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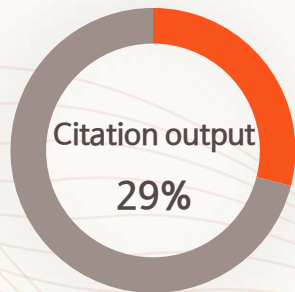
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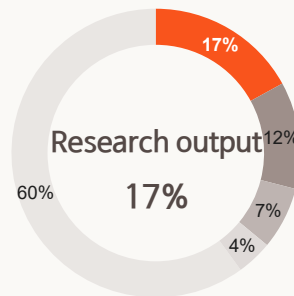
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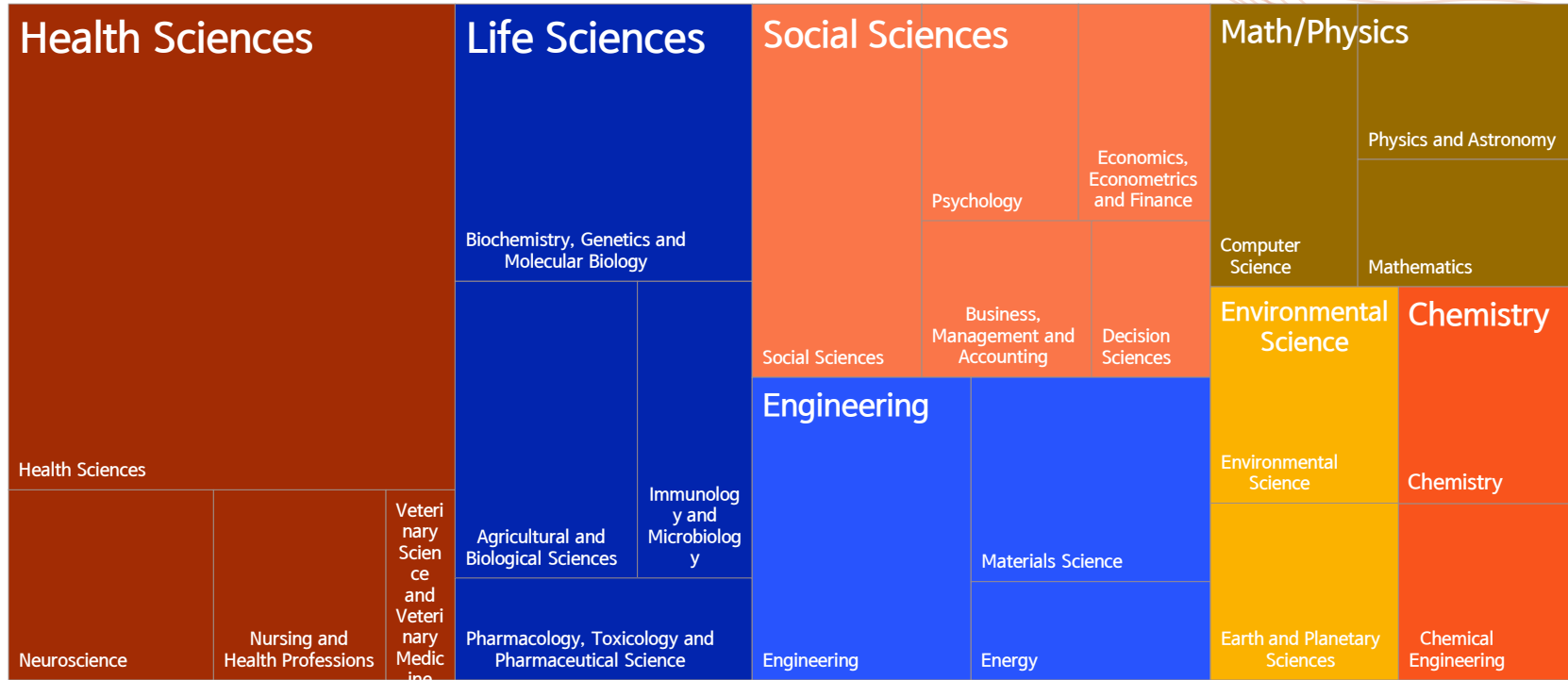
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<p>Article</p> <p>MiR-186-5p Dysregulation Leads to Depression-like Behavior by De-repressing SERPINF1 in Hippocampus</p> <p>Minhu Liang, Yan-feng Guo, Yaolin...</p>	Proteomic analysis	To identify differentially expressed exosomal proteins between major depressive disorder (MDD) patients and healthy control subjects using mass spectrometry-based label-free quantitative proteomics.	Peripheral blood samples from 10 MDD patients and 10 healthy control subjects, exosome isolation and purification, mass spectrometry, bioinformatics analysis.	Exosomes were isolated by sequential centrifugation. Exosomes extracted, digested and analyzed by mass spectrometry. Differentially expressed proteins
<p>Article</p> <p>The Drosophila miR-310 Cluster Negatively Regulates Synaptic Strength at the Neuromuscular Junction</p> <p>Kazuya Tsurudome, Karen Tsang, ... A. Pejmun Haghhighi</p> <p>Neuron • Volume 68 • 2010</p>	Genetic analysis	To evaluate the potential role of the miR-310 cluster in regulating synaptic growth during larval development.	P[GawB]NP5941, P[GawB]NP4255, Df(2R)Exel6070, KT40, KT2	Mobilized the P element [GSV]GSd033 to bp deletion (KT40) the miR-310 cluster precisely excised in control. Performed analysis of all three parallel.
	Electrophysiology	To test whether loss of the miR-310 cluster could influence the functional properties of the NMJ.	w1118, KT40/+, KT40/KT40, KT2/KT2, BG380/+; KT40/KT40; UAS-miR-310 cluster/+	Performed electrophysiology to measure excitatory junction

