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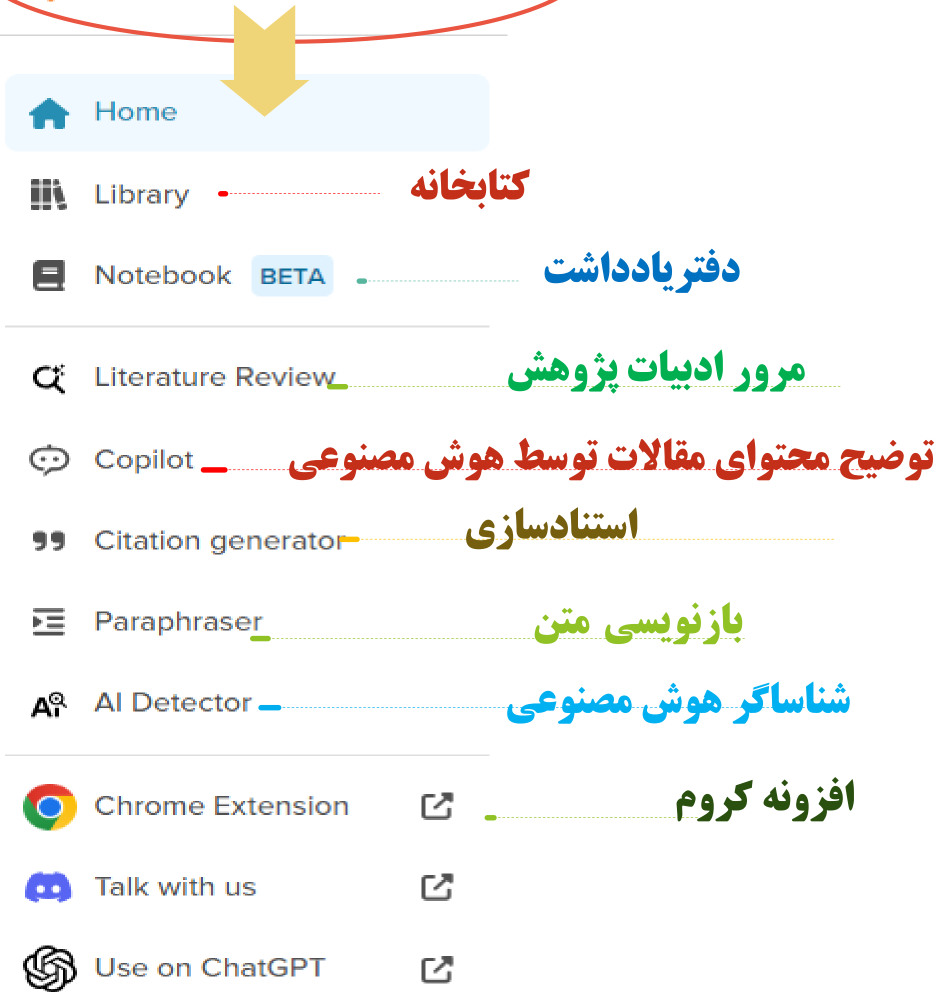
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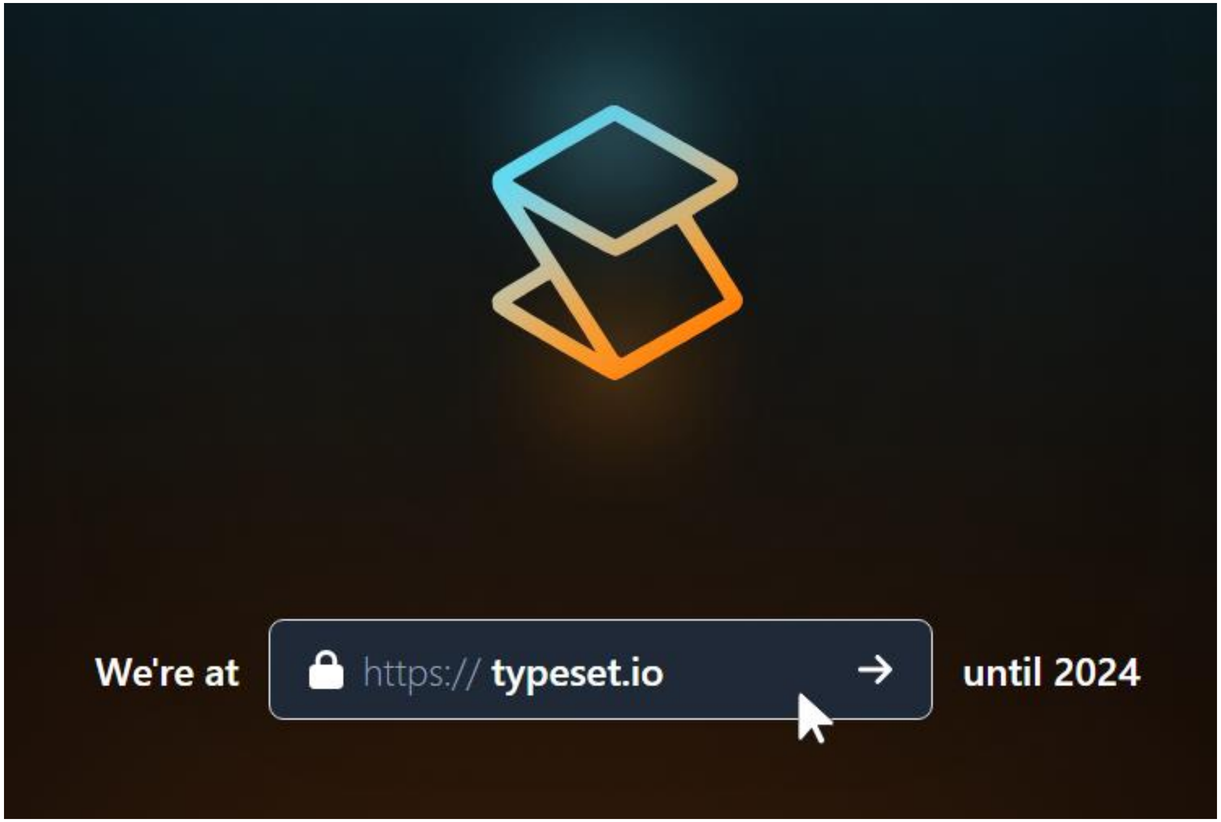
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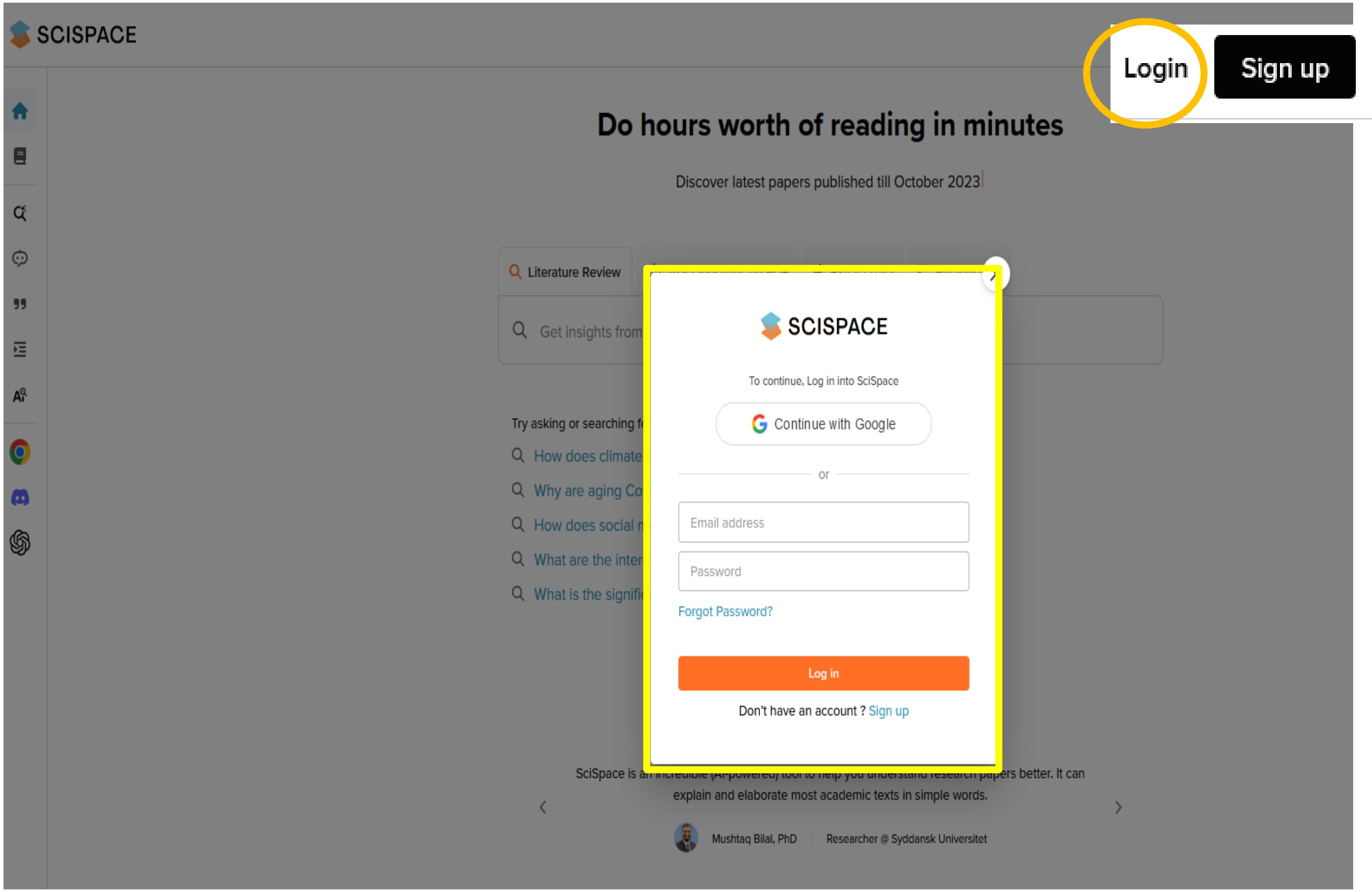
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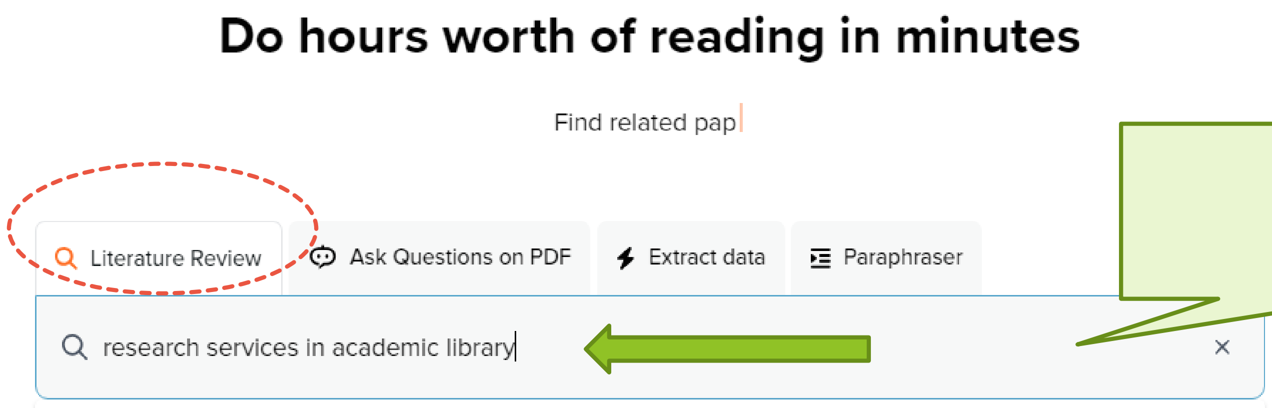

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research services in academic library

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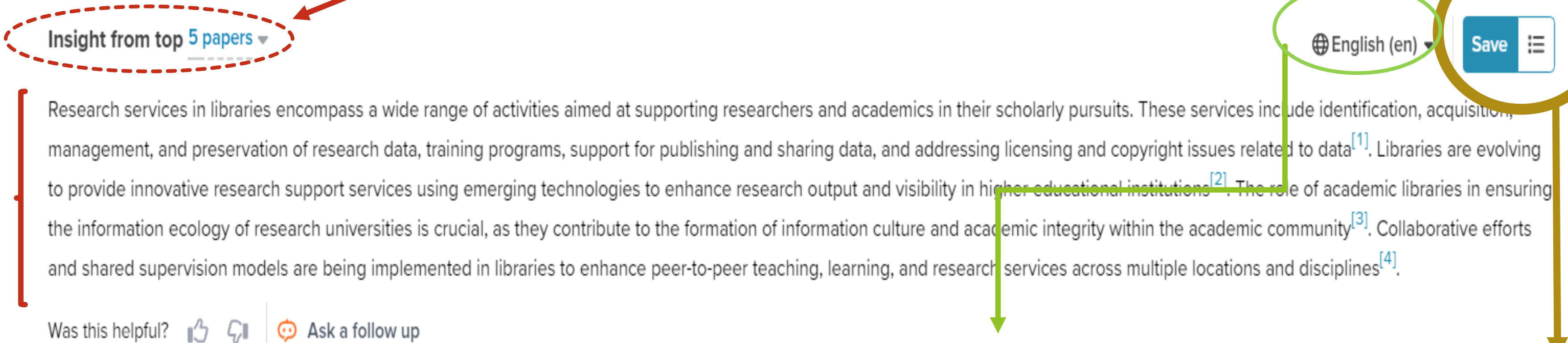

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Research services in libraries encompass a wide range of activities aimed at supporting researchers and academics in their scholarly pursuits. These services include identification, acquisition, management, and preservation of research data, training programs, support for publishing and sharing data, and addressing licensing and copyright issues related to data[1]. Libraries are evolving to provide innovative research support services using emerging technologies to enhance research output and visibility in higher educational institutions[2]. The role of academic libraries in ensuring the information ecology of research universities is crucial, as they contribute to the formation of information culture and academic integrity within the academic community[3]. Collaborative efforts and shared supervision models are being implemented in libraries to enhance peer-to-peer teaching, learning, and research services across multiple locations and disciplines[4].

