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Research Topics Development and Literature Search by Using ScienceDirect

13 November. 2020

Associate Professor. Dr. An-Jin SHIE

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Agenda

- Introduce to ScienceDirect
- Accelerating Developing Research Topics
- Getting the journal papers by ScienceDirect
  - System Factions
  - Intelligent Search Methods
- Choosing the suitable journals for publishing your article

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>
> ***—Researcher/ Staff Member Life Sciences, USA***

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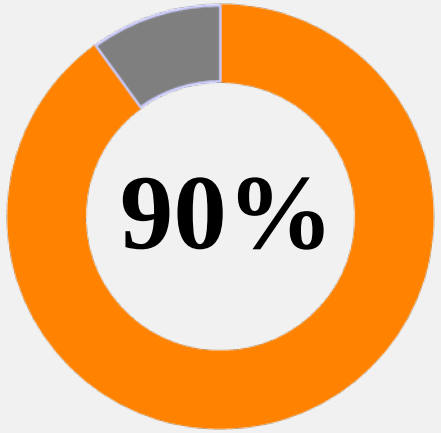
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of surveyed users agree that in their work they often use books and journals together

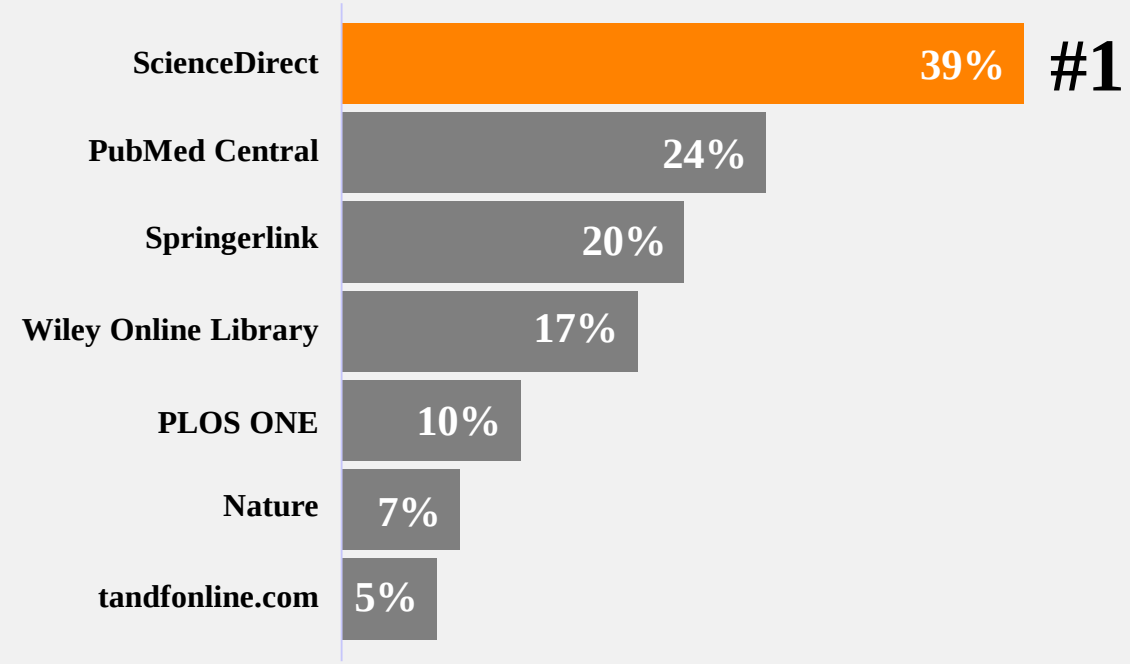
Source: TechValidate survey of 267 users of Elsevier ScienceDirect Books. TVID: 39C-DC2-A29

4 Million
Books and journals were used together in the same research session in 2017

ScienceDirect is the full text service researchers most regularly use

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"Which of the following products and services do you USE on a regular basis?"



Sample: Researchers (n=7,148)
Q: Which of the following products and services do you use on a regular basis?

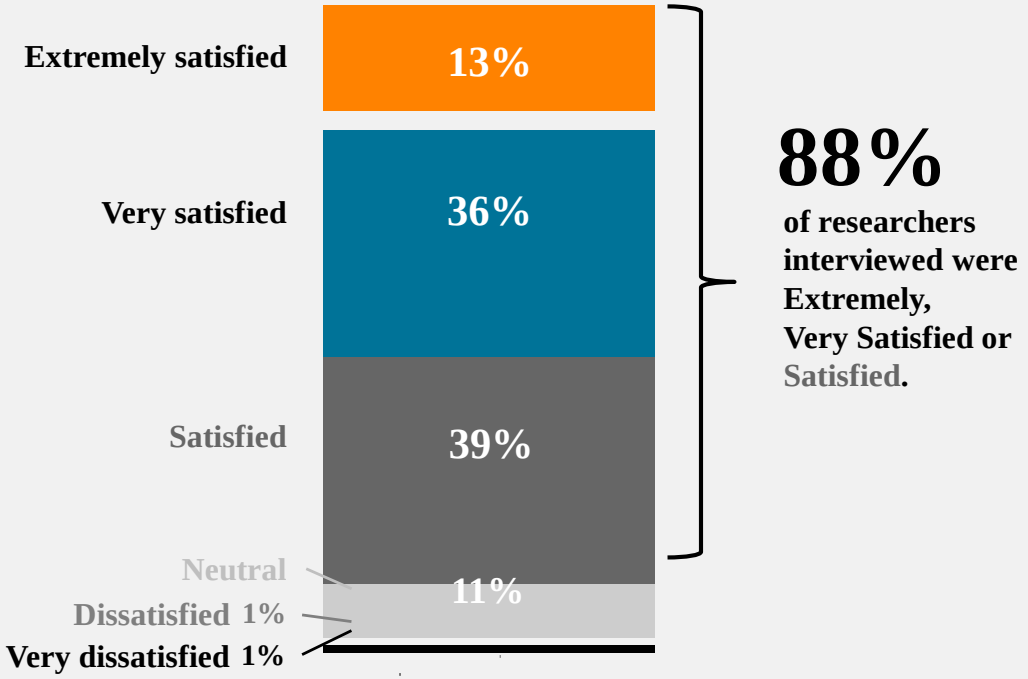
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—Head of Department/Senior Management Health Sciences, Brazil

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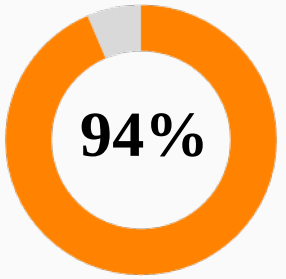
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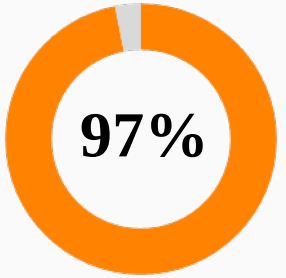
88%
of researchers interviewed were Extremely, Very Satisfied or Satisfied.

Sample: ScienceDirect users (n=2,071)
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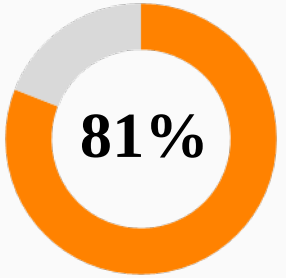
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is easy to use



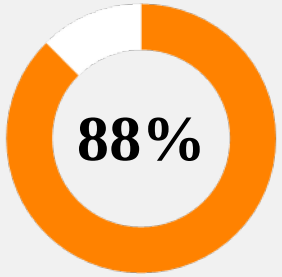
quality of content is good



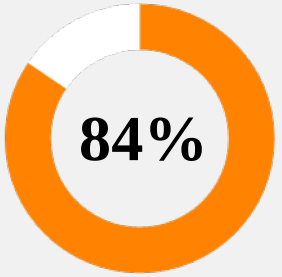
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Researchers agree using ScienceDirect positively impacts their research activities…

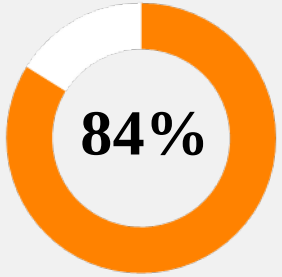
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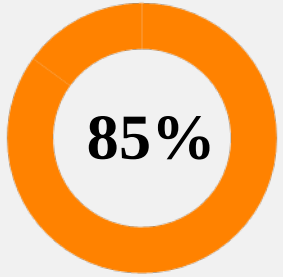
…saves me time



…has particular strengths in my field of specialization



…makes my research activities more successful



…helps me discover research so I am fully informed

Sample: ScienceDirect users (n=2,071)
Q: For each of the following statements, please indicate how much you agree or disagree that the statement applies to ScienceDirect. (% Strongly Agree + Agree + Slightly Agree)

"ScienceDirect is an engine for researching papers which complies with all academic expectations. I have been researching papers on ScienceDirect since 1998 when I started my PhD in the UK and I am still using it."