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Volume 64, Issue 36, 1 September 2008, Pages 8553-8557

Room temperature synthesis of metal-organic frameworks: MOF-5, MOF-74, MOF-177, MOF-199, and IRMOF-0

David J. Tranchemontagne, Joseph R. Hunt, Omar M. Yaghi

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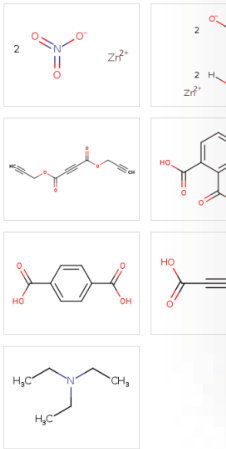
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Abstract

Room temperature synthesis of metal-organic frameworks (MOFs) has been developed for four well-known MOFs: MOF-5, MOF-74, MOF-177, and MOF-199. A new isorecticular metal framework (IRMOF), IRMOF-0, having the same cubic topology as MOF-5, has been synthesized from acetylenedicarboxylic acid using this method to accommodate the

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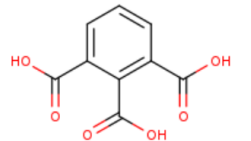
Other chemical names
1,2,3-benzenetricarboxylic acid

Molecular formula
 $C_9H_6O_6$

Molecular weight
210.143

CAS Registry Number
569-51-7

Suppliers Druglikeness Reactions

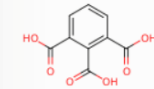


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benzene-1,2,3-tricarboxylic acid
($C_9H_6O_6$) 210.143 2214816 569-51-7

Identification
Druglikeness
Bioactivity (All)
Physical Data - 84
Spectra - 35
Other Data - 17

benzene-1,2,3-tricarboxylic acid

Identification

Chemical Names: benzene-1,2,3-tricarboxylic acid • 1,2,3-benzenetricarboxylic acid

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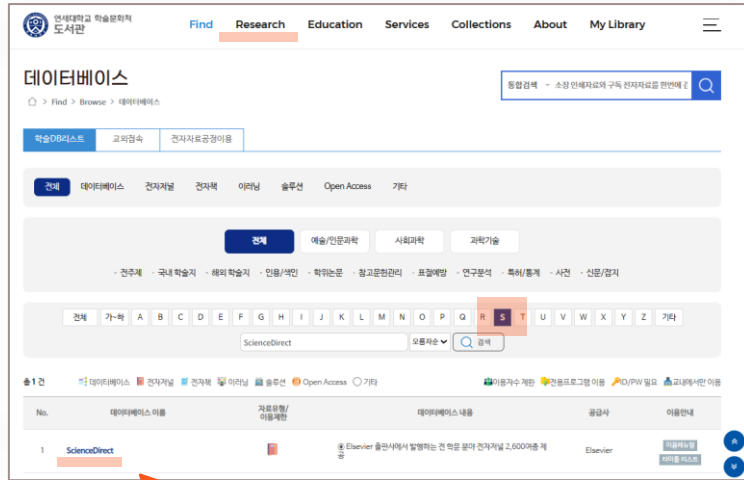


