

Thesis Title Journal Citation Analysis of Foreign Language Research
Articles Written by Members of the Faculty of Science,
Mahidol University

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ABSTRACT

The purpose of this research is to study the list of journals, frequency, publication date, languages and subjects of cited journals in foreign language research articles written by members of the Faculty of Science, Mahidol University and to compare the cited journals with the journals in the Faculty of Science Library.

This research was performed by analyzing cited journals in 327 foreign language research articles written by members of the Faculty of Science and published between 1980-1985.

The results of the analysis are summarized as follows:

The references cited in this journal citation analysis were totally 6,735 of which 5,752 were journal citations which was equivalent to 85.40 percent of the total references. All these citations contained complete bibliographical descriptions for conducting this detailed analysis.

In the study of the list of cited journals, the analysis indicated the total amount of 770 titles which included 708 in English, 29 in German, 21 in French, 4 in Japanese, 3 in Thai, 2 in Italian, 2 in Russian and only one title in Spanish.

The most frequently cited journals were found to be in English. They were Journal of Biological Chemistry, Tetrahedron Letters, Biochimica et Biophysica Acta and Nature consecutively.

In the case of publication date and languages of cited journals, the outcome of the analysis showed that the most frequently cited journals were the most recently published journals within the last 5 years, and the English journals were more frequently cited than those in other languages. The percentage out of the total cited journals were 32.82 and 97.27 respectively.

The subject of the most frequently cited journals appeared to be biochemistry which was equivalent to 13.40 percent of various subjects in all cited journals.

In comparing the cited journals with the list of journals in the Faculty of Science Library, Mahidol University, 227 titles or 29.48 percent of the total cited journals were already in the library's collection. Out of 227 journals, 212 titles were subscription journals and 15 titles were donated journals. The ratio was 93.29: 6.61.

The results of this research can be regarded as guidelines for serials librarian at the Faculty of Science, Mahidol University in developing many aspects of journal organization and management i.e. selection, acquisition, cancellation, binding and storage in order to cope with the library budget and to fulfill the quality and efficient service toward meeting users' needs.