

## LITERATURE OF ARCHAEOLOGICAL ANTHROPOLOGY : A CITATION ANALYSIS

P ARAVINDA

Liby. Asstt.

University College

Sri Padamvathi Mahila Visvaavidyalayam

Tirupati (A.P.)

V PULLA REDDY\*

Lecturer

Department of Library & Information Science

Sri Venkateswara University

Tirupati

*Analysis of 1215 references cited in the review articles of Archaeological Anthropology published in Annual Review of Anthropology during the years 1980-82 reveals that most of the Archaeological Anthropology literature (57.78%) is published in the form of books and the remaining in other bibliographic forms. It also reveals that single author citations are more compared to two-author, three-author and more-than-three-author citations. A ranked list of cited journals indicates that the literature in the field of Archaeological Anthropology has been scattered in 82 periodicals. However, most of the research (52.18%) is published in seven periodicals. The periodical American Antiquity gets first rank for publishing most of the research work.*

### INTRODUCTION

Archaeological Anthropology, one of the branches of Anthropology, is concerned with the retrieval and study of human biological and cultural remains that have been left in the earth. Owing to the accelerated research and development activities in the field of Archaeological Anthropology, the literature has proliferated enormously. More over, this literature is scattered in a large number of journals due to its interdisciplinary nature. Hence it is necessary not only for the Archaeological Anthropologists but also for the librarians to identify the core journals in

which most of the literature of the subject is published.

Identification of core journals helps librarians, who, due to the rising costs of periodicals every year, ever increasing demands of user community for getting new periodicals, and diminishing budgetary provisions to meet the user requirements, are facing the problems in the procurement of useful periodicals within the given financial resources for providing effective service to the users of the library.

Citation analysis, which is one of the areas of bibliometrics can be used for identifying the core journals and for knowing the characteristic features of a discipline such as authorship pattern, scatter of literature in different bibliographic forms, and in different subjects, etc. Gross and Gross [1] for the first time used citation analysis as a tool for identifying the core journals in a subject based on counting the citations at the end of each article from a group of primary journals. Afterwards, a number of such studies were carried out based on citations in dissertations, books, primary journals and reviewing journals. However, the citation studies carried out by Singh [2], Sahai [3], Kapoor [4] and Raina [5] on citations given in reviewing journals, namely *Chemical Reviews*, *The Sociological Review*, *Annual Review of Earth and Planetary Sciences*, and *Annual Review of Biochemistry* are worth mentioning. No study was undertaken on the citations in *Annual Review of Anthropology*. Therefore, the present study makes an effort to know the characteristic features of Archaeological Anthropology literature including the core journals of it by analysing the

---

\*Present Address : Reader, Department of Library & Information Science, Andhra University, P.G. Extension Centre, Etcherla-532402.

citations in the review articles published in *Annual Review of Anthropology*.

## OBJECTIVES

The objectives of the present study are:

1. to know the distribution of citations in different bibliographic forms;
2. to know the authorship pattern; and
3. to identify the core journals.

## MATERIALS AND METHODS

The data for the present study is collected from 8 review articles relating to the field of Archaeological Anthropology published in *Annual Review of Anthropology* during the years 1980-1982. This reviewing journal is published by Annual Reviews Inc., Palo Alto, USA. There are 1215 citations cited by these review articles. All these citations are noted down on the slips as they are cited in the journal. They have been analysed according to the objectives stated earlier.

## RESULTS AND DISCUSSION

### *Bibliographic Forms*

The distribution of citations in different bibliographic forms is shown in Table 1. It is clear from it that books accounted for the highest number of citations, viz. 57.78%. Books, therefore, appear to be the most preferred source of information used by Archaeological Anthropologists. Journal articles are the second highest group accounting for 33.91%. The remaining 8.31% of total citations are distributed in other bibliographic forms.

### *Authorship Pattern*

Table 2 shows the distribution of citations according to the number of authors. It is evident from it that 82.30% of citations are contributed by single authors. Next to this, 13.50% of citations are contributed by two authors. The remaining citations are contributed by three authors (3.13%), four authors (0.66%) and more than four authors (0.41%).

### *Books*

The distribution of citations of books according to the number of authors is shown in Table 3. It is observed from it that most of the citations (82.62%) have one author only. The remaining citations are contributed by two (13.11%), three (3.56%), four (0.43%) and more than four (0.28%) authors.

### *Journal Articles*

The distribution of citations of journal articles according to the number of authors is shown in Table 4. It is observed from it that most of the citations (82.04%) have single authors. The remaining citations are contributed by two (14.80%), three (2.18%), four (0.49%) and more than four (0.49%) authors.

The above analysis reveals that the publications of single author in Archaeological Anthropology are more in number. This means that most of the Archaeological Anthropologists are carrying out field investigations individually and also publishing the results of those investigations individually.

### *Ranked list of cited journals*

Table 5 shows the ranked list of cited journals in Archaeological Anthropology. It is observed from it that the citations of articles of Archaeological Anthropology are scattered in 82 periodicals. However, most of the research (52.18%) is published in 7 periodicals (8.53% of the total periodicals) only. The periodical *American Antiquity* gets first rank for most of research being published, followed by *Ethnohistory*, *World Archaeology*, *Current Anthropology*, *Annual Review of Anthropology*, *Estud. Cult. Nahault*, and *Arctic Anthropology*. These 7 periodicals comprise half of the research in this branch. Therefore, these periodicals are the major source of research in this branch. Therefore, these periodicals are the major source materials for knowing about research in Archaeological Anthropology. The remaining literature is scattered in 75 periodicals (91.47% of total periodicals).

