Role of Women in Agricultural and Rural Development Citation Analysis Report

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Abstract: The purpose of this paper is to identify the Research and growth in particular research where the role of women in agricultural and rural development are analyzed with the help of citation analysis. The approach is used here to analyse the growth of particular research with the help of Bibliometric Analysis. Different analysis methods are used for analyzing the literature of Review; Bibliometric Analysis is one method of analyzing the growth and citation of research and identifying the leading journal in particular research.

Keywords: Bibliometric Analysis, Agricultural Development, Rural Development, Citation Analysis

1. INTRODUCTION

Women play an essential role in agricultural growth as well as in livestock keeping. About 2/3 of livestock keepers in rural areas depend on livestock income (FAO, 2011). Female farmers have an important place in agriculture and rural growth, but they are not significantly recorded. According to a statistical report, 1/3 of agricultural holdings belong to a female farmer. In Kenya, women constitute 85 percent of the rural population (Gundu Shibanda & Ingado Seru, 2002). In India, Women are actively involved with husband in agricultural activities and rural activities. In Countries like Vietnam, the female has an essential impact in the rural economy, but they are constrained by societal prejudices and limited educational opportunities (Kraus & Westhead, 2020). Women agricultural cooperatives have an important role in the growth of women entrepreneurs in rural areas like Turkey (Sefer, n.d.)

2. OBJECTIVE OF RESEARCH

The research objective is to identify the work of authors and analyze their contribution in particular areas.
- There are the following objectives of Research
- To identify the most important journal
- To find out the most important journals and disciples
- To find out the experts in particular research
- To give recommendation of important articles in particular research field

3. RESEARCH METHODOLOGY

Bibliometric analysis is used to identify the work of scholars and researchers. It is a technique to identify influential authors and their contribution to the field of research. Bibliometric method is a scientific mapping of all researchers' work with the help of different software tools like Vosviewer, Biblioshiny, Bibexcel, etc. Here Biblioshiny is used for citation analysis in a particular area. A Literature review is a five-step process that starts from scanning to making notes, structuring the literature review, writing the literature review and building a bibliography(Rowley & Slack, 2004).Here we are using a structured methodology for analyzing the data.

3.1 Search terms

This is the first step for bibliometric analysis where accurate search terms are selected for analysis purpose. The first search term "Role of women" AND "Agricultural growth" AND "Rural development OR Growth" are chosen to analyze the data to find out the data. Web of Science Database is selected for analysis purposes. Web of science database is selected for its vast availability of authentic Research work.

Keyword	Number of articles
TOPIC: (("Role of Women") AND ("Agircultural Growth" OR "Rural Development")) *Indexes=SCI-EXPANDED, SSCI, A&HCI Timespan=All years*	13
TOPIC: (role of women in agricultural and rural development) *Indexes=SCI-EXPANDED, SSCI, A&HCI Timespan=All years*	66
TOPIC: (("women") AND ("agricultural growth" OR "agricultural development" OR "Rural Devleopment" Or "Rural Growth")) *Indexes=SCI-EXPANDED, SSCI, A&HCI Timespan=All years*	101
TOPIC: (("women") AND ("agricultural	101