—Researcher/ Staff Member
Chemistry, Engineering, Env. Sciences, Brazil

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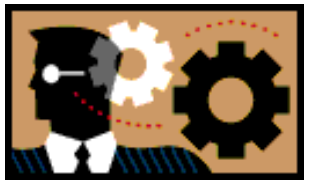
Accelerating Developing Research Topics



The Process of Developing Research Topic

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1.Developing Topic



2. Setting Key word



3. Screening literature



4. Reading literature



5. Organizing literature



How to Screen the Research Paper Acceleratingly

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RESEARCH Open Access

An integrated model using the Taguchi method and artificial neural network to improve artificial kidney solidification parameters

An-Jin Shie[1*], Kuei-Hsing Lo[2], Wen-Tsann Lin[3], Chi-Wen Juan[4] and Yung-Tsan Jou[2]

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Full list of author information is available at the end of the article

Abstract

Background: Hemodialysis mainly relies on the "artificial kidney," which plays a very important role in temporarily or permanently substituting for the kidney to carry out the exchange of waste and discharge of water. Nevertheless, a previous study on the artificial kidney has paid little attention to the optimization of factors and levels for reducing the solidification of the artificial kidney during the hemodialysis procedure. Thus, this study proposes an integrated model that uses the Taguchi method, omega formula, and back-propagation network to determine the optimal factors and levels for addressing this issue.

Methods: First, we collected the recommendations of medical doctors and nursing staff through a small group discussion, and used the Taguchi method to analyze the key factors at different levels. Next, the omega formula was used to convert the analysis results from the Taguchi method to assess the defect rate. Finally, we utilized back-propagation network algorithms to predict the optimal factors and levels for artificial kidney solidification, in order to confirm that the key factors and levels identified can effectively improve the solidification rate of the artificial kidney and thereby enhance the effect of hemodialysis.

Results: The research finding proposes the following as the optimal factors and levels for artificial kidney solidification: the amount of anticoagulation should be set at 500 units, the velocity of blood flow at 300 ml/min, the dehydration volume at 2.5 kg, and the vascular access type as autologous blood vessels. We obtained 270 sets of data from the patients of End Stage Renal Disease (ESRD) under the setting of the optimal combination of the factors at different levels; the defect rate of artificial kidney solidification is 12.9%, which is better than the defect rate of 32% in the original experiment. Meanwhile, the patient characteristics for physiological status in BMI, serum calcium, hematocrit, ferritin, and transferrin saturation percentage are improved by this study.

Conclusion: This conclusion validates the ability of the proposed model in this study to improve the solidification rate of the artificial kidney, thereby confirming the model's use as a standard operation procedure in the hemodialysis experiment. The ideas behind and the implications of the proposed model are further discussed in this study.

Keywords: Hemodialysis, Artificial kidney solidification, Taguchi method, Omega transformation, Artificial neural network, Back-propagation network analysis

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- Highlights
- Abstract
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- Keywords
- 1. Introduction
- 2. The Research Background and Relevant Literature
- 3. Methodology
- 4. Results and Discussion
- 5. Implications and Conclusion
- 6. Limitations and Future Research
- Declaration of Competing Interest
- Acknowledgement
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The 7 Ps marketing mix of home-sharing services: Mining travelers' online reviews on Airbnb

Linchi Kwok [a], Yi [illegible], Bei Yu [c]

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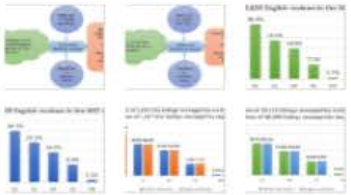
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- Table 1
- Table 2
- Table 3
- Table 4

Highlights

- This study reports a big-data, supervised machine learning analysis under 7 Ps.
- The data include 1,148,062 English reviews for 37,092 Airbnb listings in SF & NYC.
- The most mentioned marketing mix are Service Product & Physical Evidence.
- Multi-unit and single-unit hosts show little difference under 7 Ps.
- Superhosts and ordinary hosts differ in Service Product, Physical Evidence, & People.

文献亮点

Abstract

The 7 Ps model is a very useful tool in helping service firms solve managerial issues in marketing. Guided by the 7 Ps marketing mix framework, a big-data, supervised machine learning analysis was performed with 1,148,062 English reviews of 37,092

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School of Information Studies, Syracuse University, Syracuse, NY, USA

Bei Yu, Ph.D., is an Associate Professor at the School of Information Studies, Syracuse University. Her research expertise is in applied natural language processing and computational social science.