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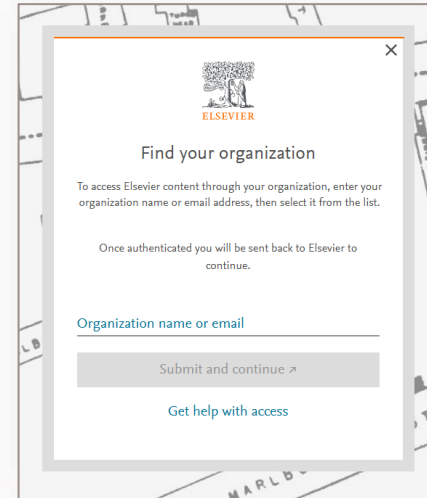
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Chemical Engineering Journal, 1 September 2025
Sara Ahson, Matthew D. Edgar, ... Siddarth H. Krishna

Research article

Defect-mediated spatial confinement of Pt single atoms on photoactive CdIn2S4 octahedrons: Synergistic carrier dynamics optimization for photocatalytic hydrogen production

Chemical Engineering Journal, 1 August 2025
Zihong Chen, Lu Wang, ... Dairong Chen

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Chemical Engineering Journal, Available online 18 June 2025

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AND	aa AND bb	aa와 bb를 둘 다 포함
OR	aa OR bb	aa와 bb 중 하나만 포함
NOT	aa NOT bb	aa는 포함하고 bb는 포함하지 않음
-	aa - bb	NOT과 동일 / aa는 포함하고 bb는 포함하지 않음

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- aa OR bb AND cc OR dd -> (aa OR bb) AND (cc OR dd)

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- Example: ("heart attack" OR "myocardial infarction") AND diabetes AND NOT cancer
- 참고)위의 예시는 -(하이픈)을 사용하여 축약 가능 -> ("heart attack" OR "myocardial infarction") diabetes -cancer

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Kumail Mamate, Stefan Grönkvist
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3 Activity of Fe2O3/CeO2-Al2O3 catalysts/oxygen carrier
Catalysis Today, 1 October 2025
Achmad Ferdiansyah Pradana Putra, Wasim Ullah Khan, ...
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From: [Computer Aided Chemical Engineering](#), 2015

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1.3g Enthalpy (H)

By definition

$$H = U + pV. \quad (1.18)$$

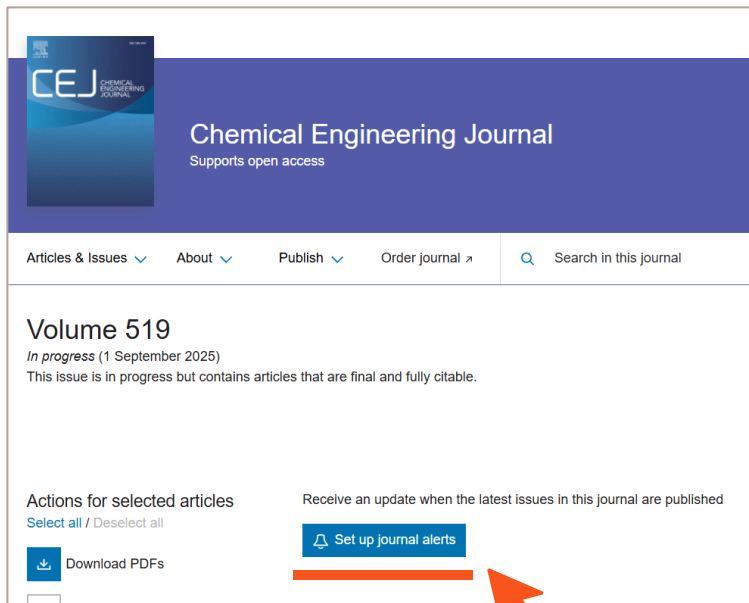
Students often ask, "What is enthalpy?" The answer is simple. Enthalpy is a mathematical function defined in terms of fundamental thermodynamic properties as $H = U + pV$. This

