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Presented by Jinlong Tian (田金龙)

2023.10.08

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投稿过程中审稿人视角与分析

如何让审稿人认可论文内容

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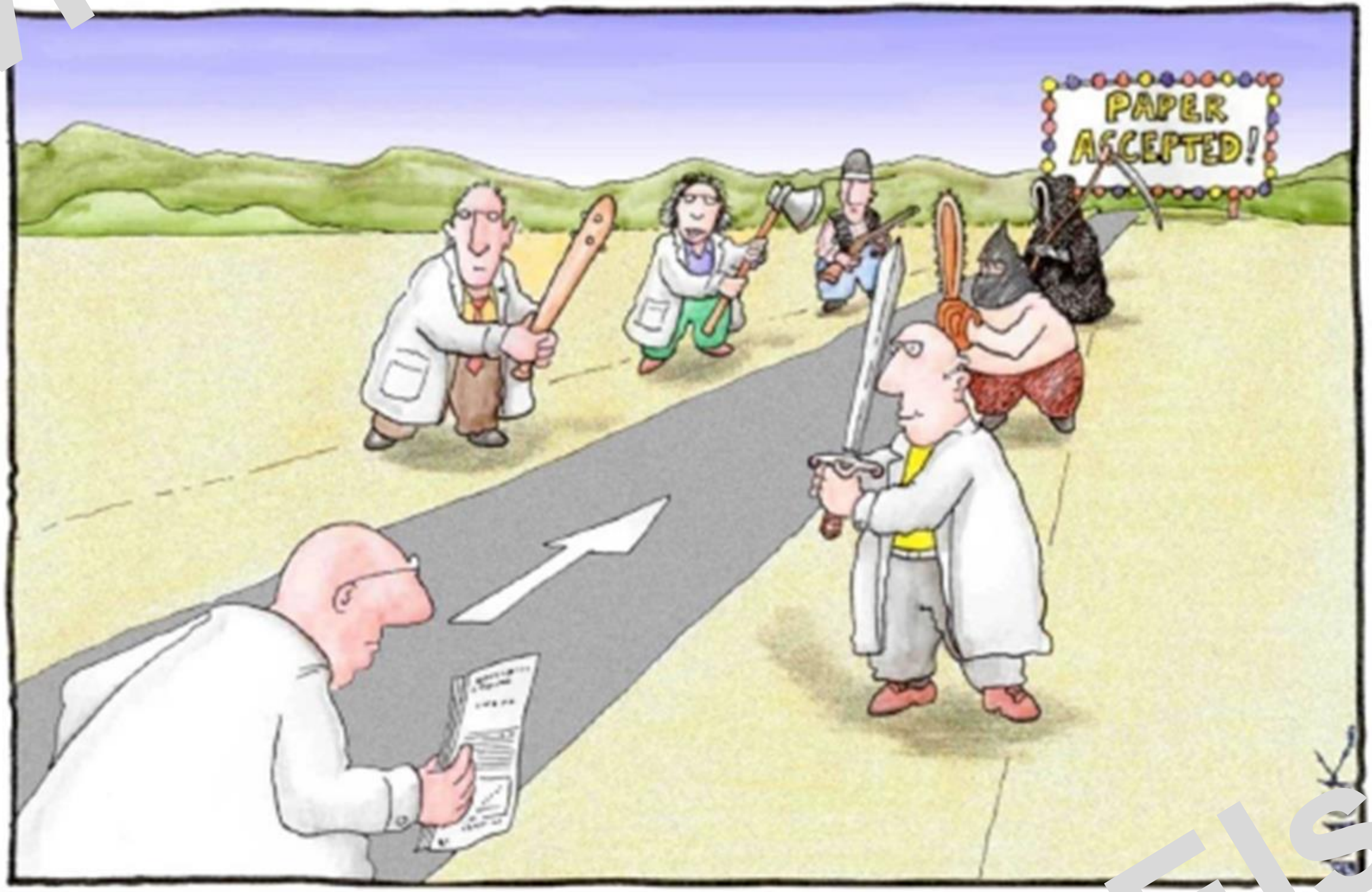

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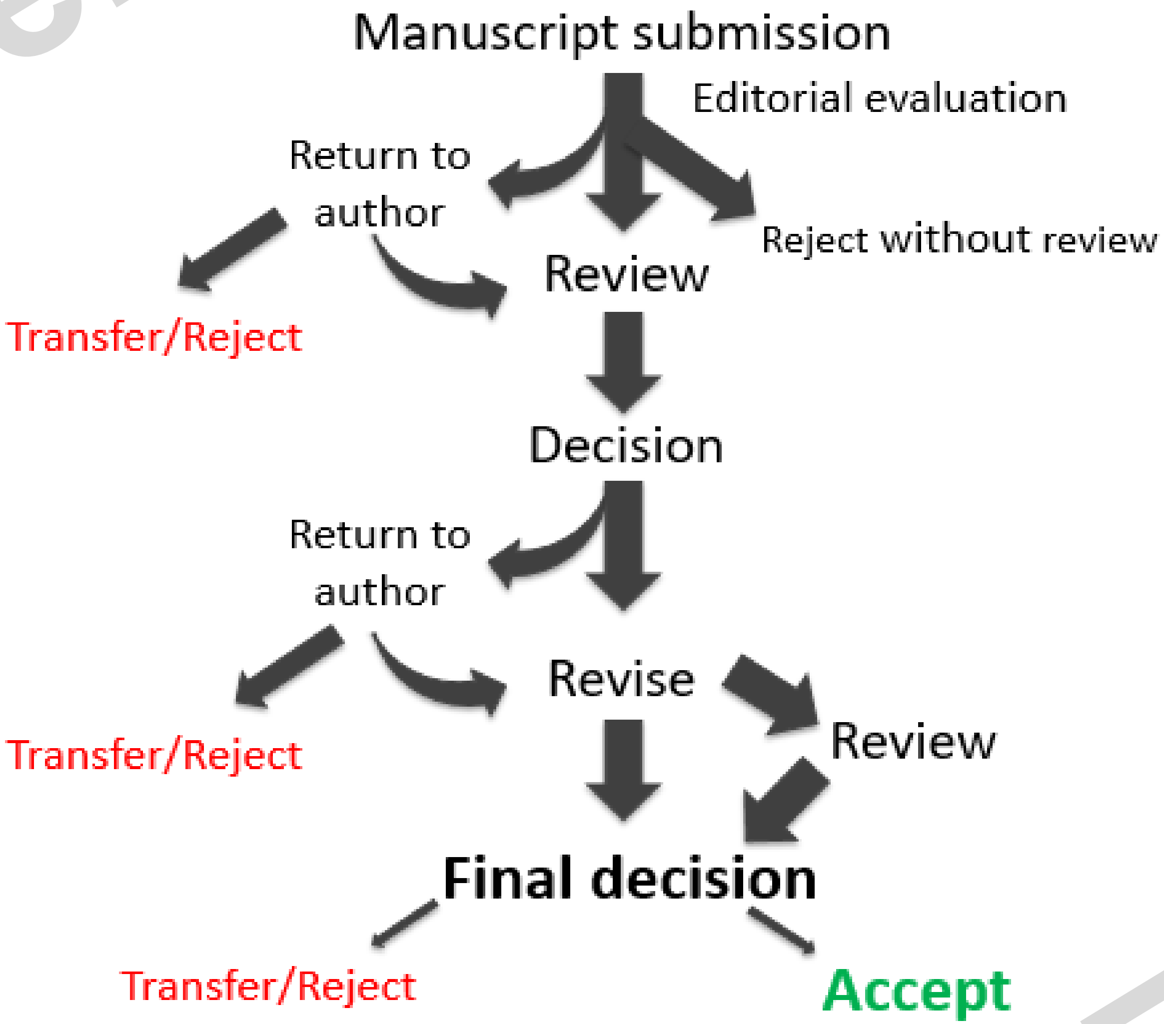

