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Mapping Research of Culture Education Learning Media: A Bibliometric Analysis

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ABSTRACT

Culture education plays a crucial role in fostering a well-rounded understanding and appreciation of diverse cultural practices, heritage, and identities. In recent years, there has been growing interest in utilizing learning media to enhance culture education experiences. This paper presents an introduction to a bibliometric analysis that explores the research landscape surrounding culture education learning media. By systematically mapping the existing scholarly literature, this study aims to provide insights into the trends, patterns, and gaps in research related to culture education learning media. Through this analysis, researchers, educators, and policymakers can gain a comprehensive understanding of the current state of knowledge in this field and identify areas for further investigation and development.

Keywords: culture education, learning media, bibliometric analysis

INTRODUCTION

Culture education serves as a foundation for nurturing individuals who are culturally sensitive, globally aware, and equipped with a deep understanding of diverse cultural traditions. In recent years, the integration of learning media, including digital platforms, multimedia resources, and interactive technologies, has gained significant attention to enhance culture education experiences. These learning media offer engaging and immersive tools to explore and appreciate various cultural aspects, providing opportunities for interactive and dynamic learning environments [1].

While the significance of culture education learning media is widely recognized, it is essential to conduct a systematic analysis of the existing research to better understand the state of knowledge in this domain. A bibliometric analysis offers a quantitative approach to examine the scholarly literature, including research trends, patterns, influential authors, and emerging themes [2]. By analyzing a comprehensive collection of scholarly publications, this study aims to uncover valuable insights into the current landscape of culture education learning media research.

The objectives of this bibliometric analysis are as follows: (1) To identify the key themes and research areas within the field of culture education learning media; (2) To explore the publication trends, including the growth rate, publication outlets, and countries/regions contributing to the research; (3) To identify influential authors, institutions, and collaborations in the field; (4) To assess the citation patterns, identifying seminal works and influential publications; (5) To identify potential research gaps and future directions for culture education learning media research.

By undertaking this bibliometric analysis, we seek to provide a comprehensive overview of the existing literature, highlight areas of focus and development, and identify potential gaps in knowledge. This analysis will contribute to the advancement of research and practice in culture education learning media by offering valuable insights into the current state of knowledge and informing future research directions.

METHODOLOGY

Bibliometric analysis is a systematic approach to examine and analyze scholarly literature within a specific field or research area. It involves quantitative analysis of bibliographic data, such as publication records, citations, authors, journals, and keywords. Research objectives are used to clearly define the research objectives and scope of bibliometric analysis. Focused on the analysis of trend, patterns, and gaps within the field of culture education learning media. Data collection is based on bibliographic data about culture education learning media research in academic database such as Scopus. The documents search is TITLE-ABS-KEY "culture education learning media". Data extraction is done by conducting a literature search based on the defined search criteria. Retrive and download the bibliographic data, including publication titles, authors, abstracts, keywords, publication years, citation counts, and affiliations.

The bibliometric analysis techniques including: (1) Calculate basic descriptive statistic, such as publication counts, citation counts, authorship patterns, and journal distribution; (2) Identify influential authors and collaboration within the field; (3) Examine citation patterns to to identify highly cited publications, influential authors, and key research areas; (4) Analyze the occurrence and co-occurrence of keywords to identify prominent themes and research areas within culture education learning media; (5) Construct co-authorship networks, citation networks, or keyword networks to visualize and analyze the relationships and interactions among authors, publications, or research topics.

RESULTS

Publication Trends in Culture Education Media Learning Research

The number of culture education media learning research documents shows a dynamic trend in every year. However, it tends to increase in 2022 compared to the beginning in 1969. From 1969 until 2022 there are 1.616 documents research indexed in Scopus database. The most productive year for culture education learning media research is 2022 with 141 documents (Figure 1).

