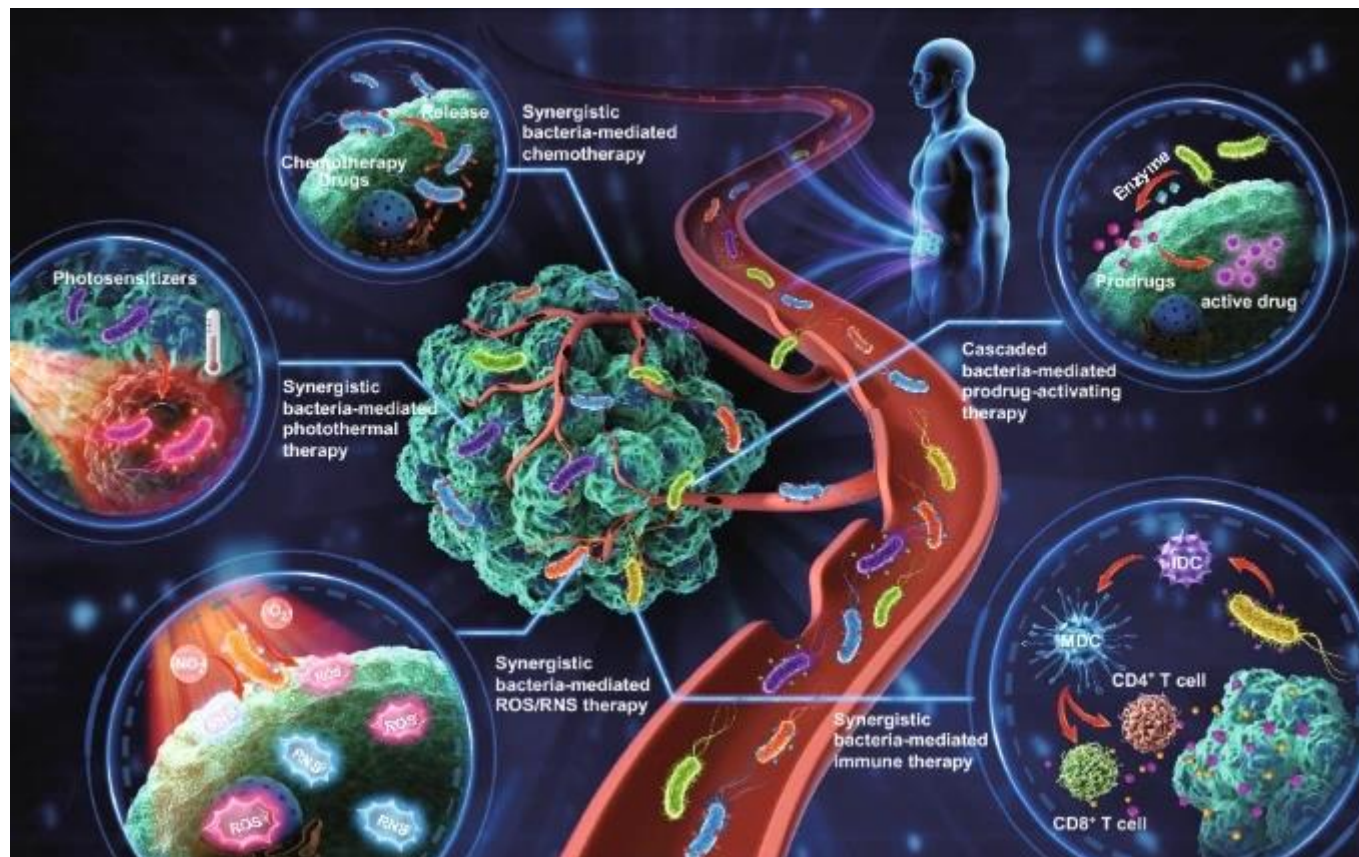


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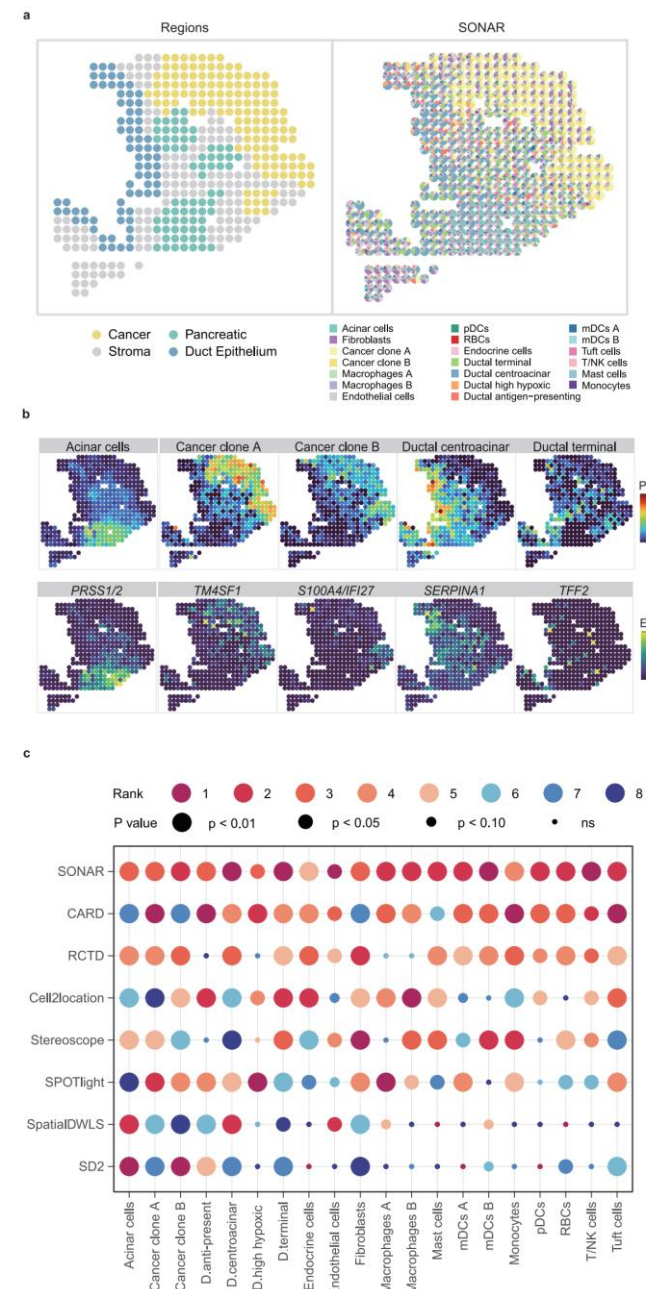
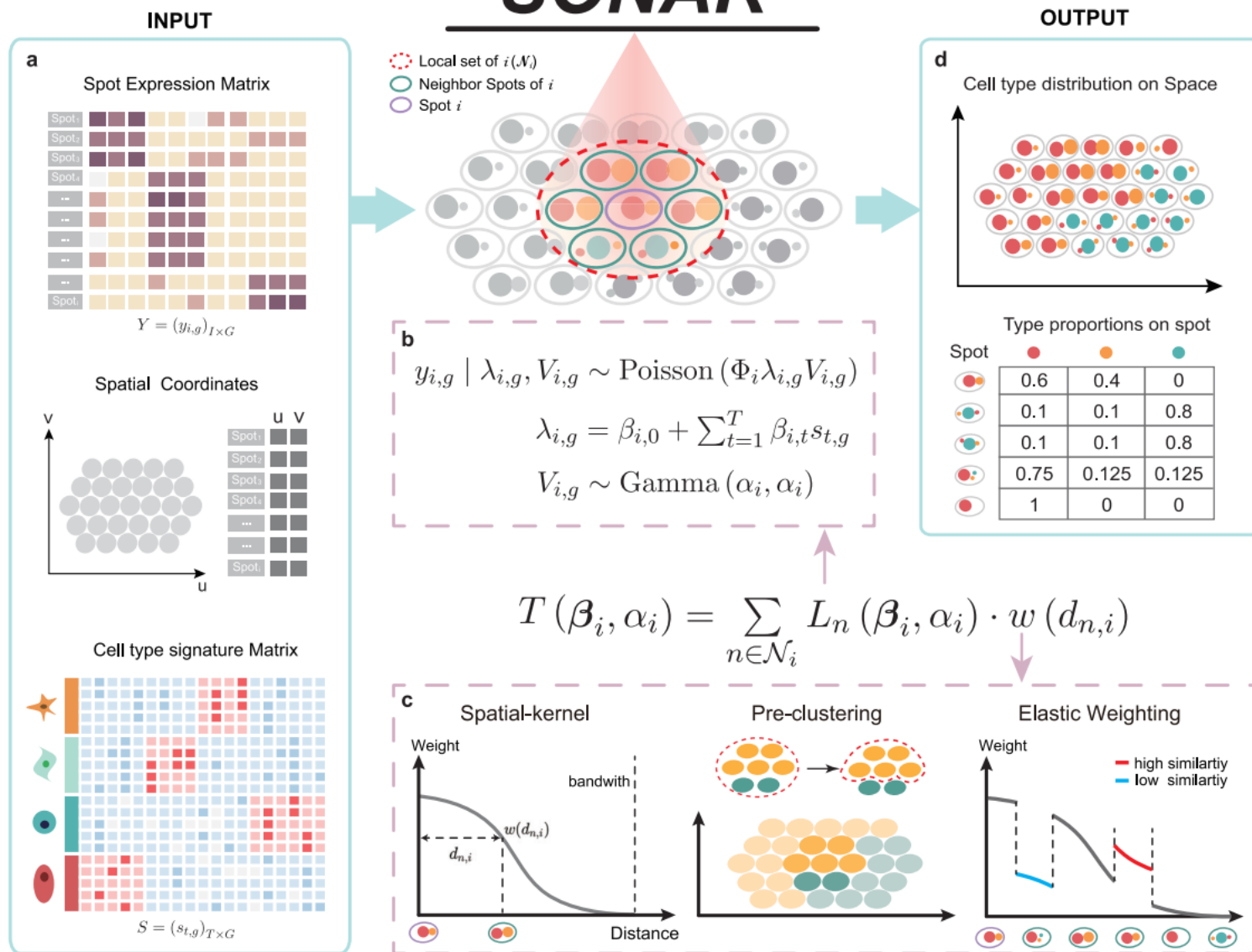
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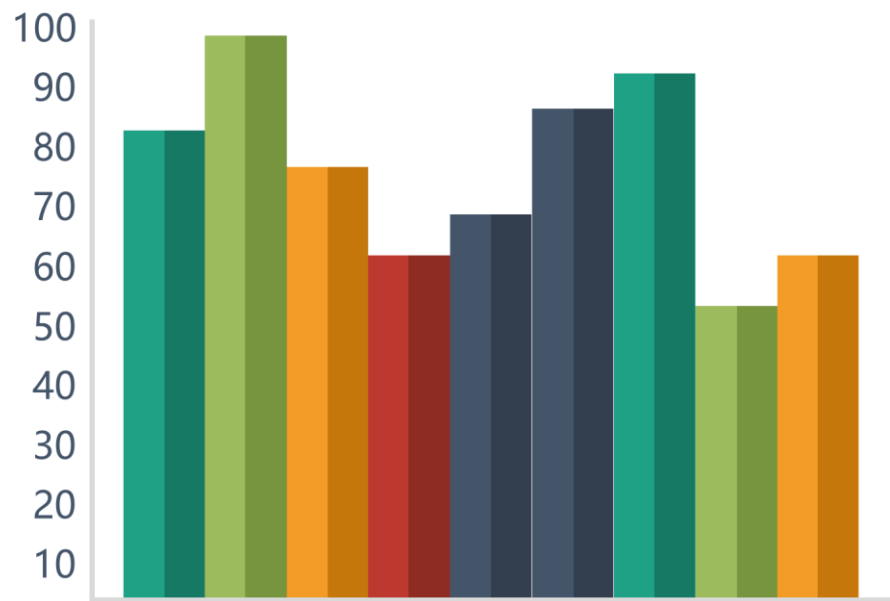


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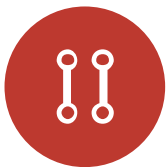
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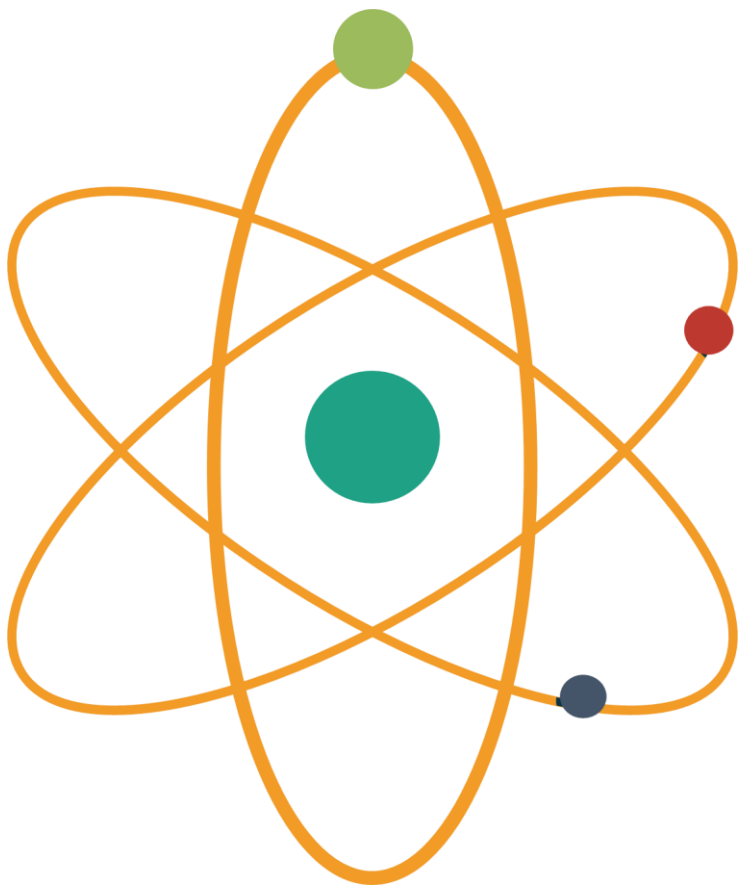
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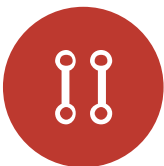
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Polystyrene-supported GaCl₃ as a highly efficient and recyclable heterogeneous Lewis acid catalyst for one-pot synthesis of N-substituted pyrroles

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ABSTRACT

