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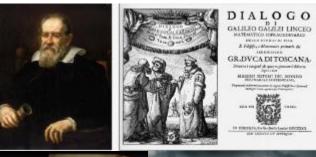
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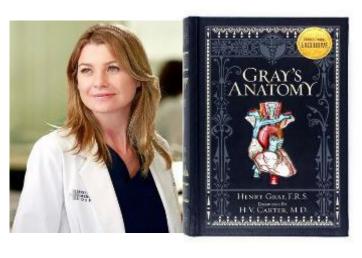








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THE LANCET
Volume 182, Issue 4695, 23 August 1913, Pages 529-535



INVESTIGATIONS INTO THE RELATIONSHIP OF THE TARBAGAN (MONGOLIAN MARMOT) TO PLAGUE. \*

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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https://doi.org/10.1016/50140-6736(01)76466-5



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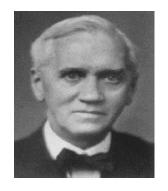
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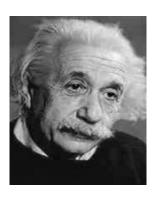
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rats 10 months) wild-type IP – 500 mg/kg body 5v and CS780/6 mice weight/day, 4 days

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H. Nadocobani, J. Li, T. Ying et al. Table 1 (continued)
Therapeutic effect/age-related Model

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could be enhanced by NMN

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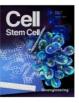
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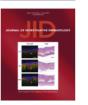












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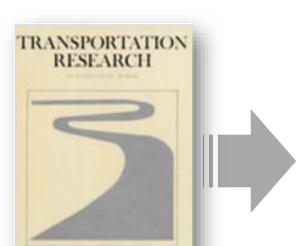
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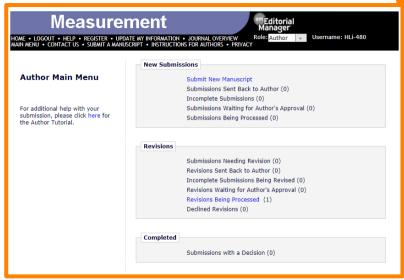


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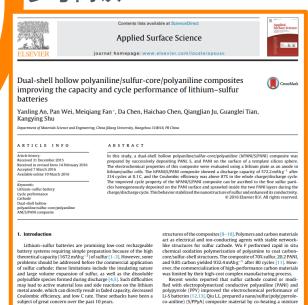


