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ARSMEDICA: AN ARTIFICIAL INTELLIGENCE–DRIVEN PLATFORM FOR SCHOLARLY DATABASE NAVIGATION AND SCIENTIFIC PUBLISHING SUPPORT

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Abstract

The rapid growth of scientific information has considerably complicated the process of identifying reliable scholarly databases, appropriate academic journals, and relevant scientific events. Researchers, particularly students and early-career scientists, often encounter difficulties when attempting to locate trustworthy publishing platforms and establish communication with editorial offices. As a result, the dissemination of scientific research may become inefficient and time-consuming.

The ArsMedica platform was developed as an artificial intelligence-supported digital environment aimed at facilitating access to academic resources and simplifying the scientific publication process. The system integrates information from international and national scholarly databases into a unified interface, allowing users to quickly identify journals suitable for manuscript submission and obtain essential information about publishing organizations.

In addition to journal identification, the platform provides contact details of editorial offices, including official e-mail addresses and communication channels, which supports direct interaction between researchers and publishers. The system also informs users about upcoming scientific conferences and

academic events, helping researchers remain aware of opportunities for presenting their work and participating in international scientific collaboration.
Furthermore, ArsMedica incorporates artificial intelligence tools that assist users in organizing and preparing scientific manuscripts. These tools support the structuring of academic texts, improve clarity of scientific writing, and help researchers prepare their articles for submission. By integrating database navigation, journal discovery, publisher communication tools, conference notifications, and AI-assisted writing support, ArsMedica aims to enhance research efficiency and contribute to the development of scientific productivity within the academic community.

Keywords: artificial intelligence, scholarly databases, academic publishing, research, platforms, scientific communication, digital research infrastructure, Ai-assisted academic writing, research information systems.

Introduction

The expansion of global scientific research has led to a significant increase in the number of academic journals, scholarly databases, and digital publishing platforms. Although this growth has improved the accessibility of scientific knowledge, it has also created new challenges for researchers who must identify reliable sources of information and appropriate journals for publishing their work. For many students and early-career researchers, navigating the complex academic publishing environment can be a demanding task.
In developing research environments, the availability of structured information about academic databases and scientific publishing platforms remains limited. Researchers frequently rely on fragmented online sources when searching for suitable journals or scientific conferences. This situation increases the time

required to prepare and submit scientific manuscripts and may reduce the efficiency of research dissemination.

Recent advances in artificial intelligence have created new opportunities for organizing large volumes of scientific information and supporting academic communication. Digital platforms that integrate information about scholarly databases, publication venues, and academic events can significantly simplify the research workflow. The ArsMedica platform was developed in response to this need, providing researchers with a centralized system designed to support database navigation, journal identification, and scientific writing.

Main Body

ArsMedica functions as an integrated platform that aggregates information from multiple national and international scholarly databases within a single digital environment. Through a centralized interface, users can easily explore various academic resources without searching numerous independent websites.

This approach reduces the time required to locate relevant scientific platforms and improves access to reliable research information.

A key component of the platform is the identification of journals that accept scientific manuscripts. ArsMedica provides essential information about journals and publishing organizations, including editorial contact details and official e-mail addresses. Access to this information enables authors to communicate directly with editorial offices and receive guidance regarding submission requirements.

In addition to journal discovery, the platform provides regularly updated information about scientific conferences, symposiums, and academic forums. These updates allow researchers to stay informed about opportunities for presenting research findings and engaging in international scientific

collaboration. Participation in such events is essential for exchanging knowledge and expanding professional research networks.

Another important feature of ArsMedica is the integration of artificial intelligence tools that assist researchers during the preparation of scientific manuscripts. These tools support the organization of academic texts, help structure article sections, and improve the clarity and coherence of scientific writing. Such assistance is particularly valuable for students and early-career researchers who may have limited experience in academic publishing.

The platform operates in three languages—Uzbek, Russian, and English—allowing it to serve a diverse academic audience. By combining database navigation, journal identification, conference announcements, and AI-supported writing tools, ArsMedica contributes to improving the efficiency of the research process and supporting the dissemination of scientific knowledge.

Conclusion

The increasing complexity of the global scientific publishing landscape requires innovative digital solutions that simplify access to scholarly resources and facilitate research communication. ArsMedica represents an important step toward creating an integrated platform that combines academic databases, journal information, and scientific event announcements within a unified digital environment.