## ARCHAEOLOGICAL ANTHROPOLOGY : CITATION ANALYSIS

*Table 1*

*Distribution of cited literature in different Bibliographic forms*

Bibliographic forms	No. of Citations	%
Journal articles	412	33.91
Books	702	57.78
Conference proceedings, Seminars, Workshops and Annual Meetings	49	4.03
Theses/Dissertations	17	1.40
Technical reports	19	1.56
Monographs	3	0.25
Technical Bulletins	13	1.07
Unpublished Manuscripts	0	0.00
<b>Total</b>	<b>1215</b>	<b>100.00</b>

*Table 2*

*Distribution of citations according to number of authors*

No. of authors	No. of Citations	%
One	1000	82.30
Two	164	13.50
Three	38	3.13
Four	8	0.66
More than four	5	0.41
<b>TOTAL</b>	<b>1215</b>	<b>100.00</b>

*Table 3*

*Distribution of citations of books according to number of authors*

No. of authors	No. of Citations	%
One	580	82.62
Two	92	13.11
Three	25	3.56
Four	3	0.43
More than four	2	0.28
<b>TOTAL</b>	<b>702</b>	<b>100.00</b>

Table 4

*Distribution of citations of journal articles according to the number of authors*

No. of authors	No. of Citations	%
One	338	82.04
Two	61	14.80
Three	9	2.18
Four	2	0.49
More than four	2	0.49
<b>TOTAL</b>	<b>412</b>	<b>100.00</b>

Table 5

*Ranked list of cited journals*

Sl. No.	Rank	Title of the journal	CITATIONS			
					Cumulative	
			No.	%	No.	%
1	2	3	4	5	6	7
1.	1	American Antiquity	67	16.26	67	16.26
2.	2	Ethnohistory	60	14.56	127	30.82
3.	3	World Archaeology	24	5.83	151	36.65
4.	4	Current Anthropology	20	4.85	171	41.50
5.	5	Annual Review of Anthropology	15	3.64	186	45.14
6.	5	Estud. Cult. Nahault	15	3.64	201	48.78
7.	6	Arctic Anthropology	14	3.40	215	52.18
8.	7	American Anthropologist	13	3.16	228	55.34
9.	8	American Indigena	8	1.94	236	57.28
10.	8	Journal of African History	8	1.94	244	59.22
11.	8	Paleorient	8	1.94	252	61.16

ARCHAEOLOGICAL ANTHROPOLOGY : CITATION ANALYSIS

1	2	3	4	5	6	7
12.	8	Science	8	1.94	260	63.10
13.	9	Folklore	7	1.70	267	64.80
14.	9	South African Archaeological Bulletin	7	1.70	274	66.50
15.	10	American Ethnologist	6	1.46	280	67.96
16.	10	Journal of Latin American Studies	6	1.46	286	69.42
17.	11	American Journal of Physical Anthropology	5	1.21	291	70.63
18.	11	Anthropologica	5	1.21	296	71.84
19.	11	Antiquity	5	1.21	301	73.05
20.	11	Human Ecology	5	1.21	306	74.26
21.	11	Scientific American	5	1.21	311	75.47
22.	12	African Studies	4	0.97	315	76.44
23.	12	Hispanic American Historical Review	4	0.97	319	77.41
24.	12	Journal of Field Archaeology	4	0.97	323	78.38
25.	12	Journal of Polynesian Society	4	0.97	327	79.35
26.	12	Plains Anthropologist	4	0.97	331	80.32
27.	13	Annals of Natural Museum	3	0.74	334	81.06
28.	13	Azania	3	0.74	337	81.80
29.	13	Comparative Studies in Society and History	3	0.74	340	82.54
30.	13	Dialectical Anthropology	3	0.74	343	83.28
31.	13	Latin American Research Review	3	0.74	346	84.02
32.	13	East and West	3	0.74	349	84.76
33.	13	South African Journal of Science	3	0.74	352	85.50
34.	14	Africa	2	0.48	354	85.98
35.	14	Americas	2	0.48	356	86.46
36.	14	Annals of Economic Society Civilization Science	2	0.48	358	86.94
37.	14	Economia	2	0.48	360	87.42
38.	14	Fieldiana Anthropology	2	0.48	362	87.90
39.	14	Journal of Anthropological Research	2	0.48	364	88.38
40.	14	Journal of Near Eastern Studies	2	0.48	366	88.86
41.	14	Man	2	0.48	368	89.34
42.	14	Nature	2	0.48	370	89.82

1	2	3	4	5	6	7
43.	14	Population Studies	2	0.48	372	90.30
44.	14	Quaternaria	2	0.48	374	90.78
82.	15	38 Periodicals with one Citation	38	9.22	412	100.00

### CONCLUSIONS

The present study leads to following conclusions:

1. Most of the literature is published in Archaeological Anthropology in the form of books.
2. Most of the authors in Archaeological Anthropology are publishing their works individually.
3. The journal articles of Archaeological Anthropology are scattered in 82 periodicals. However, most of the research (52.18%) is published in seven periodicals. The *American Antiquity* gets first rank for publishing most of the research work.

### REFERENCES

1. Gross P L K and Gross E M: College libraries and chemical education. *Science* 1927, 66, 385-9.
2. Singh. M : Studies of chemical literature and changes in the ranking of periodicals by citation analysis of data for 1967-76. *Annals of Library Science and Documentation* 1978, 25, 55-61..
3. Sahai, S : Use of information in the literature of sociology: study of citation patterns. *Annals of Library Science and Documentation* 1979, 26, 107-10.
4. Kapoor S K : Citation analysis of earth science literature. *Annals of Library Science and Documentation* 1984, 31, 56-62..
5. Raina R : A study towards achieving stability in the ranks of some important journals in bio-chemistry. *Annals of Library Science and Documentation* 1984, 31, 162-72..