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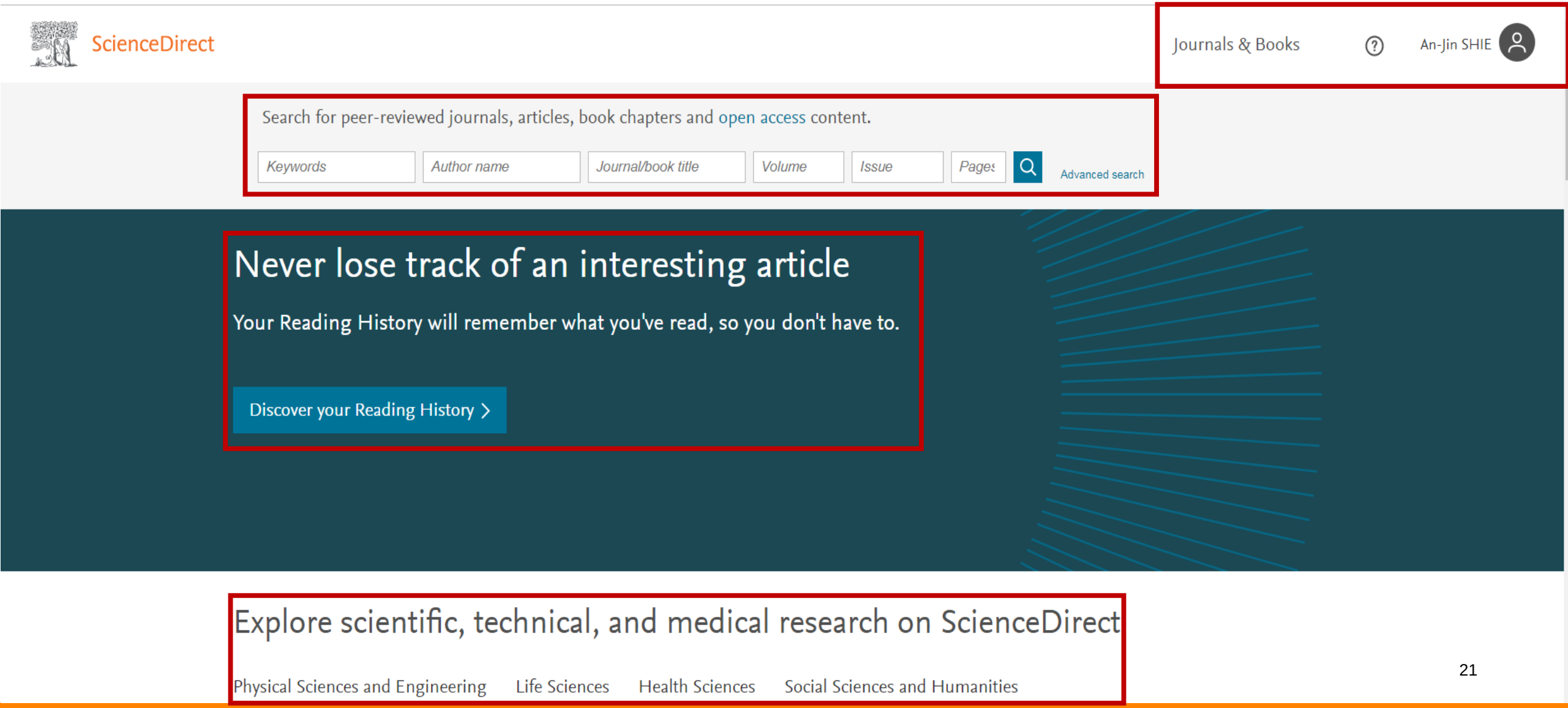
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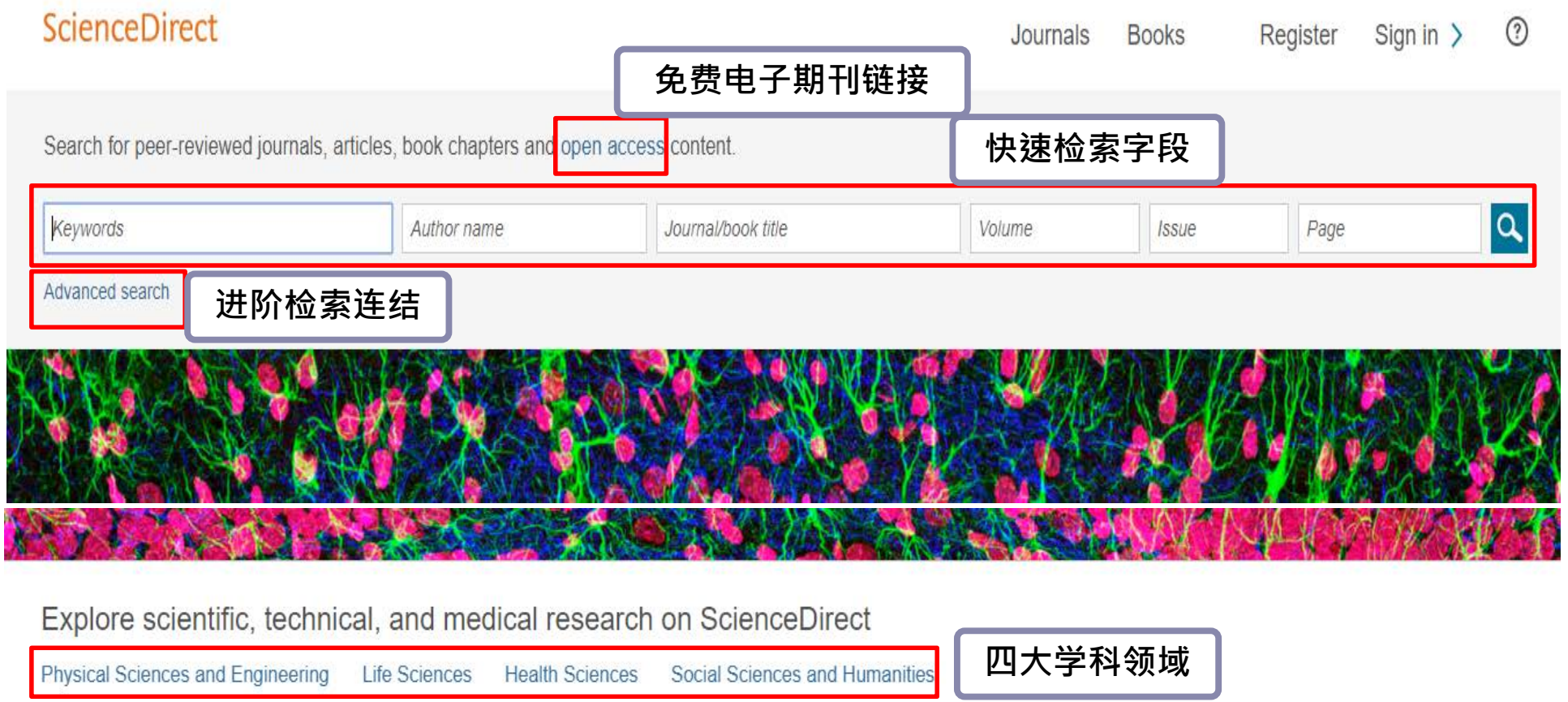
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Energy
Engineering
Materials Science
Mathematics
Physics and Astronomy

Life Sciences

Agricultural and Biological Sciences
Biochemistry, Genetics and Molecular Biology
Environmental Science
Immunology and Microbiology
Neuroscience

四大学科领域

Health Sciences

Medicine and Dentistry
Nursing and Health Professions
Pharmacology, Toxicology and Pharmaceutical Science
Veterinary Science and Veterinary Medicine

Social Sciences and Humanities

Arts and Humanities
Business, Management and Accounting
Decision Sciences
Economics, Econometrics and Finance
Psychology
Social Sciences

Classification for Each Research Area

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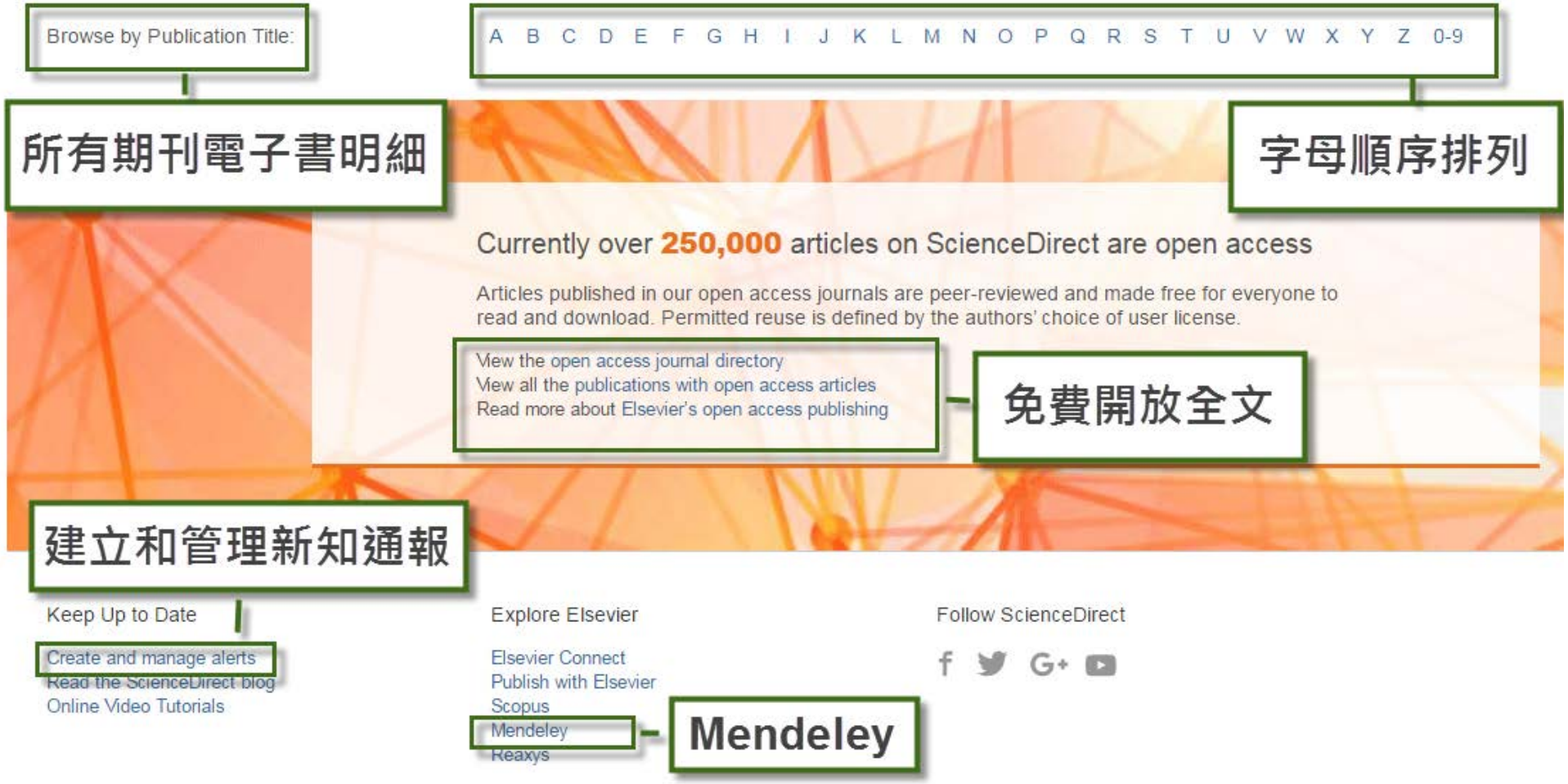
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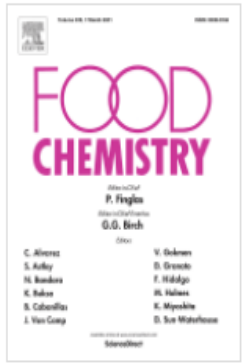
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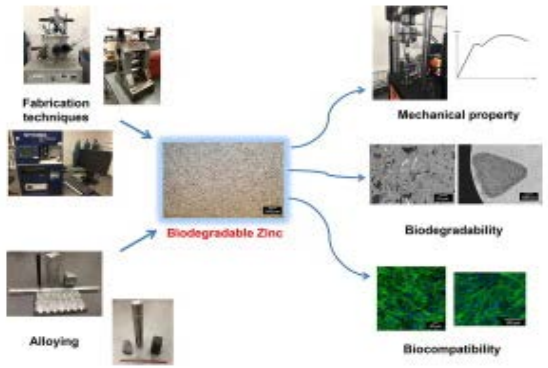
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odegradable metals along with magnesium and iron. Zinc appears to
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- Abstract
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- Keywords
- 1. Introduction
- 2. The Research Background and Relevant Literature
- 3. Methodology
- 4. Results and Discussion
- 5. Implications and Conclusion
- 6. Limitations and Future Research
- Declaration of Competing Interest
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The 7 Ps marketing mix of home-sharing services: Mining travelers' online reviews on Airbnb

