An Overview of New Scientometric Indicators

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Scientometrics is the technique of statistical and quantitative analysis of scientific texts, which is known as one of the most common methods of evaluating the general state of science, research, and technology at the national and international levels. This science emerged in the 1970s in Soviet Russia. Quantitative examination of scientific productions, scientific policy making, scientific communication of scholars, and drawing of science map are important part of the subjects of this field. The present qualitative study has been carried out using the library method. First, a comprehensive search was conducted in reliable domestic and foreign databases using the specific keywords of scientometrics, scientometric indicators, scientometric software, and their English equivalents. Electronic documents and articles related to this topic were searched and collected. After multi-stage screening, finally 15 articles were selected and then the final analysis was done. The search limit included articles published after 2018, except for some specific articles that needed to be referred to in order to complete the review. Considering the importance of scientometrics for the scientific community, this review article examines the new indicators of scientometrics. Therefore, first, scientometrics and its important and new indicators were introduced, then scientometric software and their applications were described, and finally, the general conclusion of the research was presented in the last part.

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