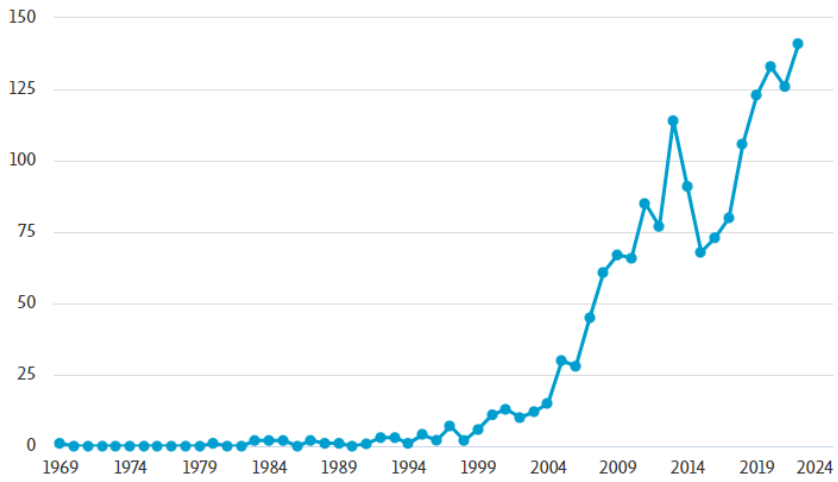

Figure 1. Research in culture education media learning trends.
(Source: Scopus, 2023)

The results of data analysis from the search of culture education media learning showed that most of the documents were article with 903 documents (55,9%) than conference paper with 333 documents (20,6%) and other documents.

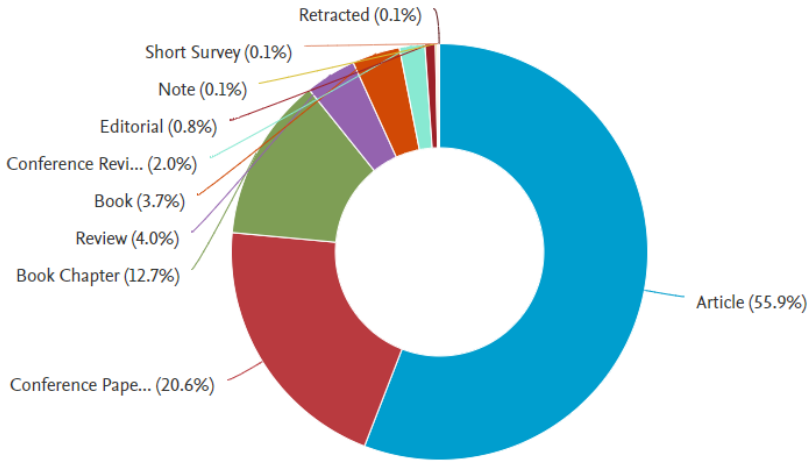

Figure 2. Research in culture education media learning documents by type.
(Source: Scopus, 2023)

Publications related to culture education media learning research documents based on the results of analysis of documents per year by source found the 5 highest sources; There is Journal of Physcis Conference Series with 34 documents, Cultural Studies of Science Education with 31 documents, ACM International Conference Proceeding Series with 14 documents, Advances in Intelligent Systems and Computing with 14 documents, and Educational Media International with 12 documents.

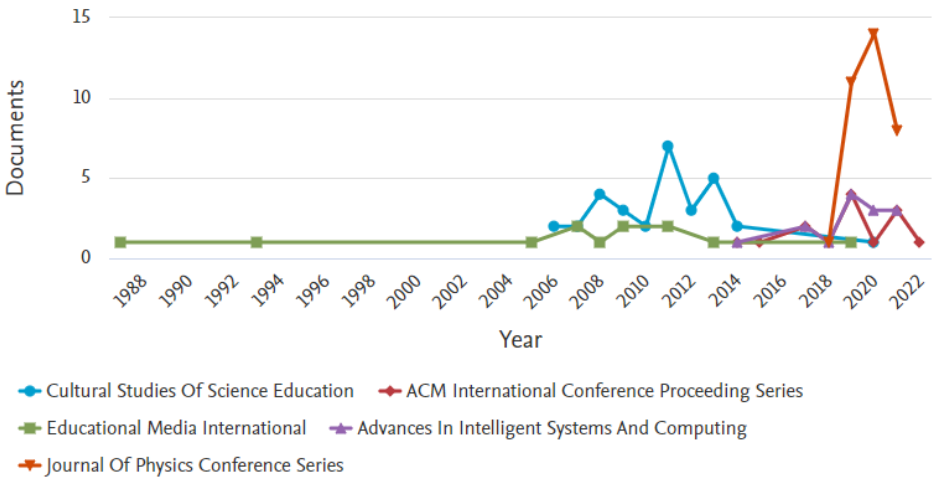

Figure 3. Research in culture education media learning documents by source. (Source: Scopus, 2023)

There are 10 countries as the top country or territory with culture education media learning research related documents. In the first place there are the United States with 410 documents. The second is United Kingdom with 158 documents. The third is Australia with 124 documents. The fourth is Indonesia with 104 documents. The fifth is Canada with 67 documents. The other countries are China with 66 documents, Germany with 65 documents, Spain with 65 documents, Brazil with 40 documents, and India with 38 documents. The United States is the country with the highest culture education media learning research documents related which is 410 documents.

