

## Emerging Technologies in Academic Libraries: A Scientometric Analysis based on the Scopus Database

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In this digital era, libraries use many new technologies for their functions and to cater library users. This study aimed to analyze the publications on emerging technologies in academic libraries that were indexed in the SCOPUS database. Specifically, it was intended to find out the co-authorship pattern of those publications and the co-occurrence of keywords used by the researchers, to identify emerging technologies, and to find out future research directions. While applying appropriate Boolean operators to the search string and limiting this process to Title-Abstract-Keyword, 335 articles were found using the search terms ‘Academic Libraries’ OR ‘University Libraries’ AND ‘Emerging Technologies’. Only journal articles published in English between 2001 and 2024 were considered as inclusion criteria for this study, and publications in the production stage or the press were excluded. Finally, 269 articles were selected for this study. Microsoft Excel and VOSviewer software applications were used to analyse bibliographic data and data visualization on keywords’ co-authorship patterns and co-occurrence. The results revealed that the highest number of articles on emerging technologies in libraries were published in 2019 (11%) and 2021 (11%), while no publications in this field were recorded in 2005. Most of them (9%) were published in the journal, *Library Philosophy and Practice*. The majority were collaborative studies, with the USA showing the highest level of author collaboration (57%), followed by India (10%). Interestingly, only one author was identified as having consistently collaborated with others across multiple studies. Authors from USA shows highest collaboration where they have collaborated with authors from 11 different countries with 152 (57%) articles. There were 43 technology related keywords among selected articles and out of those 43, the most cited emerging technologies were Digital Libraries, Artificial Intelligence (AI), Internet of Things (IoT), Electronic Resources, Open Access, Metadata, and E-learning. It could be recommended that further studies are required for identification of factors on impact of the adoption of emerging technologies such as generative AI to academic libraries, re-define the role of librarians in the context of the AI era, and studies on ethical use of emerging technologies such as AI-based technologies.

**Keywords:** *Academic Libraries, University Libraries, Emerging Technologies, University Education*