By providing researchers with tools for identifying publication opportunities, communicating with publishers, monitoring academic events, and improving scientific writing, the platform supports several stages of the research workflow. Such systems may significantly reduce barriers faced by students and young scientists when attempting to publish their work.

The continued development of platforms like ArsMedica may contribute to strengthening national research infrastructure, improving access to scientific information, and increasing the visibility of academic research. In the long term, integrated digital platforms supported by artificial intelligence have the potential to enhance scientific productivity and facilitate knowledge exchange within the global research community

References

1. Dwivedi YK, Hughes DL, Ismagilova E, Aarts G, Coombs C, Crick T, et al. Artificial intelligence (AI): Multidisciplinary perspectives on emerging challenges, opportunities, and agenda for research, practice and policy. International Journal of Information Management. 2021.
2. Kasneci E, Sessler K, Küchemann S, Bannert M, Dementieva D, Fischer F, et al. ChatGPT for good? On opportunities and challenges of large language models for education. Learning and Individual Differences. 2023.
3. van Dis EAM, Bollen J, Zuidema W, van Rooij R, Bockting CL. ChatGPT: five priorities for research. Nature. 2023.
4. Alisherovna, K. S. S. F. N., Amanaliyevich, O. N., & Polatovich, K. S. (2025). MECHANISMS OF IONIZING RADIATION-INDUCED DAMAGE TO CELLS AND DNA. *SHOKH LIBRARY*, *1*(13).
5. Alisherovna, F. N. (2025). TIRIK ORGANIZMLAR UCHUN TERMODINAMIKA QONUNLARI. TERMOGRAFIYA VA UNING DIAGNOSTIKADA ROLI. *Global Science Review*, *13*(12), 1215-1219.
6. Alisherovna, F. N. (2025). ELEKTROMIYOGRAFIYA (EMG) VA MUSHAKLARNING BIOELEKTRIK FAOLLIGI. *Modern education and development*, *40*(2), 145-152.

7. Nodira, F. (2018). Professionally significant qualities and skills of a teacher of foreign languages. *Достижения науки и образования*, *1*(7 (29)), 83-85.
8. Djalilova, G., Fayziyeva, M., Salima, N., Nodira, M., Rano, N., & Viktoriya, I. Ecology and Congenital Malformations. *International Journal of Health Sciences*, *6*(S1), 324-333.
9. Otajonov, I. O., & Urinov, A. M. (2024). Assessment of Quality of Life Indicators of Patients with Cirrhosis of the Liver.
10. Otajonov, I. O. (2023). ANALYSIS OF MICRONUTRIENTS IN BABY FOOD RATION IN THE PRESENCE OF COMPLICATIONS AFTER RICKETS.
11. Отажонов, И. О. (2021). Сурункали буйрак касаллиги бўлган беморлар ҳаёт сифати кўрсаткичлари. *Инфекция, иммунитет и фармакология*, (2), 222-232.
12. Отажонов, И. О. (2011). Ҳозирги тараққиёт даврида талабалар овқатланишини гигиеник асослаш. *Тиббиёт фанлари номзоди илмий даражасини олиш учун диссертацияси*.
13. Отажонов, И. О. (2020). Оценка психологического состояния больных с хронической болезнью почек. *Главный редактор–ЖА РИЗАЕВ*, *145*.
14. Садирходжаева, А. А., & Ашурова, Д. Т. (2019). Особенности состояния кардиологических маркёров в ранней диагностики диабетической кардиомиопатии у детей с сахарным диабетом 1 типа. *Austrian Journal of Technical and Natural Sciences*, (3-4), 3-7.
15. Садирходжаева, А. А., Ашурова, Д. Т., & Шарапов, Б. У. (2019). ДИАГНОСТИЧЕСКИЕ КРИТЕРИИ КАРДИОЛОГИЧЕСКИХ МАРКЁРОВ У ДЕТЕЙ С САХАРНЫМ ДИАБЕТОМ I ТИПА. *Новый день в медицине*, (2), 50-52.