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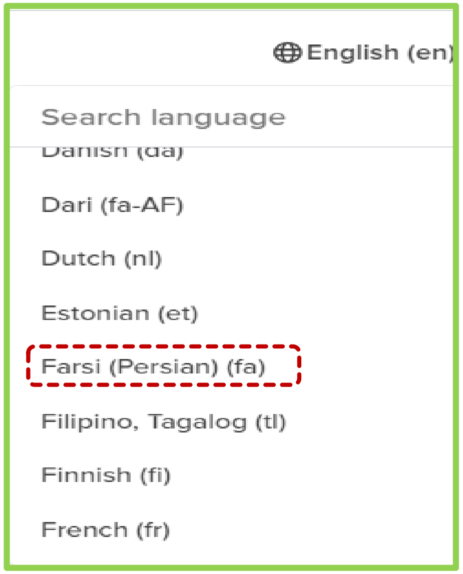

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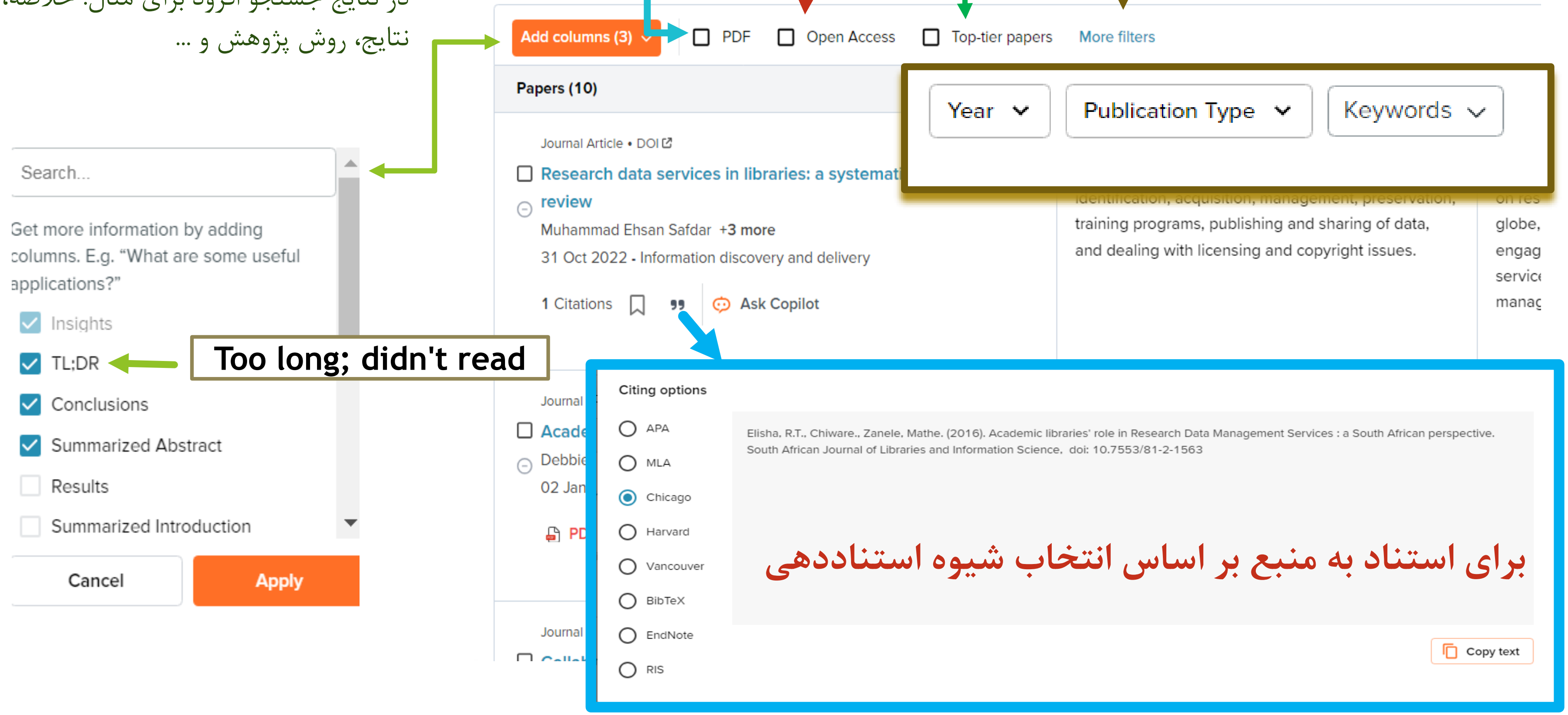

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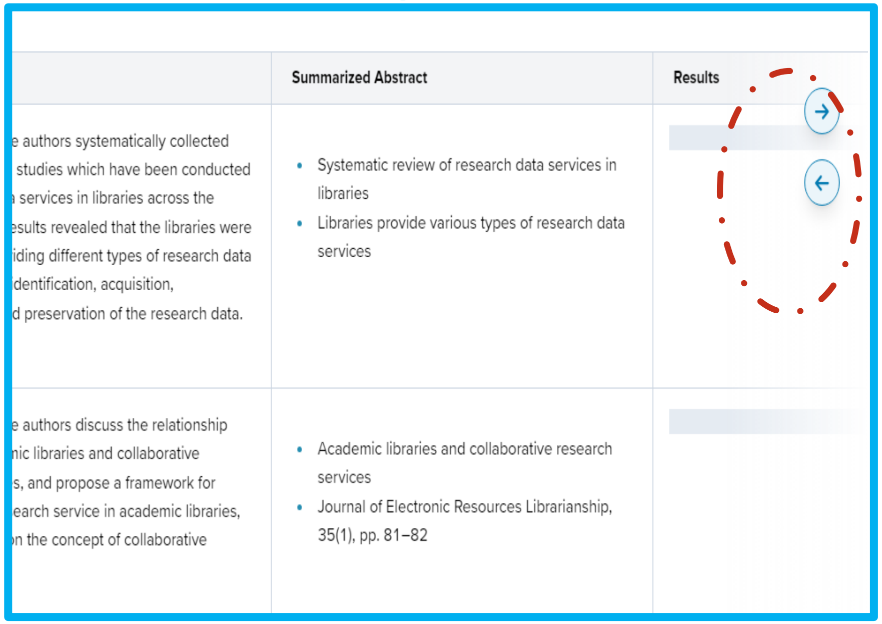

	Summarized Abstract	Results
e authors systematically collected studies which have been conducted services in libraries across the esults revealed that the libraries were iding different types of research data dentification, acquisition, d preservation of the research data.	Systematic review of research data services in libraries Libraries provide various types of research data services	
e authors discuss the relationship nic libraries and collaborative s, and propose a framework for earch service in academic libraries, n the concept of collaborative	Academic libraries and collaborative research services Journal of Electronic Resources Librarianship, 35(1), pp. 81–82	

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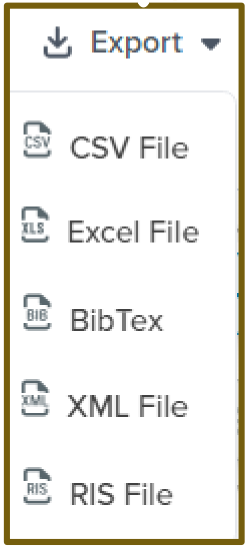
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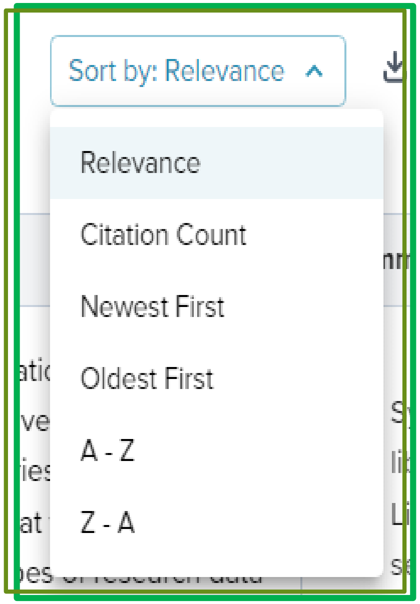
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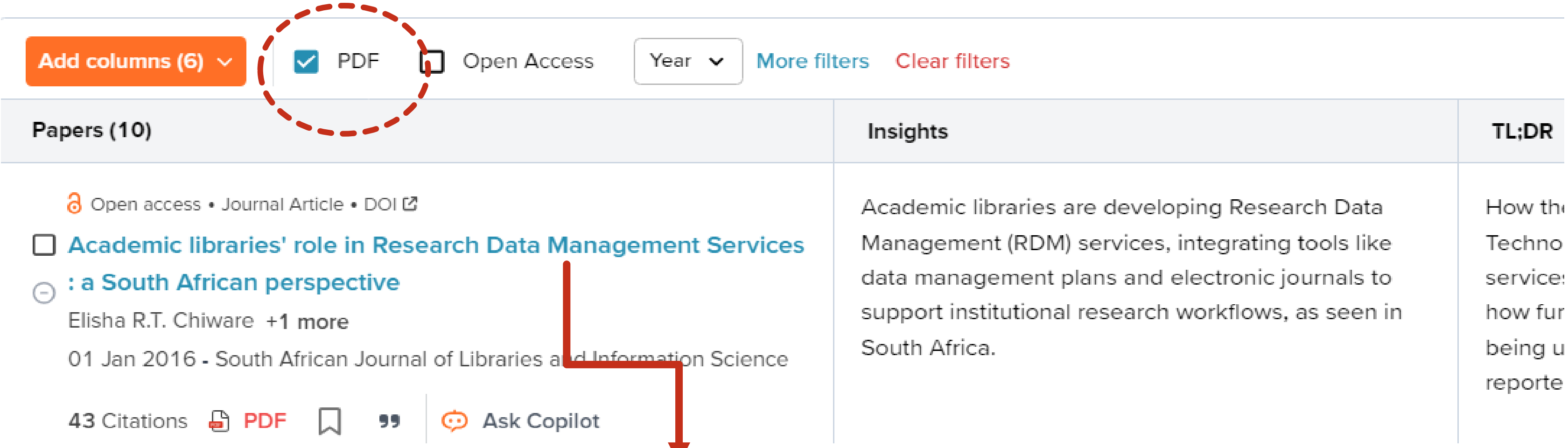

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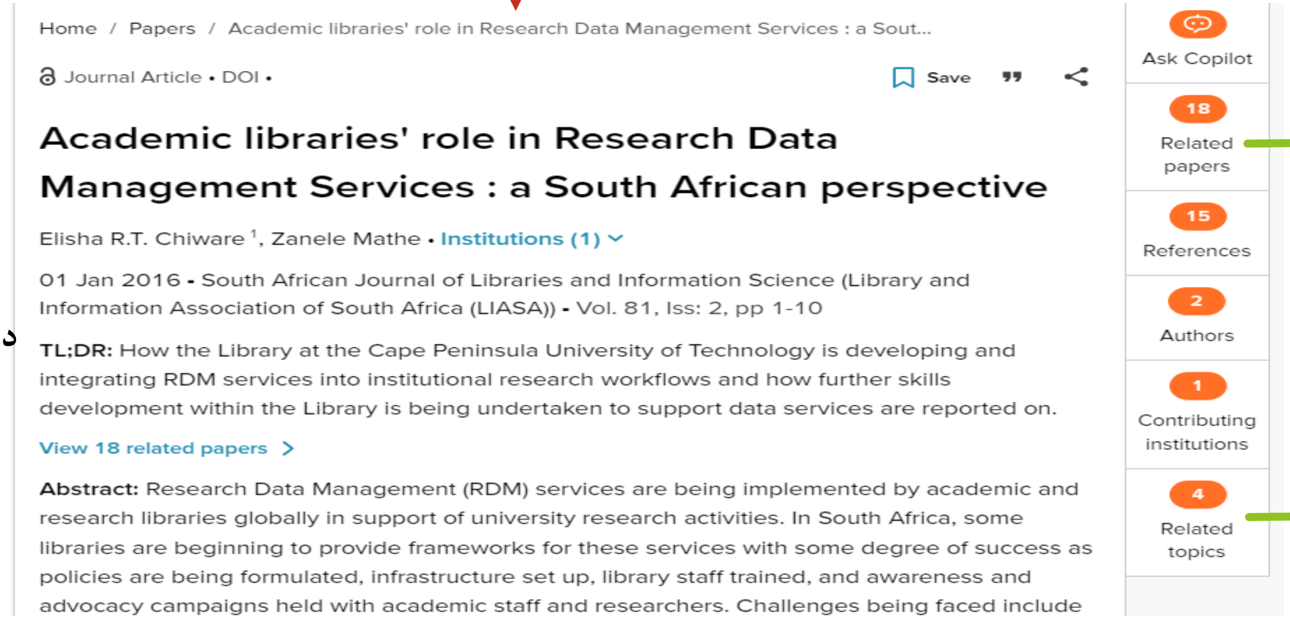
Open access • Journal Article • DOI ☐ Academic libraries' role in Research Data Management Services : a South African perspective Elisha R.T. Chiware +1 more 01 Jan 2016 - South African Journal of Libraries and Information Science 43 Citations PDF Ask Copilot	Academic libraries are developing Research Data Management (RDM) services, integrating tools like data management plans and electronic journals to support institutional research workflows, as seen in South Africa.	How th Techno service how fur being u reporte



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Academic libraries' role in Research Data Management Services : a South African perspective

Elisha R.T. Chiware [1], Zanele Mathe • Institutions (1)

01 Jan 2016 - South African Journal of Libraries and Information Science (Library and Information Association of South Africa (LIASA)) • Vol. 81, Iss: 2, pp 1-10

TL;DR: How the Library at the Cape Peninsula University of Technology is developing and integrating RDM services into institutional research workflows and how further skills development within the Library is being undertaken to support data services are reported on.

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Abstract: Research Data Management (RDM) services are being implemented by academic and research libraries globally in support of university research activities. In South Africa, some libraries are beginning to provide frameworks for these services with some degree of success as policies are being formulated, infrastructure set up, library staff trained, and awareness and advocacy campaigns held with academic staff and researchers. Challenges being faced include

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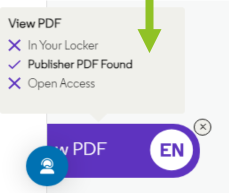

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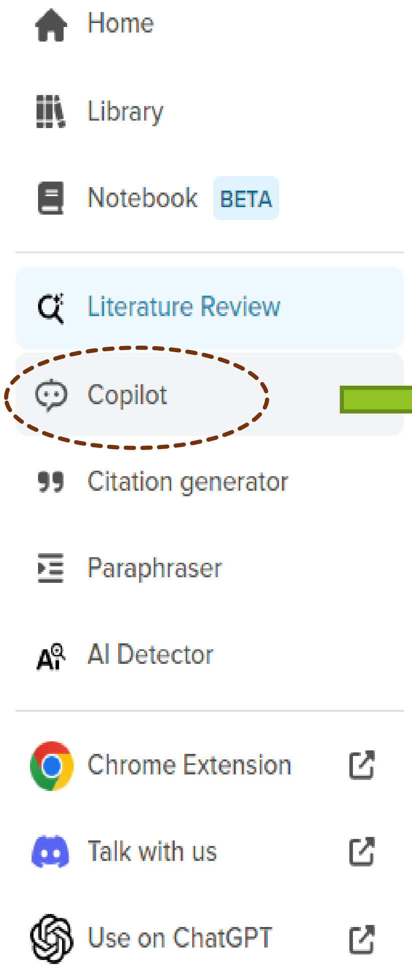
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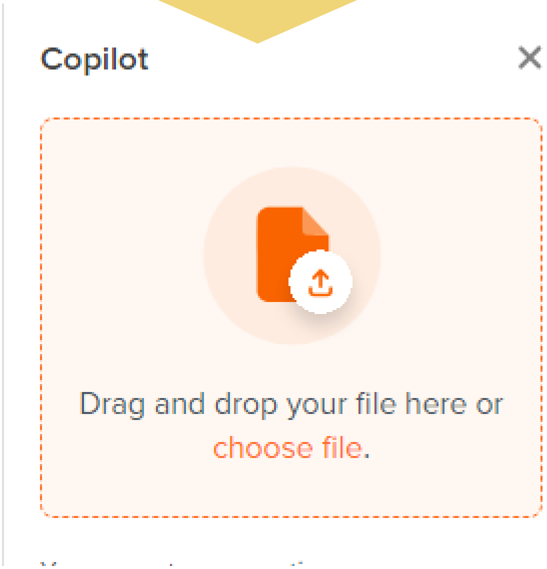