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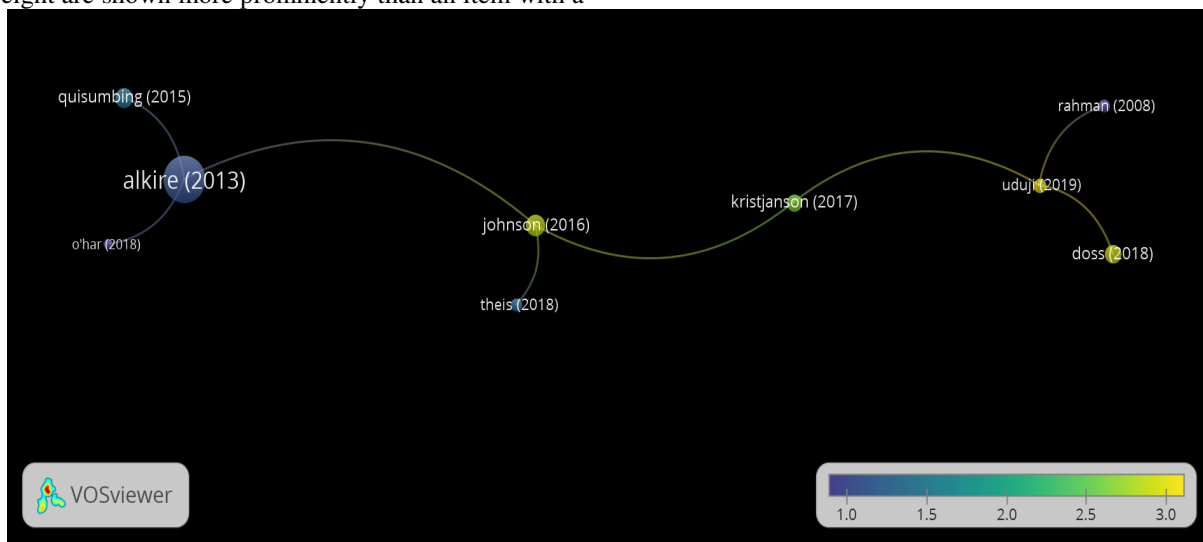
Keyword	Number of articles
growth" OR "agricultural development" OR "Rural Devleopment" Or "Rural Growth")) *Indexes = SCI-EXPANDED, SSCI, A&HCI* *Timespan = All years*	
TOPIC: (("women") AND ("agricultural growth" OR "agricultural development" OR "Rural Devleopment" Or "Rural Growth")) **Refined by: LANGUAGES:** (ENGLISH) *Indexes=SCI-EXPANDED, SSCI, A&HCI* *Timespan=All years*	101

3.2 Analysis of Search terms

This is the next step after finding the articles. All articles which are not related to topic are excluded and only English paper articles are considered. During this phase, exclusion and inclusion criteria of articles are selected.

4. BIBLIOMETRIC ANALYSIS

Packages like Vos Viewer, Biblioshiny, Bibexcel, etc. are available for analysis of data. Data is taken from the Web of Science. The data from Web of science is saved as a plain text (June, 2009) and analysis is done with the help of Biblioshiny, R studio package & Vos viewer. Vos viewer can be used to construct a network by citation. In Vos Viewer, items with higher weight are shown more prominently than an item with a lower weight. Here we are covering one type of Biblioshiny i.e., citation analysis. Citation analysis is done to analyze the most significant journal or publication (Kraus & Westhead, 2020). Our objective through this article is a performance analysis and science mapping (Kraus & Westhead, 2020)