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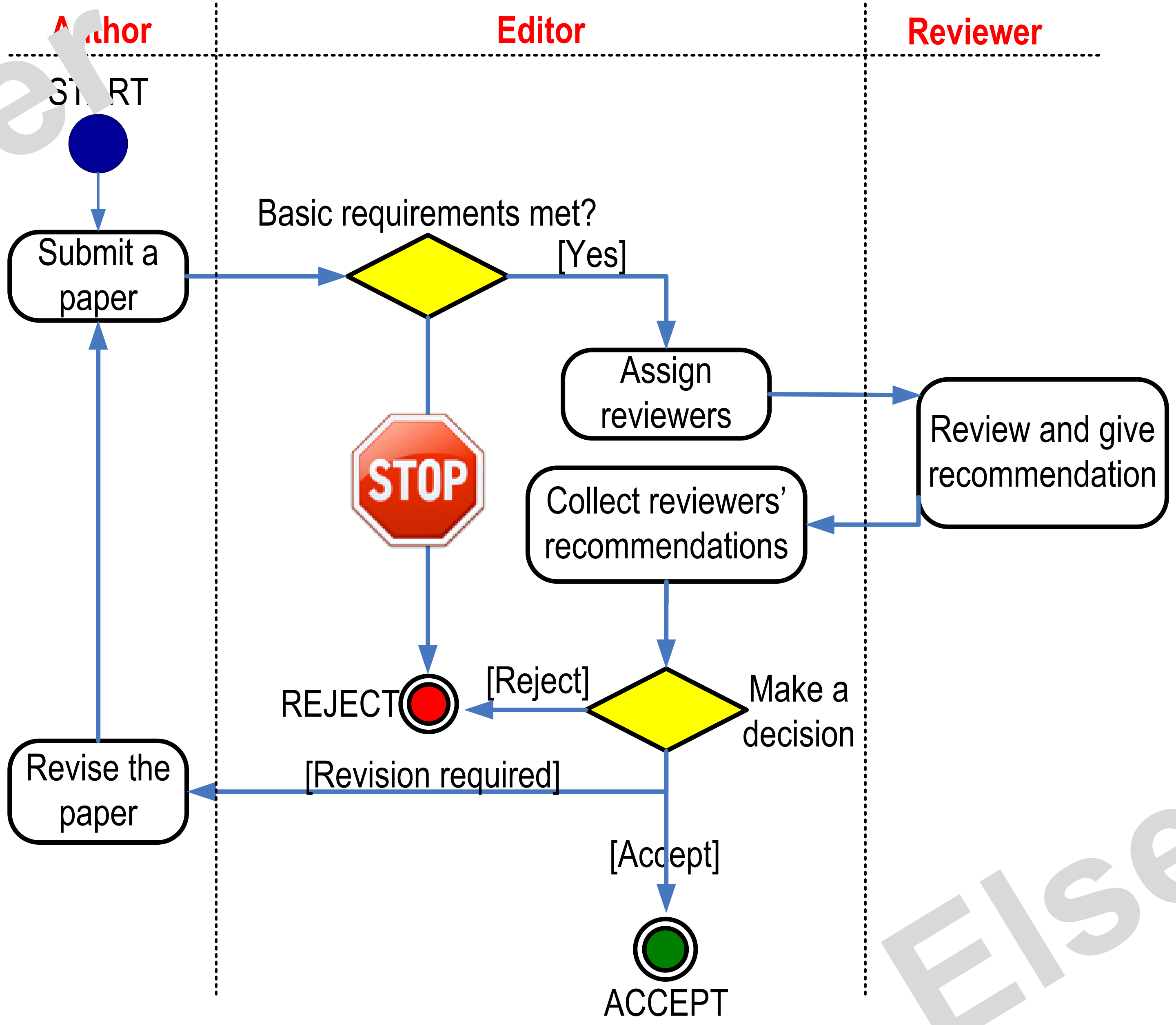
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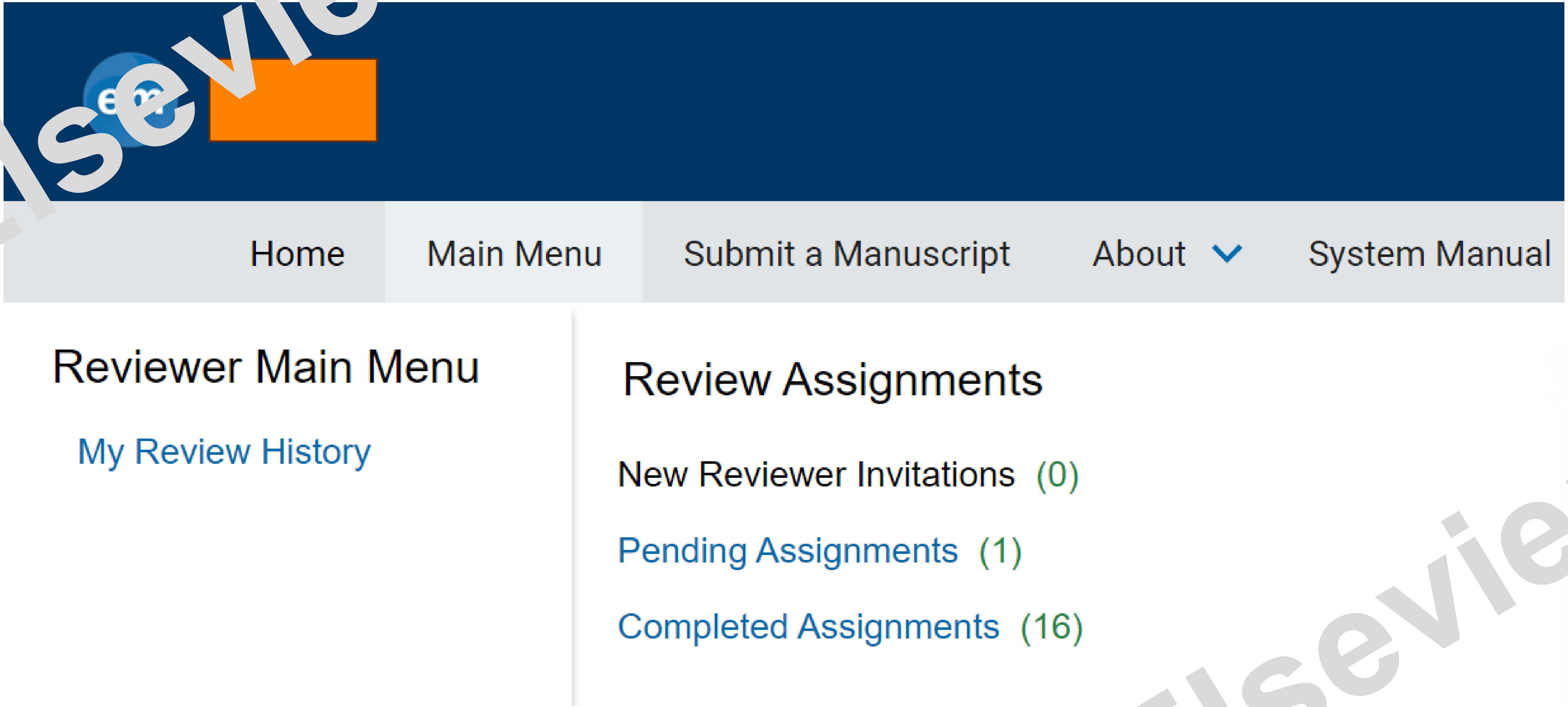
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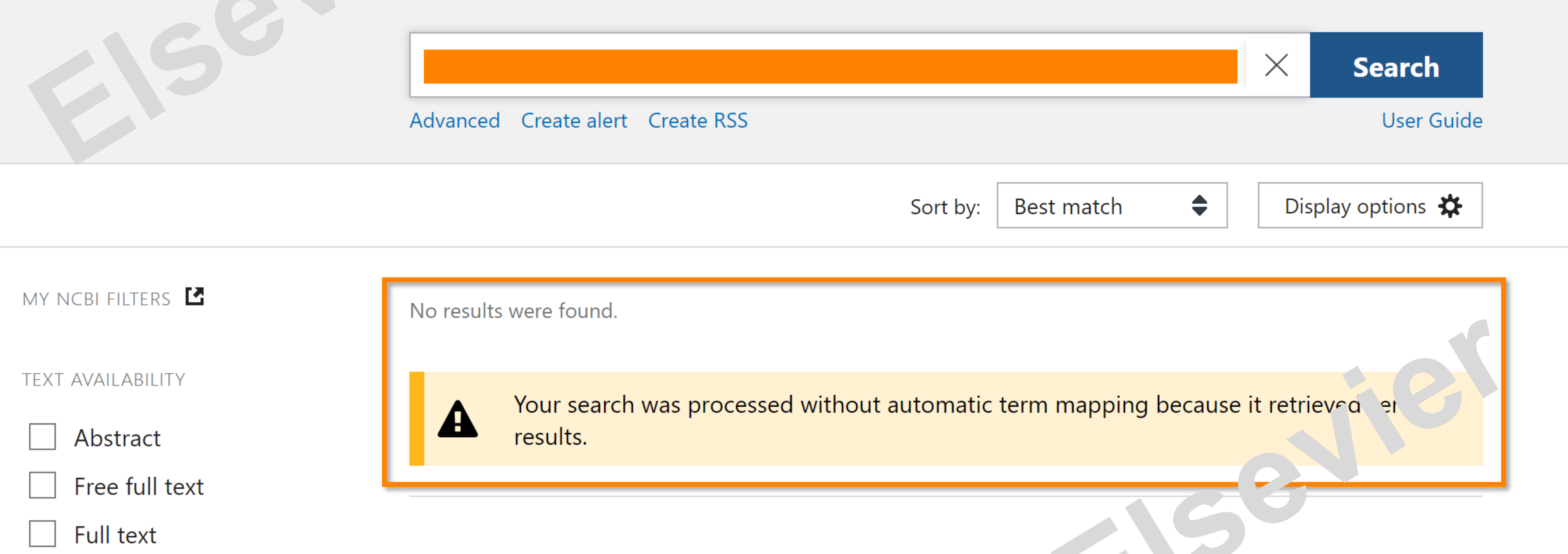
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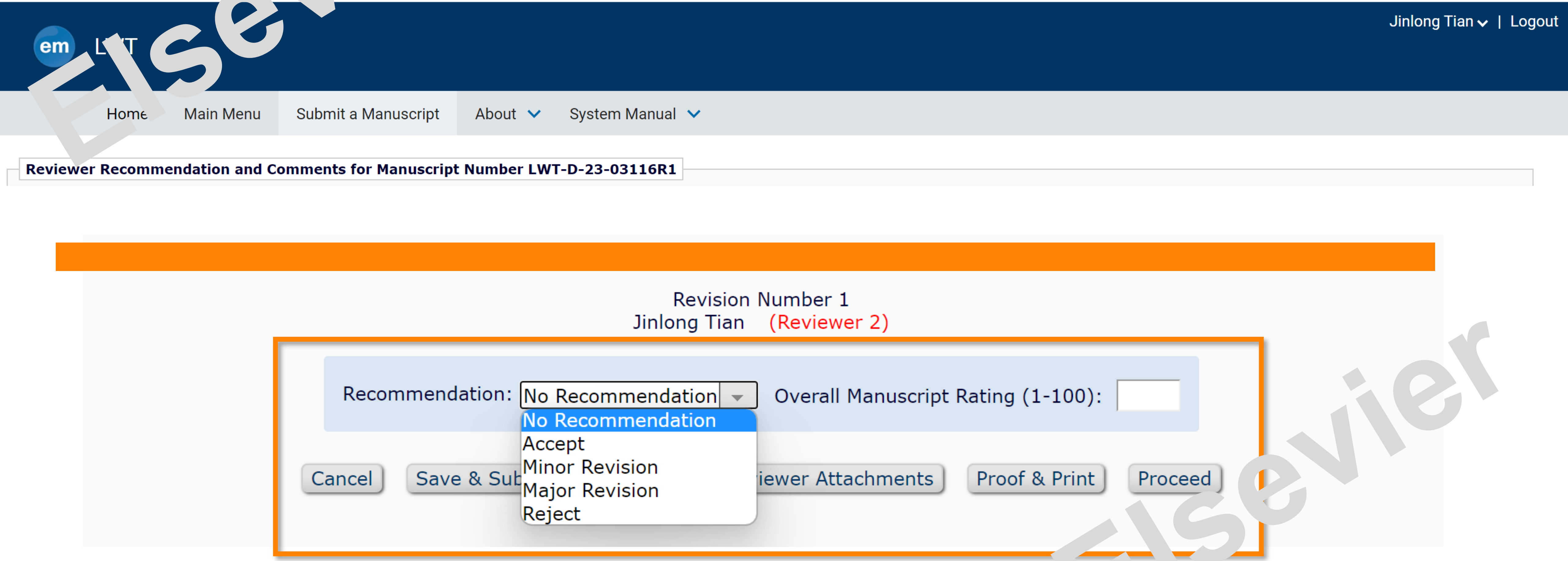
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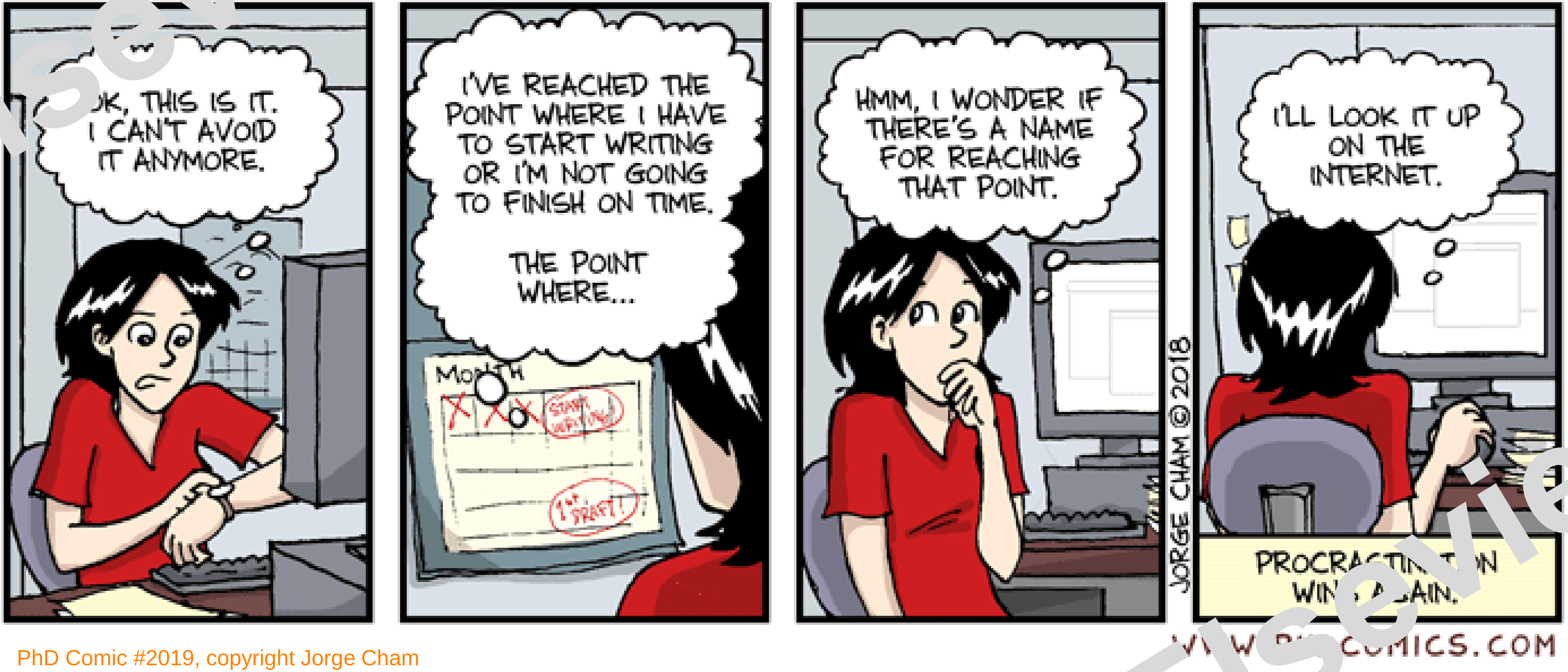