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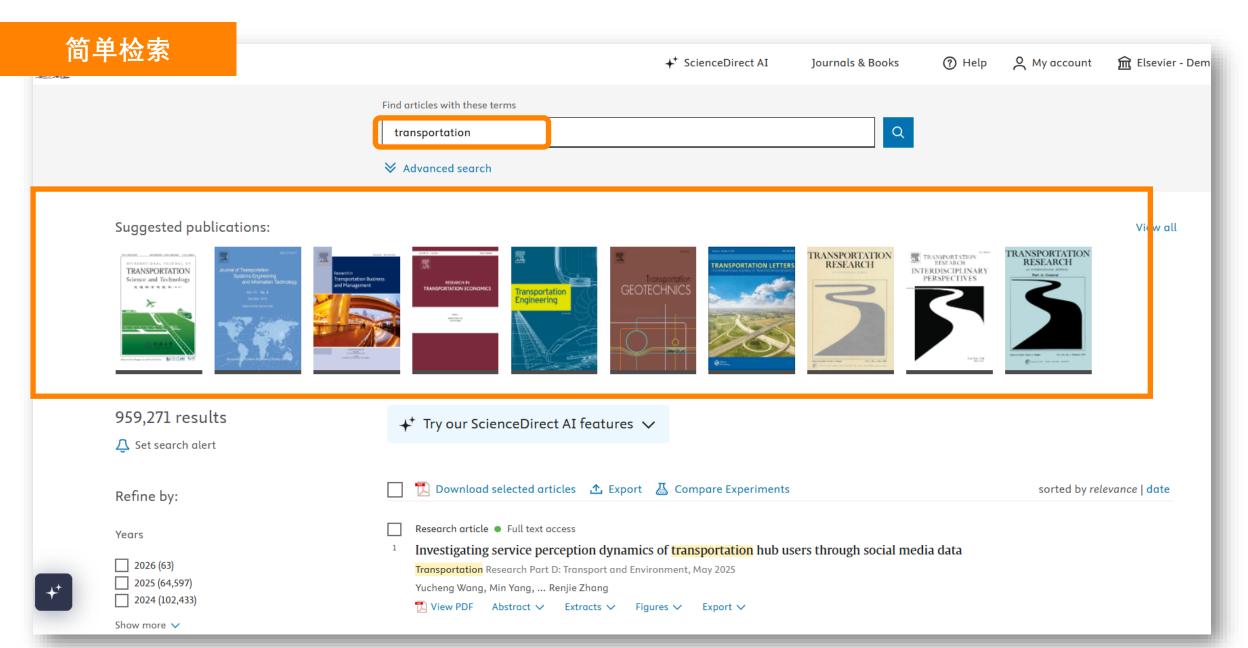
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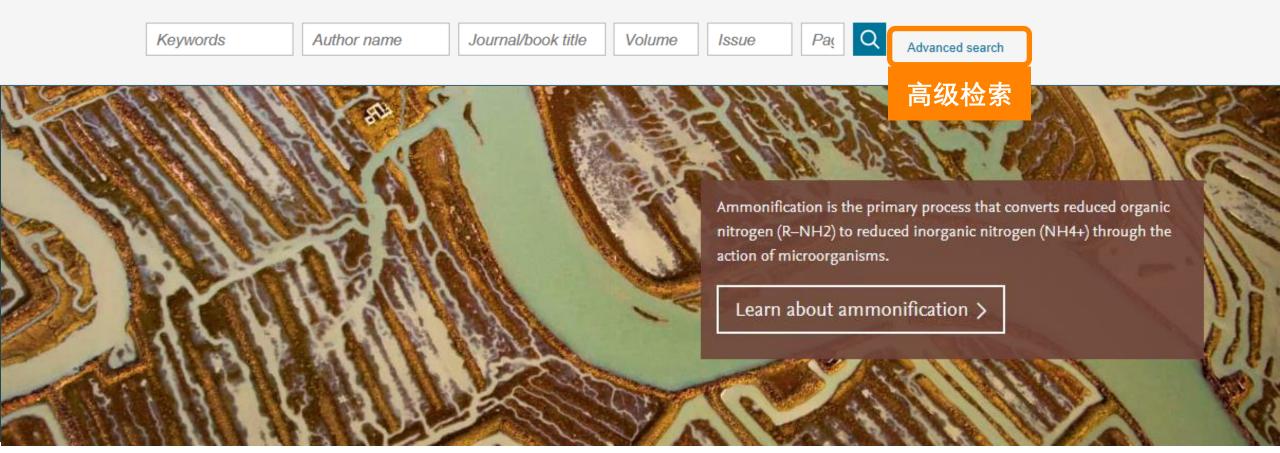
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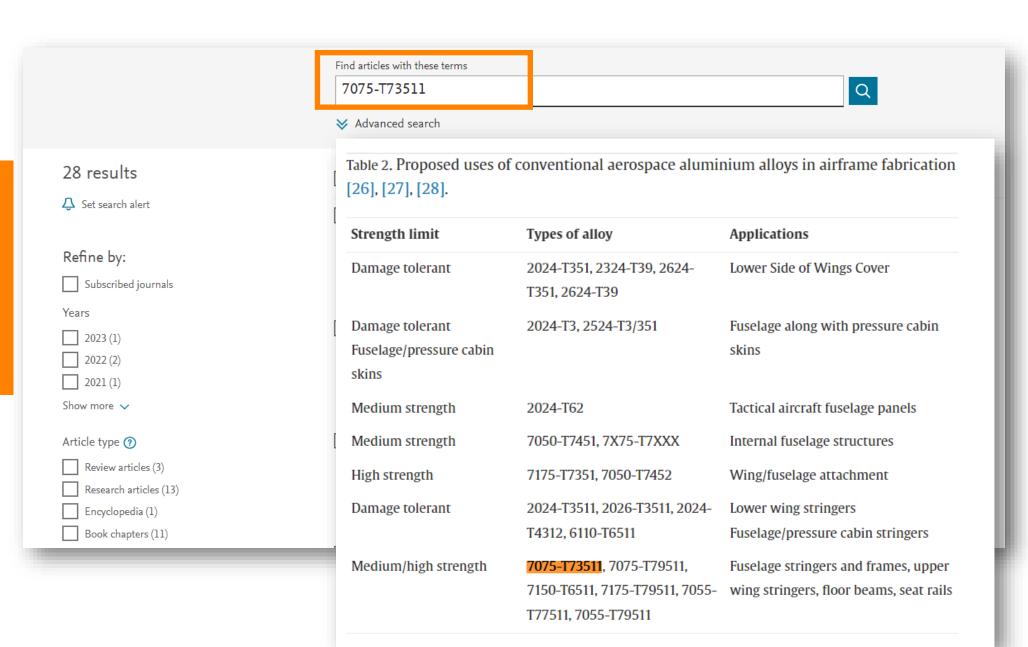
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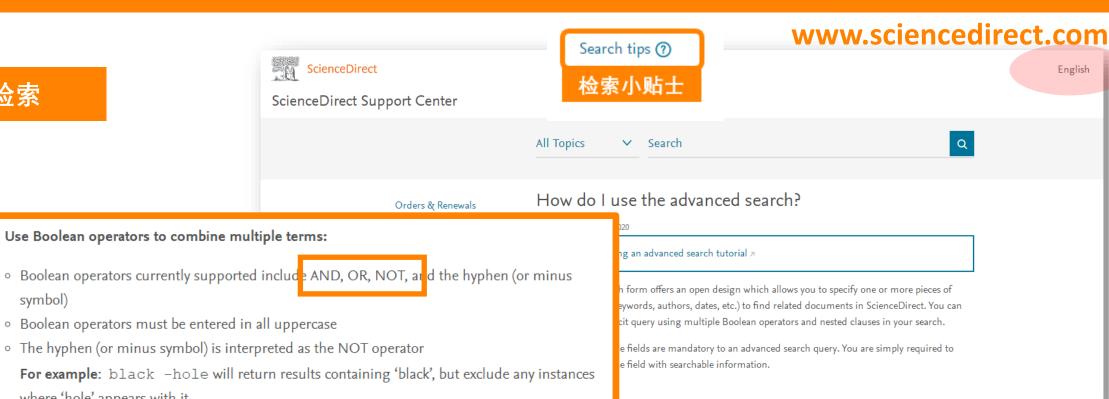
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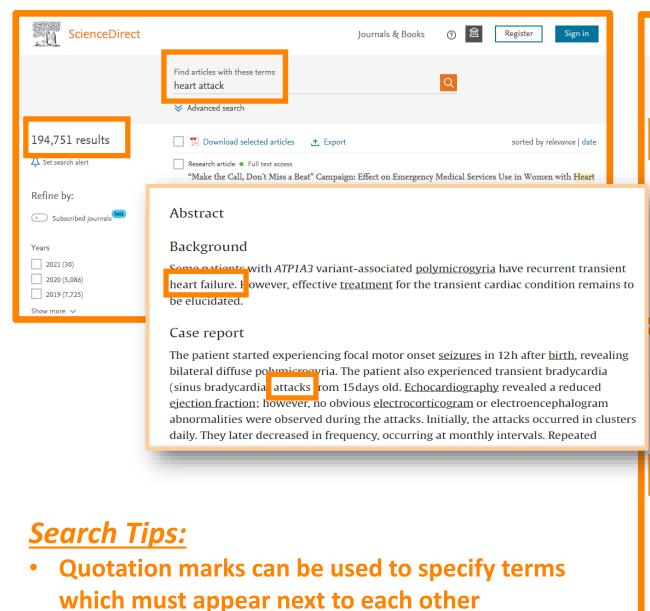
symbol)

- 2. AND
- 3. OR
- o Parentheses can be used when nesting clauses so the grouping is clear

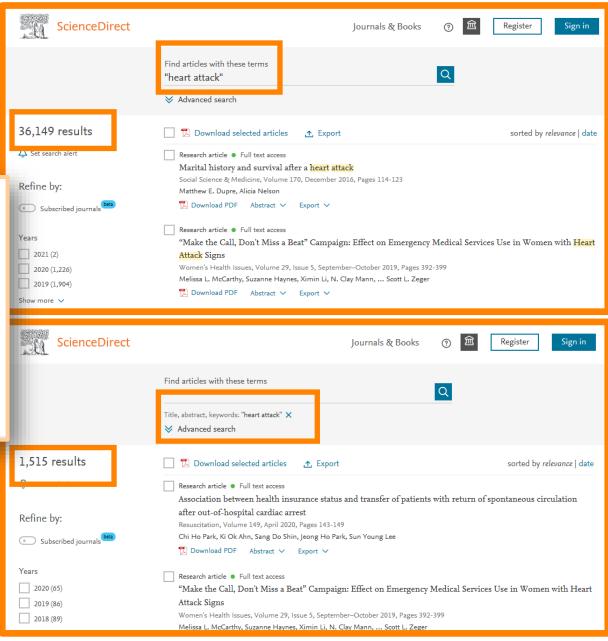
For example: For a OR b AND c, enter a OR (b AND c)