A new and environmentally friendly method for the preparation of N-substituted pyrroles by one-pot condensation reaction of secondary amines and aldehydes in the presence of polystyrene-supported gallium trichloride (PS-GaCl₃) as a highly active and reusable heterogeneous Lewis acid catalyst is presented. The new process has the advantages of easy availability, stability, reusability and eco-friendliness of the catalyst, high to excellent yields, simple experimental and work-up procedure.

1. Introduction

Functionally substituted pyrroles are an important class of nitrogen-containing cyclic compounds. They constitute the core unit of many natural products, synthetic materials, and serve as building blocks for porphyrin synthesis [1,2]. Members of this family have wide applications in medicinal chemistry, being used as anti-leukal, anti-inflammatory agents, antibacterial, and antiviral [3–5]. These compounds can be prepared from the classical Hantzsch procedure [6], 1,3-dipolar cycloaddition reactions [7], aza-Wittig reactions [8], annulations reactions [9], and other multistep operations [10]. Despite these new developments, the Paal-Knorr reaction remains one of the most significant and simple methods for the synthesis of pyrroles. This reaction consists of the cyclocondensation of primary amines with α-carbonyl compounds to produce N-substituted pyrroles. Several catalysts have been used to promote this reaction including HCl [11], p-TSA [12], H₂SO₄ [13], Sc(OTf)₃ [14], Bi(NO₃)₃·5H₂O [15], SnCl₄·2H₂O [16], Ti(OPr)₄ [17], RuCl₄ [18], InCl₃·nH₂O, In(OTf)₃ [19], zeolite [20], Al₂O₃ [21], montmorillonite K10 [22], silica sulfonic acid [23], layered titanium phosphate and phosphonate [24], montmorillonite [25], mesoporous organosilica HSF-cly and L [26]. Recently, the above cyclocondensation process could proceed in ionic liquid [27] or ultrasonic and microwave irradiation [28]. However, despite the potential utility of these catalysts, many of these methodologies for the synthesis of pyrroles associated with several shortcomings such as low yields, prolonged reaction time, harsh reaction conditions, the requirement of excess of catalyst, the use of toxic and detrimental metal precursors as catalysts, and relatively expensive reagents and high temperature, and tedious work-up leading to the generation of large amounts of toxic metal-containing waste. The main disadvantage of almost all existing methods is that the catalysts are destroyed in the work-up procedure and their recovery and reuse is often impossible, which limit their use under the aspect of environmentally benign processes.