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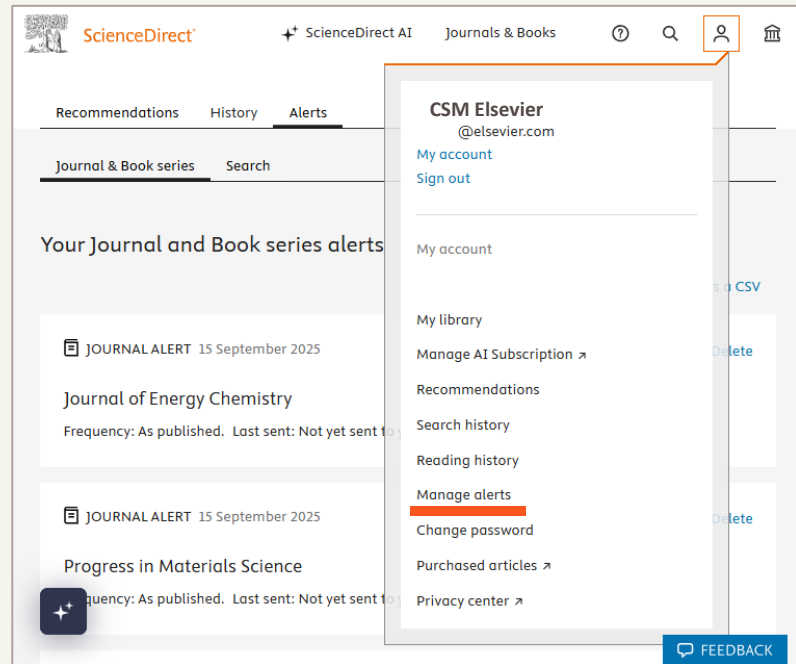
3 Journal Alerts

저널 페이지 내 Alert 설정 가능

“Set up journal alert” 를 설정해 new issue 발행 시 가장 먼저 정보 수신



The screenshot shows the journal page for Chemical Engineering Journal (CEJ). The page includes a header with the journal title and logo, a navigation bar with links like 'Articles & Issues', 'About', 'Publish', and 'Order journal', and a search bar. Below the navigation, it displays 'Volume 519' and 'In progress (1 September 2025)'. At the bottom, there are 'Actions for selected articles' including 'Download PDFs' and a 'Set up journal alerts' button, which is highlighted with a red arrow.



The screenshot shows the ScienceDirect user account menu. The menu is open, displaying various options such as 'My account', 'My library', 'Manage AI Subscription', 'Recommendations', 'Search history', 'Reading history', 'Manage alerts', 'Change password', 'Purchased articles', and 'Privacy center'. The 'Manage alerts' option is highlighted with a red underline. The background shows the 'Your Journal and Book series alerts' section with a list of journal alerts.

[Manage alerts]에서 journal alert을 포함한 전체 Alert 관리

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The screenshot shows a search results page on Elsevier. The search term is "hydrogen carrier". The first result is "Effects of biological carrier optimization on hydrolysis and dark fermentation" by Yufei Fu, Yangfan Song, et al. The second result is "Unlocking Sweden's hydrogen export potential: Sustainable Energy Technologies and Assessments" by Kumail Mamate, Stefan Gronkvist. The third result is "Reactant-dependent stability of supported metal catalysts" by Sara Ahsan, Matthew D. Edgar, et al. A red checkmark is next to the first result. A red arrow points to the "View PDF" button for the second result. Another red arrow points to the "View PDF" button on the article page for "Artificial intelligence in education: A systematic literature review" by Shan Wang, Fang Wang, Zhen Zhu, Jingxuan Wang, Tam Tran, and Zhao Du. The article page shows the journal title "Expert Systems with Applications", volume 252, part A, 15 October 2024, 124167. It includes a "View PDF" button, a "Download full issue" button, and a "Show more" link. The abstract is partially visible at the bottom.

다운로드하지 않고 플랫폼 내에서 직접 열람할 경우 다양한 기능 사용 가능

The screenshot shows the full article page for "Artificial intelligence in education: A systematic literature review" by Shan Wang, Fang Wang, Zhen Zhu, Jingxuan Wang, Tam Tran, and Zhao Du. The journal is "Expert Systems with Applications", Volume 252, Part A, 15 October 2024, 124167. The page includes an "Outline" section with a table of contents: 1. Introduction, 2. Literature review, 3. Bibliometric analysis of AI in education res..., 4. Content analysis, 5. Discussion, 6. Conclusions. There is a "Declaration of competing interest" section stating "Appendix: Impactful papers". The "Data availability" section is empty. The "References" section is empty. The "Cited by (83)" section is empty. The "Figures (11)" section shows 11 figures. The "Abstract" section contains the following text: "Artificial intelligence (AI) in education (AIED) has evolved into a substantial body of literature with diverse perspectives. In this review paper, we seek insights into three critical questions: (1) What are the primary categories of AI applications explored in the education field? (2) What are the predominant research topics and their key findings? (3) What is the state of major research design elements, including guiding theories, methodologies, and research contexts? A bibliometric analysis of 2,223 research articles followed by a content analysis of selected 125 papers reveals a comprehensive conceptual structure of the existing literature. The extant AIED research spans a wide spectrum of applications, encompassing those for adaptive learning and personalized tutoring, intelligent assessment and management, profiling and prediction, and emerging products. Research topics delve into both the technical design of education systems and the examination of the adoption, impacts, and challenges associated with AIED. Furthermore, this review highlights the diverse range of theories applied in the AIED literature, the multidisciplinary nature of publication venues, and underexplored research areas. In sum, this research offers valuable insights for interested scholars to comprehend the current state of AIED research and identify future research opportunities in this dynamic field." The page also includes a "Recommended articles" section with "Cooperative lane-changing for connected autonomous vehicles merging into dedicate..." and "Evaluating the effectiveness of educational data mining techniques for early prediction...". The "Article Metrics" section shows "Citations" (96), "Citation indexes" (76), "Captures" (231), "Mentions" (3), and "News Mentions" (3). The "Open access" logo is visible at the bottom right.