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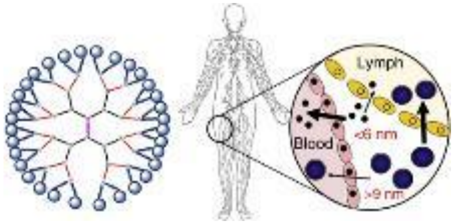

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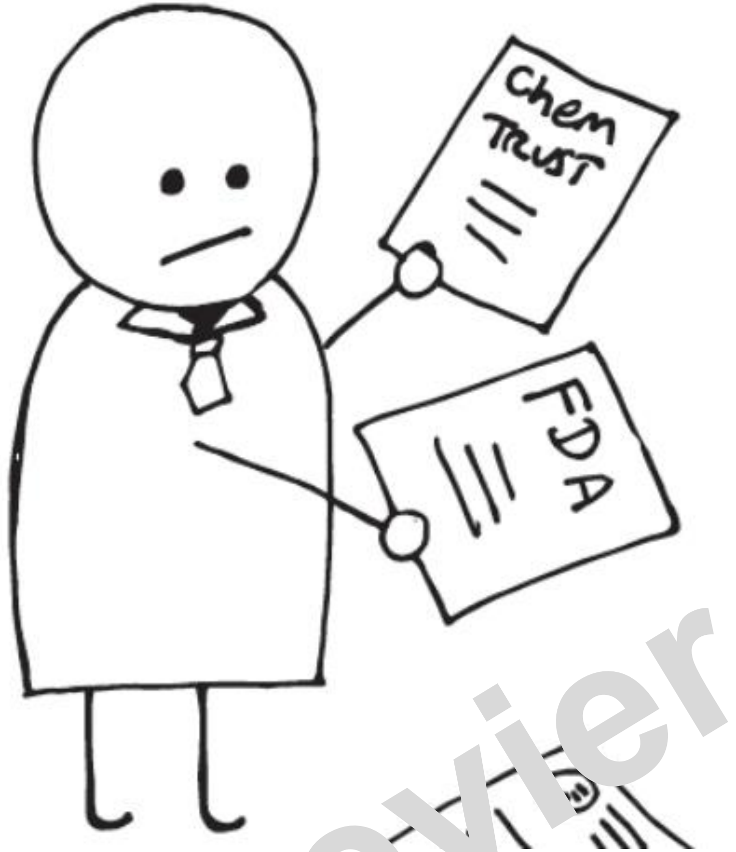

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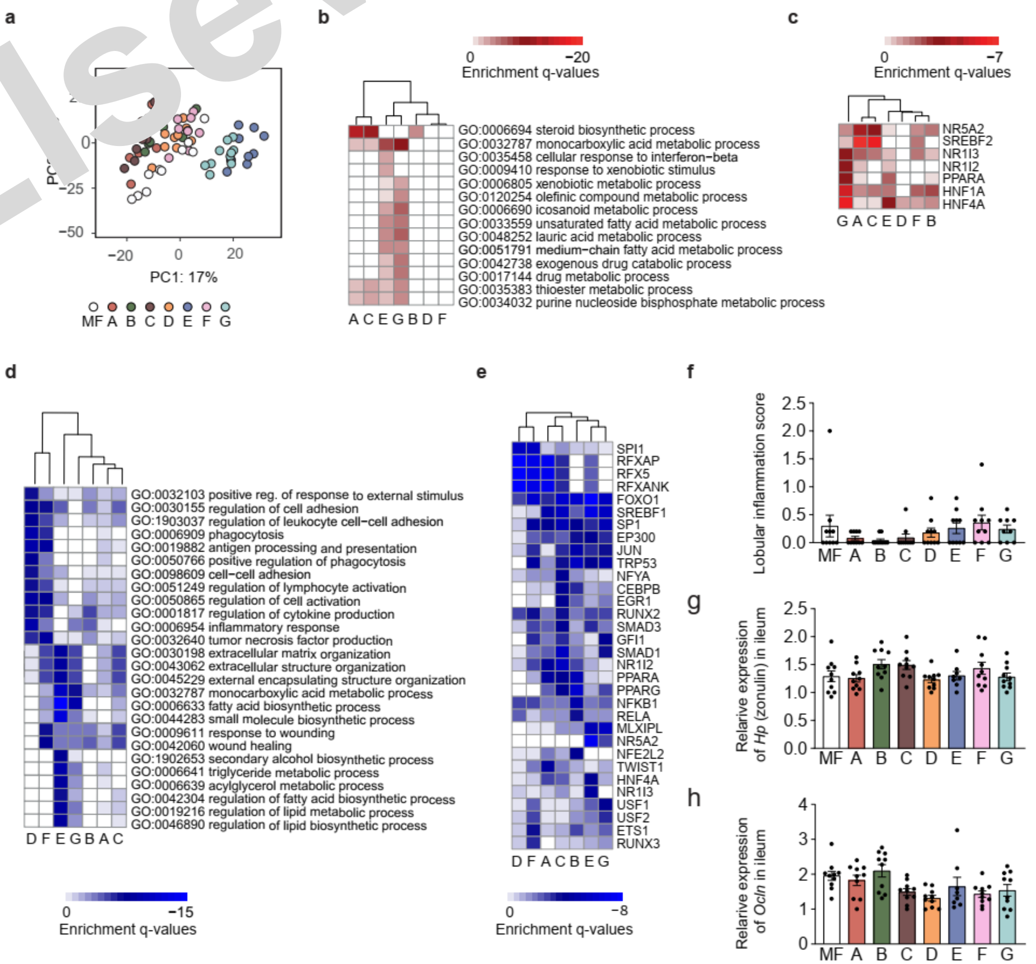