Quotation marks can be used to specify terms which must appear next to each other

For example: ("heart attack" OR "myocardial i diabetes AND NOT cancer



For example: "Heart attack"



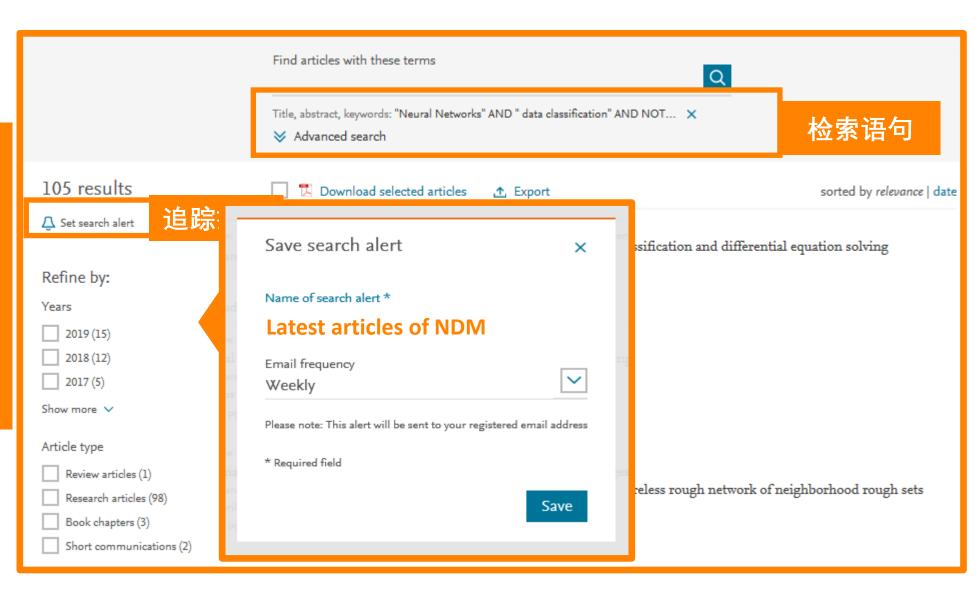
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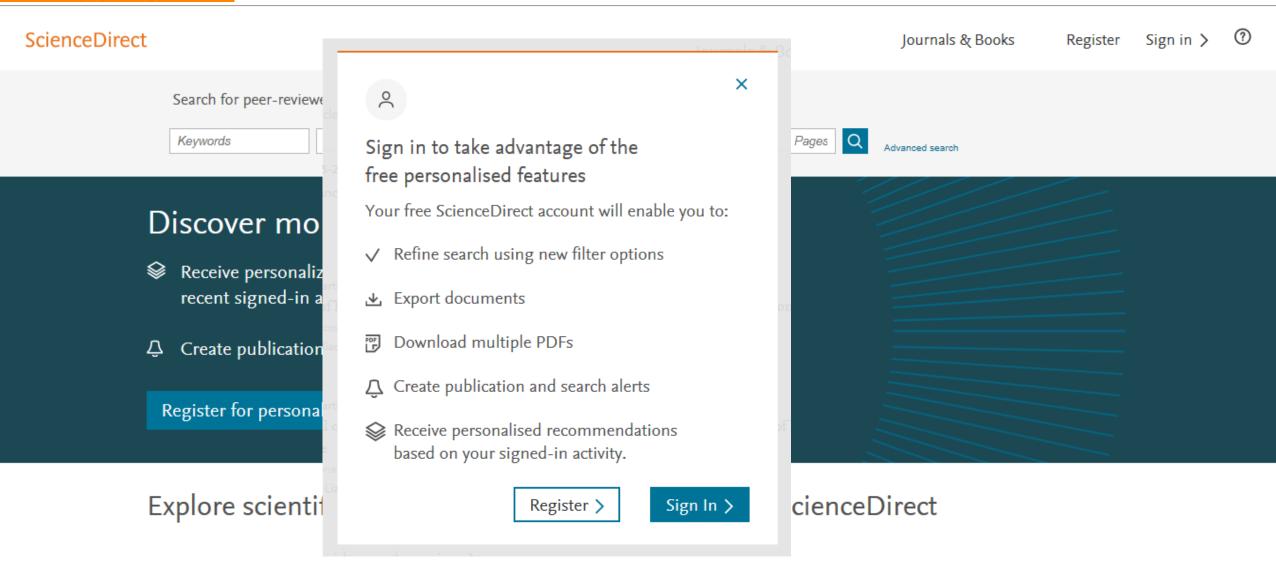
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案例2: 在标题、文摘、关 键词中检索"Neural Networks" AND " data classification" AND NOT "machine learning"



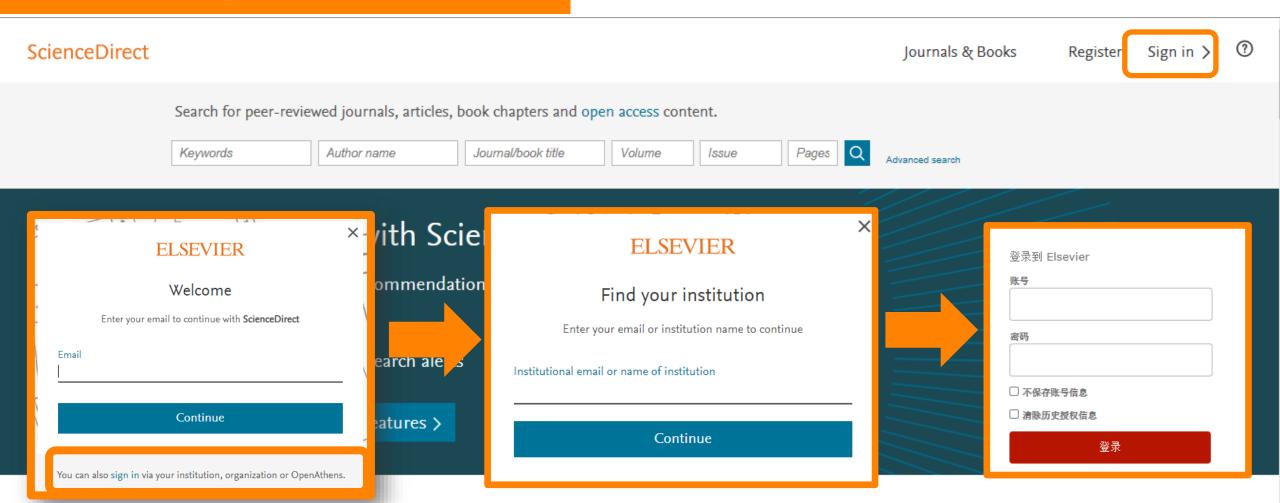
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#### Applied Thermal Engineering Volume 202, 5 February 2022, 117869