16. Ашурова, Д. Т., & Садирходжаева, А. А. (2018). Особенности клинической симптоматики поражения сердечно-сосудистой системы при СД 1 типа у детей. *Проблемы науки*, (2 (26)), 69-73.
17. Шарипова, З. У., Ашурова, Д. Т., & Турсунова, О. А. (2017). Эффективность ступенчатой антибактериальной терапии в лечении пневмонии у детей. *Молодой ученый*, (16), 102-104.
18. Турсунова, О. А., & Шарапов, Б. У. (2017). ИЗУЧЕНИЕ ЧАСТОТЫ ЗАБОЛЕВАЕМОСТИ ГЕМОРРАГИЧЕСКИМ ВАСКУЛИТОМ У ДЕТЕЙ. In *INTERNATIONAL INNOVATION RESEARCH* (pp. 236-239).
19. Садирходжаева, А. А. (2025). ОСОБЕННОСТИ ПАРАМЕТРОВ ГЕМОСТАЗА И ЭНДОТЕЛИАЛЬНОЙ ДИСФУНКЦИИ У ДЕТЕЙ С СД 1 ТИПА ПЕРЕНЕСШИХ COVID-19 ИНФЕКЦИЮ. *Medical journal of Uzbekistan*, *1*(6), 150-154.
20. Shaxzod, E. (2025). *—ISKRA-1" APPARATI TUZILISHI VA UNDA TEKSHIRISH USULLARI* (Doctoral dissertation, DIGITIZATION IS THE FUTURE OF MEDICINE).
21. Shaxzod, E. (2025). *ELEKTR QURILMALAR VA ELEKTR XAVFSIZLIGINI TA ‘MINLOVCHI BINOLARNING TASNIFI* (Doctoral dissertation, DIGITIZATION IS THE FUTURE OF MEDICINE).
22. Shaxzod, E. (2025). *YUQORI CHASTOTALI ELEKTR TOKI BILAN TA ‘SIR E ‘TUVCHI TIBBIY QURILMALAR* (Doctoral dissertation, DIGITIZATION IS THE FUTURE OF MEDICINE).
23. Shaxzod, E. (2025). *QURILMALARGA XIZMAT KO_ RSATISH STANDARTLARINI O_ RGANISH* (Doctoral dissertation, DIGITIZATION IS THE FUTURE OF MEDICINE).

24. Shaxzod, E. (2025). *ULTRA YUQORI CHASTOTALI ELEKTROMAGNIT MAYDON BILAN DAVOLASH TEXNIKALARI* (Doctoral dissertation, DIGITIZATION IS THE FUTURE OF MEDICINE).
25. Shaxzod, E. (2025). *NANOMATERIALLARNI XARAKTERLASH TEXNOLOGIYALARI VA NANOTEXNOLOGIYA SOHASIDAGI ZAMONAVIY TADQIQOTLAR* (Doctoral dissertation, "INNOVATIVE EDUCATION: DEVELOPMENT AND INTERNATIONAL EXPERIENCE").
26. ABDURAKHMONOV, S., ESANOV, S., ULUGBERDIYEV, A., & ABDURAZZOKOV, J. (2025). MODERN GENERATION DEVICES IN COMPUTER TOMOGRAPHY. DENTOPR APPARATUS CAPABLE OF SIMULTANEOUSLY VISUALIZING BOTH SOFT AND HARD TISSUES. *SCIENCE*, *4*(2-4), 9-11.
27. Абдурахмонов, С. А., Эсанов, Ш. Ш., Улугбердыев, А. Ш., ЭСАНОВ, Я., & АБДУРАЗАКОВ, Х. (2024). Автоматизация процесса управления системой здравоохранения. Оптимизация управленческих решений в автоматизированных системах управления с использованием стилей линейного программирования. *МОЛОДОЙ УЧЕНЫЙ Учредители: ООО" Издательство Молодой ученый"*, (45), 16-18.
28. Shaxzod, E. (2025, November). Коррозиябардош қопламаларни металлургик бойитиш жараёнларида қўлланилиши. International scientific and scientific-technical conference on.
29. Абдурахмонов, С. А. (2024). Воздействие физических полей на биологические объекты. *Молодой ученый*, (42 (541)), 46.
30. Islomjon, I., & Fazliddin, A. (2025). Efficiency of Mobile Apps in Healthcare: A Case Study of MED-UZ AI. *Modern American Journal of Medical and Health Sciences*, *1*(2), 19-24.