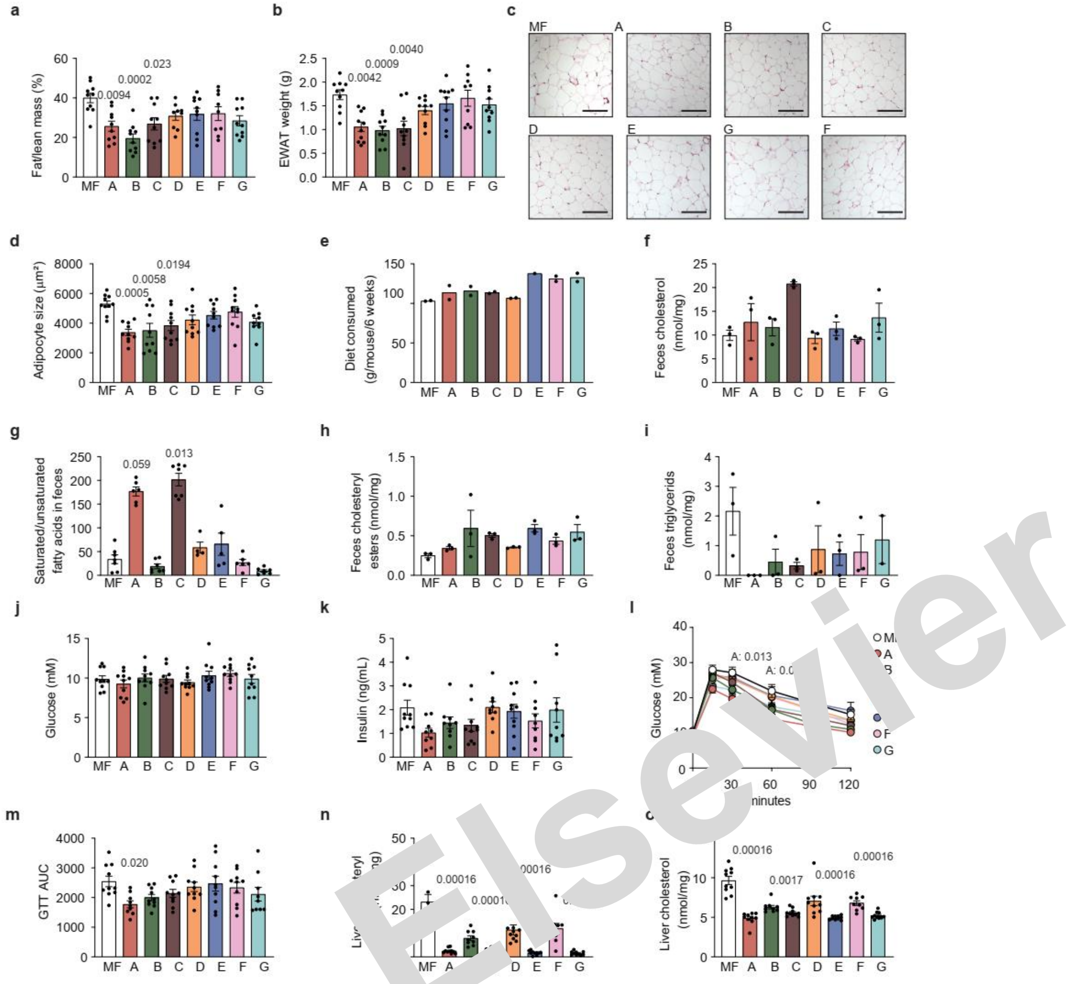

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Nano Today 47 (2022) 101627

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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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A R T I C L E   I N F O

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Keywords:
Metal-organic framework
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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 fabric... and low enzyme stability. Therefore, it is necessary to develo... antioxidant strategies for effectively scavenging RONS.

Recently, nanomaterials with inherent catalytic activ... cluding nano-carbons [16–18], precious metal ...ticles ...], metal oxides [22–24], and ...phenol ...particles [25,2... thought to be an alternative ...ach t... ...ards a... dressing oxidative ...related ...ies. T... ...fined as

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[1] These authors contributed equally to this work.

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1748-0132/

Writing a Scientific Paper: From Clutter to Clarity

Gregory S. Patience, Daria C. Boffito, Paul A. Patience

Department of Chemical Engineering, Polytechnique Montréal, C.P. 6079, Succ. CV Montréal, H3C 3A7 Québec, Canada

Abstract

Preparing a manuscript is a time-intensive activity: organizing the technical content, preparing graphs and tables, writing, proofreading, and correcting syntax. Wordiness is a major impediment to communication: this document advocates writing concisely. We identify best practices for preparing graphs and tables. Together with conventions for significant figures, we tabulate typical grammatical errors and extraneous expressions. Write your paper well so that reviewers concentrate on the content.

Keywords: Syntax, Graphs, Tables, Grammar

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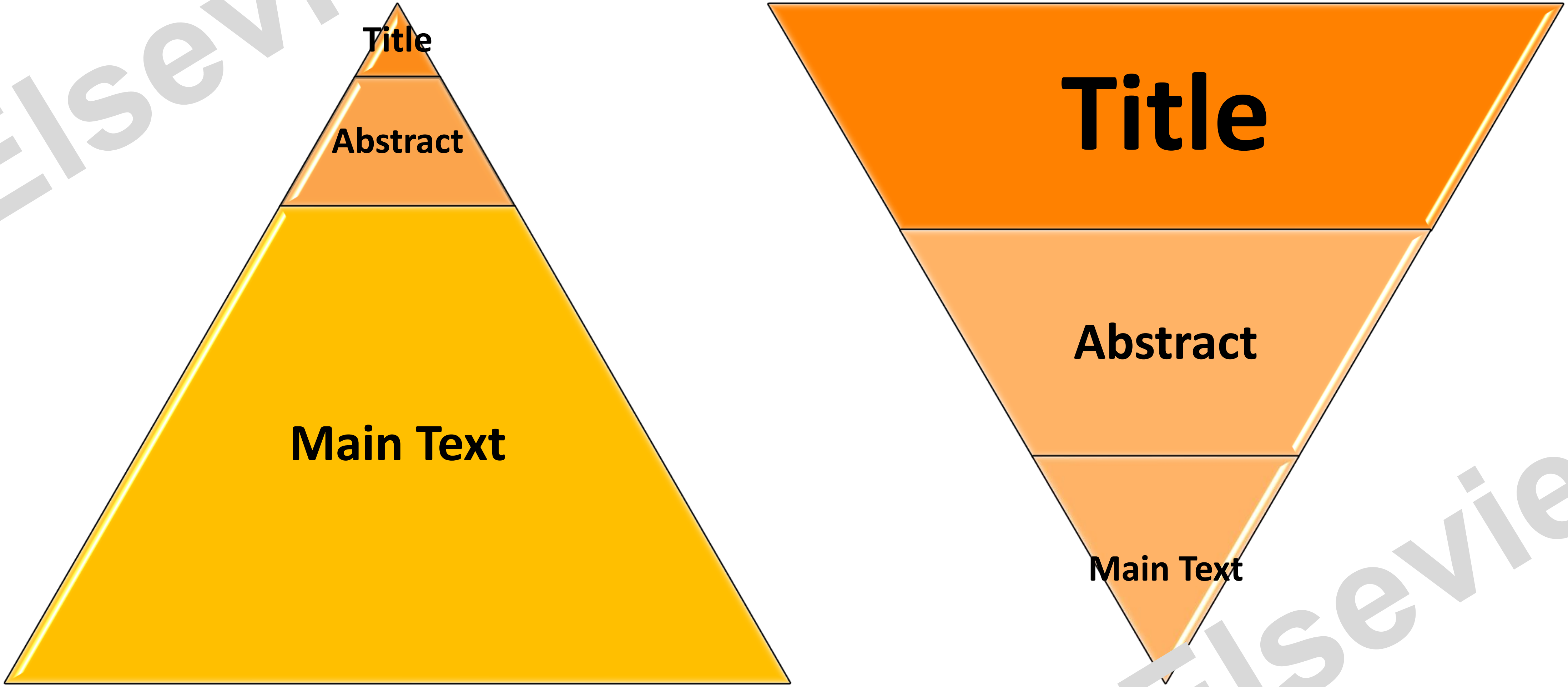

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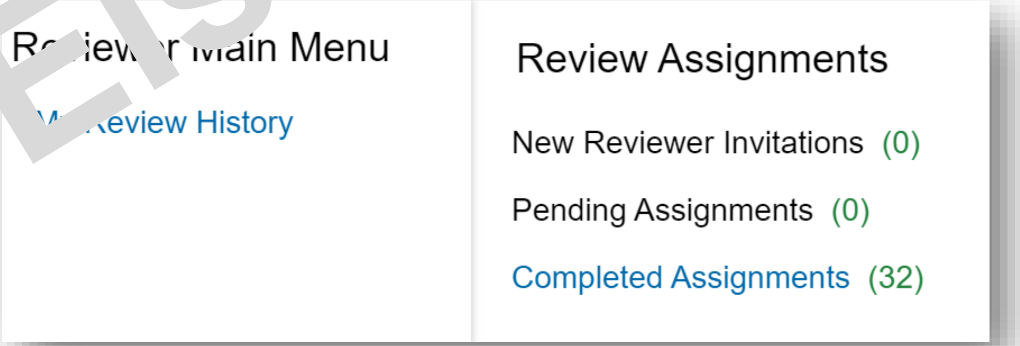
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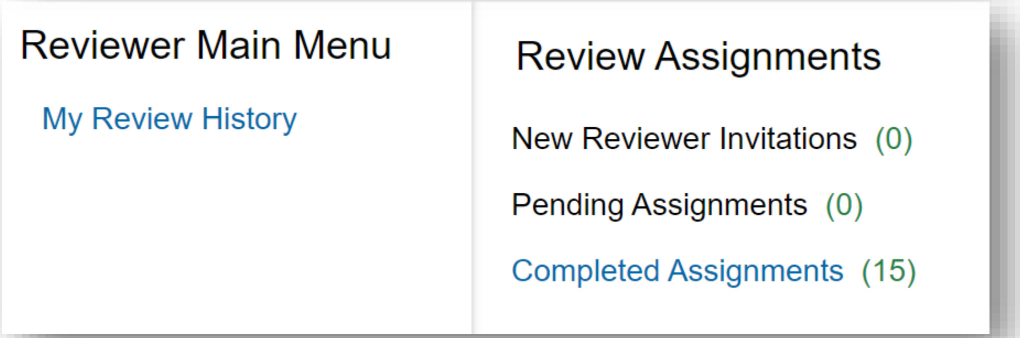
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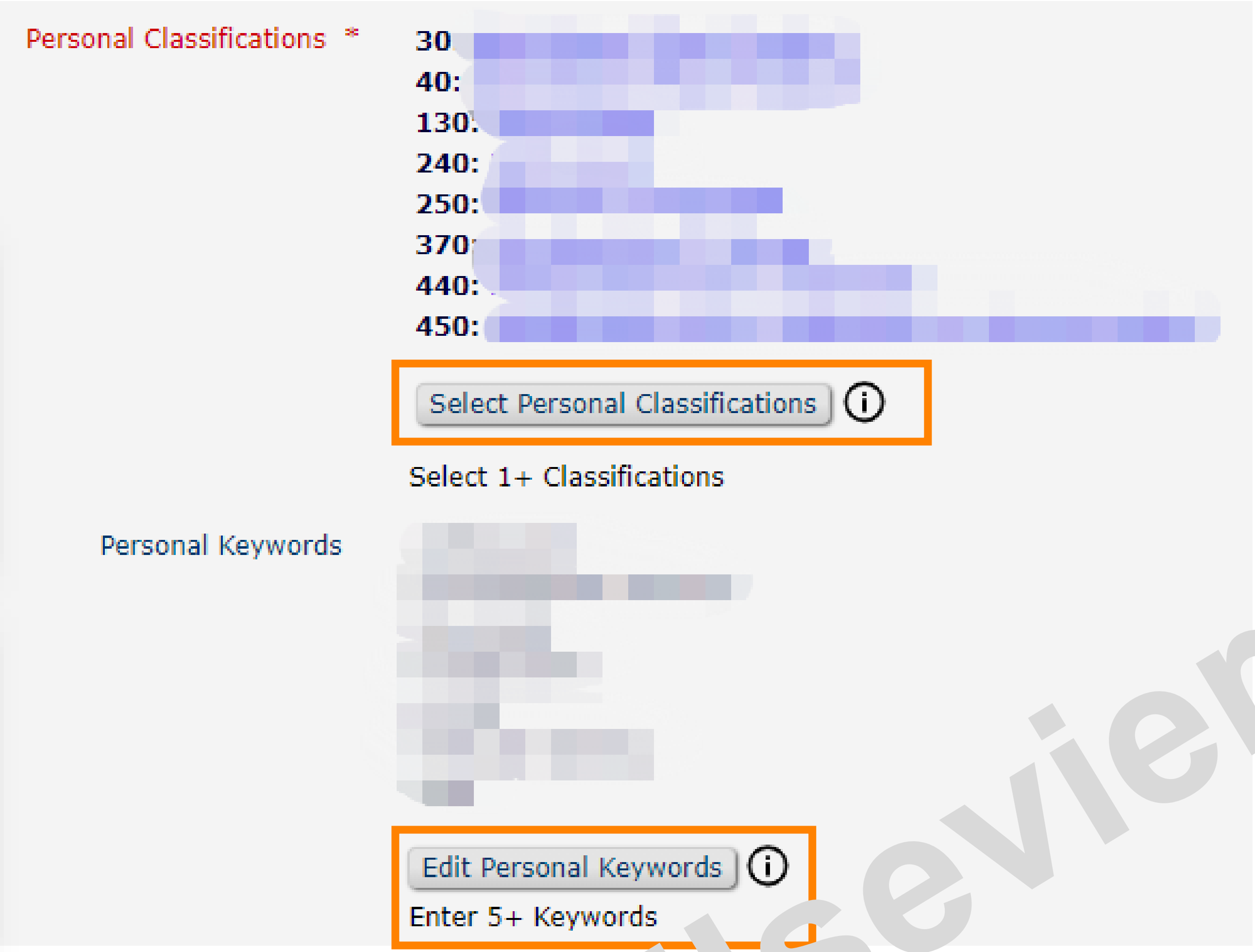
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An instant beverage rich in nutrition and bio-activity components manufactured from stems and leaves of Panax notoginseng