Linchi Kwok [a], Yi [illegible], Bei Yu [c]

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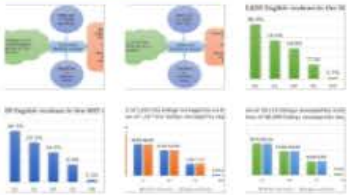
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Highlights

- This study reports a big-data, supervised machine learning analysis under 7 Ps.
- The data include 1,148,062 English reviews for 37,092 Airbnb listings in SF & NYC.
- The most mentioned marketing mix are Service Product & Physical Evidence.
- Multi-unit and single-unit hosts show little difference under 7 Ps.
- Superhosts and ordinary hosts differ in Service Product, Physical Evidence, & People.

文献亮点

Abstract

The 7 Ps model is a very useful tool in helping service firms solve managerial issues in marketing. Guided by the 7 Ps marketing mix framework, a big-data, supervised machine learning analysis was performed with 1,148,062 English reviews of 37,092

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School of Information Studies, Syracuse University, Syracuse, NY, USA

Bei Yu, Ph.D., is an Associate Professor at the School of Information Studies, Syracuse University. Her research expertise is in applied natural language processing and computational social science.

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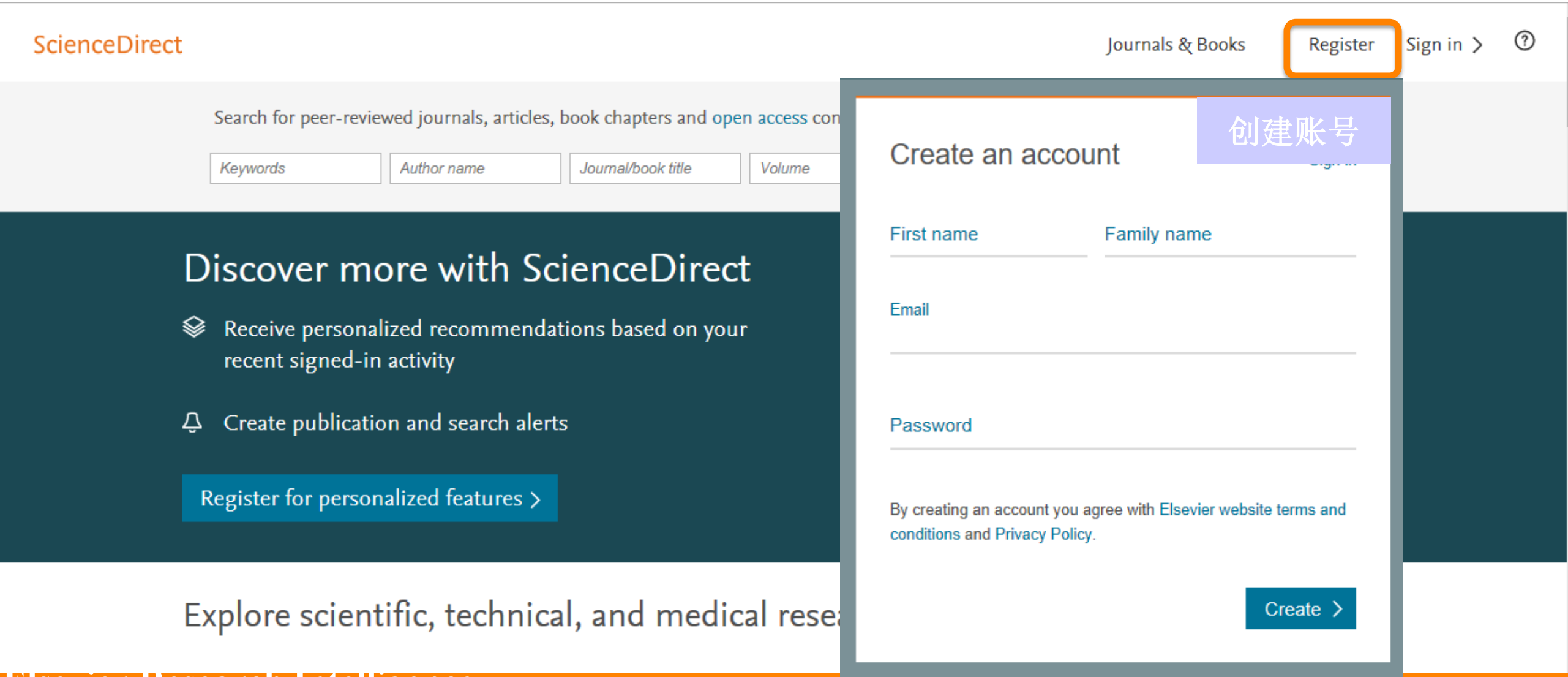
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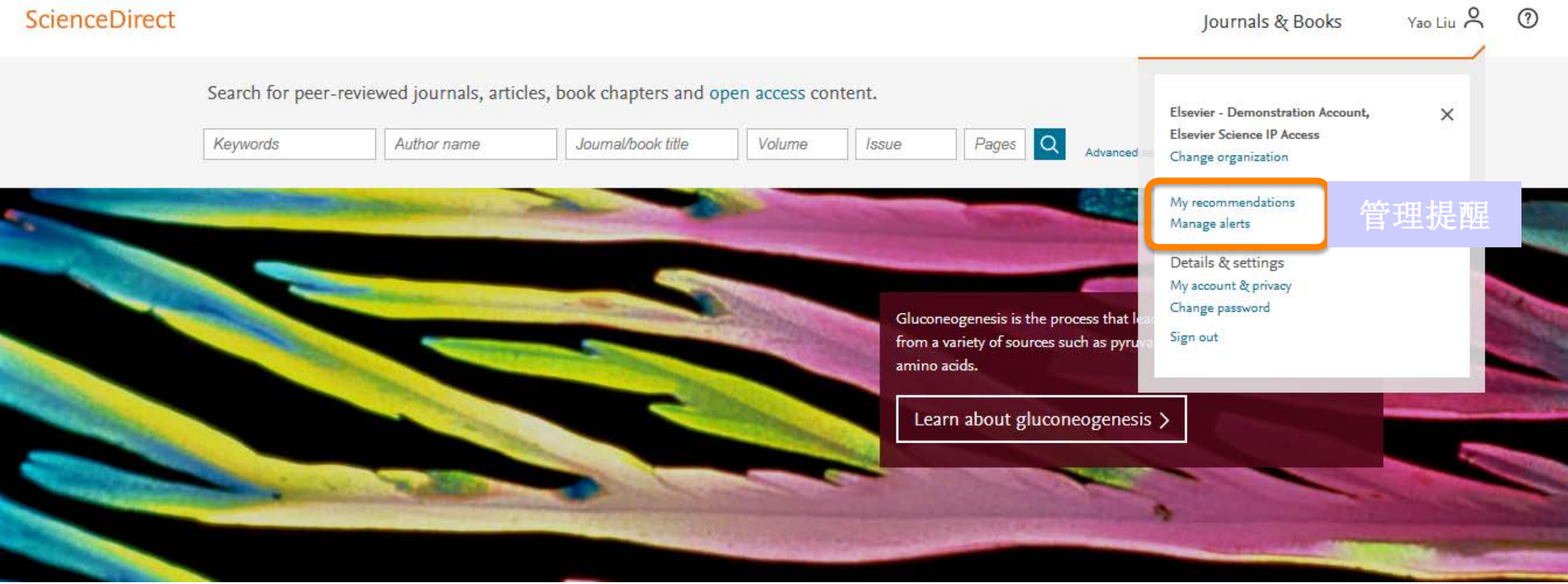
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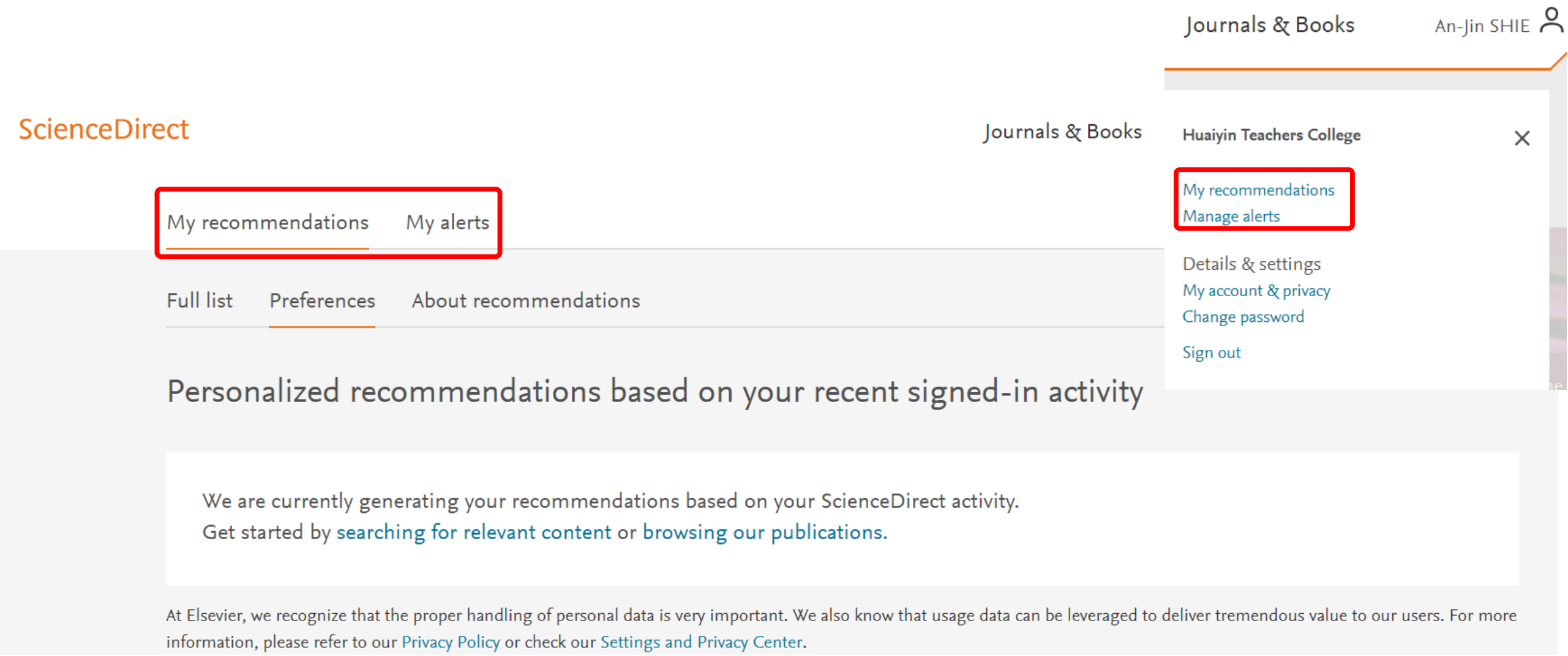