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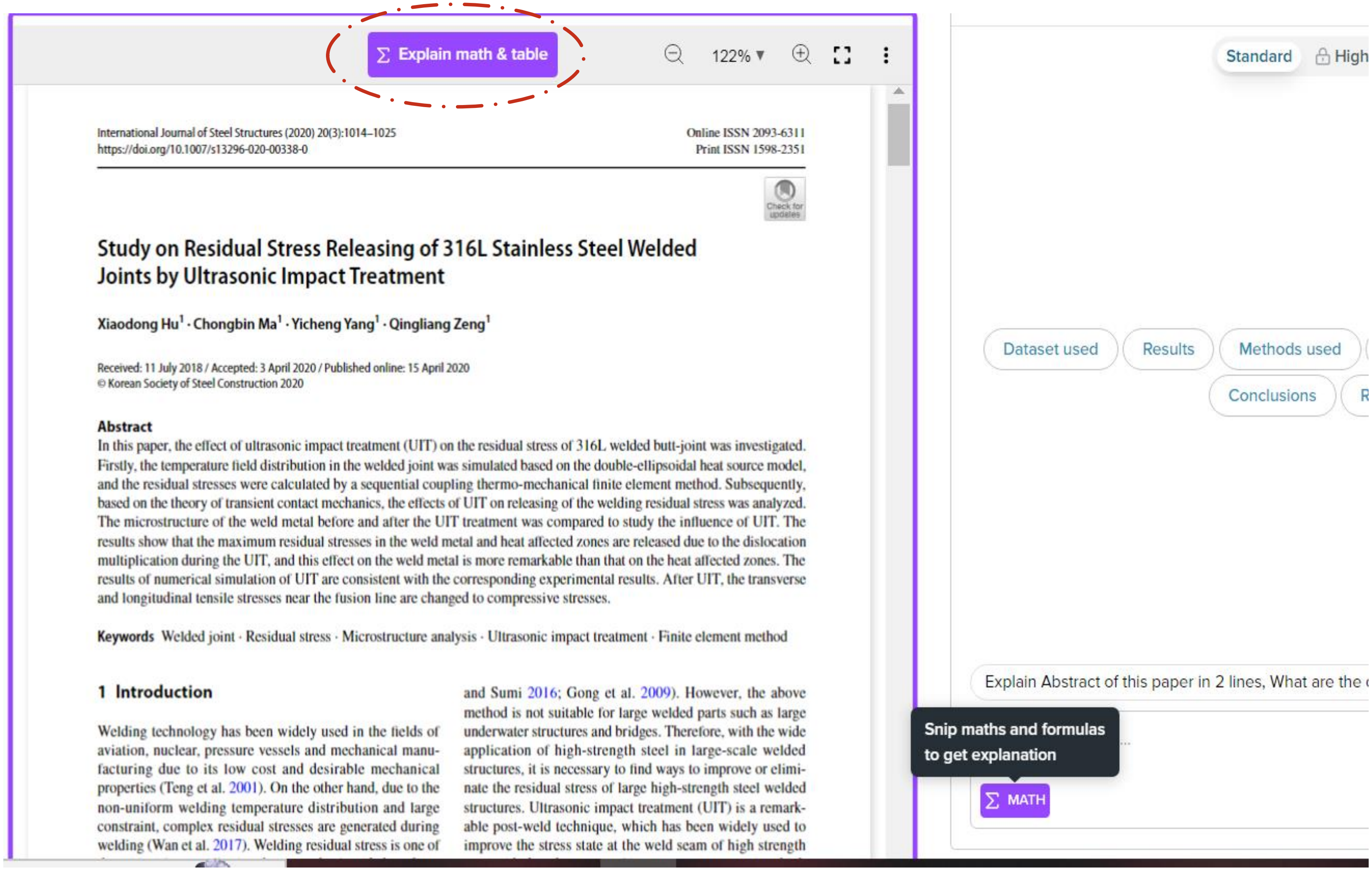

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International Journal of Steel Structures (2020) 20(3):1014–1025
https://doi.org/10.1007/s13296-020-00338-0

Online ISSN 2093-6311
Print ISSN 1598-2351

Study on Residual Stress Releasing of 316L Stainless Steel Welded Joints by Ultrasonic Impact Treatment

Xiaodong Hu[1] · Chongbin Ma[1] · Yicheng Yang[1] · Qingliang Zeng[1]

Received: 11 July 2018 / Accepted: 3 April 2020 / Published online: 15 April 2020
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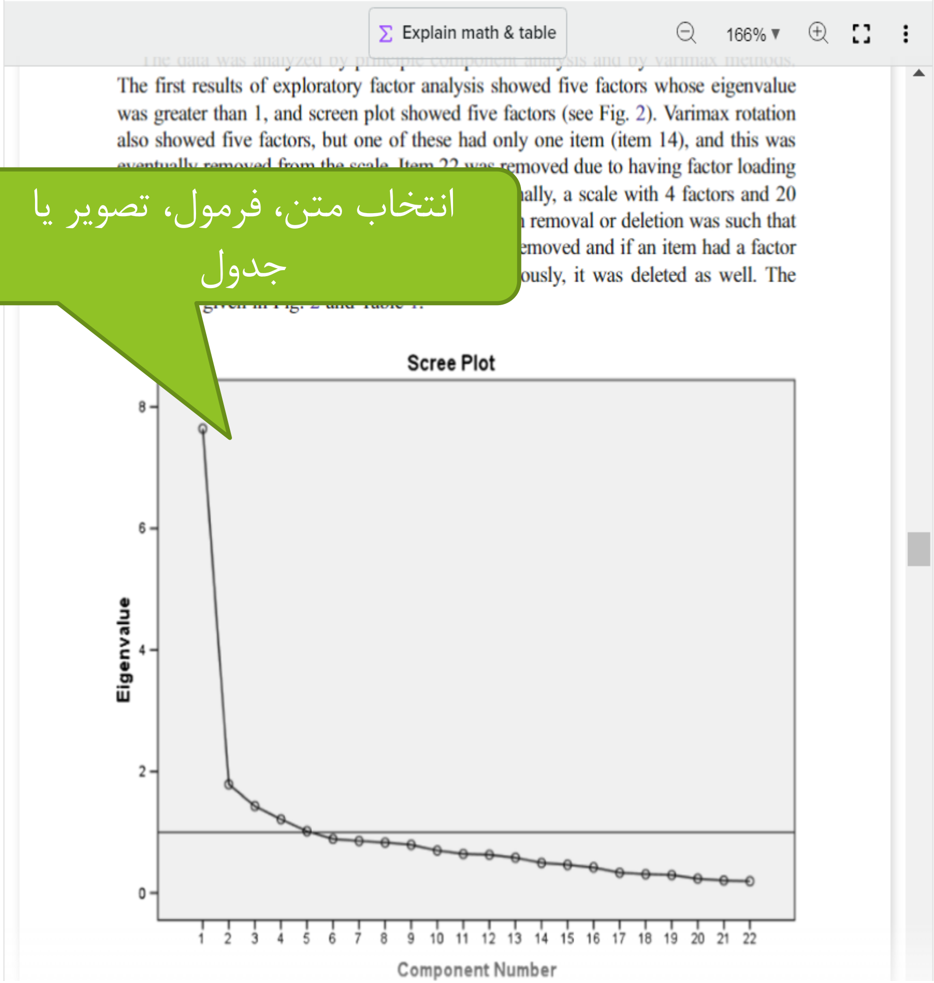
Abstract
In this paper, the effect of ultrasonic impact treatment (UIT) on the residual stress of 316L welded butt-joint was investigated. Firstly, the temperature field distribution in the welded joint was simulated based on the double-ellipsoidal heat source model, and the residual stresses were calculated by a sequential coupling thermo-mechanical finite element method. Subsequently, based on the theory of transient contact mechanics, the effects of UIT on releasing of the welding residual stress was analyzed. The microstructure of the weld metal before and after the UIT treatment was compared to study the influence of UIT. The results show that the maximum residual stresses in the weld metal and heat affected zones are released due to the dislocation multiplication during the UIT, and this effect on the weld metal is more remarkable than that on the heat affected zones. The results of numerical simulation of UIT are consistent with the corresponding experimental results. After UIT, the transverse and longitudinal tensile stresses near the fusion line are changed to compressive stresses.

Keywords Welded joint · Residual stress · Microstructure analysis · Ultrasonic impact treatment · Finite element method

1 Introduction

Welding technology has been widely used in the fields of aviation, nuclear, pressure vessels and mechanical manufacturing due to its low cost and desirable mechanical properties (Teng et al. 2001). On the other hand, due to the non-uniform welding temperature distribution and large constraint, complex residual stresses are generated during welding (Wan et al. 2017). Welding residual stress is one of

and Sumi 2016; Gong et al. 2009). However, the above method is not suitable for large welded parts such as large underwater structures and bridges. Therefore, with the wide application of high-strength steel in large-scale welded structures, it is necessary to find ways to improve or eliminate the residual stress of large high-strength steel welded structures. Ultrasonic impact treatment (UIT) is a remarkable post-weld technique, which has been widely used to improve the stress state at the weld seam of high strength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The first results of exploratory factor analysis showed five factors whose eigenvalue was greater than 1, and screen plot showed five factors (see Fig. 2). Varimax rotation also showed five factors, but one of these had only one item (item 14), and this was eventually removed from the scale. Item 22 was removed due to having factor loading

ally, a scale with 4 factors and 20

removal or deletion was such that

emoved and if an item had a factor

ously, it was deleted as well. The

given in Fig. 2 and Table 1.

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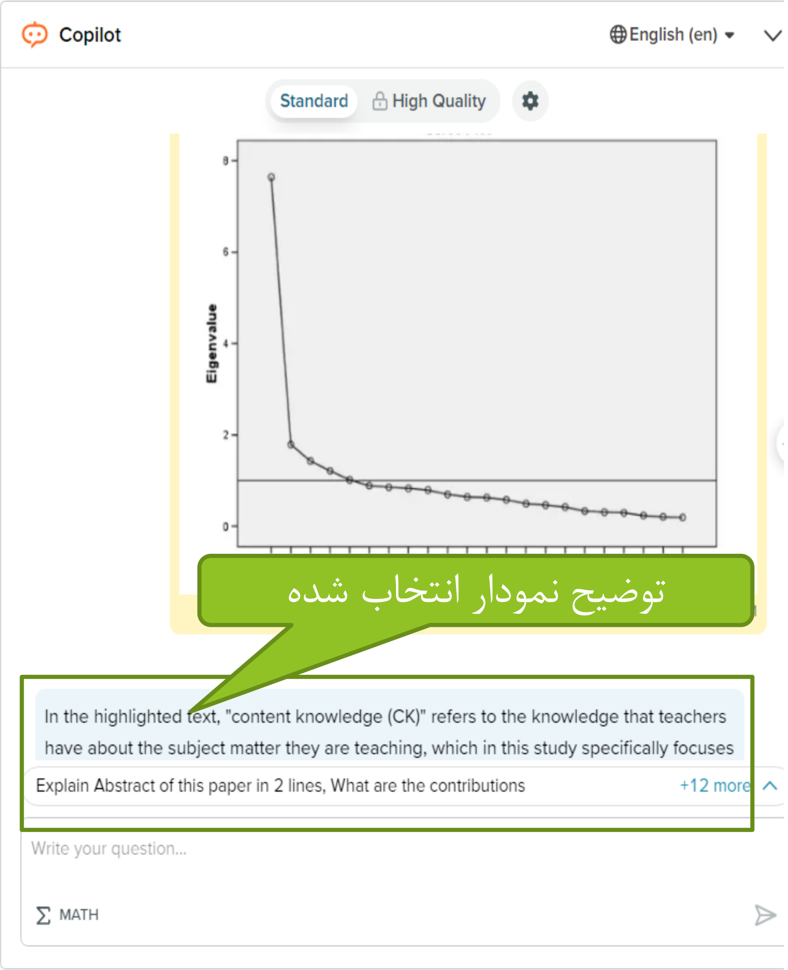
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In the highlighted text, "content knowledge (CK)" refers to the knowledge that teachers have about the subject matter they are teaching, which in this study specifically focuses

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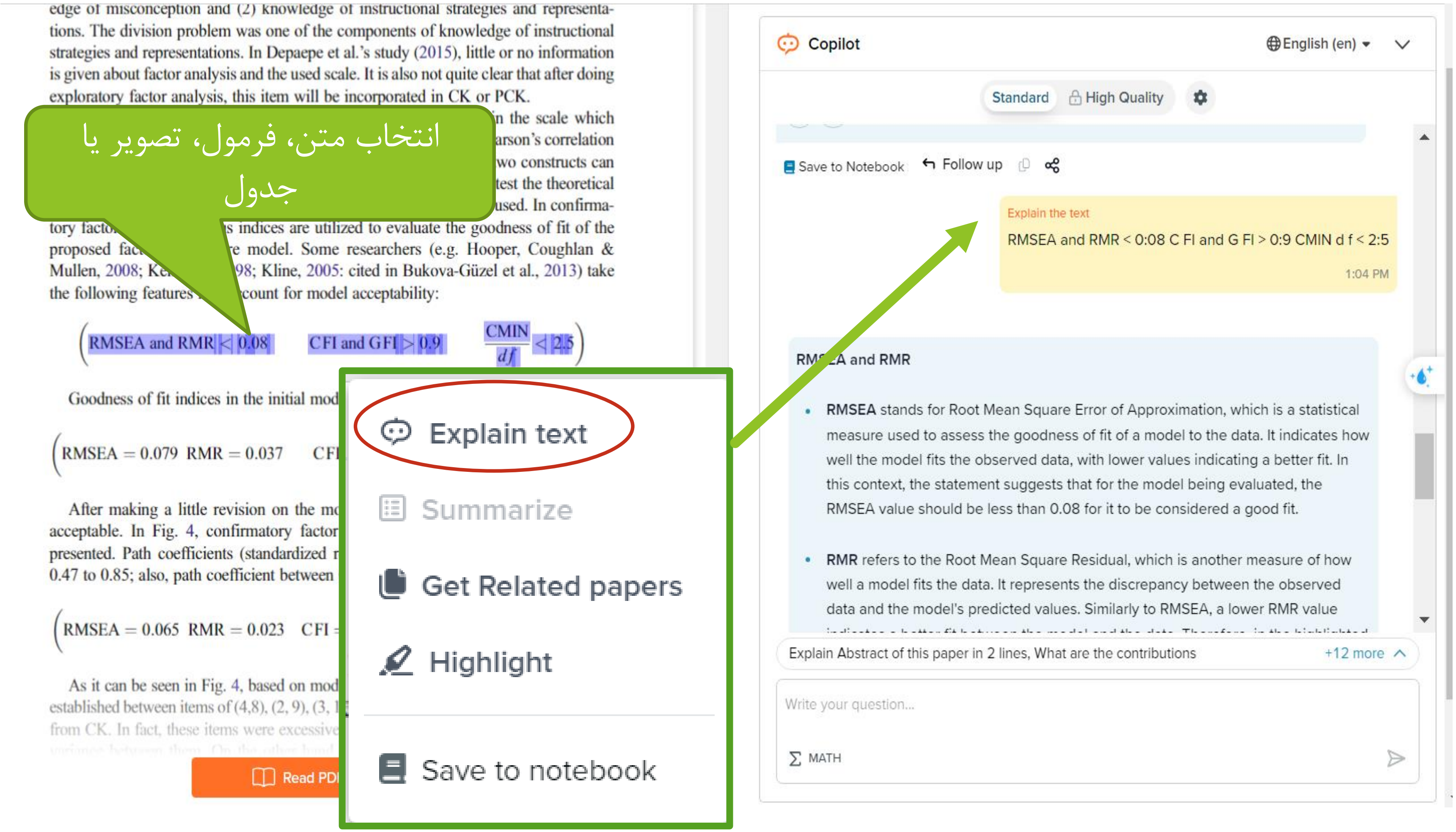