#### **Review article**

A comprehensive review on computational studies of falling film hydrodynamics and heat transfer on the horizontal tube and tube bundle

Chuang-Yao Zhao a 🙎 🖾 , Di Qi a , Wen-Tao Ji b , Pu-Hang Jin b , Wen-Quan Tao b 🙎 🖾

7. Falling film boiling

Falling film boiling widely prevails in the refrigeration and petrochemical industries. Compared with the experimental research, the numerical simulation on falling film boiling develops much slowly due to the complexity of this issue, such as bubble behaviour (nucleation, growth, and departure), gas-liquid mutual interaction, critical heat flux and liquid film wavy or dryout, and so on.

Falling film boiling is clearly different from the pool boiling [191] in bubble behaviour. The bubble in the pool boiling originates from the <u>nucleation sites</u> [192] (usually <u>surface</u> imperfections, such as pits or scratches) on the heating wall and the bubble growth is generally confined to the thickness of the superheated thermal layer next to the heated wall [29], while for nucleate boiling in a thin liquid film, the additional nucleation hances boiling at lower temperature differences than the usua nucleate boiling [33]. Be ides, the initiation and departure process of a bubble in the faling liquid film boiling call be described by three stages: waiting stage (no significant growth or the pubble is observed as the thermal layer is reforming), unbinding stage (until the bubble departu growing while flowing downstram) [29], [193]. Ji et al. [194] and Bock et al. [191] reported a better heat transfer erformance in the falling film boiling over the pool boiling with the same tubes and heat fluxes. This enhancement may be caused by the behaviours of the bubbles trapped in the thin superheated films, which increases microlayer evaporation through the bubble base [29].

The published numerical studies on falling film evaporation with nucleate boiling are tabulated in Table 7.

Table 7. Description of numerical studies on falling film boiling with 2D model.

Authors

Geometry Method

Code/Software Comments change

model

#### Outline

Highlights

Abstract

Keywords

Nomenclature

L. Introduction

2. Computational methods

2 计算方法 3. Falling film hydrody

3. 降膜流体动力

4. Film thickness and s

4. 膜厚和显热传递

5. Falling film flow patte

5. 降膜流型 6. Falling film evaporati

6. 降膜蒸发

7. Falling film boiling

7. 降膜沸腾

8. Falling film evaporato 8、降膜蒸发器

9. Falling film breakout or dr

9. 落膜破裂或干燥

10. Falling film thickness p 10. 降膜厚度预测

11. Heat transfer predicti

11.传热预测

12. Benchmark data for nu

13. Future needs and recommendation

14. Concluding remarks

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#### **Research article**

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2. Methodology

3. Validation

4. Results and discussion

5. Conclusion

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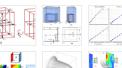
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Data availability

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Figures (18)







#### Applied Thermal Engineering Volume 236, Part C, 5 January 2024, 121732



#### Three-dimensional topology optimization of natural convection using double multiplerelaxation-time lattice Boltzmann method

Ji-Wang Luo a, Li Chen a 🙎 🖂 , Hanbing Ke b, Chuangde Zhang a, Yang Xia a, Wen-Quan Tao a

#### 2. Methodology

#### 2.1. Forward model

In this study, the LBM is utilized to simulate the 3D natural convection process, and we introduce two sets of distribution functions,  $\mathbf{f} = \{f_{\alpha} | \alpha = 0 \sim q_f - 1\}$  and  $\mathbf{g} = \{g_{\alpha} | \alpha = 0 \sim q_g - 1\}$ , to separately model the fluid flow and heat transfer processes.

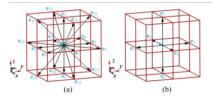
#### 2.1.1. Lattice Boltzmann model for fluid flow

The distribution function  $\mathbf{f} = \{f_{\alpha}\}$  evolves according to the following <u>DVBE</u>

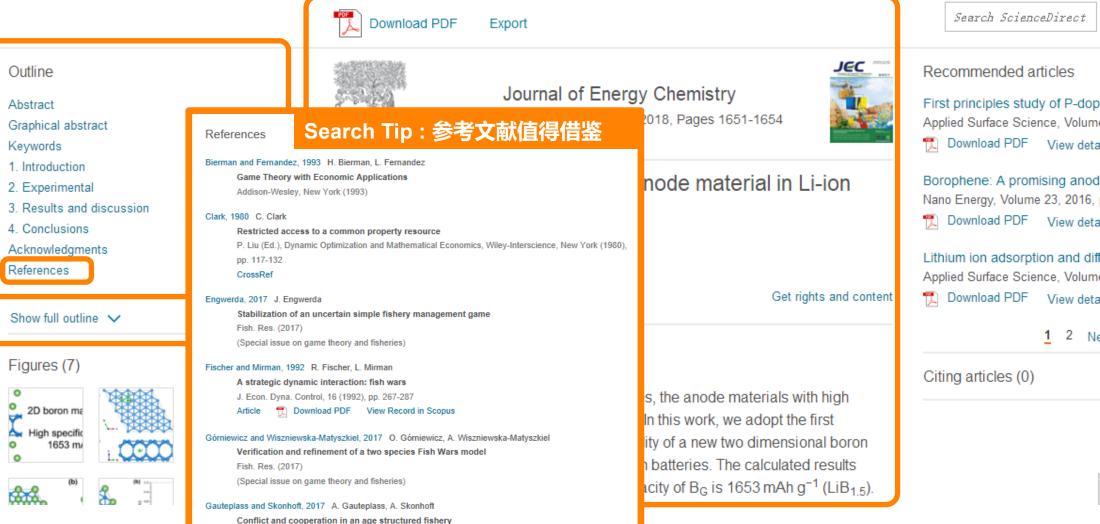
$$\frac{\partial f_{\alpha}}{\partial t} + \mathbf{e}_{\alpha} \cdot \nabla f_{\alpha} = \Omega_{\alpha}(\mathbf{f}) + F_{\alpha}(\mathbf{f}) \qquad \forall \alpha = 0 \sim q_{f} - 1 \tag{1}$$