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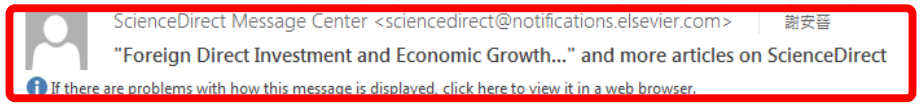
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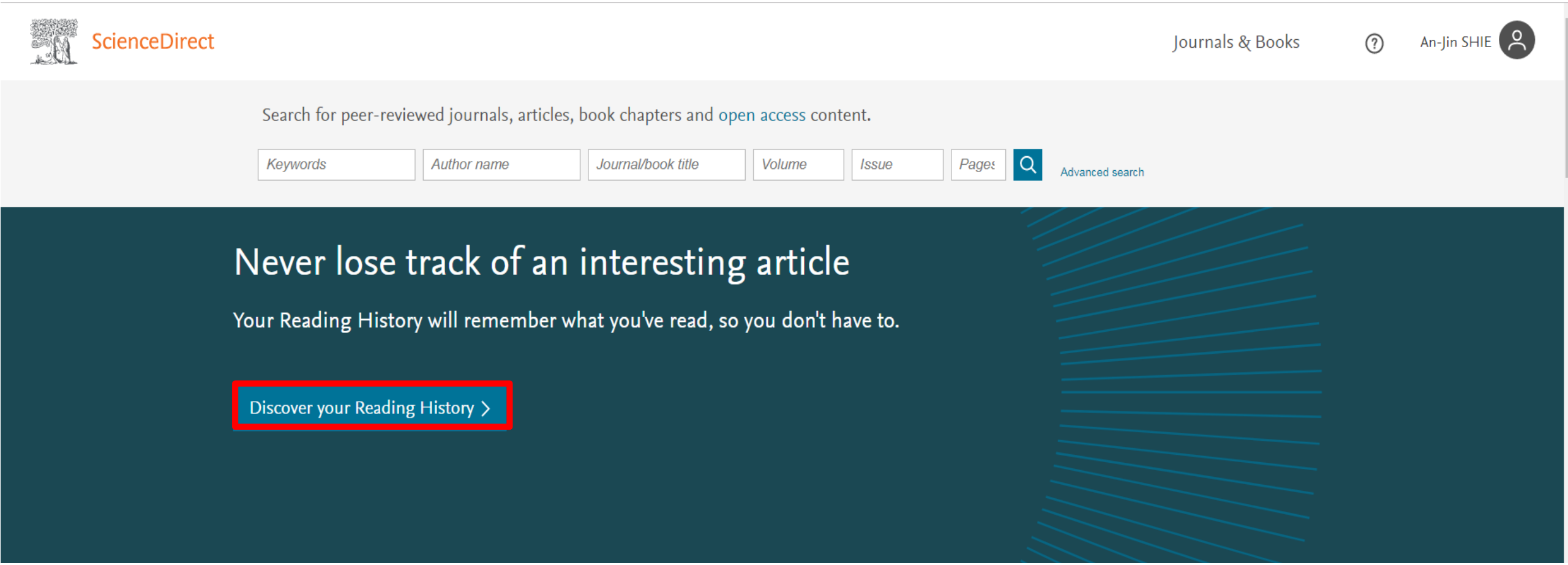
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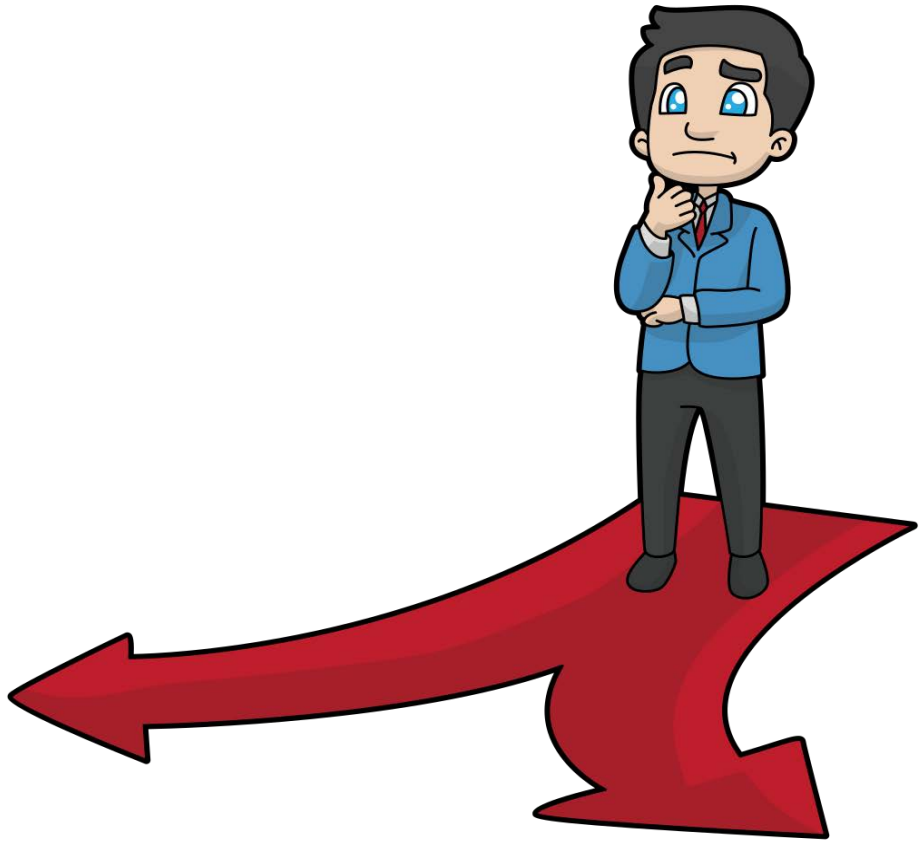
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Table 13 The present study's similarities and innovations compared with the previous studies by using fuzzy in service design