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edge of misconception and (2) knowledge of instructional strategies and representations. The division problem was one of the components of knowledge of instructional strategies and representations. In Depaepe et al.'s study (2015), little or no information is given about factor analysis and the used scale. It is also not quite clear that after doing exploratory factor analysis, this item will be incorporated in CK or PCK.

in the scale which
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used. In confirma-
tory facto s indices are utilized to evaluate the goodness of fit of the
proposed fac e model. Some researchers (e.g. Hooper, Coughlan &
Mullen, 2008; Ke 98; Kline, 2005: cited in Bukova-Güzel et al., 2013) take
the following features count for model acceptability:

$$\left(\text{RMSEA and RMR} < 0.08 \qquad \text{CFI and GFI} > 0.9 \qquad \frac{\text{CMIN}}{df} < 2.5\right)$$

Goodness of fit indices in the initial mod

$$\left(\text{RMSEA} = 0.079 \;\; \text{RMR} = 0.037 \qquad \text{CFI}\right.$$

After making a little revision on the mo
acceptable. In Fig. 4, confirmatory factor
presented. Path coefficients (standardized r
0.47 to 0.85; also, path coefficient between

$$\left(\text{RMSEA} = 0.065 \;\; \text{RMR} = 0.023 \qquad \text{CFI} =\right.$$

As it can be seen in Fig. 4, based on mod
established between items of (4,8), (2, 9), (3, 1
from CK. In fact, these items were excessive

Explain the text

RMSEA and RMR < 0:08 C FI and G FI > 0:9 CMIN d f < 2:5

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RMSEA and RMR

- **RMSEA** stands for Root Mean Square Error of Approximation, which is a statistical measure used to assess the goodness of fit of a model to the data. It indicates how well the model fits the observed data, with lower values indicating a better fit. In this context, the statement suggests that for the model being evaluated, the RMSEA value should be less than 0.08 for it to be considered a good fit.
- **RMR** refers to the Root Mean Square Residual, which is another measure of how well a model fits the data. It represents the discrepancy between the observed data and the model's predicted values. Similarly to RMSEA, a lower RMR value

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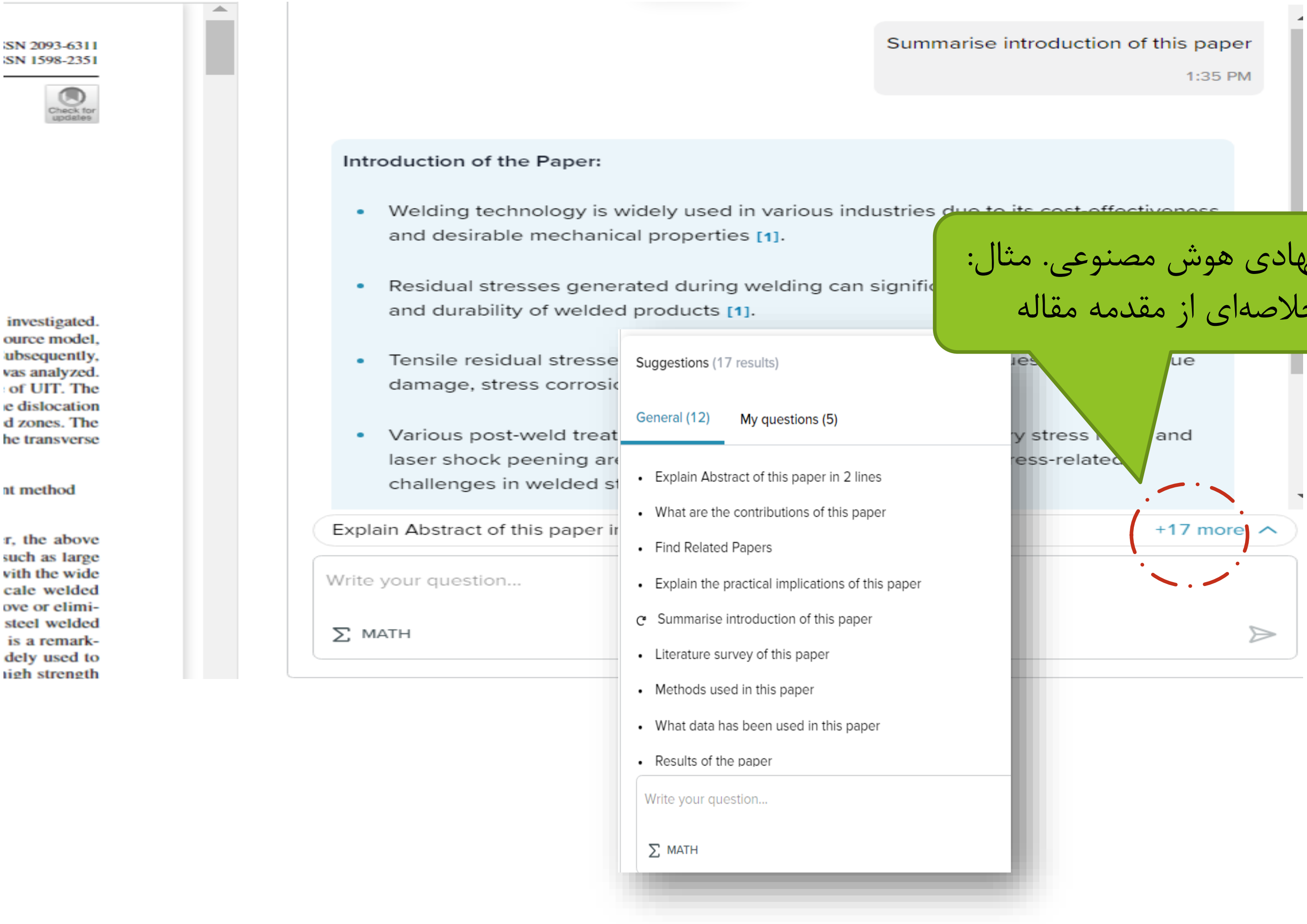

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Introduction of the Paper:

- Welding technology is widely used in various industries due to its cost-effectiveness and desirable mechanical properties [1].
- Residual stresses generated during welding can signific and durability of welded products [1].
- Tensile residual stresse damage, stress corrosio ues ue
- Various post-weld treat y stress and laser shock peening are ress-related challenges in welded st

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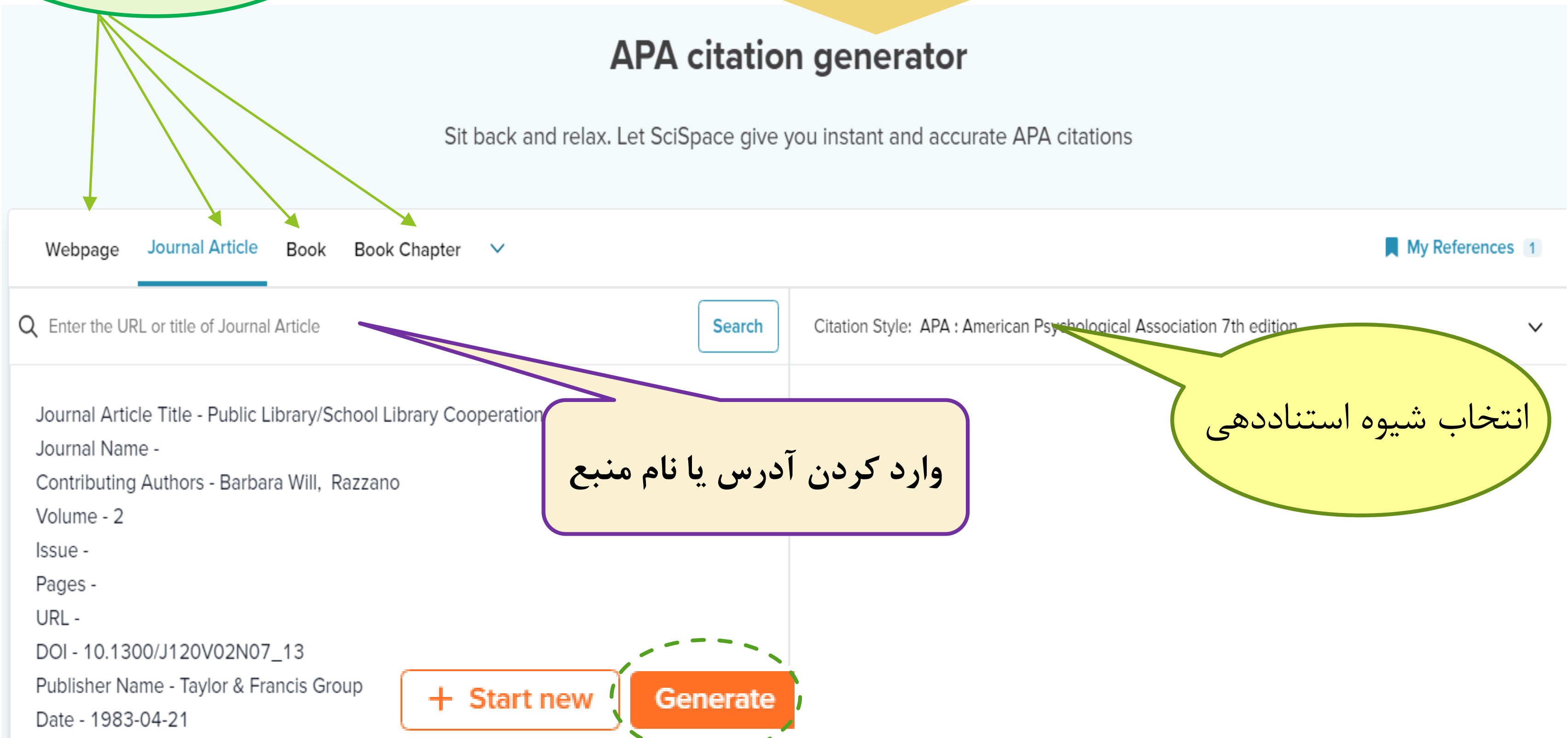
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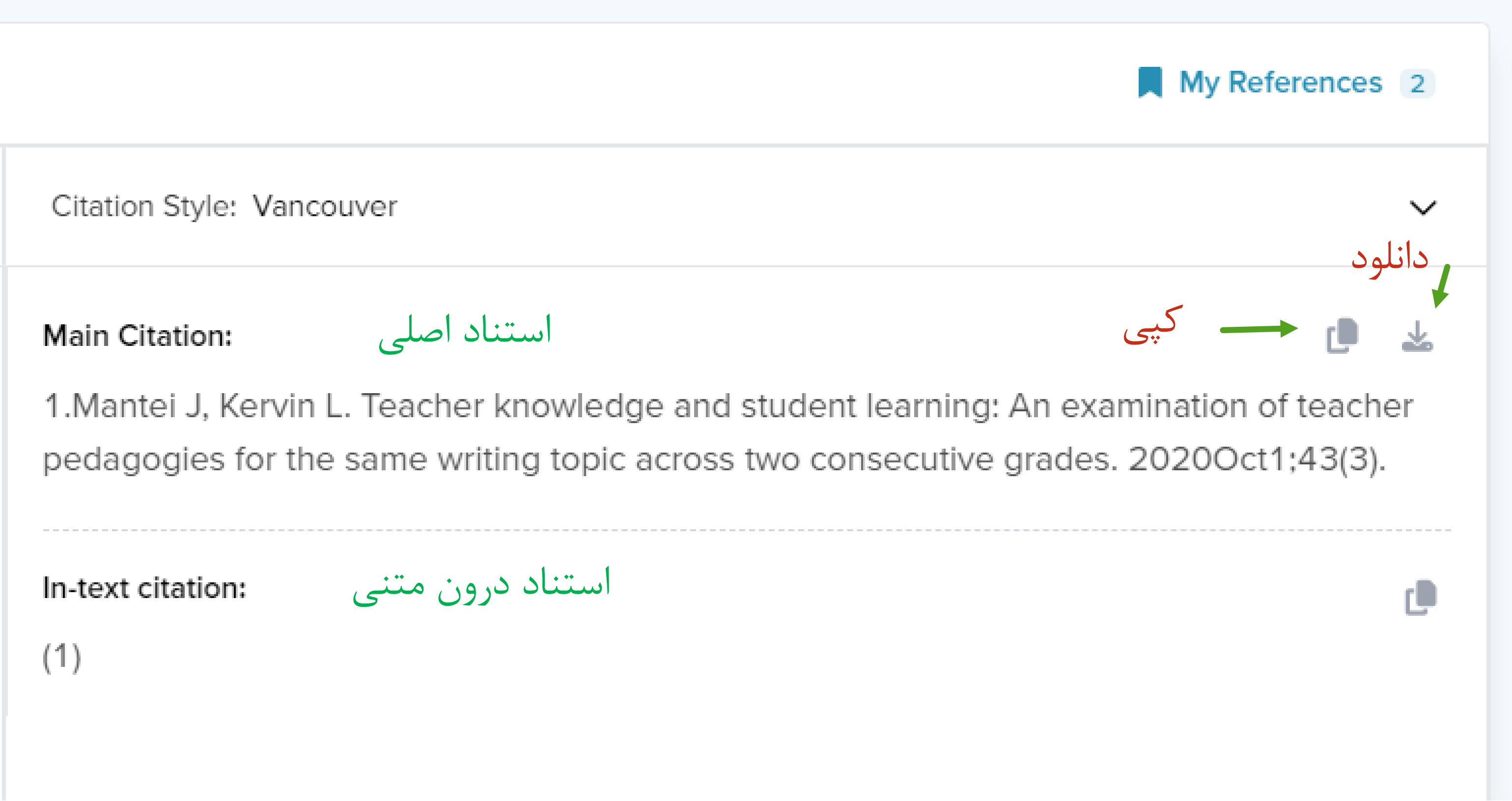