Average Article Citations per year

4.1 Citation on the basis of documents

For Citation analysis minimum number of citation of a document are taken 10.Out of 76 documents, 32 meet the threshold of minimum 10 citation. Highest number of citation are of alkire (2013) i.e. 635. Largest set of connected items are 9 only.The distance between two article describe relatedness.
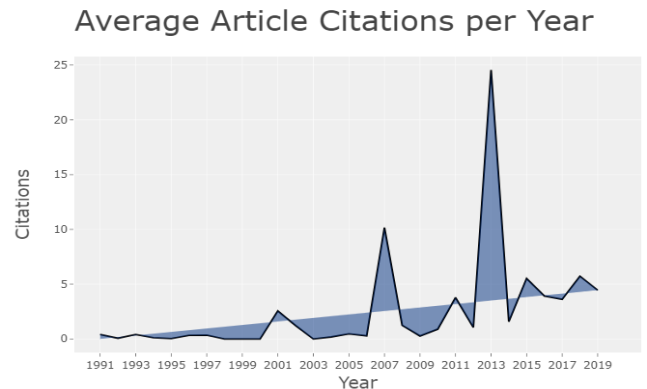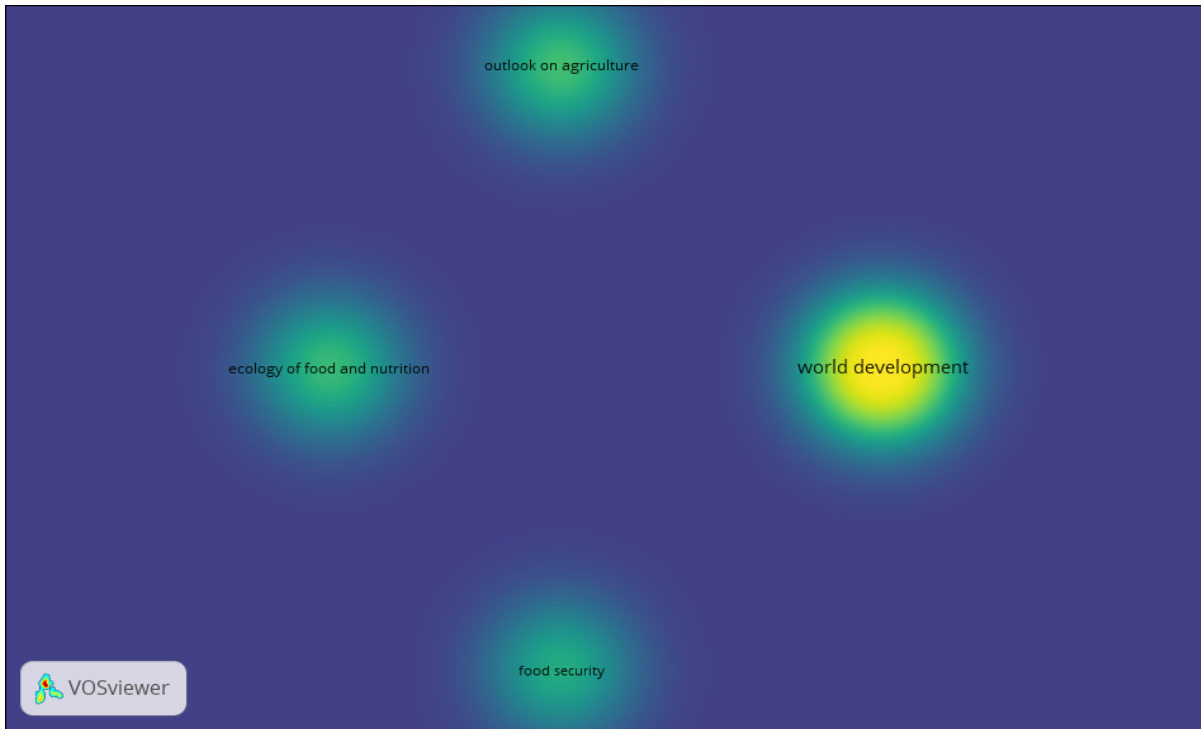

4.2 Citation based on the basis of source