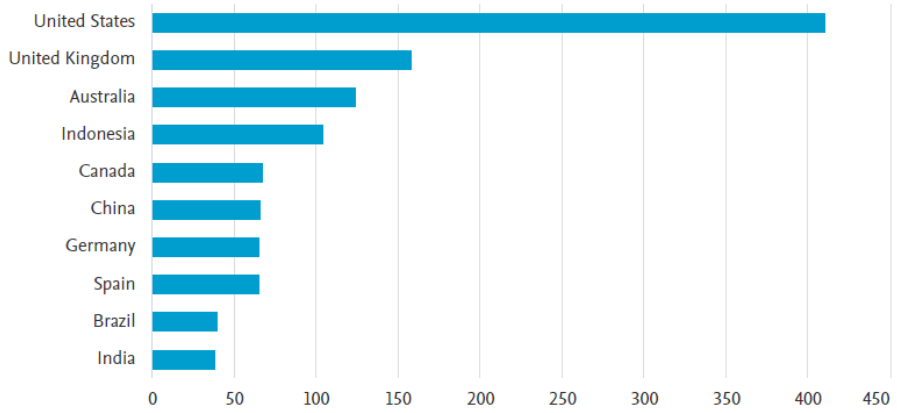

Figure 4. Research in culture education media learning documents by the country. (Source: Scopus, 2023)

There are top 10 affiliates of the data related to the culture education media learning research documents. The affiliates are University of Toronto with 14 documents. Arizona State University with 13 documents. UCL Institute of Education with 13 documents.

Pennsylvania State University with 12 documents. Deakin University with 12 documents. Monash University with 11 documents. Universitas Negeri Yogyakarta with 10 documents. Universitas Pendidikan Indonesia with 10 documents. City University of New York with 9 documents. The University of Sydney with 9 documents.

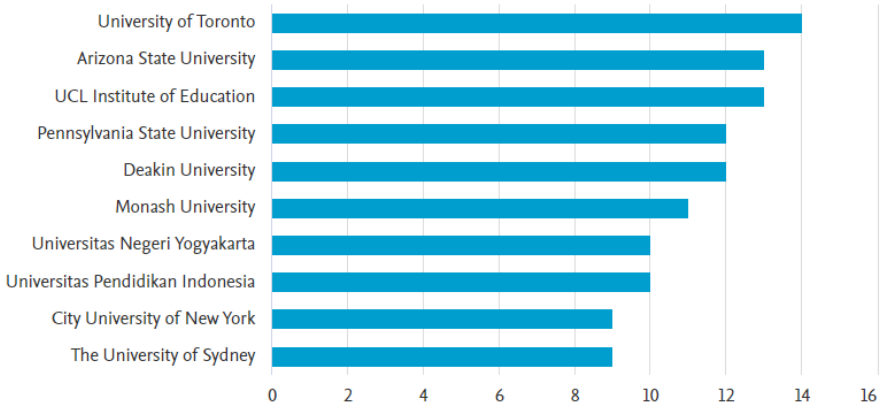

Figure 5. Research in culture education media learning documents by the affiliation. (Source: Scopus, 2023)

The subject area of the documents related with culture education media learning research from SCOPUS database saw several dominant area subjects. Subject area in the field of social sciences dominates with 1.104 documents (43.1%). The second dominance is occupied in the fields of computer science with 356 documents (13.9%), then in the fields of arts and humanities with 278 documents (10.9%). Further in the field of engineering with 196 documents (7.7%), medicine with 105 documents (4.1%), business, management, and accounting with 89 documents (3.5%), and the rest is other subject area.