Source	Fields	Similarities with the previous studies
Chowdhury, Quaddus [39]; Behdioğlu et al. [37];	Healthcare service	Employing the triangular fuzzy number for alleviating an ambiguous expression of the participants' opinions
Sun et al. [27];		Using a fuzzy probability range with the decision-making attributes of the expert.
Sun et al. [61];		
Karami et al. [62]		Utilizes fuzzy linguistic variables
Tooranloo, Ayatollah [24]; Dincer, Yuksel [28]; Dinçer, Yüksel [63]; Dincer et al. [64];	Banks service	Combining with service performance evaluation and decision marketing methods such as SERVQUAL, Kano model, AHP, ANP, TOPSIS, and QFD
de Aquino et al. [42]	Transportation	Calculating the relationship between customer requirement and service design strategies by using a triangular fuzzy number
Ljubojevic et al. [41]		
Del Chiappa et al. [65];	Marketing and Retailer	
Xu et al. [38]		
Hsu [66]	Cinema	
Mishra et al. [67]; Vaziri, Beheshtinia [68]	Insurance service	

Source	Fields	Innovations with the present study
Present study	Healthcare service	Proposing a design decision model for new service conceptualization
		Incorporating with qualitative and quantitative methods based on the fuzzy-FMEA approach
		Developing a service failures assessment method by fuzzy-FMEA approach
		Establishing a service blueprint of the healthcare service
		Recognizing potential service failures in the healthcare service process
		Eliminating an influence from the ambiguous expression of the participants' opinions with the triangular fuzzy number in determining service failures
		Providing a systematic innovation method to help service designers generate suitable innovative principles for the service conceptualization
		Developing an expert-centered design decision-making to filter the service solutions

you can include a summary table. I think Table by name: Present study similarities and innovations compared with other research works, is more suitable in this section.
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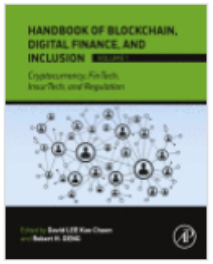
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- The hyphen (or minus symbol) is interpreted as the NOT operator

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- Boolean precedence is as follows:

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  3. OR

- 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)`

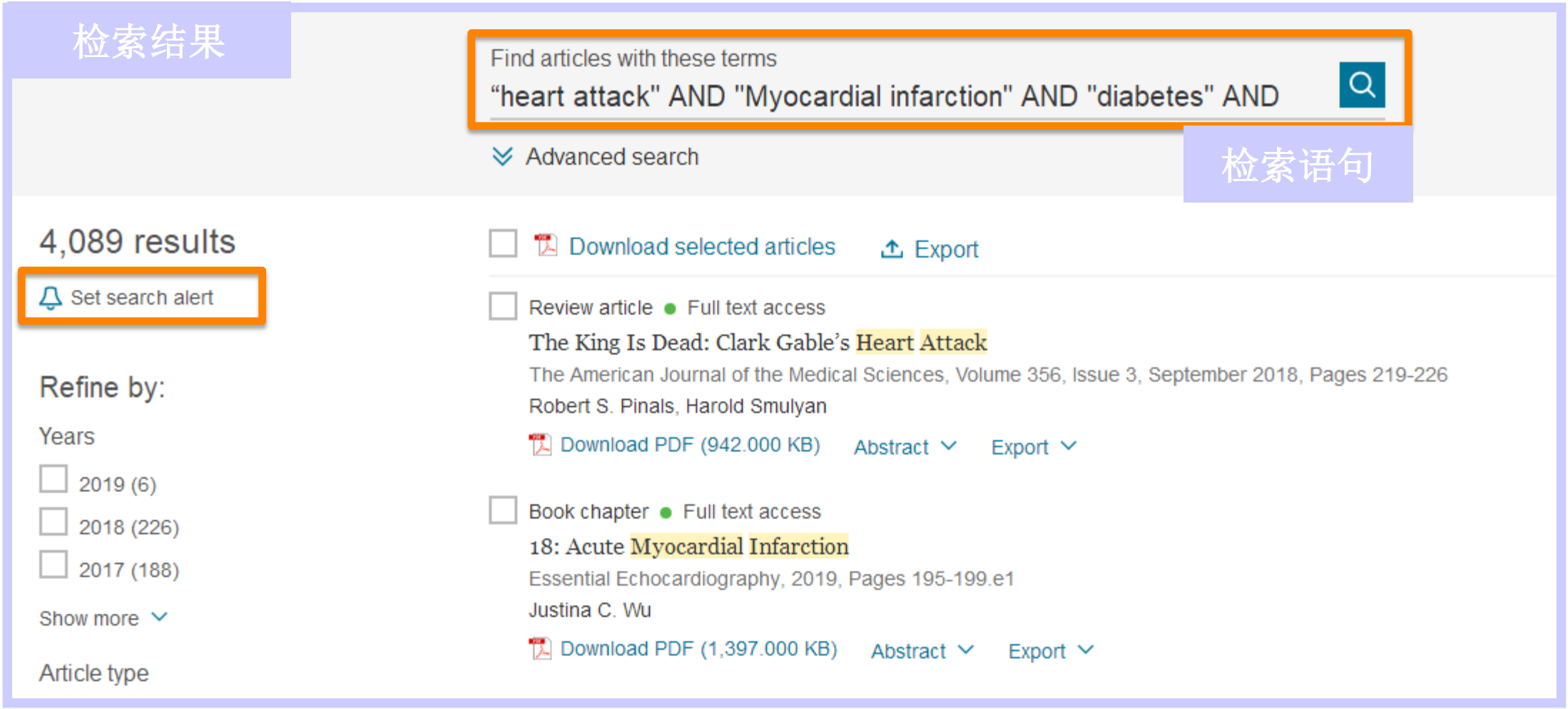
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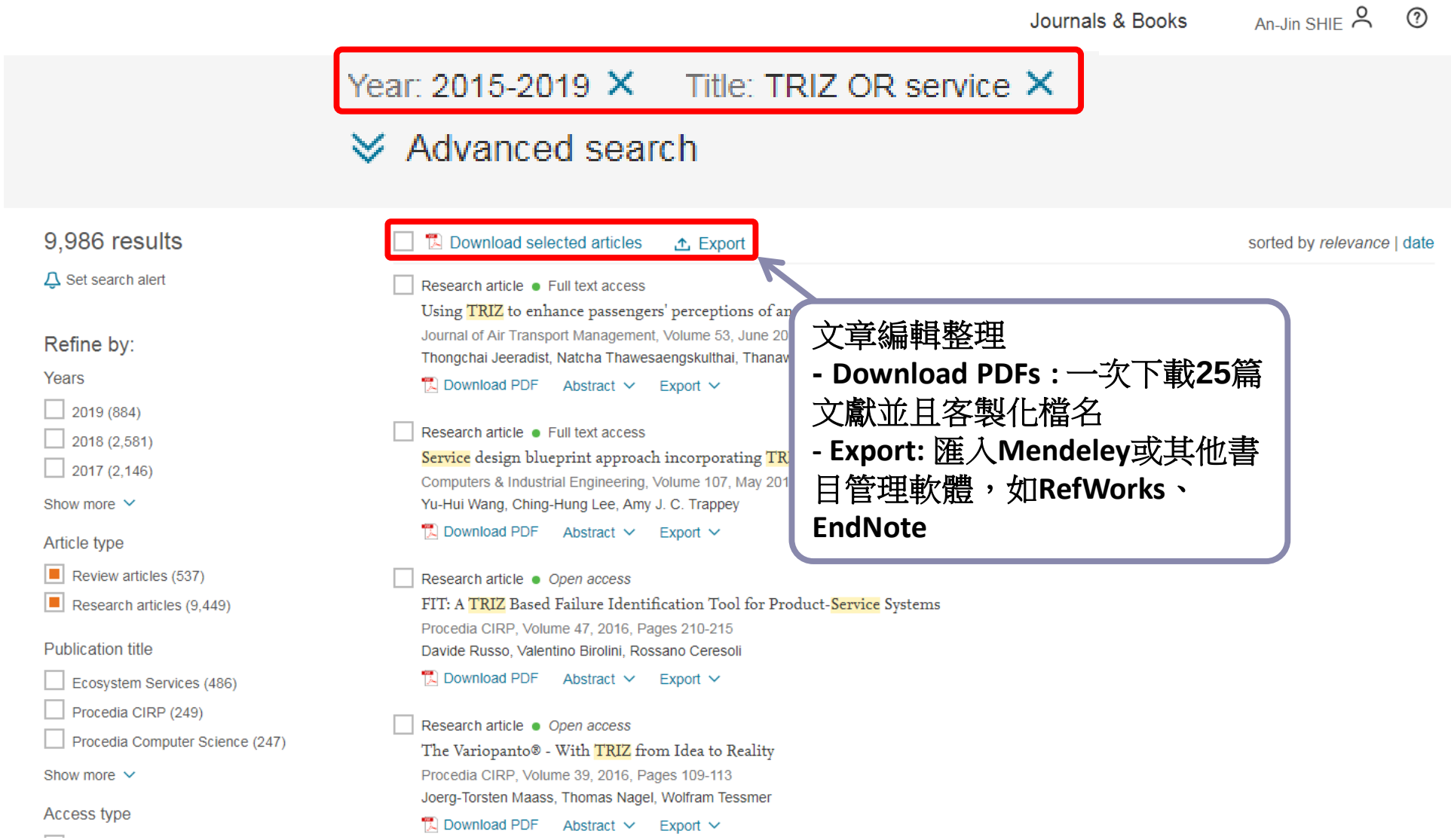
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Abstract