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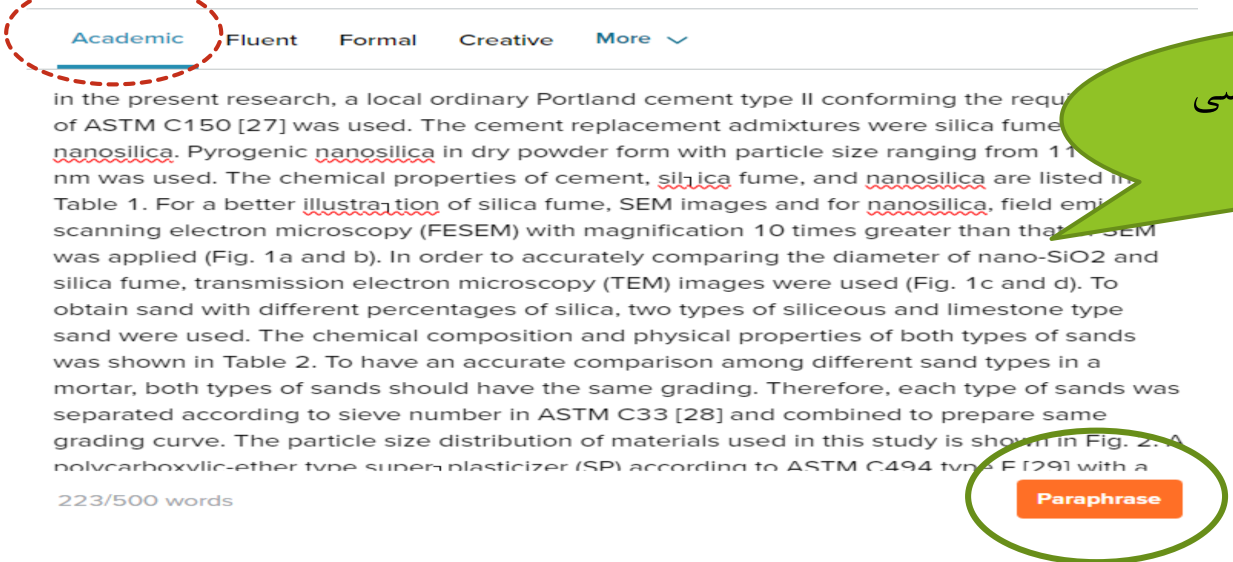

in the present research, a local ordinary Portland cement type II conforming the requ
of ASTM C150 [27] was used. The cement replacement admixtures were silica fume
nanosilica. Pyrogenic nanosilica in dry powder form with particle size ranging from 11
nm was used. The chemical properties of cement, silica fume, and nanosilica are listed in
Table 1. For a better illustration of silica fume, SEM images and for nanosilica, field emi
scanning electron microscopy (FESEM) with magnification 10 times greater than that SEM
was applied (Fig. 1a and b). In order to accurately comparing the diameter of nano-SiO2 and
silica fume, transmission electron microscopy (TEM) images were used (Fig. 1c and d). To
obtain sand with different percentages of silica, two types of siliceous and limestone type
sand were used. The chemical composition and physical properties of both types of sands
was shown in Table 2. To have an accurate comparison among different sand types in a
mortar, both types of sands should have the same grading. Therefore, each type of sands was
separated according to sieve number in ASTM C33 [28] and combined to prepare same
grading curve. The particle size distribution of materials used in this study is shown in Fig. 2. A
polycarboxylic-ether type superplasticizer (SP) according to ASTM C494 type F [29] with a

223/500 words

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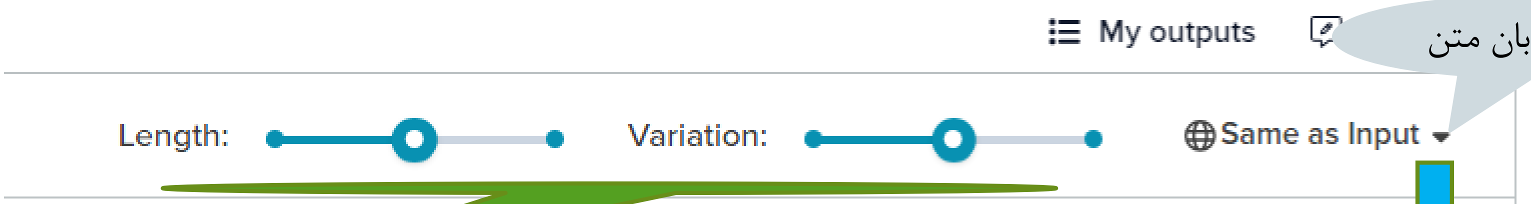
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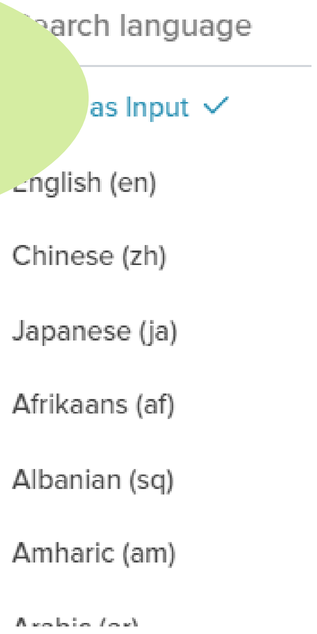
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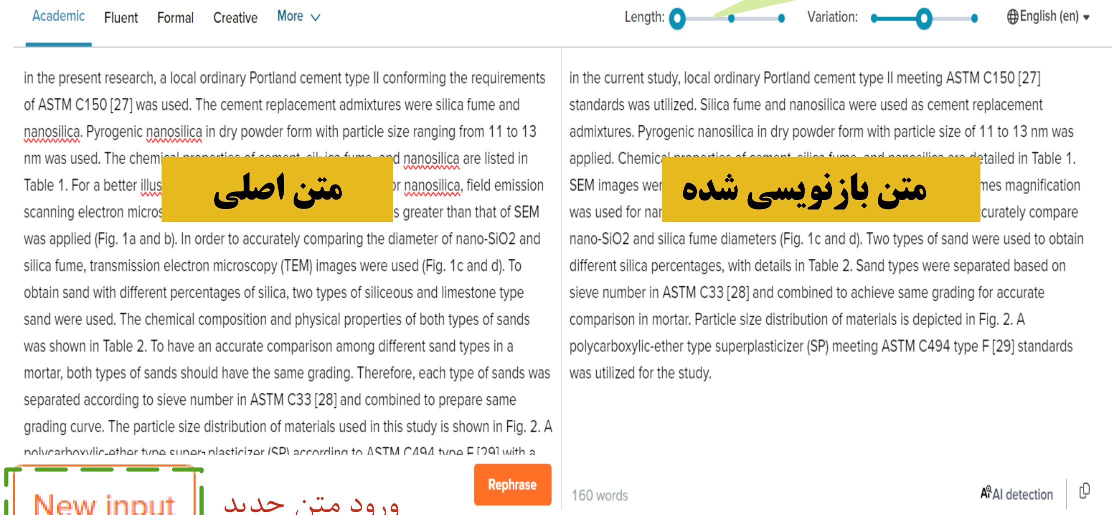
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160 words
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متن اصلی

in the present research, a local ordinary Portland cement type II conforming the requirements
of ASTM C150 [27] was used. The cement replacement admixtures were silica fume and
nanosilica. Pyrogenic nanosilica in dry powder form with particle size ranging from 11 to 13
nm was used. The chemi nanosilica are listed in
Table 1. For a better illus r nanosilica, field emission
scanning electron micros s greater than that of SEM
was applied (Fig. 1a and b). In order to accurately comparing the diameter of nano-SiO2 and
silica fume, transmission electron microscopy (TEM) images were used (Fig. 1c and d). To
obtain sand with different percentages of silica, two types of siliceous and limestone type
sand were used. The chemical composition and physical properties of both types of sands
was shown in Table 2. To have an accurate comparison among different sand types in a
mortar, both types of sands should have the same grading. Therefore, each type of sands was
separated according to sieve number in ASTM C33 [28] and combined to prepare same
grading curve. The particle size distribution of materials used in this study is shown in Fig. 2. A
polycarboxylic-ether type super-plasticizer (SP) according to ASTM C494 type F [29] with a

متن بازنویسی شده

in the current study, local ordinary Portland cement type II meeting ASTM C150 [27]
standards was utilized. Silica fume and nanosilica were used as cement replacement
admixtures. Pyrogenic nanosilica in dry powder form with particle size of 11 to 13 nm was
applied. Chemic etailed in Table 1.
SEM images wer mes magnification
was used for nar curately compare
nano-SiO2 and silica fume diameters (Fig. 1c and d). Two types of sand were used to obtain
different silica percentages, with details in Table 2. Sand types were separated based on
sieve number in ASTM C33 [28] and combined to achieve same grading for accurate
comparison in mortar. Particle size distribution of materials is depicted in Fig. 2. A
polycarboxylic-ether type superplasticizer (SP) meeting ASTM C494 type F [29] standards
was utilized for the study.

New input

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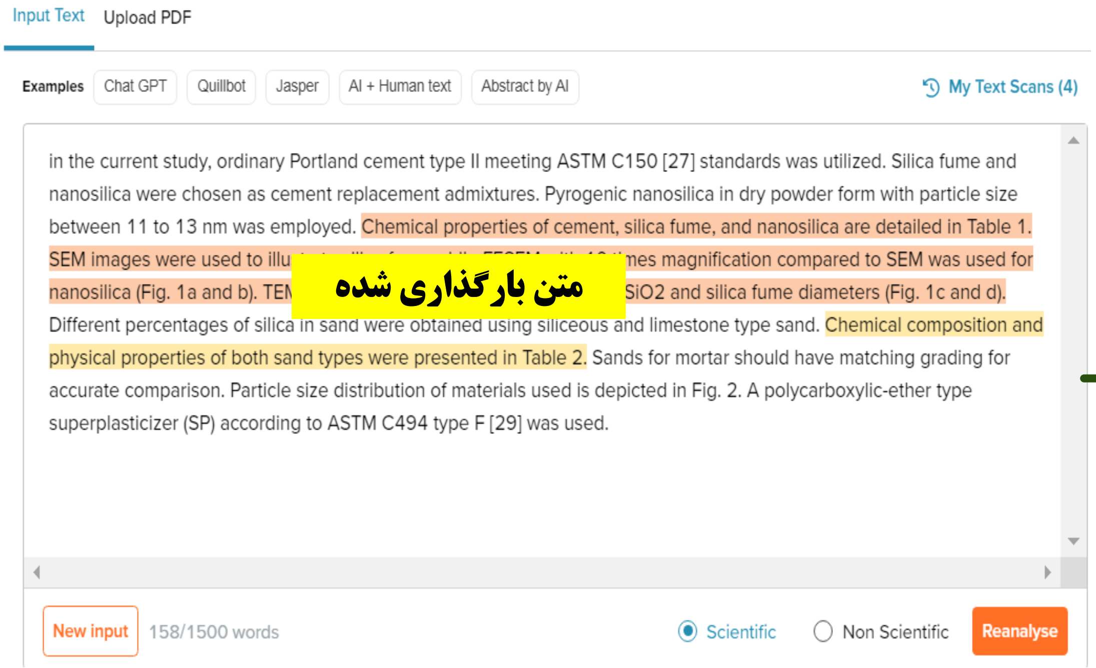
مثال



in the current study, ordinary Portland cement type II meeting ASTM C150 [27] standards was utilized. Silica fume and nanosilica were chosen as cement replacement admixtures. Pyrogenic nanosilica in dry powder form with particle size between 11 to 13 nm was employed. Chemical properties of cement, silica fume, and nanosilica are detailed in Table 1. SEM images were used to illu … mes magnification compared to SEM was used for nanosilica (Fig. 1a and b). TEM … SiO2 and silica fume diameters (Fig. 1c and d). Different percentages of silica in sand were obtained using siliceous and limestone type sand. Chemical composition and physical properties of both sand types were presented in Table 2. Sands for mortar should have matching grading for accurate comparison. Particle size distribution of materials used is depicted in Fig. 2. A polycarboxylic-ether type superplasticizer (SP) according to ASTM C494 type F [29] was used.

158/1500 words

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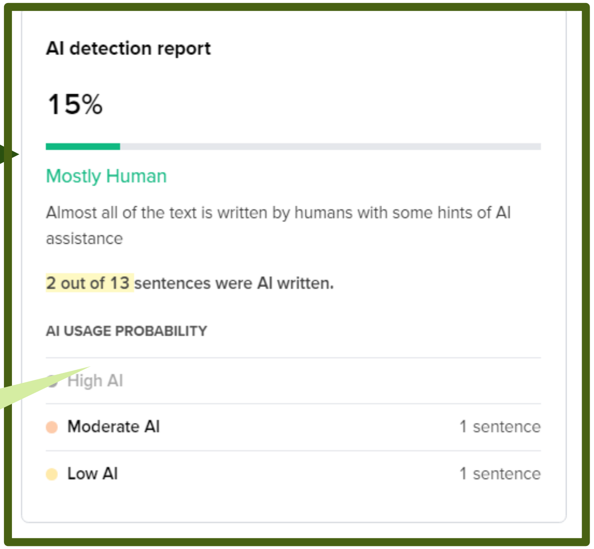