where  $f_{\alpha}$  is the abbreviation of  $f(\mathbf{x},t,\mathbf{e}_{\alpha})$ , which represents the distribution function at position**x**, at time t and with velocity  $\mathbf{e}_{\alpha}$ .  $\mathbf{e} = \{\mathbf{e}_{\alpha} | \alpha = 0 \sim q_f - 1\}$  is the set of the discrete velocities, which are illustrated in Fig. 1 (a) and given as follows in the D3Q19 model (three dimension nineteen velocities,  $q_f$ =19) adopted here

 $\begin{bmatrix} \mathbf{e}_0 & \mathbf{e}_1 & \mathbf{e}_2 & \mathbf{e}_3 & \mathbf{e}_4 & \mathbf{e}_5 & \mathbf{e}_6 & \mathbf{e}_7 & \mathbf{e}_8 & \mathbf{e}_9 & \mathbf{e}_{10} & \mathbf{e}_{11} & \mathbf{e}_{12} & \mathbf{e}_{13} & \mathbf{e}_{14} & \mathbf{e}_{15} & \mathbf{e}_{16} & \mathbf{e}_{17} & \mathbf{e}_{18} \end{bmatrix}$  $\begin{bmatrix} 0 & 1 & -1 & 0 & 0 & 0 & 0 & 1 & -1 & 1 & -1 & 1 & -1 & 1 & -1 & 0 & 0 & 0 & 0 \end{bmatrix}$ 0 0 0 0 0 1 -1 0 0 0 0 1 1 -1 -1 1 1 -1 -1



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#### Journal of Energy Chemistry

Volume 27, Issue 6, November 2018, Pages 1651-1654



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#### All boron-based 2D material as anode material in Li-ion batteries

Ning Jiang, Biao Li, Fanghua Nin, Dingguo Xia 🖰 🖾

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#### Abstract

To design the high-energy-density Li-ion batteries, the anode materials with high specific capacity have attracted much attention. In this work, we adopt the first principles calculations to investigate the possibility of a new two dimensional boron material, named B<sub>G</sub>, as anode material for Li-ion batteries. The calculated results show that the maximum theoretical specific capacity of B<sub>G</sub> is 1653 mAh g<sup>-1</sup> (LiB<sub>1.5</sub>).

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Xia, W., Zou, R., An, L., Xia, D., Guo, S.

Energy and Environmental Science, 2015, 8(2), pp. 568-576

Well-defined carbon polyhedrons prepared from nano metal-organic frameworks for oxygen reduction

Xia, W., Zhu, J., Guo, W., ... Xia, D., Zou, R.

Journal of Materials Chemistry A, 2014, 2(30), pp. 11606-11613

#### Review

Atomically Dispersed Metal Sites in MOF-Based Materials for Electrocatalytic and Photocatalytic Energy Conversion

Liang, Z., Qu, C., Xia, D., Zou, R., Xu, Q.