Creativity and innovation are acquiring a foremost importance in the scientific and engineering world. TRIZ offers a systematic approach for problem solving, still it requires creativity abilities when translating the recommendations offered by inventive principles and standard inventive solutions into the specific domain of the problem. Goal of this paper is to show that creativity can be enhanced if the learning process is better understood and how strongly learning and creativity training are linked. The technologist who wants to be a lifelong learner and a creative professional inventor can profit from different techniques that cognitive psychology proved to be effective for learning, like metaphor, story and visualization, focused and diffuse modes of thinking, interleaving and how to overcome Einstellung. Their commonalities and relationships with problem solving

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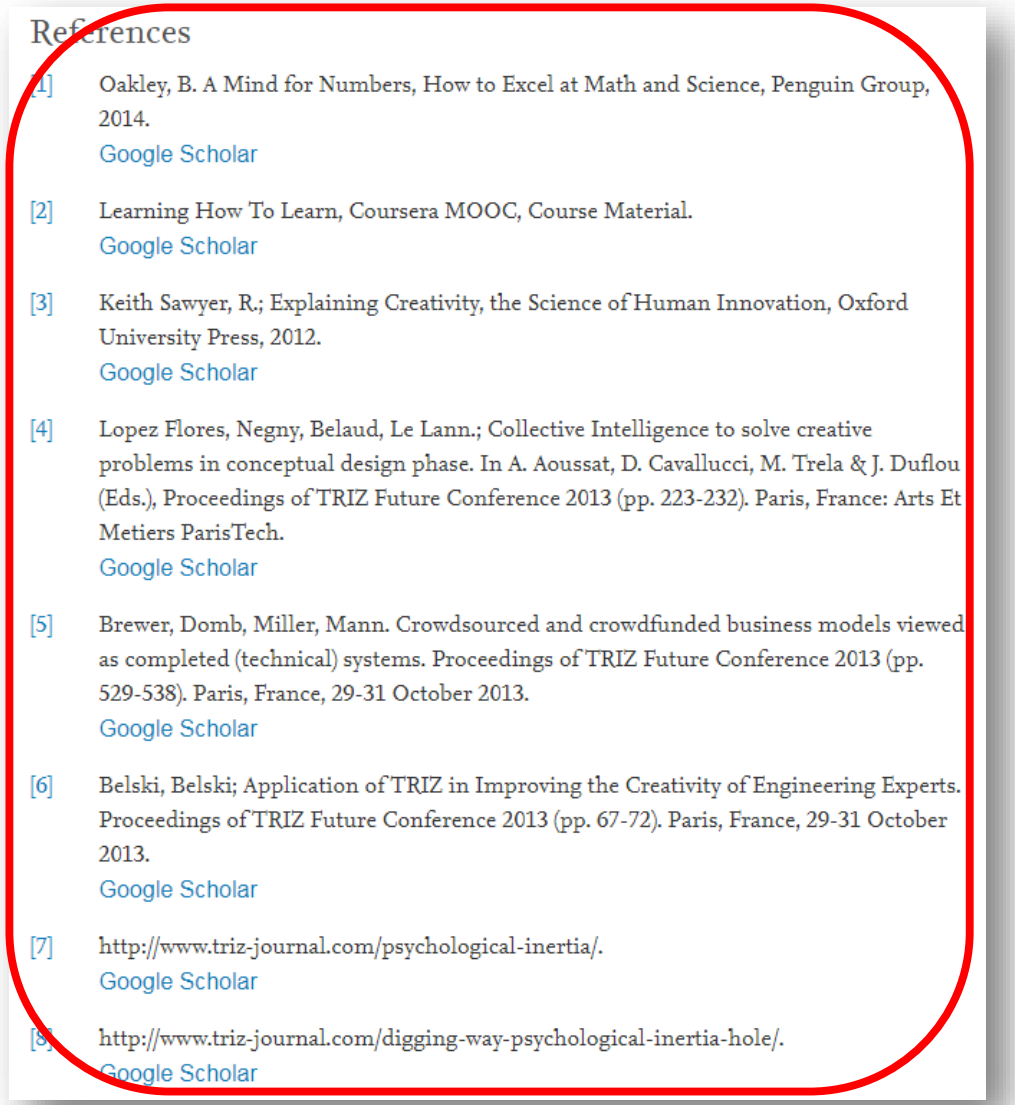
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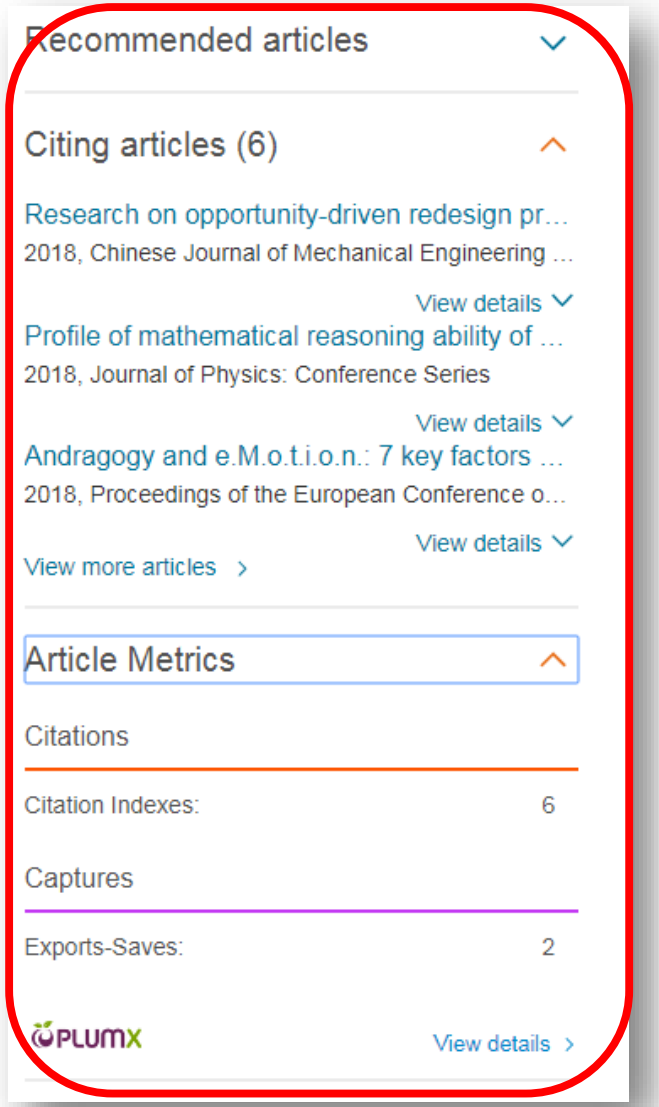
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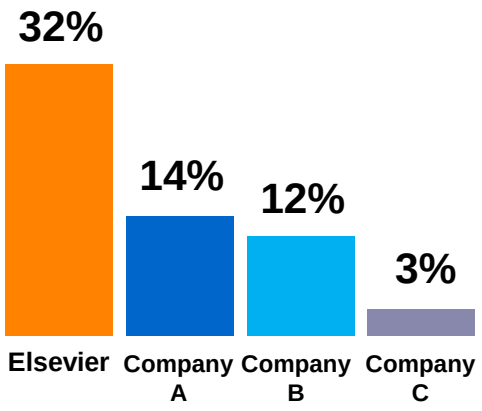
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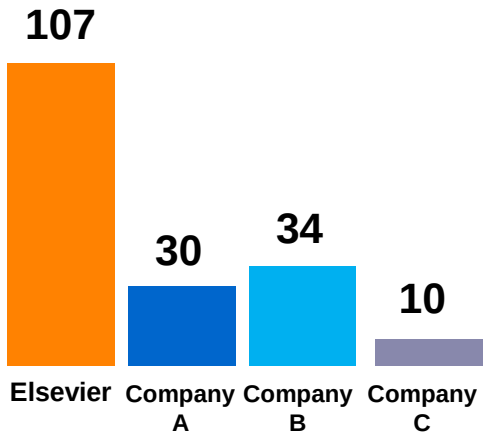
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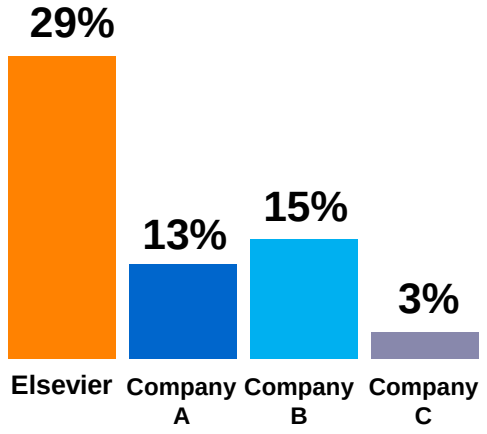