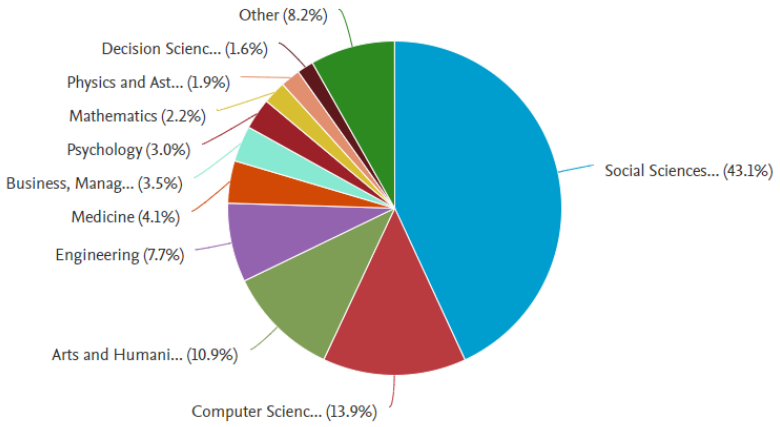

Figure 6. Research in culture education media learning documents by the subject area. (Source: Scopus, 2023)

The Influential Authors in Culture Education Media Learning Research

The influential authors of the documents related with culture education media learning research from SCOPUS database saw several authors. There is Renee Hobbs with 6 documents, Susan Edwards with 5 documents, Aleksandr Fadeev with 4 documents, Alexandra Milyakina with 4 documents, John Potter with 4 documents, Isabella Bruni with 3 documents, Paloma Castro-Prieto with 3 documents, Paul Chilsen with 3 documents, Martine Derivry-Plard with 3 documents, and Sahui Fan with 3 documents.

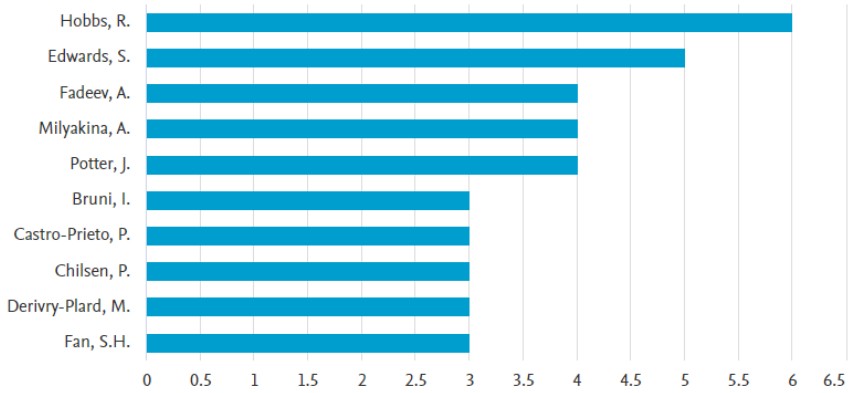

Figure 7. The influential authors in culture education media learning research. (Source: Scopus, 2023)

Figure 8. The network visualization of authors in culture education media learning research. (Source: Vos viewer, 2023)

The Most Citation in Culture Education Media Learning Research

Table 1. The top 10 cited documents of culture education media learning research on Scopus database

No	Document title	Authors	Year	Source	Cited by
1.	Language in late modernity: Interaction in an Urban School [3]	Rampton, B	2006	Language in Late Modernity: Interaction in an Urban School pp. 1-44	833
2.	A meta-analysis of blended learning and technology use in higher education: From the general to the applied [4]	Bernard, R.M., Borokhovski, E., Schmid, R.F., Tamim, R.M., Abrami, P.C	2014	Journal of Computing in Higher Education 26(1), pp. 87-122	368
3.	Social media and education: reconceptualizing the boundaries of formal and informal learning [5]	Greenhow, C., Lewin, C.	2016	Learning, Media and Technology 41(1), pp. 6-	313
4.	Generational changes and their impact in the classroom: Teaching Generation Me [6]	Twenge, J.M.	2009	Medical Education 43(5), pp. 398-405	223
5.	Attitudes, Norms, and Self-Efficacy: A Model of Adolescents' HIV-Related Sexual Risk Behavior [7]	Basen-Engquist, K., Parcel, G.S	1992	Health Education & Behavior 19(2), pp. 263-277	222
6.	Blended learning environments: Using social networking sites to enhance the first year experience [8]	McCarthy, J.	2010	Australasian Journal of Educational Technology 26(6), pp. 729-740	183
7.	Open Innovation Diplomacy and a 21st Century Fractal Research, Education and Innovation (FREIE) Ecosystem: Building on the Quadruple and Quintuple Helix Innovation Concepts and the "Mode 3" Knowledge Production System [9]	Carayannis, E.G., Campbell, D.F.J.	2011	Journal of the Knowledge Economy 2(3), pp. 327-372	175
8.	Cultures in negotiation: Teachers' acceptance/resistance attitudes considering the infusion of technology into schools [10]	Demetriadis, S., Barbas, A., Molohides, A., (...), Tsoukalas, I., Pombortsis, A	2003	Computers and Education 41(1), pp. 19-37	144