31. Ermetov, E. Y., Arzikulov, F., & Norbutayeva, M. (2025). ELECTRONIC HEALTH SYSTEMS (EHR). *Western European Journal of Medicine and Medical Science*, *3*(01), 12-20.
32. Арзикулов, Ф. Ф., & Мустафакулов, А. А. (2021). Программное обеспечение, измеряющее мощност генератора энергии ветра. *October*, *20*(2025), 22.
33. Мустафакулов, А. А., Джуманов, А. Н., & Арзикулов, Ф. (2021). Альтернативные источники энергии. *Academic research in educational sciences*, *2*(5), 1227-1232.
34. Куланов, Б. Я., & Саодуллаев, А. С. (2021). Развитие альтернативных источников энергетики Узбекистана. In *НАУКА, ОБРАЗОВАНИЕ, ИННОВАЦИИ: АКТУАЛЬНЫЕ ВОПРОСЫ И СОВРЕМЕННЫЕ АСПЕКТЫ* (pp. 29-32).
35. Арзикулов, Ф. Ф., & Мустафакулов, А. А. (2020). Возможности использования возобновляемых источников энергии в узбекистане. *НИЦ Вестник науки*.
36. Arzikulov, F., & Makhsudov, V. (2025). How to calculate operations on matrices using Excel. *Modern American Journal of Engineering, Technology, and Innovation*, *1*(2), 119-132.
37. Ermetov, E. Y., Arzikulov, F., Safarov, U., Olimov, A., & Izbasarov, I. (2025). PROTECTION OF MEDICAL DATA BY BLOCKCHAIN. *Western European Journal of Medicine and Medical Science*, *3*(01), 52-56.
38. Мусаев, Ш., Арзикулов, Ф. Ф., Олимов, О. Н., Норматова, Д. А., & Сатторова, М. А. (2021). Свойства кристаллов кварца. *Science and Education*, *2*(10), 201-215.

39. Mustafakulov, A. A., Arzikulov, F. F., & Dzhumanov, A. (2020). Use of alternative energy sources in the mountainous areas of the Jizzakh region of Uzbekistan. *Internauka: electron. scientific. zhurn,(41 (170))*.
40. Mustafakulov, A. A., Arzikulov, F. F., & Djumanov, A. (2020). Ispolzovanie Alternativno'x Istochnikov Energii V Gorno'x Rayonax Djizakskoy Oblasti Uzbekistana. *Internauka: elektron. nauchn. jurn*, *41*, 170.
41. Мустафакулов, А. А. (2020). Рост кристаллов кварца на нейтронно-облученных затравках. *Инженерные решения*, (11), 4-6.
42. Shomurodov, K. E., & Isomov, M. M. (2021). Cytokine profile of blood plasma and oral fluid in pregnant women with odontogenic inflammatory diseases. *Central Asian Journal of Medical and Natural Science*, *2*(3), 118-122.
43. Шомуродов, К. Э., & Исомов, М. М. (2020). Мониторинг стационарной и амбулаторной реабилитации беременных женщин с воспалительными заболеваниями ЧЛО. *Стоматология*, *1*, 34-37.
44. Shomurodov, K. E., Kuryazova, Z. K., Isomov, M. M., Mukimov, I. I., & Fayziyev, B. R. (2017). Improvement of surgical treatment of fractures of the inferior orbit wall. *J Stomatologiya2017*, *2*, 78-80.
45. Isomov, M. M., Shomurodov, K. E., Olimjonov, K. J., & Azimov, I. M. (2020). Features of etiopathogenesis and the course of inflammatory processes of periapical tissues in women during pregnancy. *Journal Biomedicine and Practice*, 833-838.
46. Isomov, M. M. (2020). Features of etiopathogenesis and the course of inflammatory processes of periapical tissues in women during pregnancy (review of literature)/Isomov MM, Shomurodov KE, Olimjonov KJ, Azimov IM. *Biomedicine and practice.–2020.–№ SI-2*, 833-838.

47. Wang P, Liu S, Shen H. Artificial intelligence in academic writing and research productivity: opportunities and ethical considerations. Scientometrics. 2023.
48. Zhang Y, Zhang C, Kousha K. Editorial: artificial intelligence for scientometrics. Scientometrics. 2025.
49. Durak G, Çankaya S. Artificial intelligence in higher education: a bibliometric study on research trends. International Review of Research in Open and Distributed Learning. 2024.
50. Yan Y, Zhang H. Scientometric analysis of emerging trends in generative artificial intelligence research. Results in Engineering. 2025.
51. Nematillayevich LI. The role of artificial intelligence technology in the development of the digital economy of Uzbekistan. Pioneering Studies and Theories Journal. 2026.
52. Rakhmonova M, Saidova N. Integration of ICT into education in Uzbekistan: Problems and prospects. Uzbek Journal of Pedagogical Studies. 2021.
53. Petrovich V. The future of higher education in Uzbekistan and the integration of artificial intelligence technologies. Erasmus Uzbekistan Scientific Journal. 2025.