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

全面扼要

摘要部分应该使用简明扼要且有说服力的语言提出研究动机、阐明研究贡献及展示研究成果

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Highlights

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- Multiphase level set metho microstructure.
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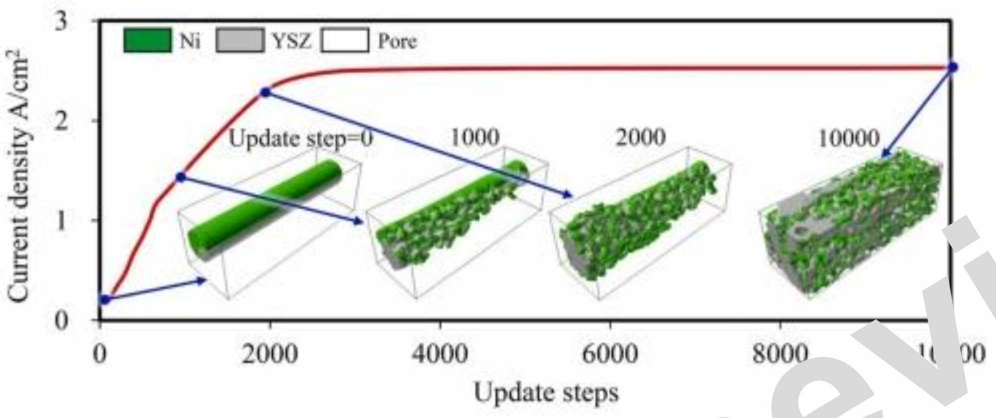
- Effects of target radius and

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 e... eaded into a YSZ scaffold which has a pillar-like shape along the anode th...ness direction.