Minimum numbers of documents of a source are taken 3 and minimum numbers of citations of a source are 10. Out of total 52 sourc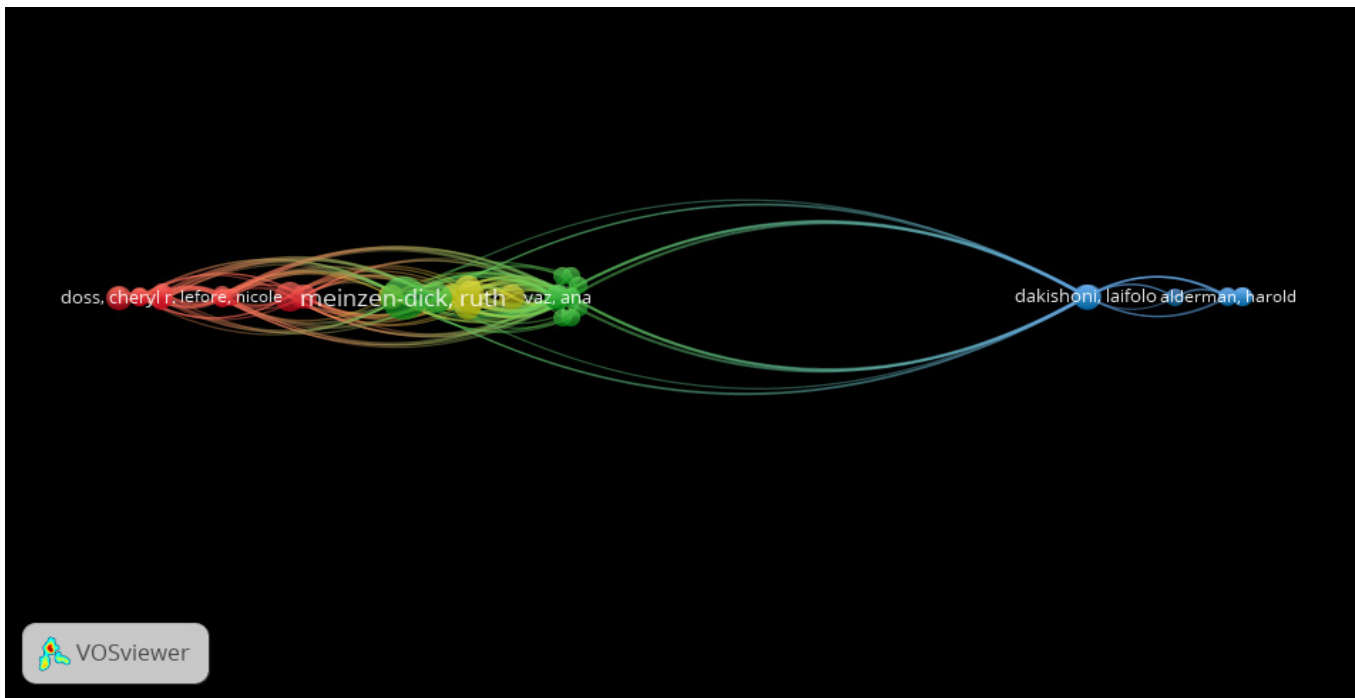es, 5 meet the thresholds. For each of the 5 sources, the total strength of the citation links with other sources will be calculated. The sources with the greatest link strength will be selected. World development has total documents are 8 followed by outlook on agriculture with total 4 articles and minimum number of citations are 300. Total link strength is 2