Angewandte Chemie - International Edition, 2018, 57(31), pp. 9604-9633

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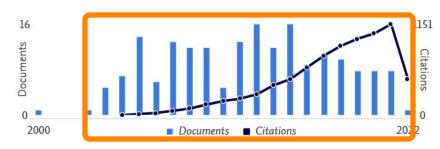
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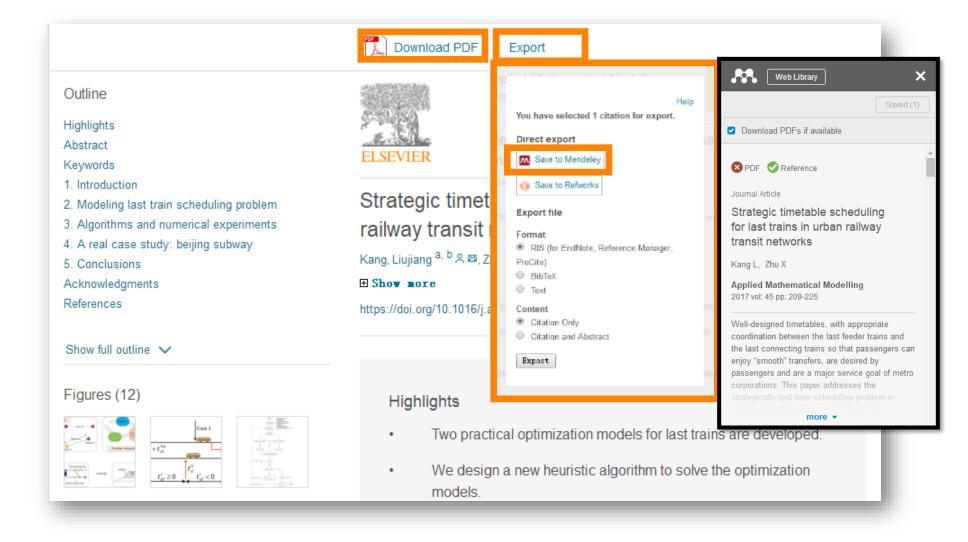
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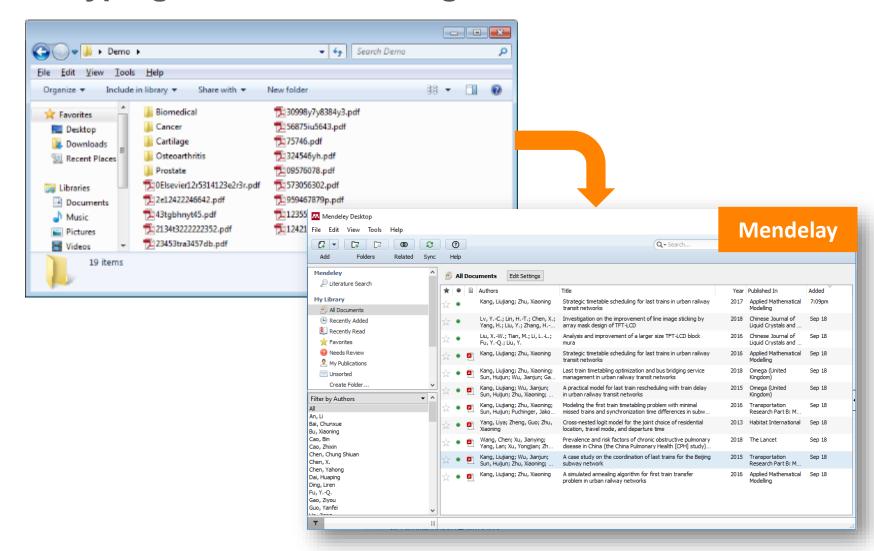
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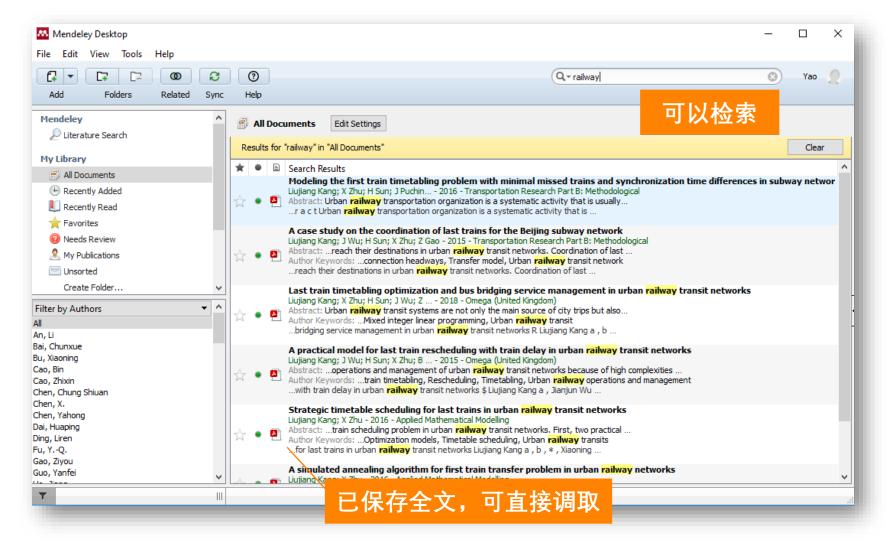
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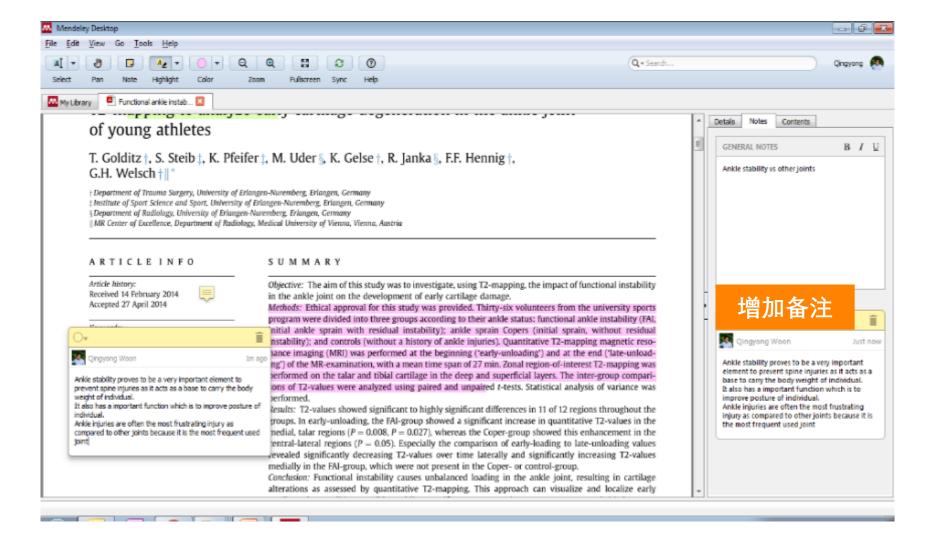
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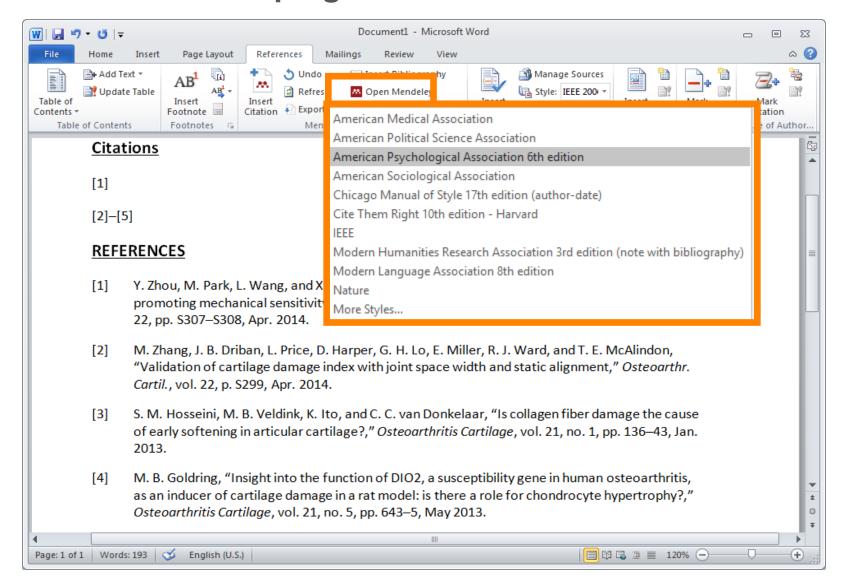
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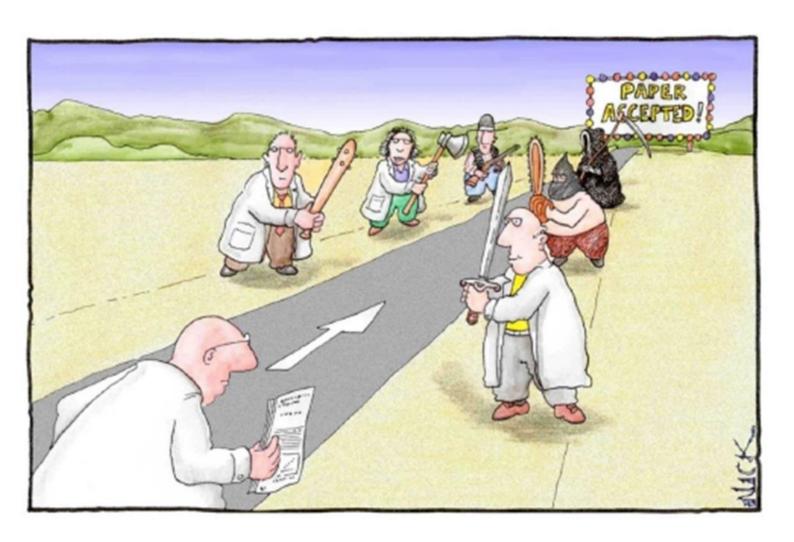
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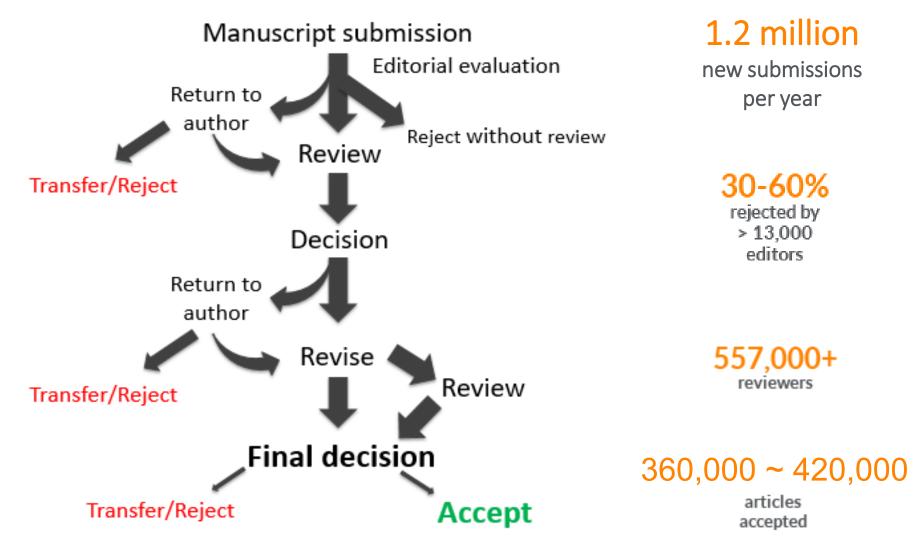