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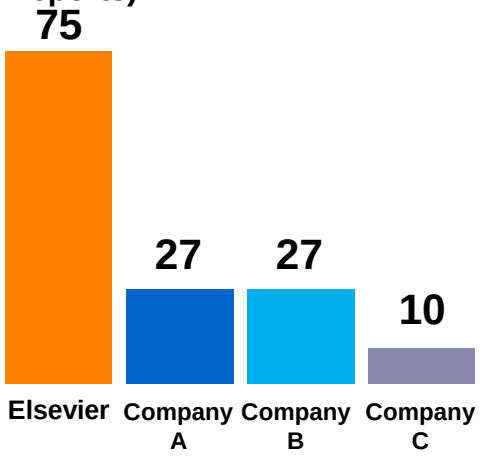
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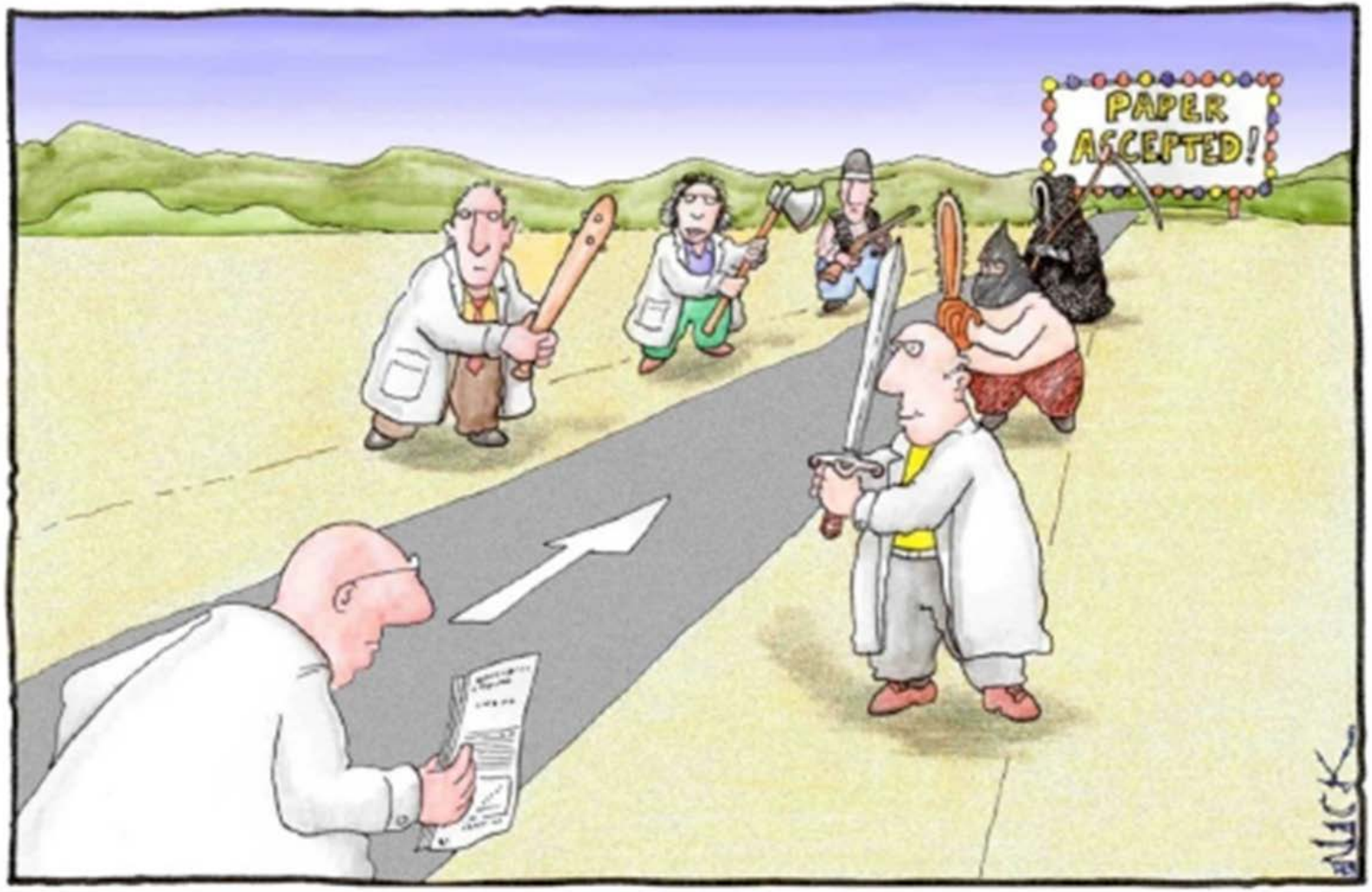
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Design/methodology/approach – This study introduced perceived usefulness and perceived ease of use as intermediate variables. Four sectors in the service industry were selected for research, namely scientific research, technical services and geological prospecting, tourism, and finance industry and education staff. Subsequently, we administered a questionnaire to demonstrate the research framework. In this study, 466 service industry employees were sampled using path analysis.
Findings – The results of this study revealed that perceived ease of use is an intermediate variable between company website quality and company attractiveness. Corporate culture fit was the most crucial factor of company website quality and was proven highly effective for enhancing company attractiveness.
Research implications – employees with higher Technology Readiness (TR) are more conversant regarding how to utilize information provided by company websites. A company's website enables the company to interact with its employees, and the service firm should focus primarily on improving its Perceived Ease of Use (PEOU) to help users retrieve information of interest.
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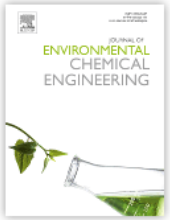
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