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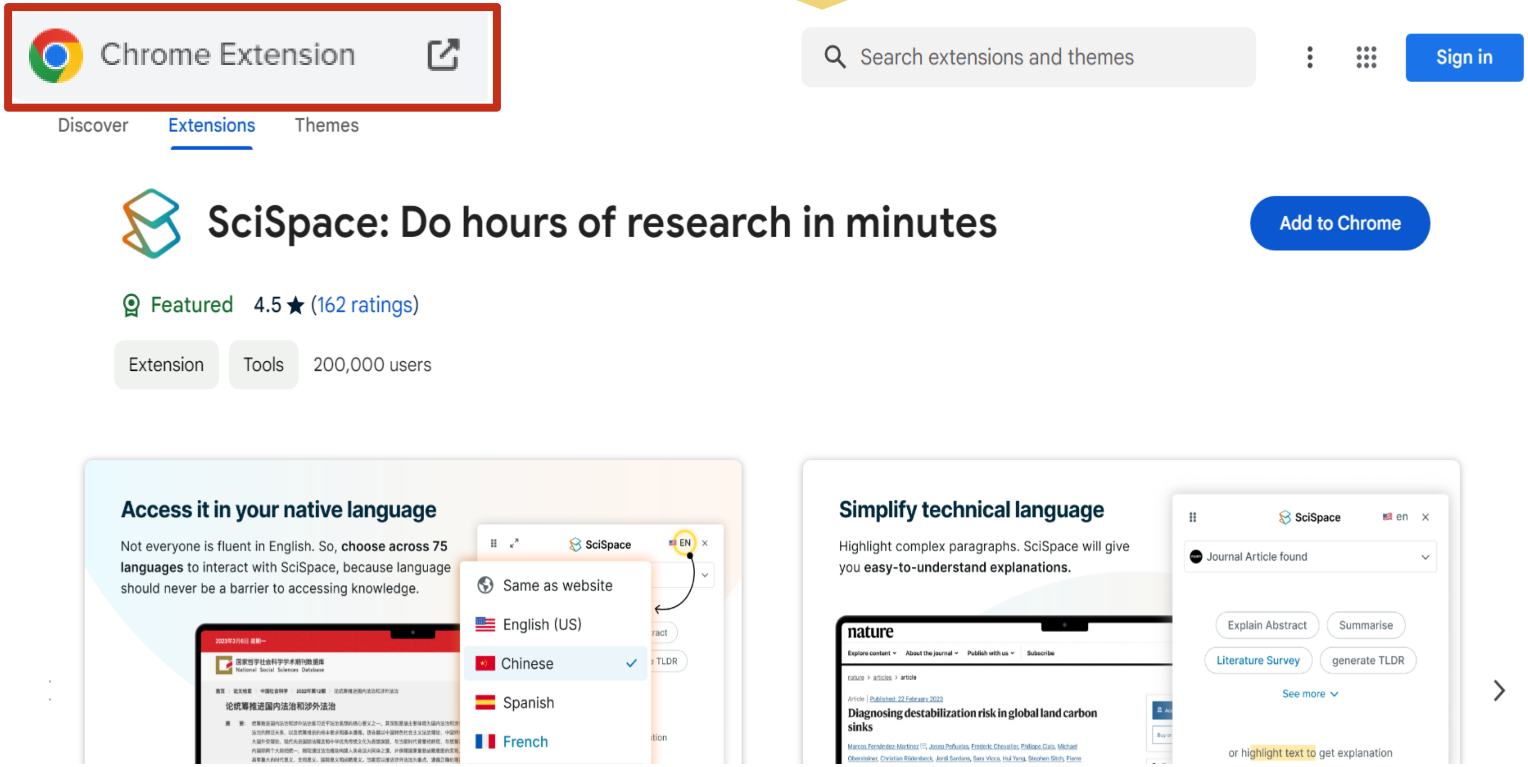
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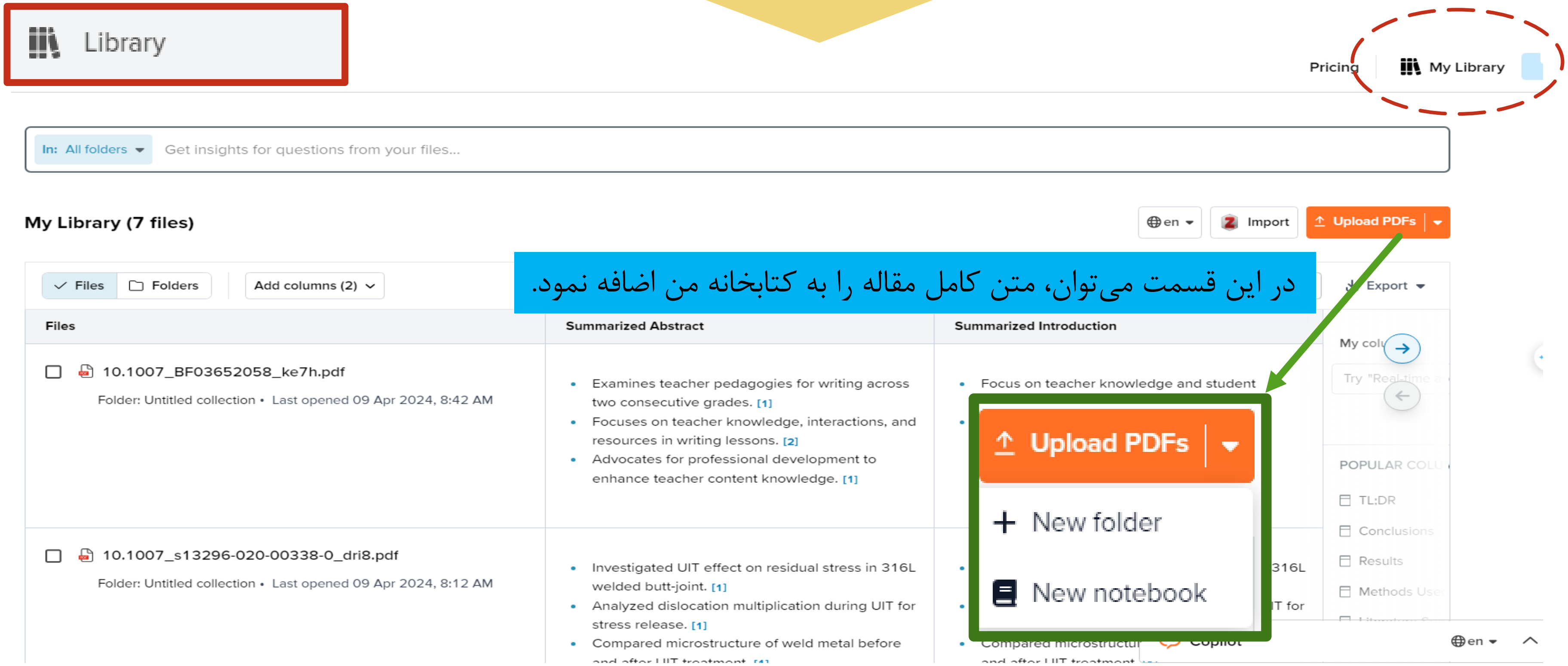
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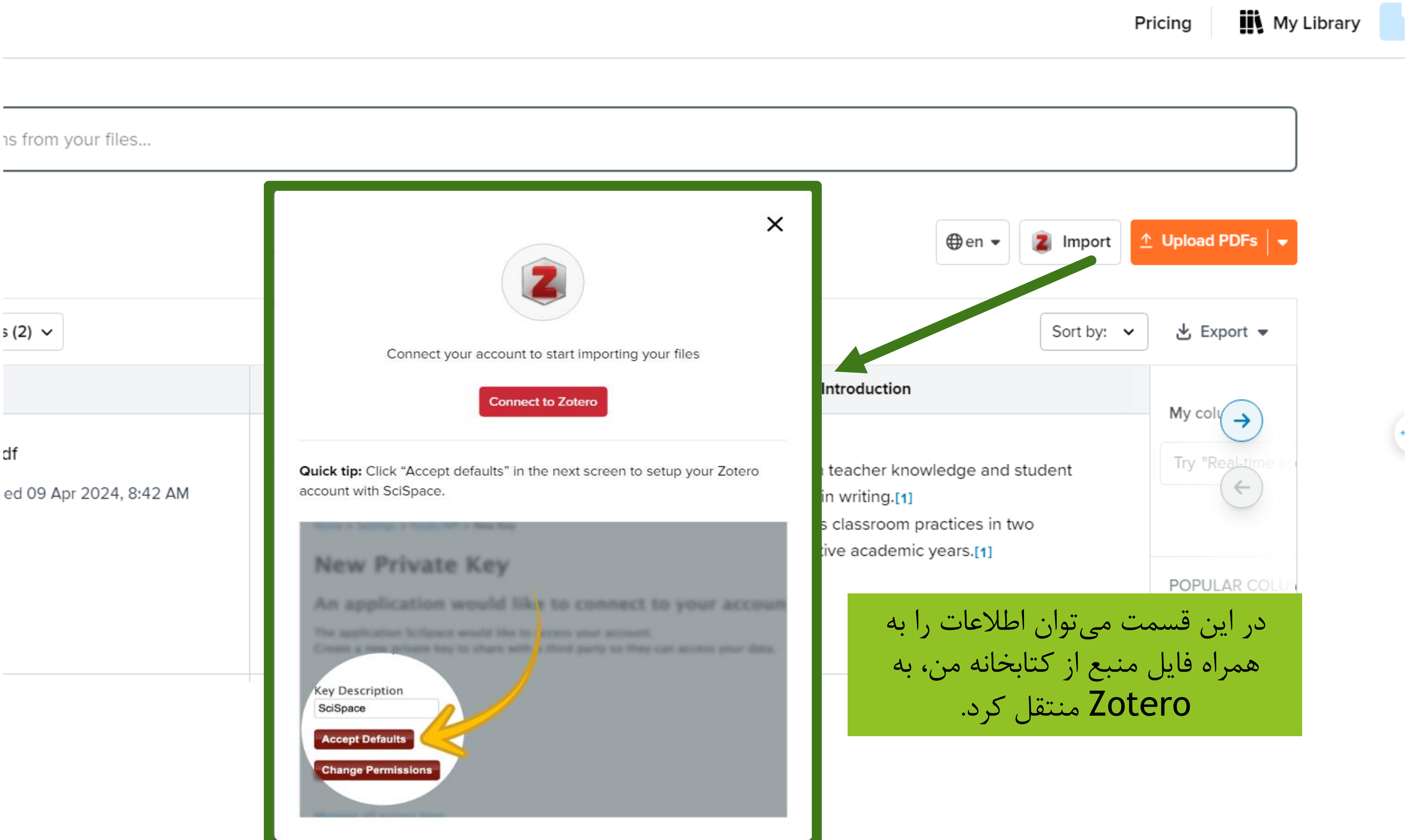
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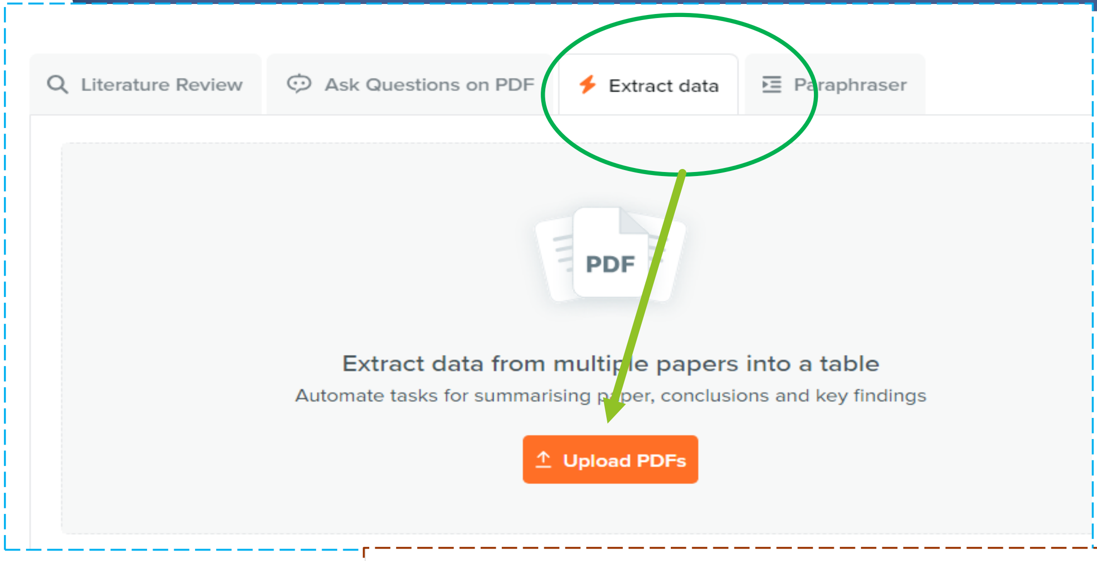
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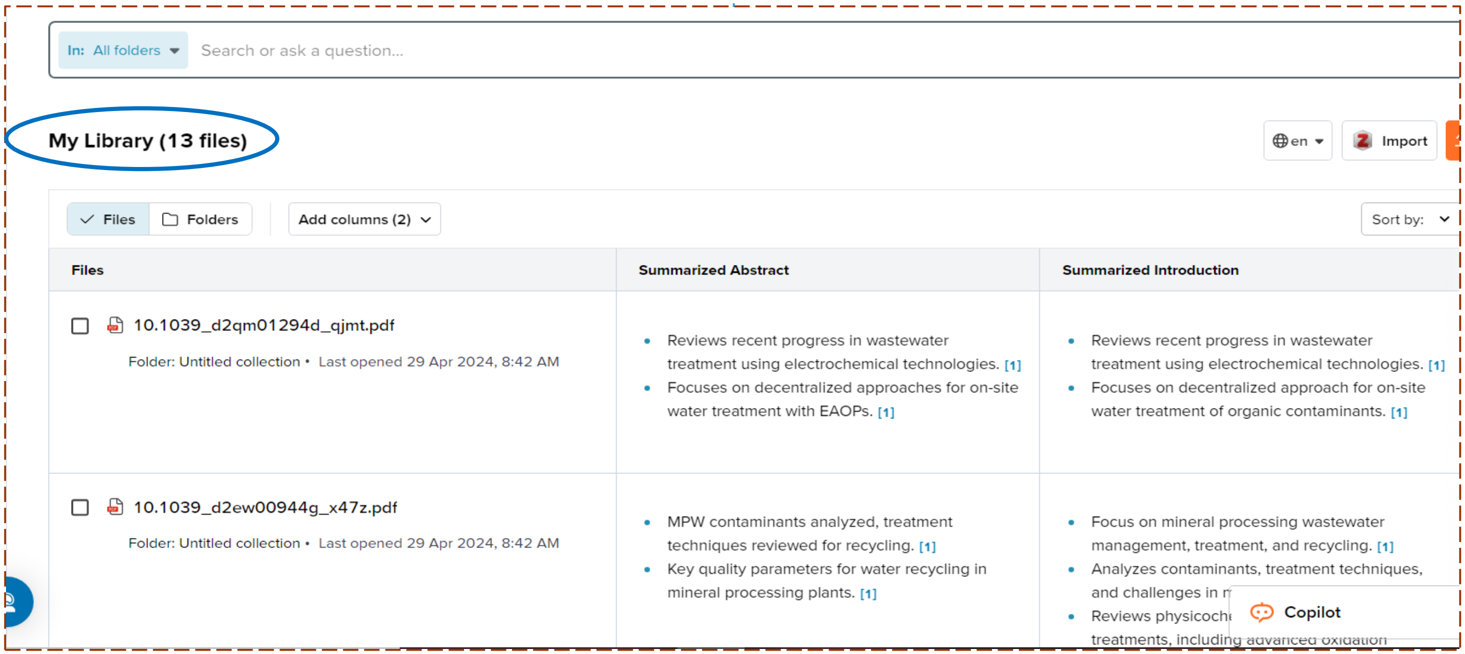
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☐ 10.1039_d2ew00944g_x47z.pdf Folder: Untitled collection • Last opened 29 Apr 2024, 8:42 AM	• MPW contaminants analyzed, treatment techniques reviewed for recycling. [1] • Key quality parameters for water recycling in mineral processing plants. [1]	• Focus on mineral processing wastewater management, treatment, and recycling. [1] • Analyzes contaminants, treatment techniques, and challenges in r • Reviews physicoche treatments, including advanced oxidation