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1 Author profile(저자 프로필)

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* Scopus 비구독 기관도 기본적인 정보 확인 가능

The image shows a composite screenshot of an Elsevier article page and a Scopus author profile page. On the left, the Elsevier article page for 'Artificial intelligence in education: A systematic literature review' is visible. The author list includes 'Fang Wang' with a red box and an arrow pointing to it. On the right, the Scopus author profile for 'Wang, Fang' is shown. A red box highlights the 'More documents by Fang Wang' section, which lists several publications. A text box at the bottom right explains that author metrics can be used to search for related research collaborations.

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Corresponding author.
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Journal of Consumer Marketing, Volume 42, Issue 3, 28 April 2025
Cao, Y., ..., Pei, Y.
The value implication of sellers' following in social marketing: A structural holes perspective
Electronic Commerce Research, Volume 25, Issue 2, April 2025
Wang, S., Wang, F.
Corrigendum to "Lower than expected but still willing to use acceptance toward current intelligent conversational agents"
Information and Management, Volume 62, Issue 2, March 2025
Sohail, M., ..., Yuan, Y.

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2 Recommended articles (추천 논문) 및 TOPIC keyword 연결

Expert Systems with Applications
Volume 252, Part A, 15 October 2024, 124167

Artificial intelligence in education: A systematic literature review

Shan Wang^a, Fang Wang^{b,2}, Zhen Zhu^{a,3}, Jingxuan Wang^c, Tam Tran^a, Zhao Du^d

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Abstract

Artificial intelligence (AI) in education (AIED) has evolved into a substantial body of literature with diverse perspectives. In this review paper, we seek insights into three critical questions: (1) What are the primary categories of AI applications explored in the education field? (2) What are the predominant research topics and their key findings? (3) What is the status of major research design elements, including guiding theories, methodologies, and research contexts? A bibliometric analysis of 2,223 research articles followed by a content analysis of selected 125 papers reveals a comprehensive conceptual structure of the existing literature. The extant AIED research spans a wide spectrum of applications, encompassing those for adaptive learning and personalized tutoring, intelligent assessment and management, profiling and prediction, and emerging products. Research topics delve into both the technical design of education systems and the examination of the adoption, impacts, and challenges associated with AIED. Furthermore, this review highlights the diverse range of theories applied in the AIED literature, the multidisciplinary nature of publication venues, and underexplored research areas. In sum, this research offers valuable insights for interested scholars to comprehend the current state of AIED research and identify future research opportunities in this dynamic field.

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1. Introduction With the rapid advancement of artificial intelligence, machine vision is increasingly being utilized in teaching quality evaluation (TQE) at colleges and universities [1].

Review Description

Artificial intelligence (AI) in education (AIED) has evolved into a substantial body of literature with diverse perspectives. In this review paper, we seek insights into three critical questions: (1) What are the primary categories of AI applications explored in the education field? (2) What are the predominant research topics and their key findings? (3) What is the status of major research design elements, including guiding theories, methodologies, and research contexts? A bibliometric analysis of 2,223 research articles followed by a content analysis of selected 125 papers reveals a comprehensive conceptual structure of the existing literature. The extant AIED research spans a wide spectrum of applications, encompassing those for adaptive learning and personalized tutoring, intelligent assessment and management, profiling and prediction, and emerging products. Research topics delve into both the technical design of education systems and the examination of the adoption, impacts, and challenges associated with AIED. Furthermore, this review highlights the diverse range of theories applied in the AIED literature, the multidisciplinary nature of publication venues, and underexplored research areas. In sum, this research offers valuable insights for interested scholars to comprehend the current state of AIED research and identify future research opportunities in this dynamic field.

Bibliographic Details

DOI: 10.1016/j.eswa.2024.124167
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