Graphical Abstract



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简介

背景概述
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

价值体现
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

要保证你的每一篇文章的简介都是独一无二的，千万不能重复使用他人的简介

研究方法

How
明确描述你是如何研究你的问题的

what
应包含比较**具体、细节**的信息

By what
明确阐述你研究中所使用到的设备、仪器、材料等

Do Not
不要去描述已被发表的方法步骤，直接引用或使用它们

新的研究方法往往会比新的研究对象更受人关注也更有影响力

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

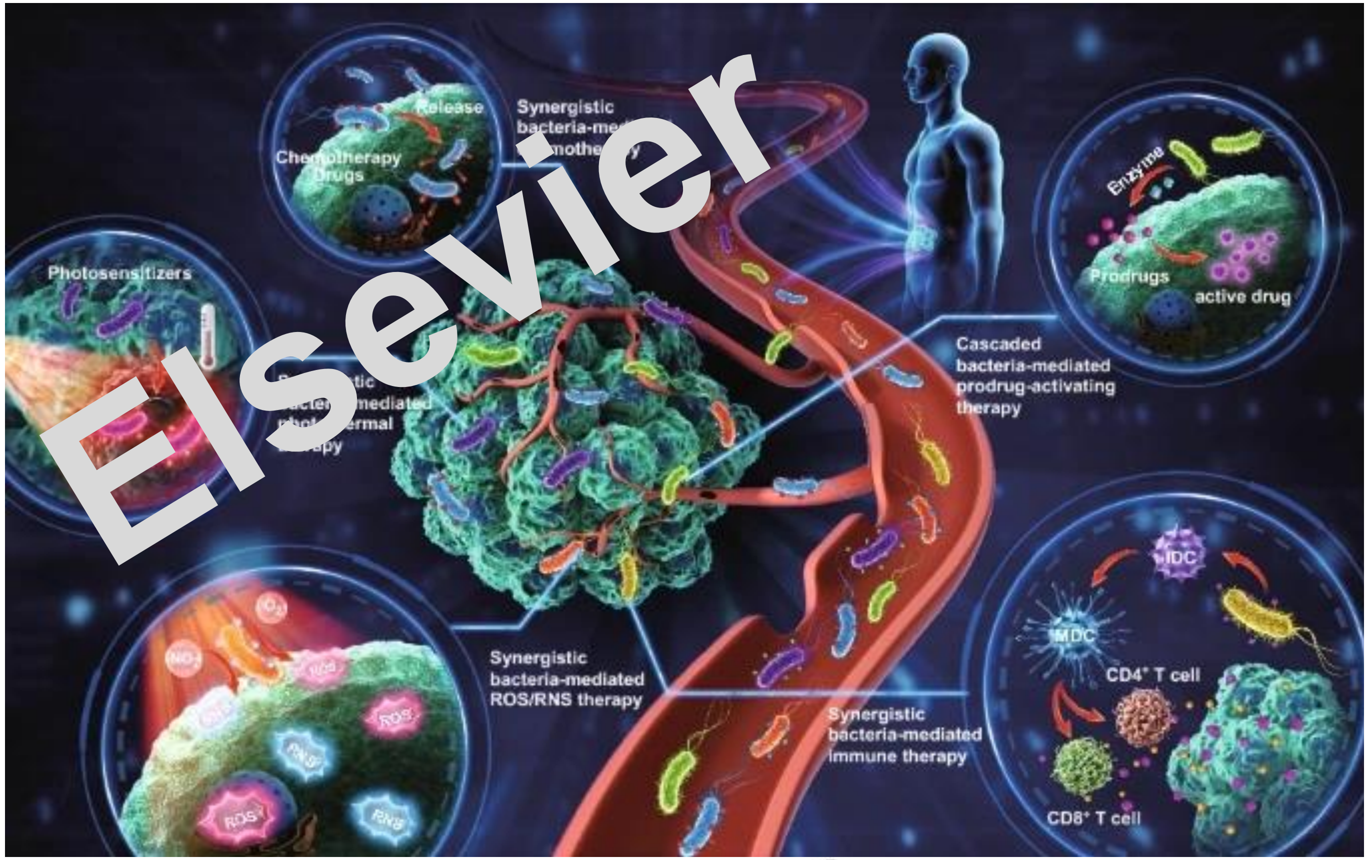
主要发现突出强调，意外发现单独阐述

清晰易读

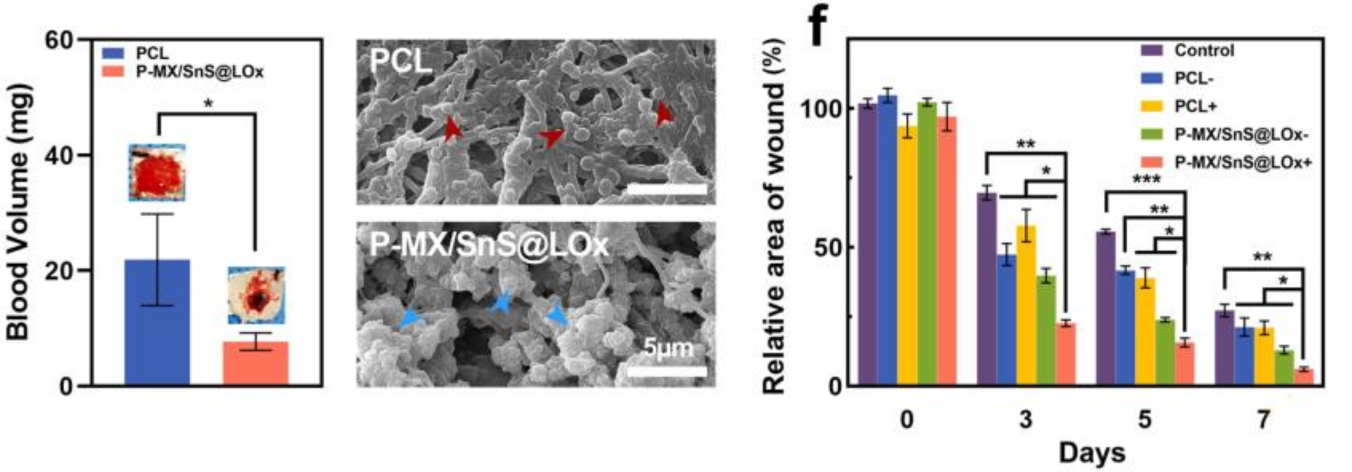
研究结果必须清晰且容易理解

研究结果只需给出你最重要的数据结果，过多的无关数据反而会导致重点不突出

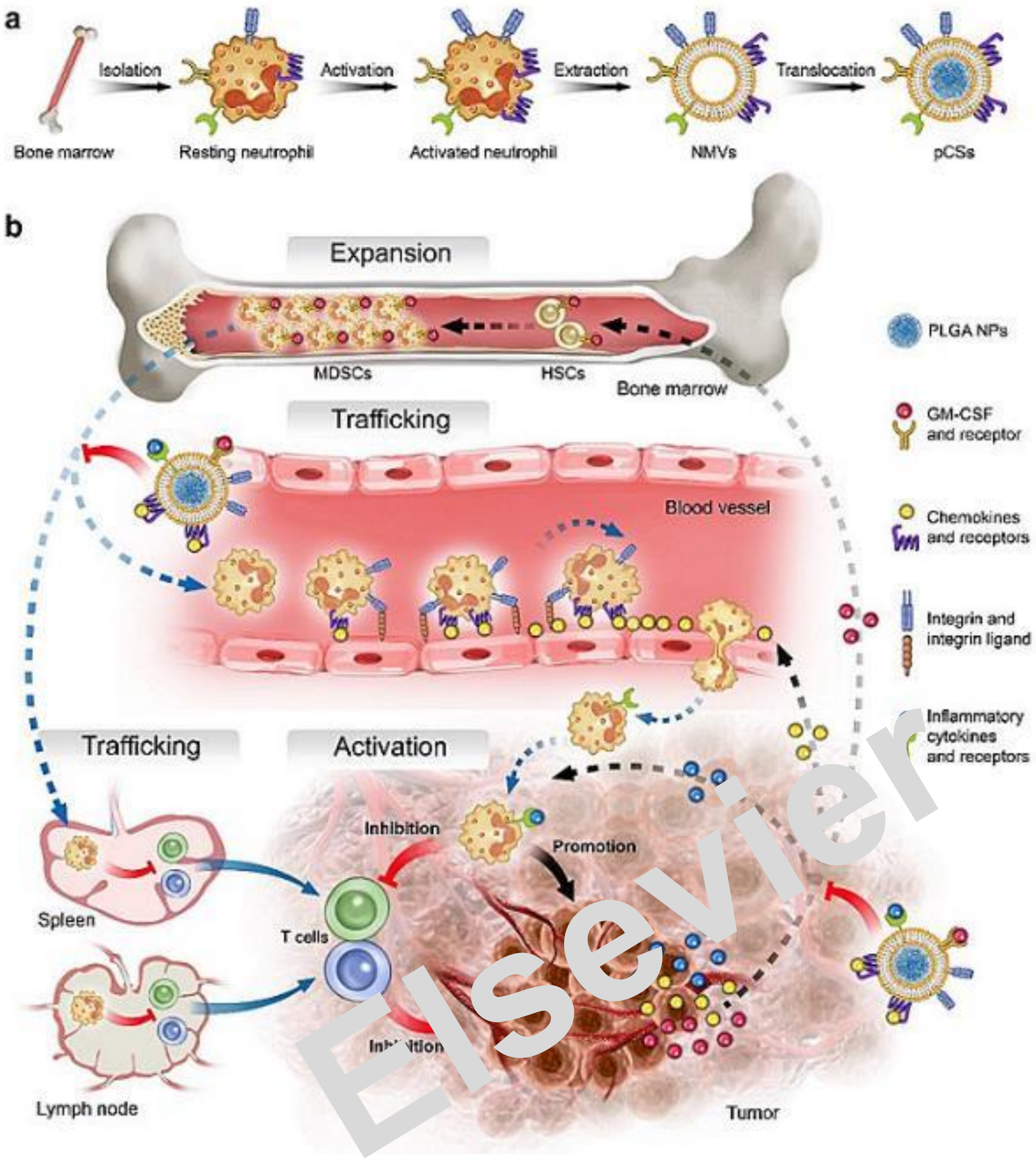
支持文献



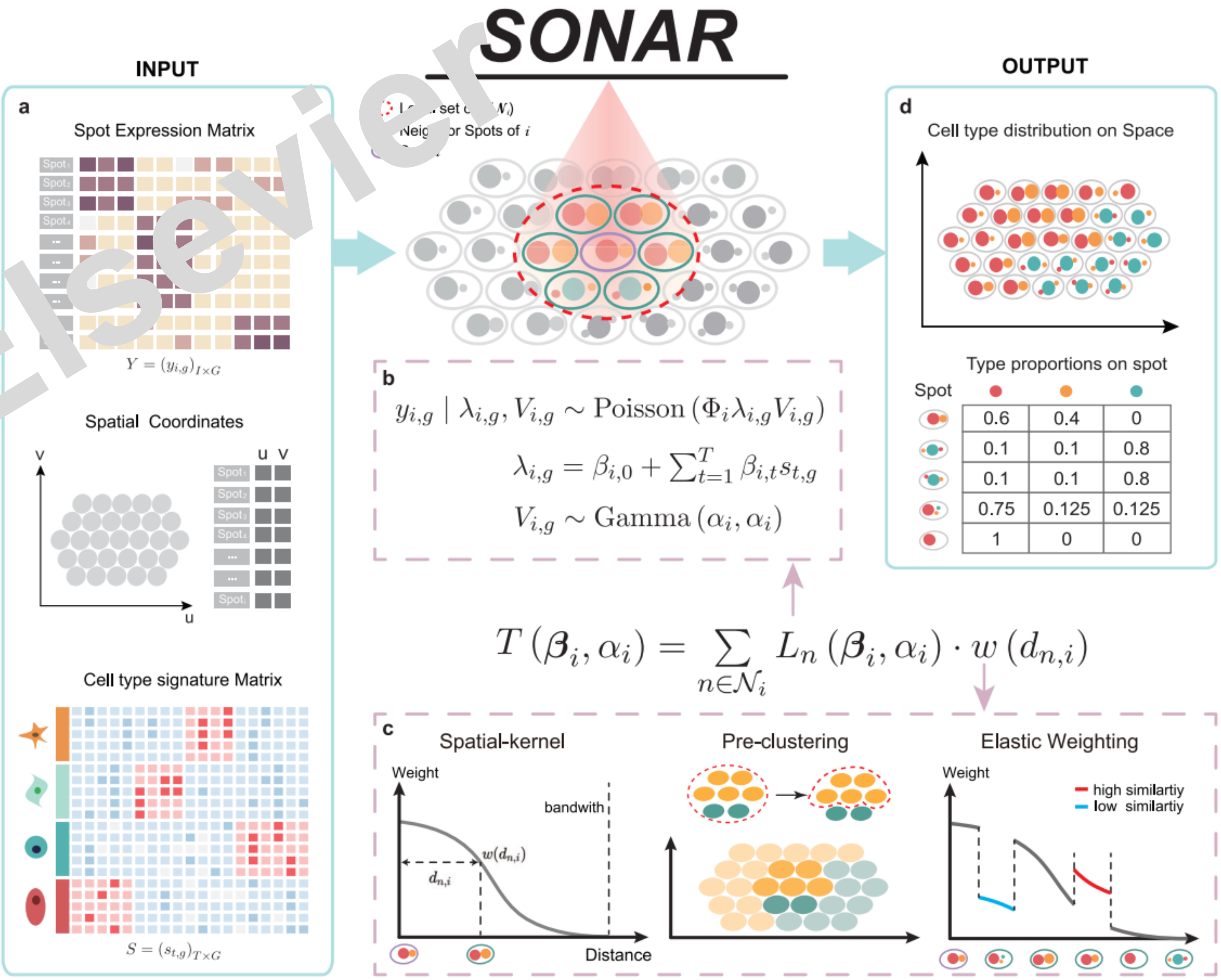
Release
Synergistic bacteria-mediated chemotherapy
Chemotherapy Drugs
Photosensitizers
Synergistic bacteria-mediated photothermal therapy
Enzyme
Prodrugs
active drug
Cascaded bacteria-mediated prodrug-activating therapy
Synergistic bacteria-mediated ROS/RNS therapy
ROS
RNS
Synergistic bacteria-mediated immune therapy
iDC
MDC
CD4⁺ T cell
CD8⁺ T cell