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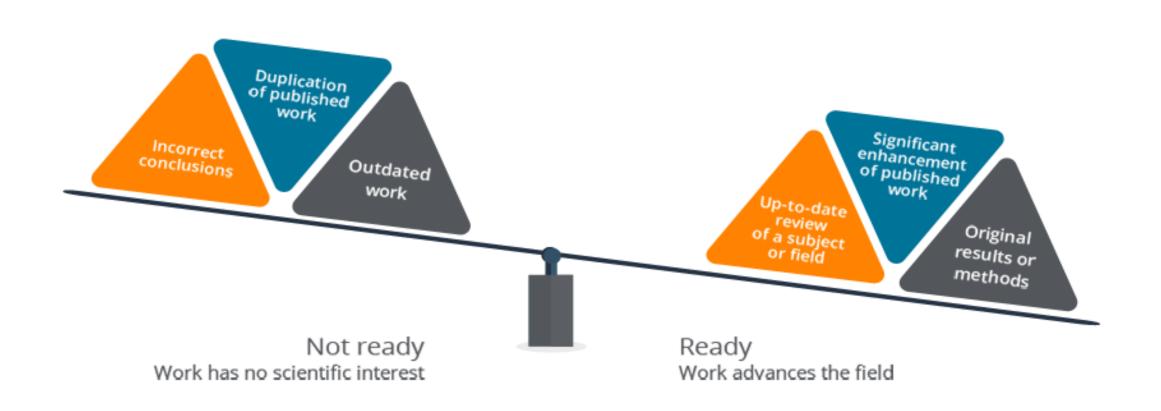
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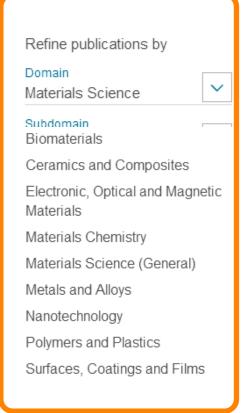
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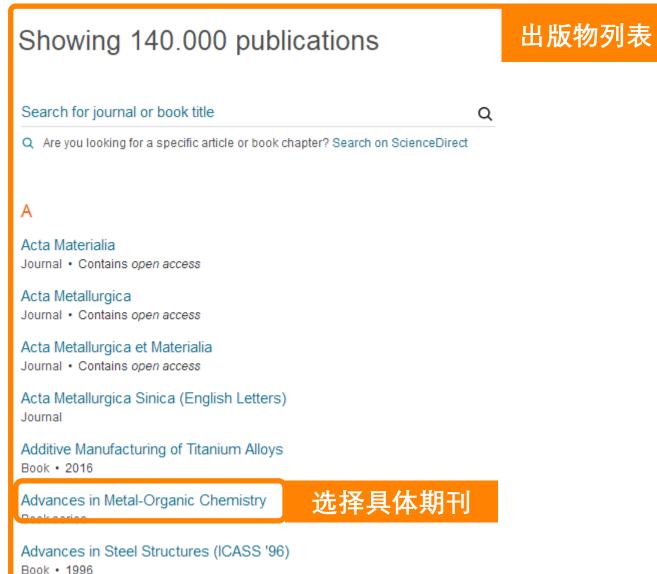
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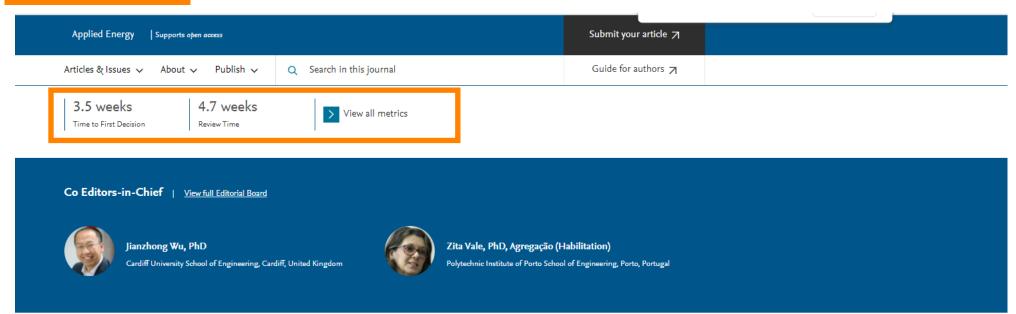
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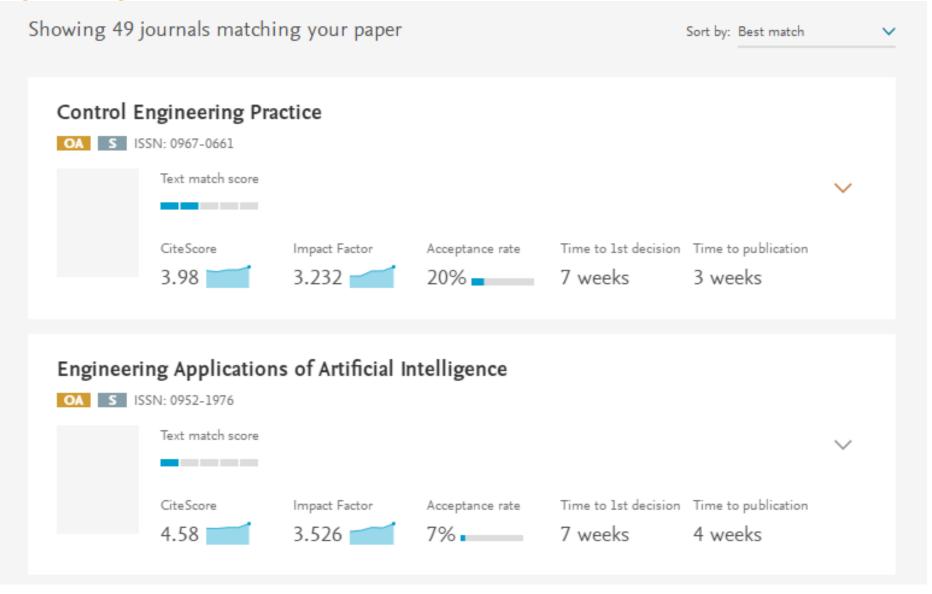
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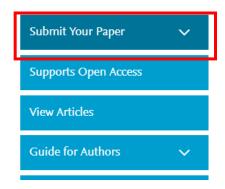