9.	The role of socio-psychological and culture-education motives in marketing international sport tourism: A cross-cultural perspective [11]	Funk, D.C., Bruun, T.J.	2007	Tourism Management 28(3), pp. 806-819	143
10.	Distance education as a response to pandemics: Coronavirus and Arab culture [12]	Al Lily, A.E., Ismail, A.F., Abunasser, F.M., Alhajhoj Alqahtani, R.H	2020	Technology in Society 63,101317	140

The Keywords in Culture Education Media Learning Research

There are several keywords usually used in culture education media learning research. Such as "education" with 276 documents, "students" with 163 documents, "e-learning" with 134 documents, "human" with 132 documents, "learning" with 125 documents, "teaching" with 124 documents, "social media" with 111 documents, "culture" with 102 documents, "humans" with 99 documents, and "engineering education" with 91 documents.

Research Gap and Future Culture Education Learning Media Research

Based on Vos viewer visualization, there are 4 clusters as key themes of the research in culture education learning media.

Cluster 1 (red), with 268 items of key themes including chapter, pedagogy, history, story, literacy, discourse, participatory, culture, etc.

Cluster 2 (green), with 200 items of key themes including factor, questionnaire, evaluation, learning medium, achievement, difficulty, etc.

Cluster 3 (blue), with 101 items of key themes including management, topic, support, industry, user, site, state, etc.

Cluster 4 (yellow), with 27 items of key themes including human, blended learning, e learning, language, enterprise, etc.

From these key themes can be as research gap in the future research of culture education learning media.

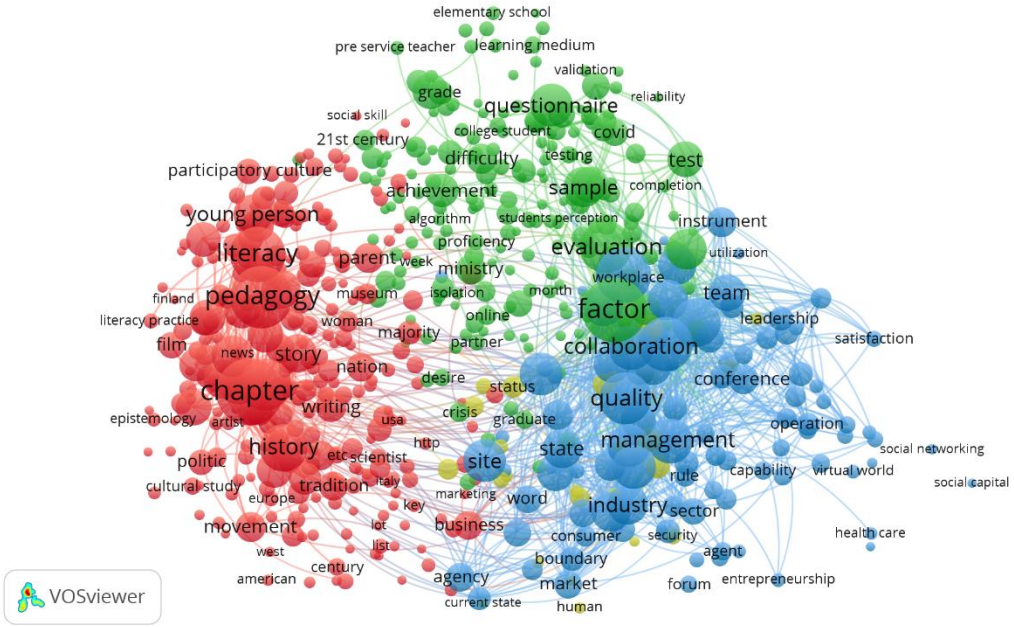

Figure 9. The network visualization of key themes in culture education media learning research.
(Source: Vos viewer, 2023)