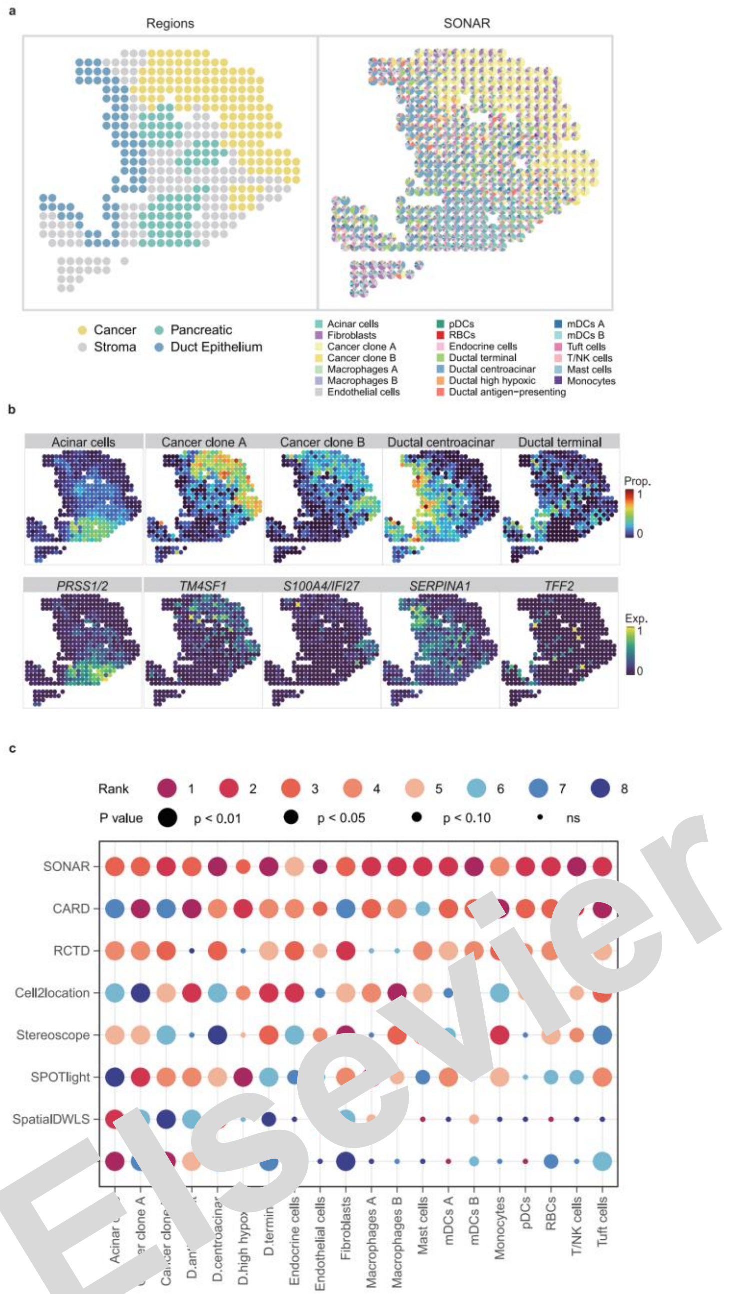


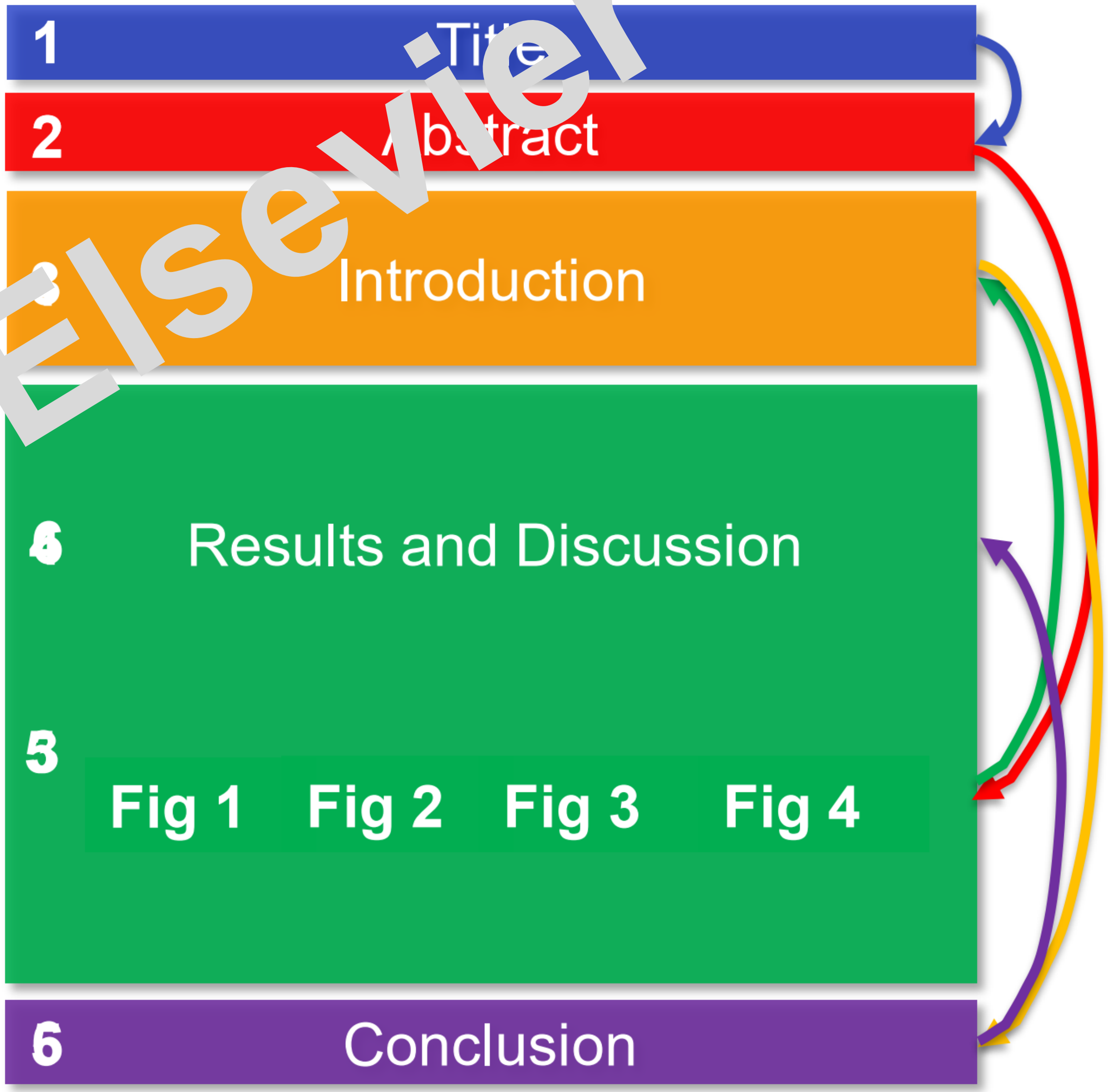
Blood Volume (mg)
PCL
P-MX/SnS@LOx
PCL
P-MX/SnS@LOx
5μm
f
Relative area of wound (%)
Control
PCL-
PCL+
P-MX/SnS@LOx-
P-MX/SnS@LOx+
Days



a
Isolation
Activation
Extraction
Translocation
Bone marrow
Resting neutrophil
Activated neutrophil
NMVs
pCSs
b
Expansion
MDSCs
HSCs
Bone marrow
Trafficking
Blood vessel
Trafficking
Activation
Inhibition
Promotion
Spleen
T cells
Lymph node
Tumor
PLGA NPs
GM-CSF and receptor
Chemokines and receptors
Integrin and integrin ligand
Inflammatory cytokines and receptors


SONAR
INPUT
a
Spot Expression Matrix
$Y = (y_{i,g})_{I \times G}$
Spatial Coordinates
u v
Cell type signature Matrix
$S = (s_{t,g})_{T \times G}$
Neighbor Spots of i
b
$y_{i,g} \mid \lambda_{i,g}, V_{i,g} \sim \text{Poisson}(\Phi_i \lambda_{i,g} V_{i,g})$
$\lambda_{i,g} = \beta_{i,0} + \sum_{t=1}^{T} \beta_{i,t} s_{t,g}$
$V_{i,g} \sim \text{Gamma}(\alpha_i, \alpha_i)$
$T(\boldsymbol{\beta}_i, \alpha_i) = \sum_{n \in \mathcal{N}_i} L_n(\boldsymbol{\beta}_i, \alpha_i) \cdot w(d_{n,i})$
OUTPUT
d
Cell type distribution on Space
Type proportions on spot
Spot
0.6 0.4 0
0.1 0.1 0.8
0.1 0.1 0.8
0.75 0.125 0.125
1 0 0
c
Spatial-kernel
Weight
bandwith
$w(d_{n,i})$
$d_{n,i}$
Distance
Pre-clustering
Elastic Weighting
Weight
high similartiy
low similartiy


a
Regions
SONAR
Cancer
Stroma
Pancreatic
Duct Epithelium
Acinar cells
Fibroblasts
Cancer clone A
Cancer clone B
Macrophages A
Macrophages B
Endothelial cells
pDCs
RBCs
Endocrine cells
Ductal terminal
Ductal centroacinar
Ductal high hypoxic
Ductal antigen-presenting
mDCs A
mDCs B
Tuft cells
T/NK cells
Mast cells
Monocytes
b
Acinar cells
Cancer clone A
Cancer clone B
Ductal centroacinar
Ductal terminal
Prop.
PRSS1/2
TM4SF1
S100A4/IFI27
SERPINA1
TFF2
Exp.
c
Rank 1 2 3 4 5 6 7 8
P value p < 0.01 p < 0.05 p < 0.10 ns
SONAR
CARD
RCTD
Cell2location
Stereoscope
SPOTlight
SpatialDWLS
Endocrine cells
Endothelial cells
Fibroblasts
Macrophages A
Macrophages B
Mast cells
mDCs A
mDCs B
Monocytes
pDCs
RBCs
T/NK cells
Tuft cells



The purpose of scientific figures

Scientific figures are designed to illustrate, introduce, and/or emphasize ideas/data that are otherwise difficult or lengthy to explain via text

(1) identify the message

(2) consider the audience

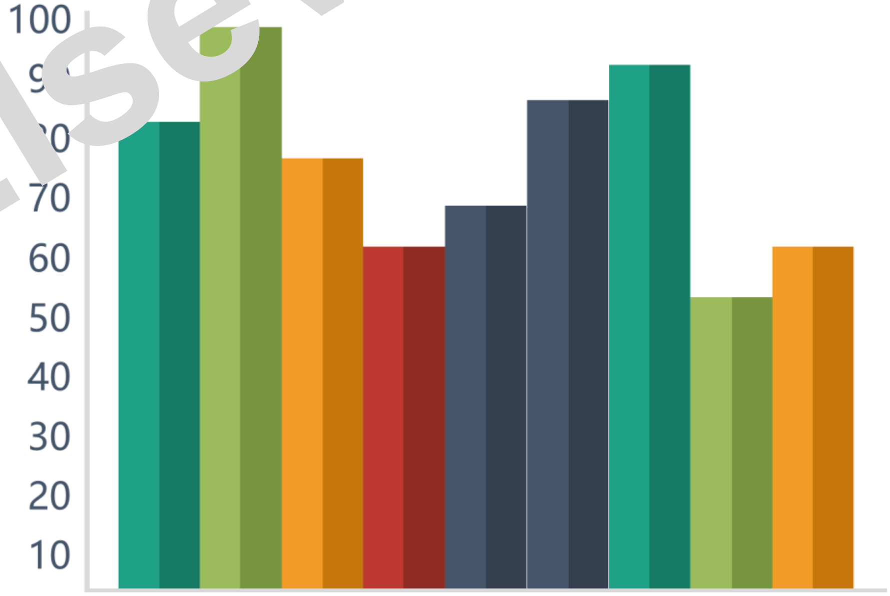
讨论

- 对你的结果给出合理解释
- 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

Editor tips:

大量的手稿被拒绝，因为讨论很薄弱或仅仅包括对结果的描述。

结论



清晰明了

用尽量少的篇幅表达你的结论

立场鲜明

结论必须鲜明，切忌含糊不清

价值体现

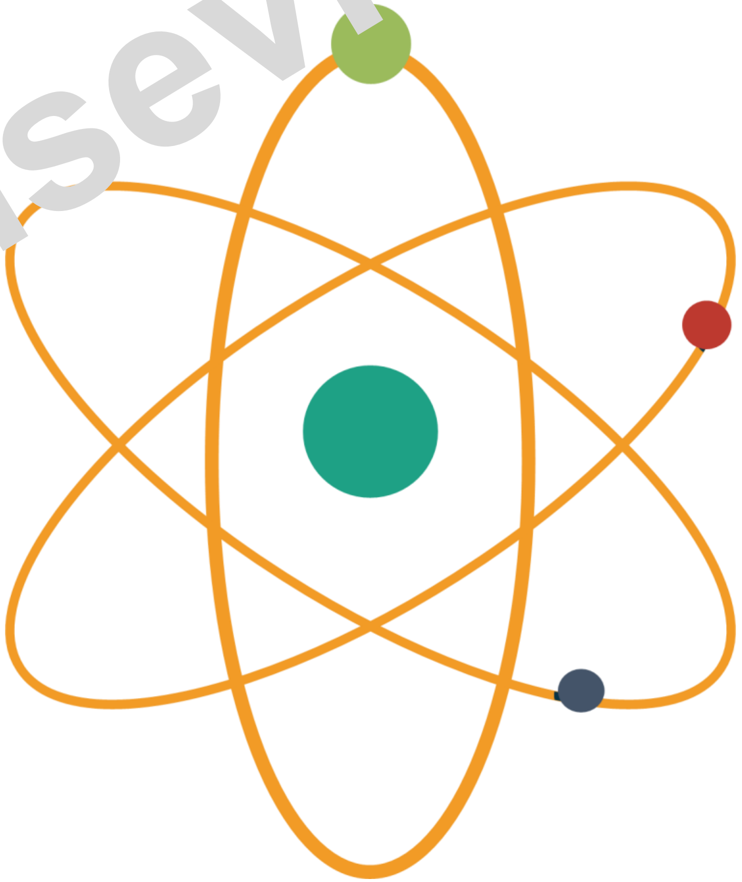
阐述你的研究工作对已有研究有哪些提升

未来展望

提出未来的研究方向以及实验设计

强烈建议请一个外行人来看你的结论，如果并不能立刻读懂，说明你的表述逻辑不够清晰，应继续修改

文献引用



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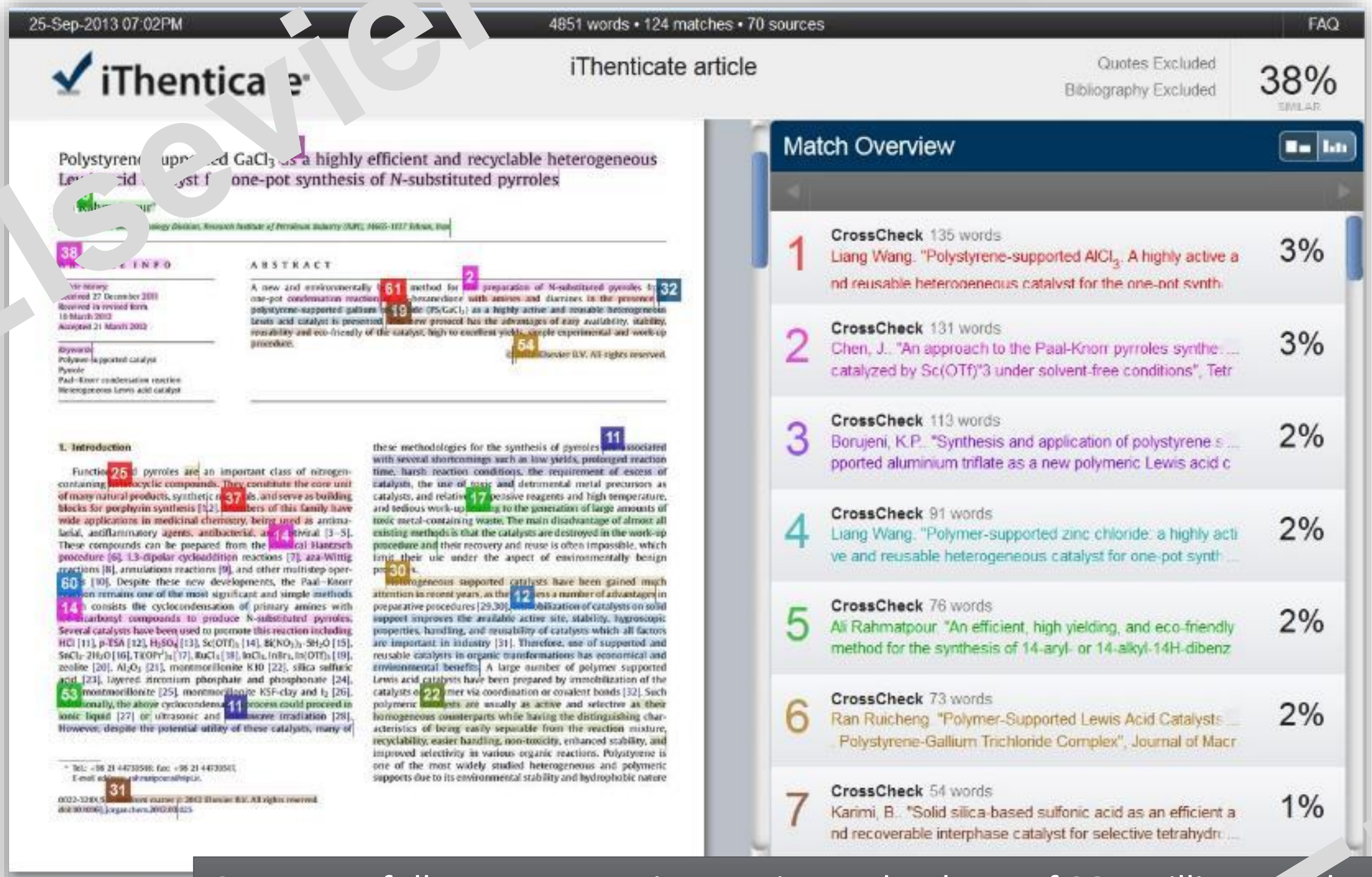
CrossCheck



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选择期刊、投稿流程

Choosing the right journal

Best practices

- Aim to reach the intended audience for your work
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- Shortlist a handful of candidate journals, and investigate them:

  - Aims & Scope
  - Accepted types of articles
  - Readership
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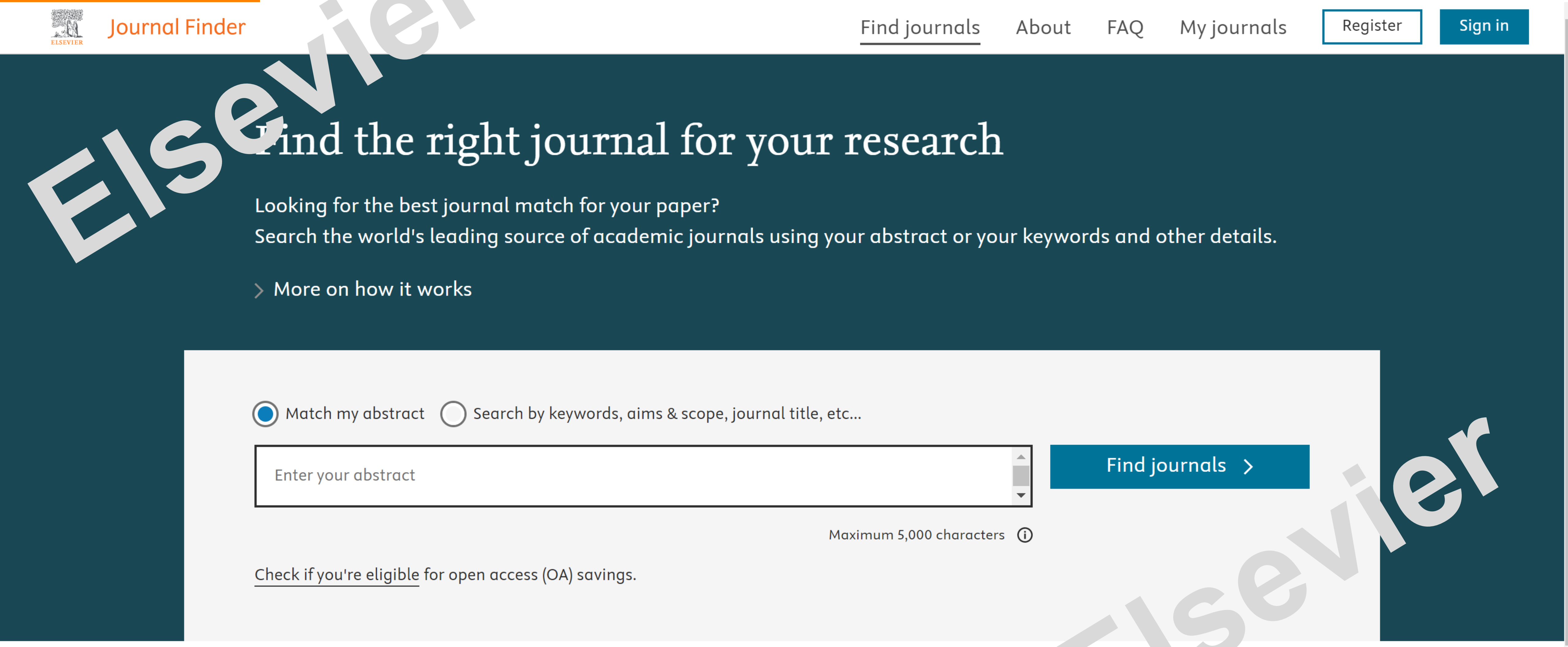

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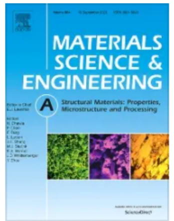

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