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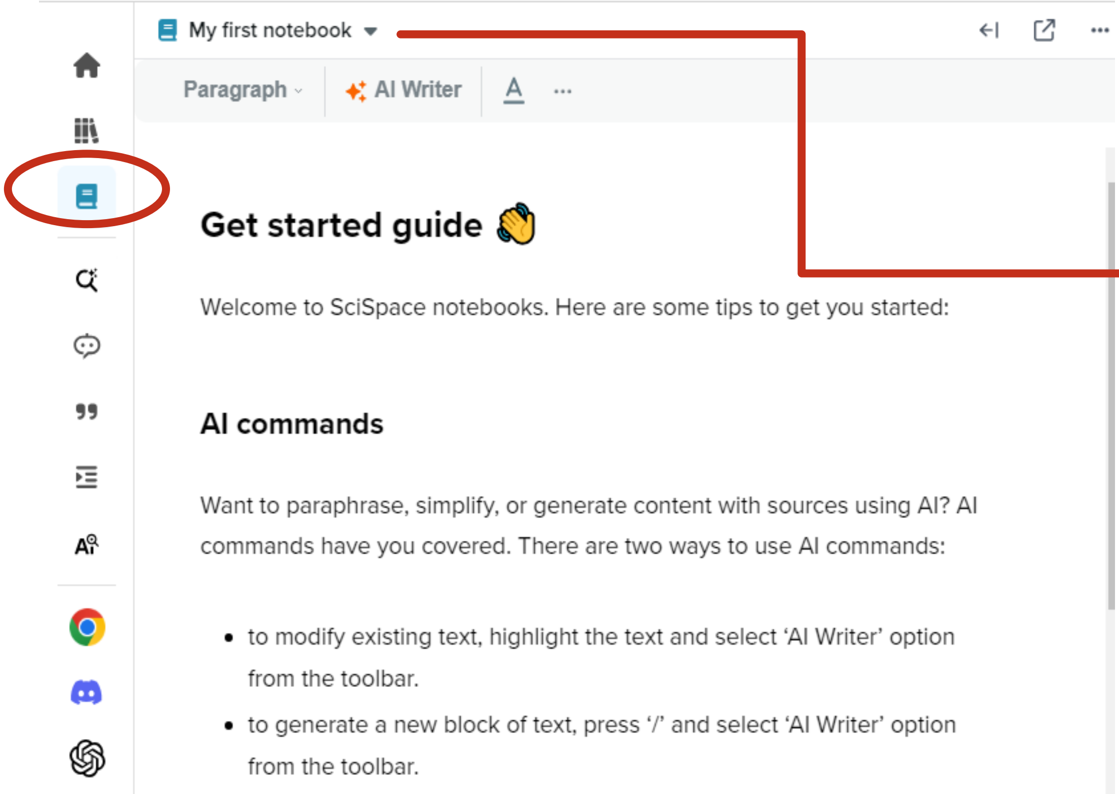
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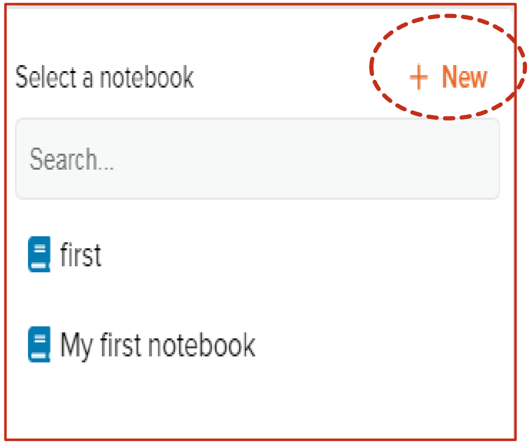
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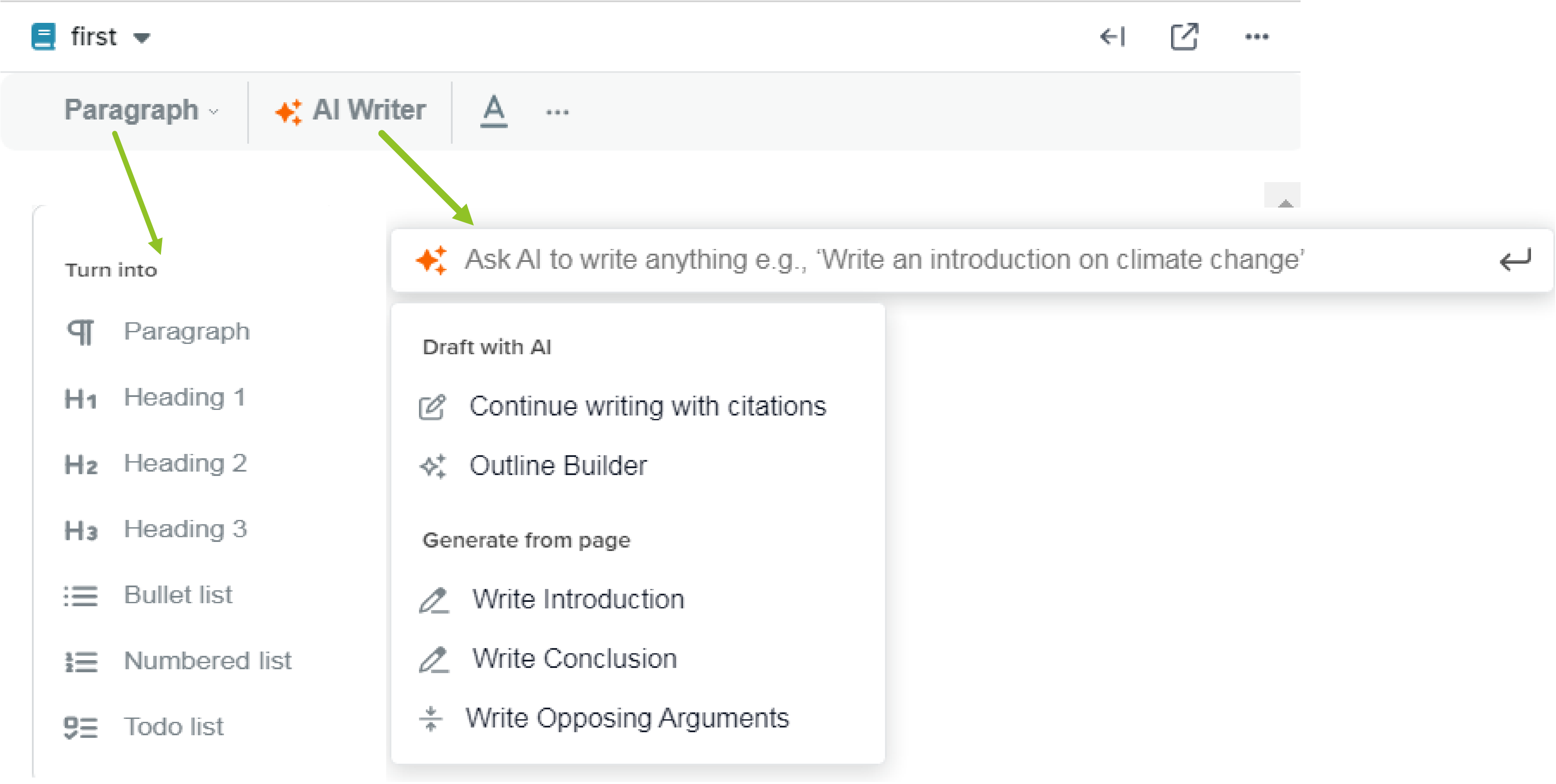

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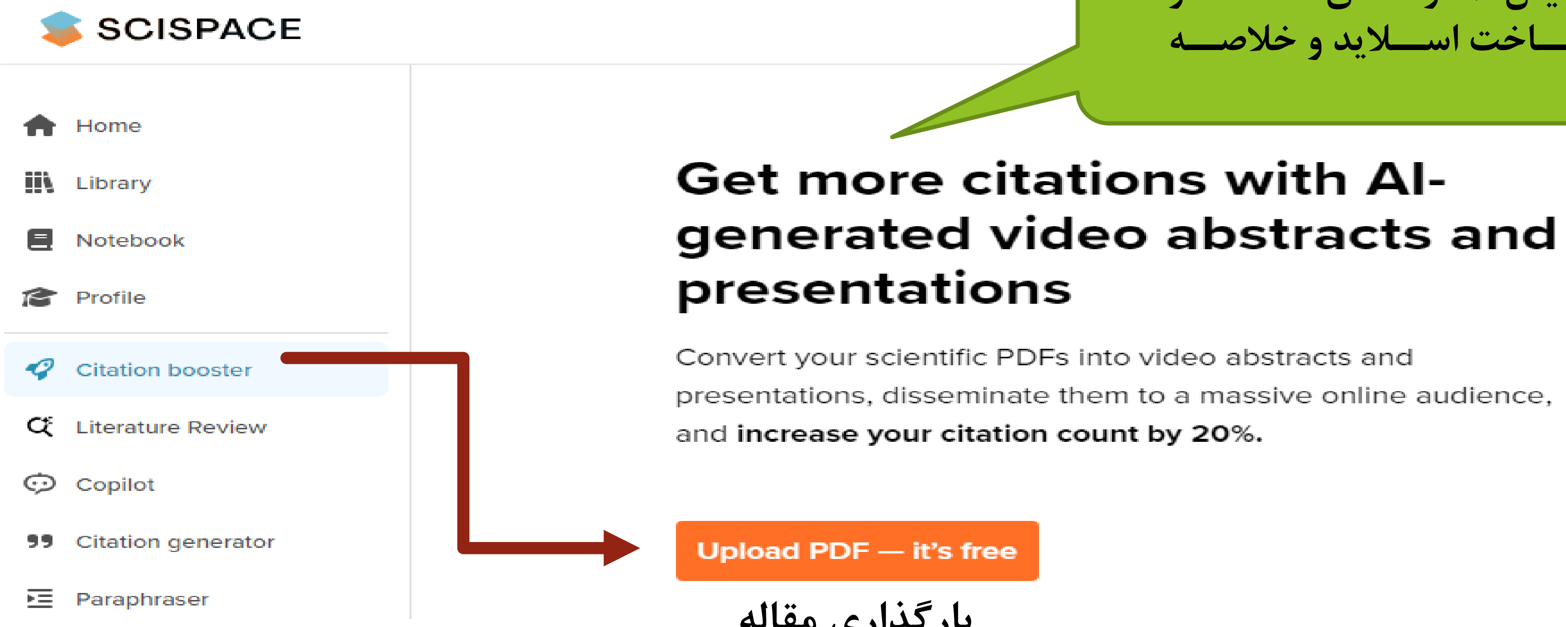
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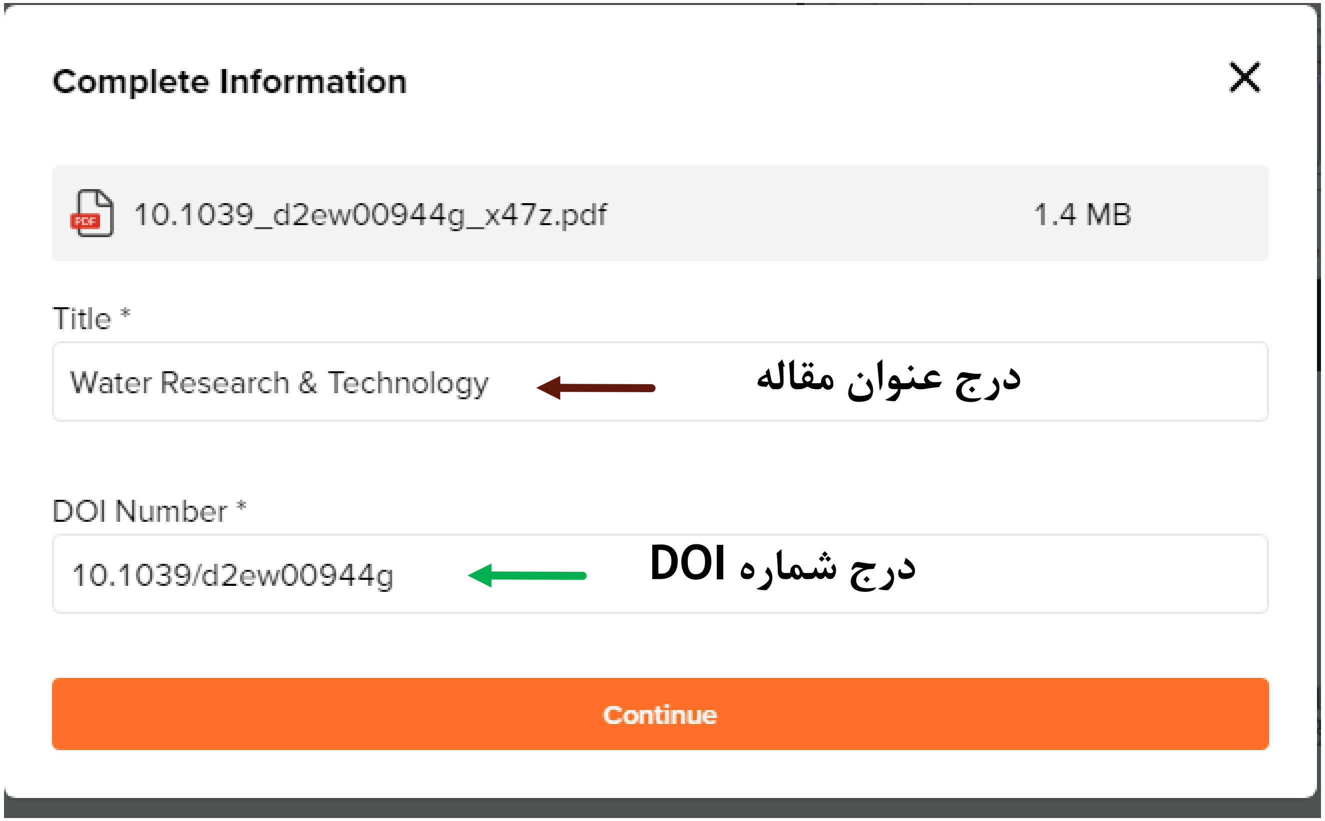

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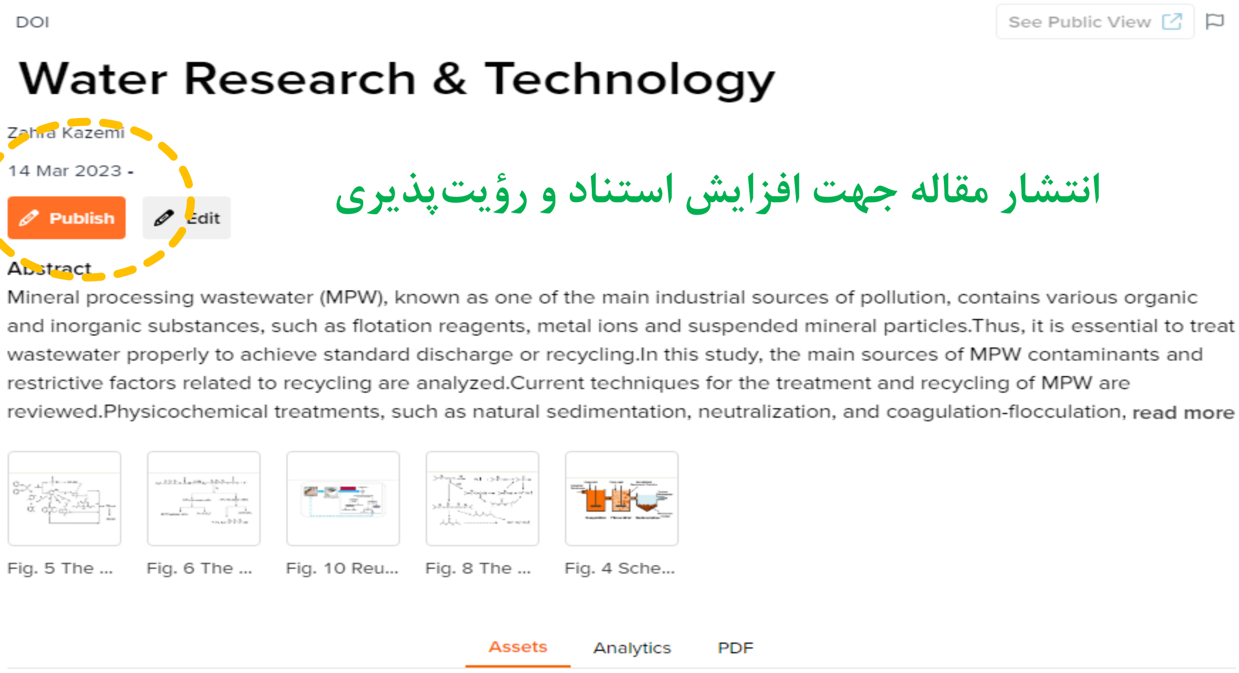

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Water Research & Technology

Zahra Kazemi

14 Mar 2023 -

Abstract

Mineral processing wastewater (MPW), known as one of the main industrial sources of pollution, contains various organic and inorganic substances, such as flotation reagents, metal ions and suspended mineral particles.Thus, it is essential to treat wastewater properly to achieve standard discharge or recycling.In this study, the main sources of MPW contaminants and restrictive factors related to recycling are analyzed.Current techniques for the treatment and recycling of MPW are reviewed.Physicochemical treatments, such as natural sedimentation, neutralization, and coagulation-flocculation, read more