Heterogeneous supported catalysts have been gained much attention in recent years, as they possess a number of advantages in preparative procedures [29,30]. The immobilization of catalysts on solid support improves the available active site, stability, hygroscopic properties, handling, and reusability of catalysts which all factors are important in industry [31]. Therefore, use of supported and reusable catalysts in organic transformations has economical and environmental benefits. A large number of polymer supported Lewis acid catalysts have been prepared by immobilization of the catalysts on polymer via coordination or covalent bonds [32]. Such polymeric catalysts are usually as active and selective as their homogeneous counterparts while having the distinguishing characteristics of being easily separable from the reaction mixture, recyclability, easier handling, non-toxicity, enhanced stability, and improved selectivity in various organic reactions. Polystyrene is one of the most widely studied heterogeneous and polymeric supports due to its environmental stability and hydrophobic nature

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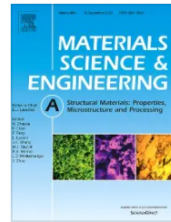


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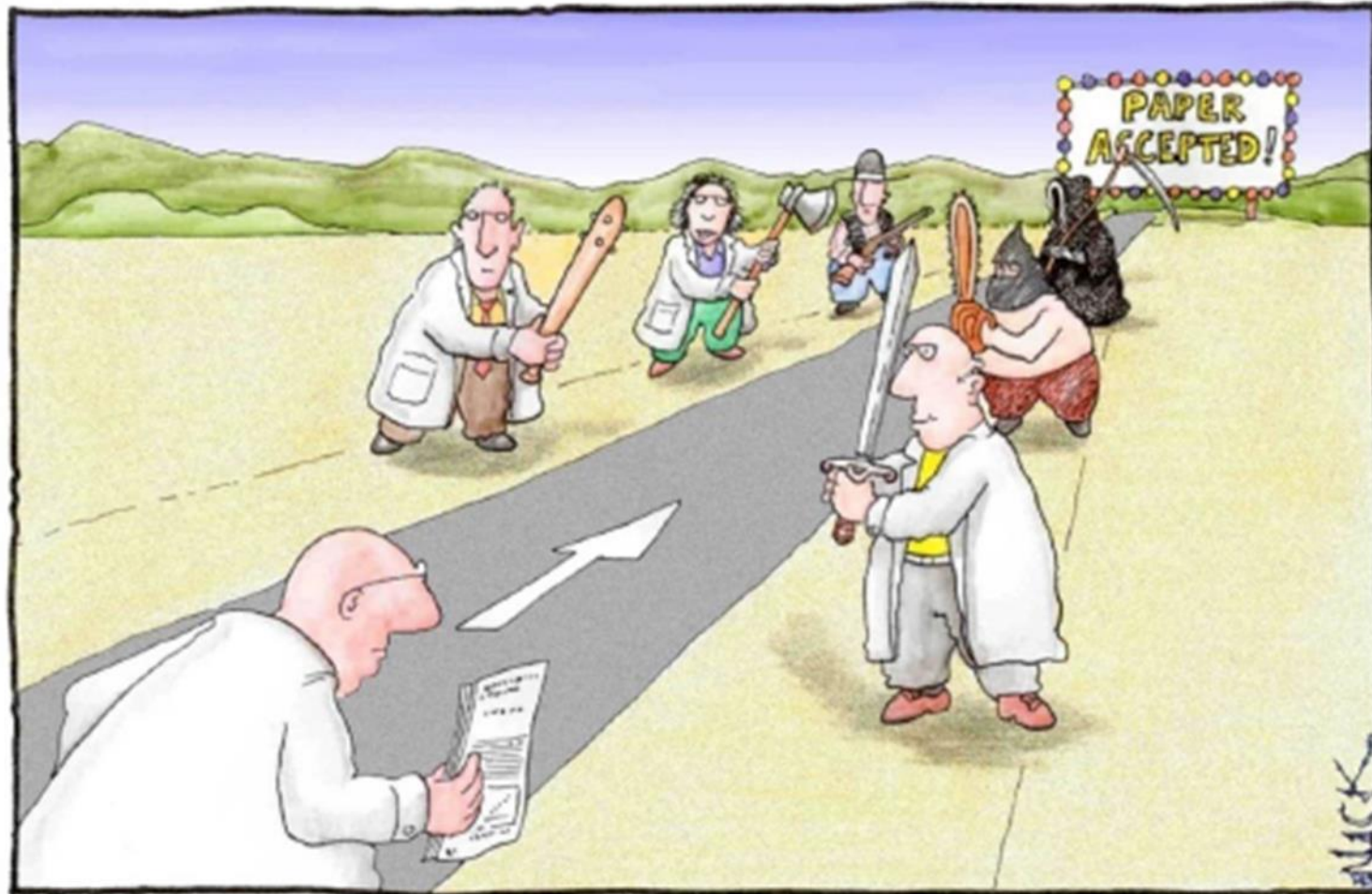
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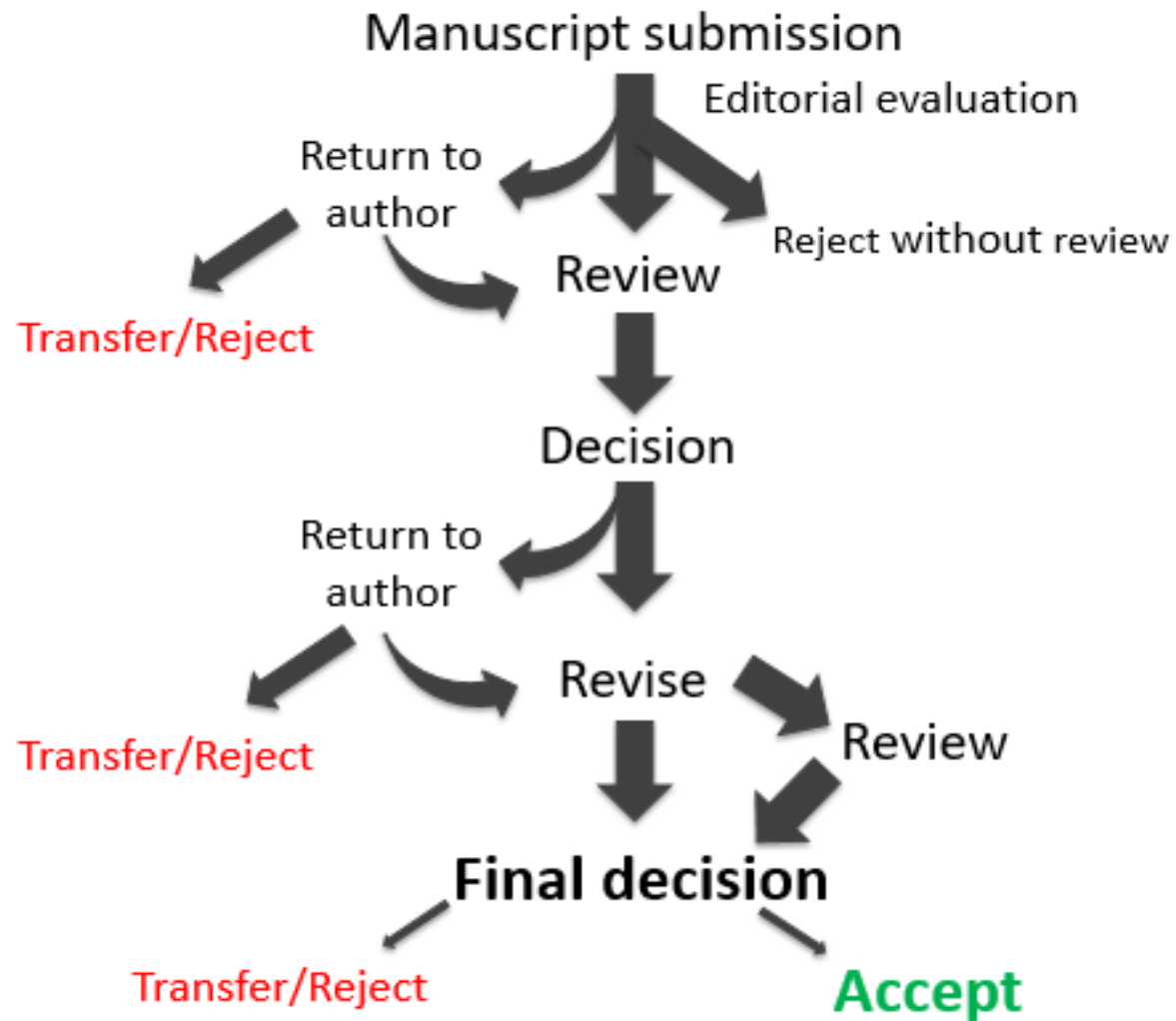
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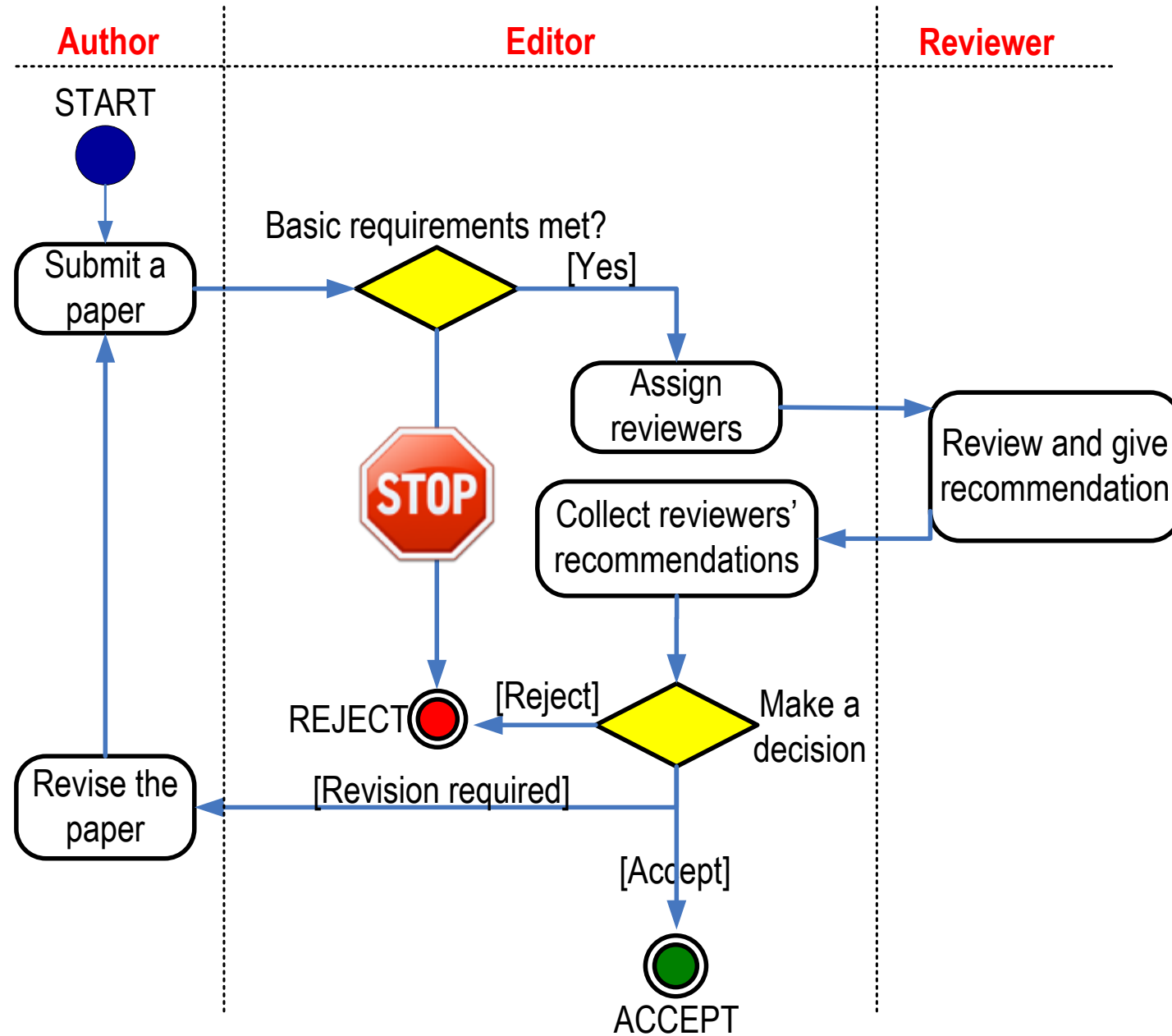


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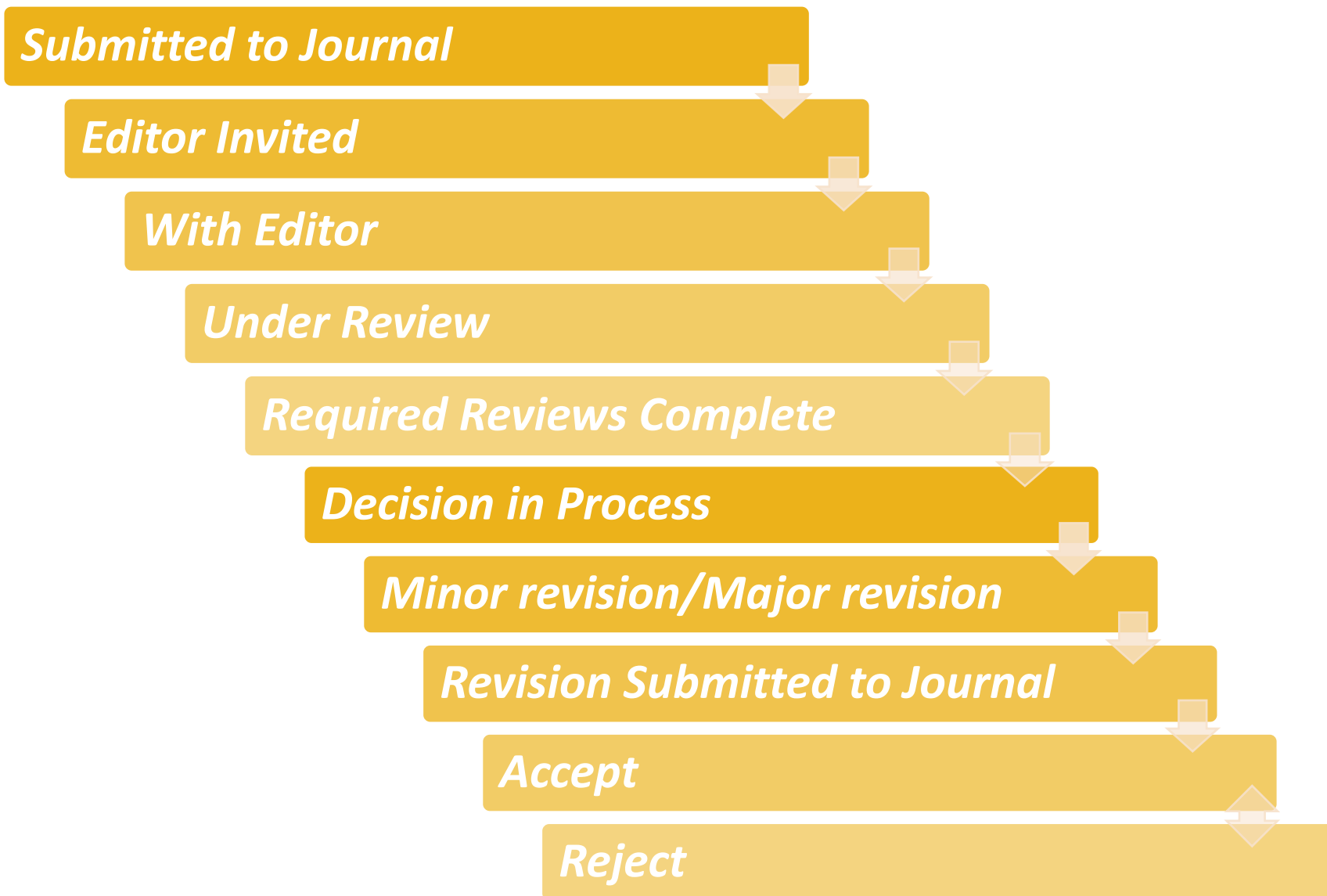
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