CONCLUSION

Based on the exposure of the above data related to culture education learning media from SCOPUS database found a few results. The first result is that a document related to culture education learning media shows a dynamic trend with 2022 as the most productive year for culture education learning media research with 141 documents. The dominant type of document is articles with 903 documents (55,9%). The largest source of documents is in the publication of Journal of Physics Conference Series with 34 documents. The country with the most documents is the United States with 410 documents. The affiliate with the dominating number of documents is University of Toronto with 14 documents. The most area subjects are in the field of social sciences with a percentage of 43.1% or 1.104 documents.

REFERENCE

[1] T. T. De Back, A. M. Tinga, and M. M. Louwerse, "Learning in immersed collaborative virtual environments: design and implementation," *Interactive Learning Environments*, pp. 1–19, Dec. 2021, doi: 10.1080/10494820.2021.2006238.

[2] N. Donthu, S. Kumar, D. Mukherjee, N. Pandey, and W. M. Lim, "How to conduct a bibliometric analysis: An overview and guidelines," *J Bus Res*, vol. 133, pp. 285–296, Sep. 2021, doi: 10.1016/j.jbusres.2021.04.070.

[3] B. Rampton, *Language in late modernity: Interaction in an Urban School*. Cambridge University Press, 2006. doi: 10.1017/CBO9780511486722.

[4] R. M. Bernard, E. Borokhovski, R. F. Schmid, R. M. Tamim, and P. C. Abrami, "A meta-analysis of blended learning and technology use in higher education: From the general to the applied," *J Comput High Educ*, vol. 26, no. 1, pp. 87–122, 2014, doi: 10.1007/s12528-013-9077-3.

[5] C. Greenhow and C. Lewin, "Social media and education: reconceptualizing the boundaries of formal and informal learning," *Learn Media Technol*, vol. 41, no. 1, pp. 6–30, 2016, doi: 10.1080/17439884.2015.1064954.

[6] J. M. Twenge, "Generational changes and their impact in the classroom: Teaching Generation Me," *Med Educ*, vol. 43, no. 5, pp. 398–405, 2009, doi: 10.1111/j.1365-2923.2009.03310.x.

[7] K. Basen-Engquist and G. S. Parcel, "Attitudes, Norms, and Self-Efficacy: A Model of Adolescents' HIV-Related Sexual Risk Behavior," *Health Education & Behavior*, vol. 19, no. 2, pp. 263–277, 1992, doi: 10.1177/109019819201900209.

[8] J. McCarthy, "Blended learning environments: Using social networking sites to enhance the first year experience," *Australasian Journal of Educational Technology*, vol. 26, no. 6, pp. 729–740, 2010, doi: 10.14742/ajet.1039.

[9] E. G. Carayannis and D. F. J. Campbell, "Open Innovation Diplomacy and a 21st Century Fractal Research, Education and Innovation (FREIE) Ecosystem: Building on the Quadruple and Quintuple Helix Innovation Concepts and the 'Mode 3' Knowledge Production System," *Journal of the Knowledge Economy*, vol. 2, no. 3, pp. 327–372, 2011, doi: 10.1007/s13132-011-0058-3.

[10] S. Demetriadis *et al.*, "Cultures in negotiation: Teachers' acceptance/resistance attitudes considering the infusion of technology into schools," *Comput Educ*, vol. 41, no. 1, pp. 19–37, 2003, doi: 10.1016/S0360-1315(03)00012-5.

[11] D. C. Funk and T. J. Bruun, "The role of socio-psychological and culture-education motives in marketing international sport tourism: A cross-cultural perspective," *Tour Manag*, vol. 28, no. 3, pp. 806–819, 2007, doi: 10.1016/j.tourman.2006.05.011.

[12] A. E. Al Lily, A. F. Ismail, F. M. Abunasser, and R. H. Alhajhoj Alqahtani, "Distance education as a response to pandemics: Coronavirus and Arab culture," *Technol Soc*, vol. 63, 2020, doi: 10.1016/j.techsoc.2020.101317.