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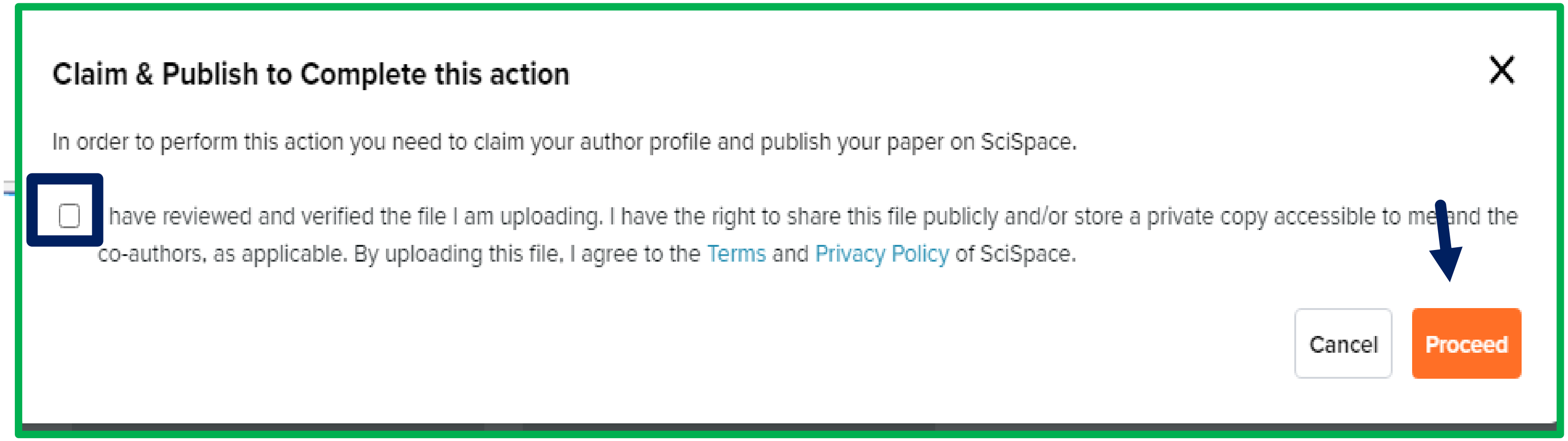

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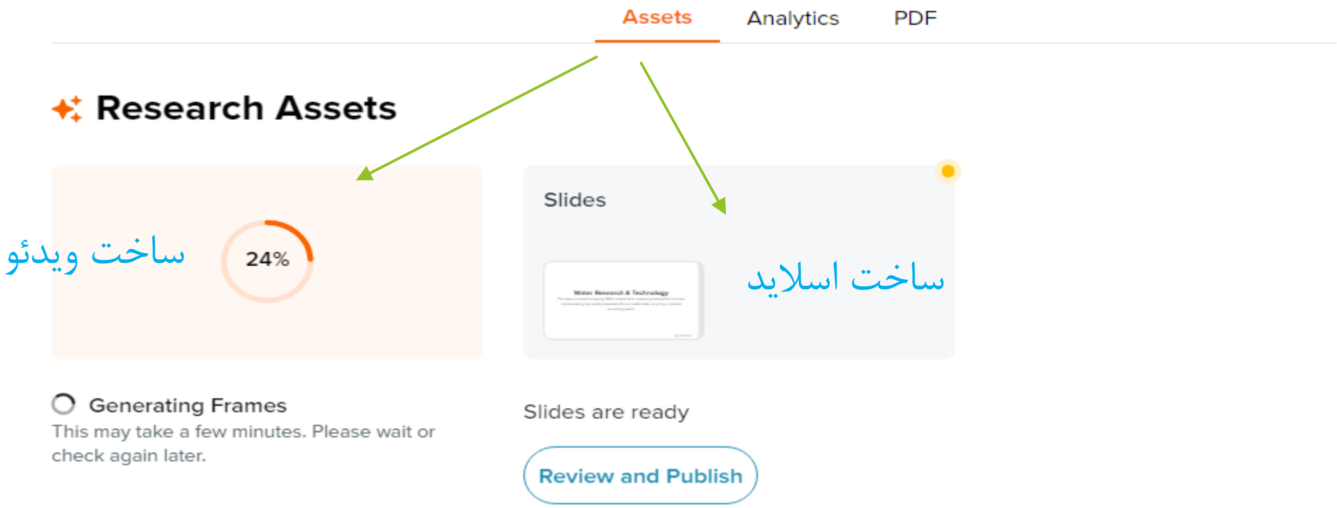
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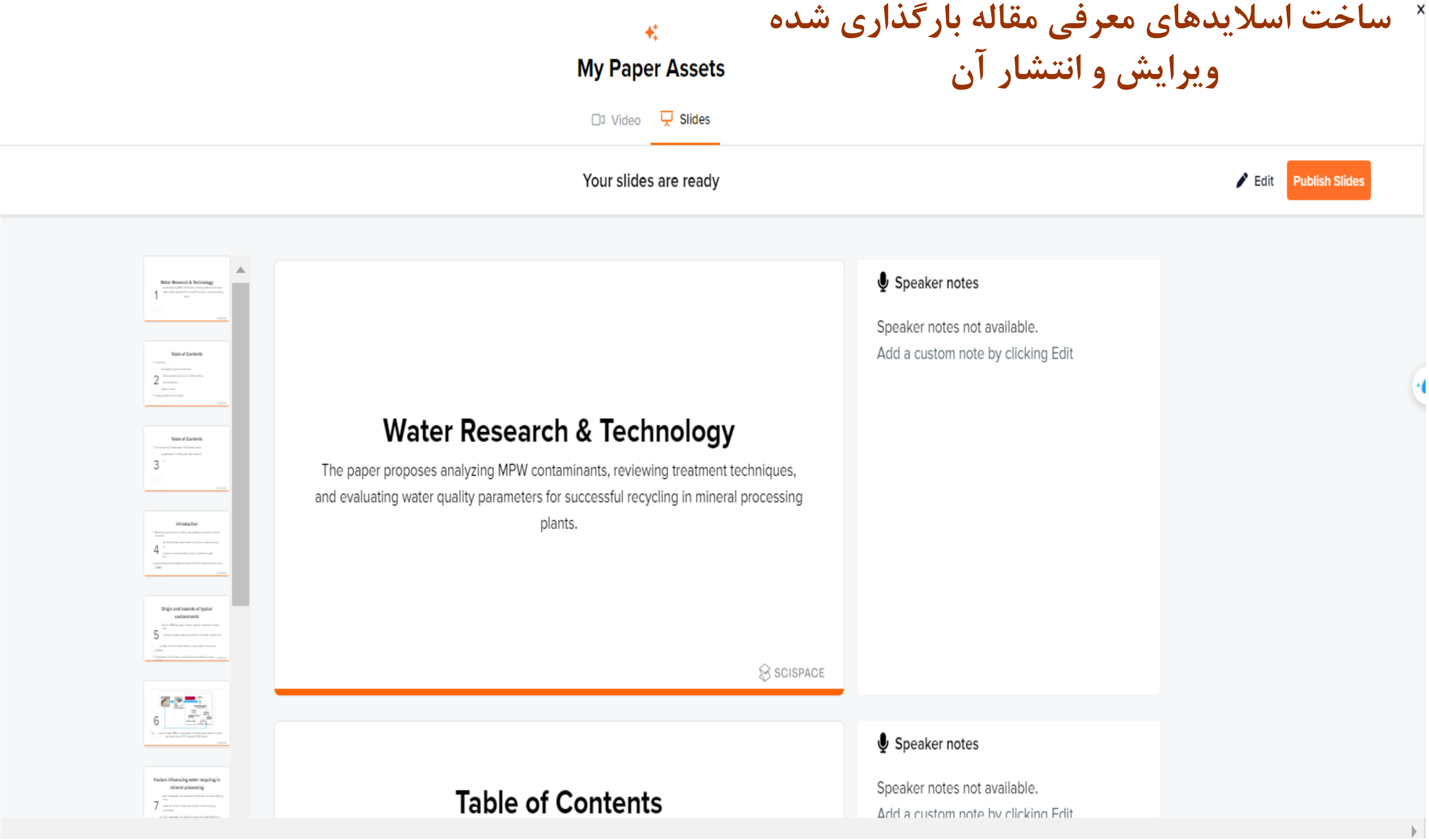
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The paper proposes analyzing MPW contaminants, reviewing treatment techniques, and evaluating water quality parameters for successful recycling in mineral processing plants.

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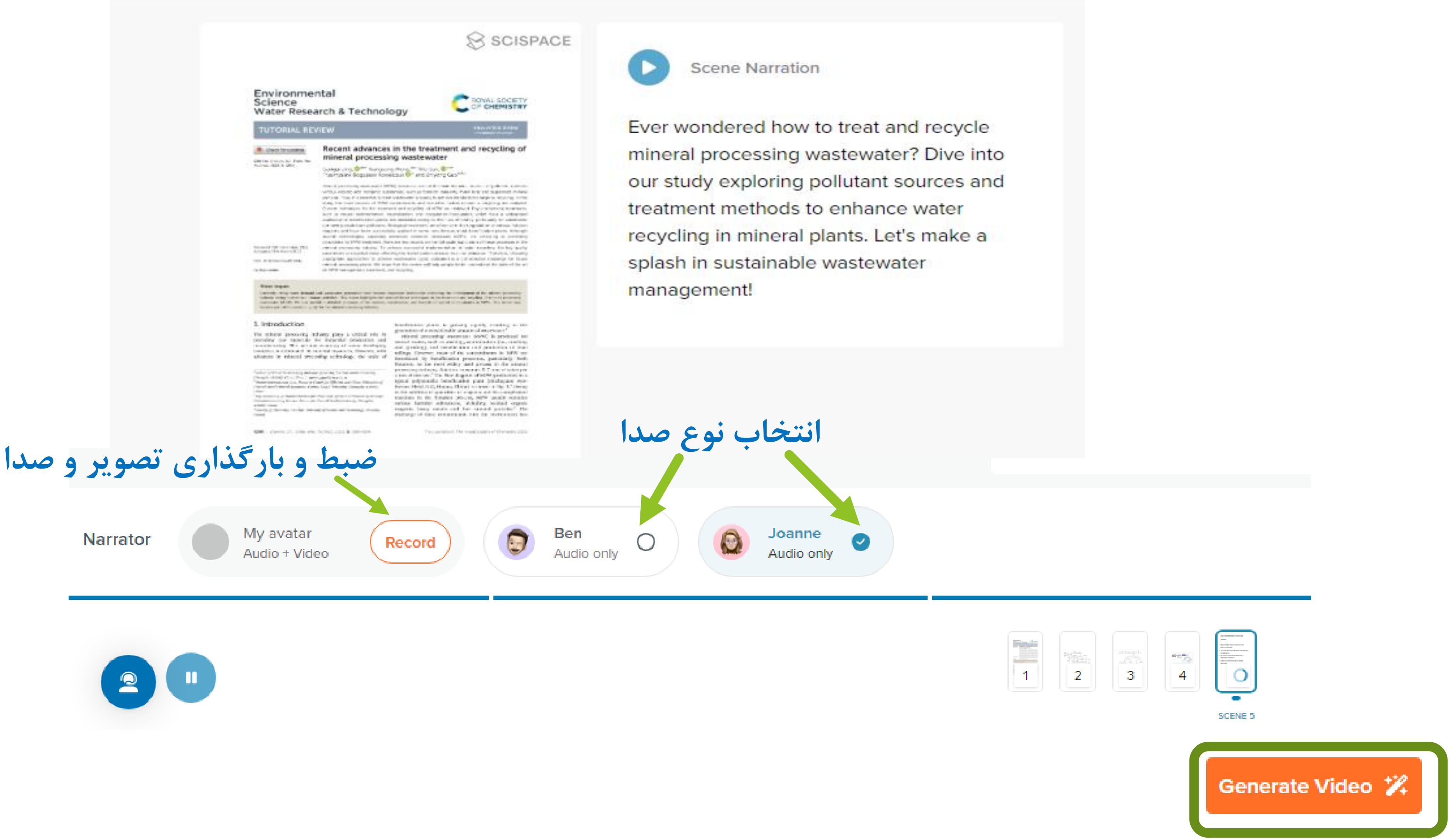

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Ever wondered how to treat and recycle mineral processing wastewater? Dive into our study exploring pollutant sources and treatment methods to enhance water recycling in mineral plants. Let's make a splash in sustainable wastewater management!

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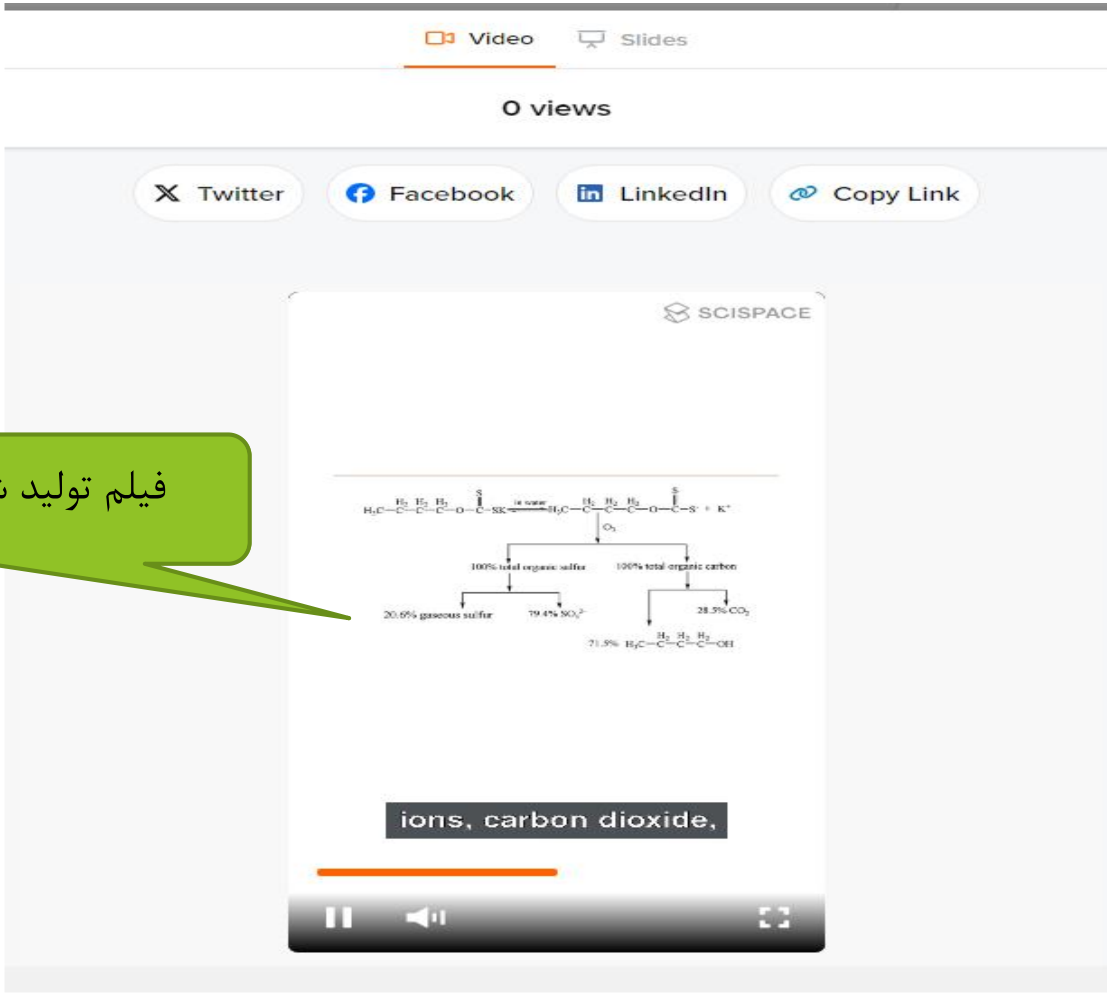
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