



Li zexia, female, born in 1977. In 2000, she graduated from the Department of computer science of Lanzhou University with a bachelor's degree in computer software; in 2003, she graduated from the department of computer science, school of information science and engineering, Lanzhou University with a master's degree in computer application technology, with a major field in database and data mining. In 2007, she graduated from the Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences and obtained a doctor's degree in physical geography. Since 2007, she has been working in the National Science Library, Chinese Academy of Sciences, engaged in strategic information research on major scientific and technological infrastructure, and accumulated a lot of practical experience of information research theories and methods during the research process. From June 1, 2016 to July 31, 2016, she studied in the UNU-MERIT as a senior visiting scholar. She is currently the head of the space photoelectric and major scientific and technological infrastructure team, an associate researcher. In total, she has published 17 papers related to information research, 9 of which are core papers, and 3 translation (monograph) books as the main finishers. She has undertaken more than 10 projects entrusted by the Chinese Academy of Sciences and local governments as the project leader in total. The research results were published in *Frontier in Research Metrics and Analytics*, *Library and Information Service*, *Science and Technology Management Research*, *New Technology of Library and Information Service*, *Scientific Observation* and other journals.

Research direction: scientometrics and application

Scientometrics is a subject with quantitative analysis of the input (such as researchers, research funds), output (such as the number of papers, patents, cited quantity), process (such as the formation of information dissemination, communication network) and policy support (such as strategy, planning) of scientific activities by applying mathematical methods such as mathematical statistics and computing technology, so as to reveal the development law of scientific research activities, evaluate the effectiveness of scientific research activities, and describe its characteristics. The application discipline includes not only the measurement of numerical data, but also the measurement of factual data. Scientometrics is the product of the intersection and integration of bibliometrics, information metrology and science of science. The results of scientific measurement can correct the deviation of qualitative analysis data, and provide a relatively objective basis for the research and establishment of science and technology policies in related fields. It is a very active field in the current information science and science of science research. Now the theory and method of scientometrics are closely combined with the strategic information research in specific subject field. The practice of information research and analysis also further promotes and develops the theoretical method of scientometrics.

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