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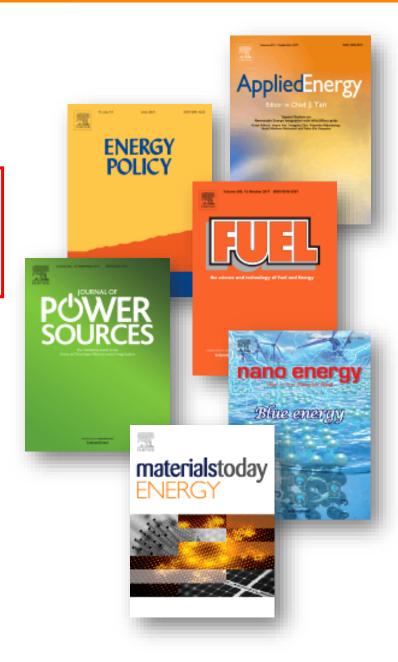
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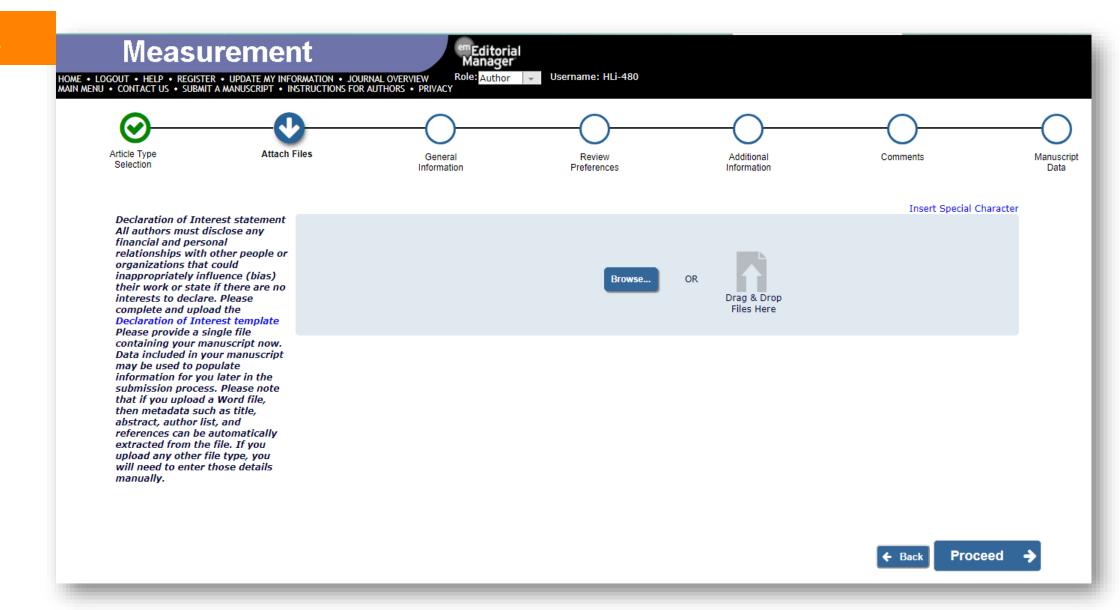
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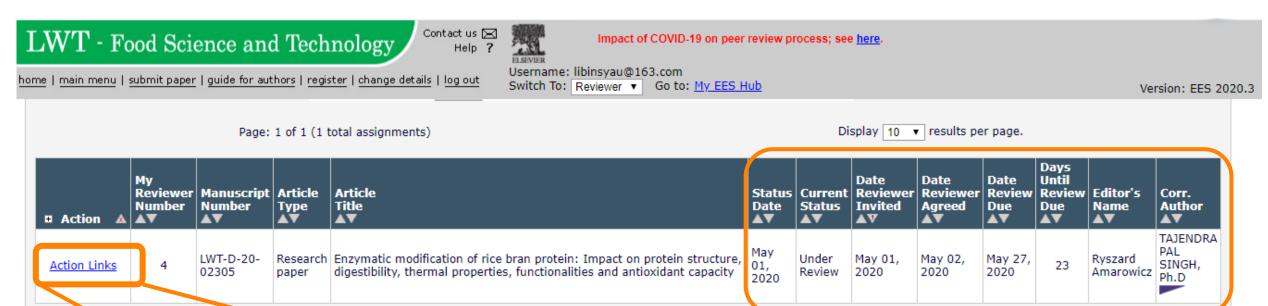
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