4.3 Citation-Unit of analysis (Authors)

During citation analysis based on the authors, documents with a large number of authors are not ignored. Minimum numbers of d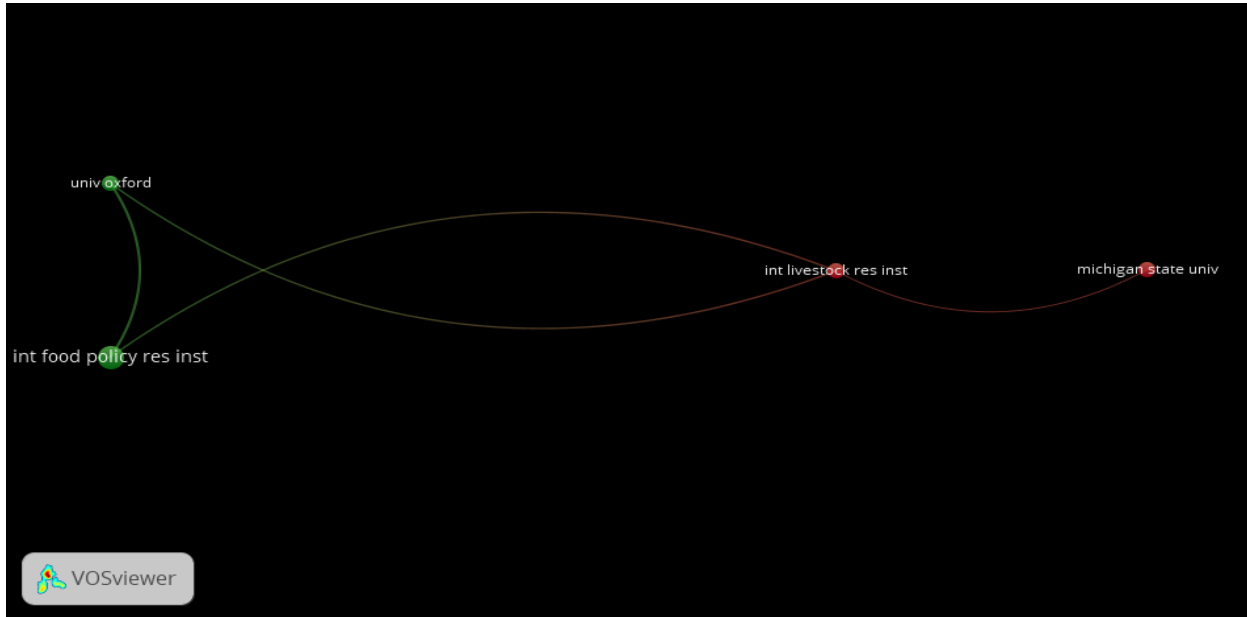ocuments of an author are taken one and minimum numbers of citations of an author are 10. Of the total 292 authors, 114 meet the thresholds. Meinzen-dick have total citations 342 and documents are 6. Total link strength is 77. Some of documents are not connected, therefore 48 documents are taken for analysis purpose.
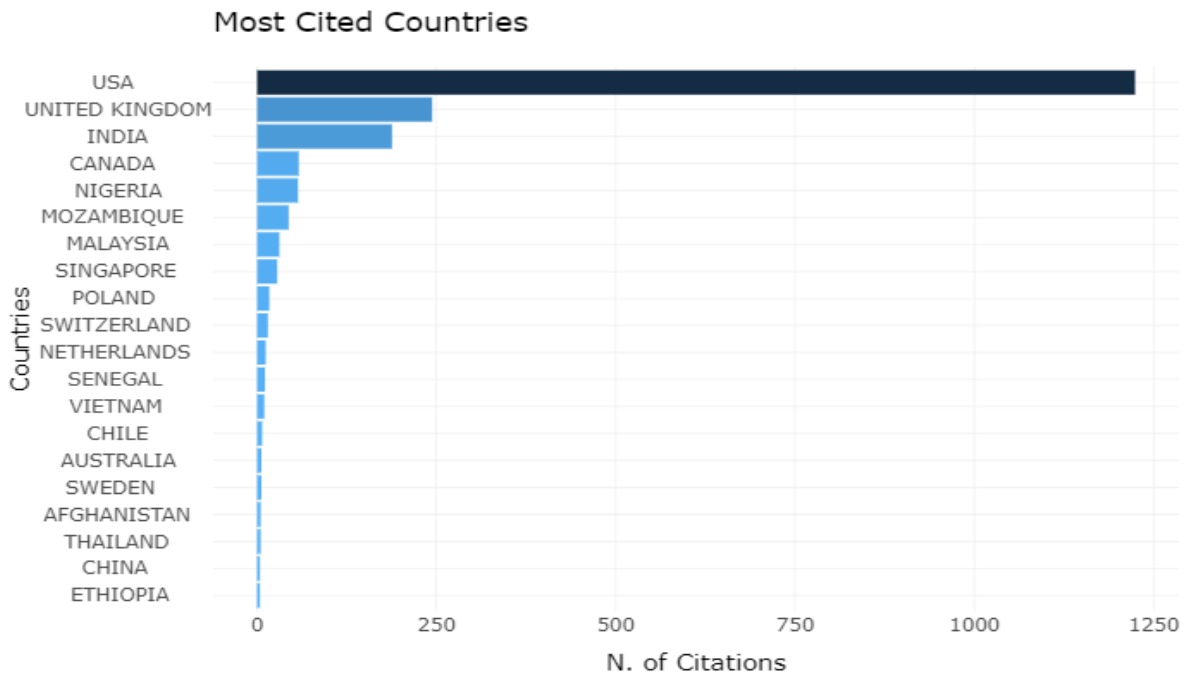
4.4 Citation-unit of analysis (Organisation)

Minimum numbers of documents of an organization are taken 4. Out of total 125 organizations, 4 meet the thresholds. The organisation with greatest link strength is selected. Total 4 organizations are selected.int food policy res inst has largest total citations 1030 and documents 9 and total link strength is 7.

4.5 Citation-Unit of analysis Country

USA country has total citations are 1224 and average article citations are 42.2 followed by United Kingdom with total citations are 244 with average article citations are 48.8

5. RESULTS AND DISCUSSION

The most important documents based on citation analysis is Alkire S, 2013. With a total 8 Local and 205 Global citations, World Dev is the most significant source collecting articles related to the study. The most important source is World Dev, with articles 139 followed by J Nutr with articles 37. The most cited country is USA with total citations 1224 with average total citations are 42.2. Citation analysis is necessary for future researchers to determine the growth of particular research and the most influential author and journal in a specific field. One limitation of citation analysis is that it gives importance to more cited articles and articles that are oldest have more weightage than new articles.

6. CONCLUSION

The role of women in agricultural and rural development is significant. Through citation analysis, it is clear that there is significantly less research in a particular field. Researchers can use work in this particular research area and can explore new things. Citation Analysis is necessary to know the important source, journals and authors in a particular area. Here a limited area of Bibliometric analysis is considered i.e., citation analysis. Future researchers can explore other area of Bibliometric analysis.

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