CHAPTER 5

ANALYSIS OF AUTHORS

5.1. Pattern of Authorship

5.2. Most Frequently Cited Authors and Their Works

5.2.1. Author Analysis of Journals

5.2.2. Author Analysis of Books
5. **ANALYSIS OF AUTHORS**

This type of information implies something about the authors who published in the journals at least in terms of their areas of specialization. However, contributors to the journals are likely to have a number of distinct characteristics in relation to multiple authorship, institutional affiliation, degree-granting institution, financial assistance, academic rank and sex.

5.1 **Pattern of Authorship**

The characteristics of any subject literature include not only the basic publishing patterns but that of the authors themselves. The approach taken here is an examination of the distribution of single and multiple authorship of 1078 research papers of the source journals. The results are presented in table 5.1.

The results show that the largest number of articles have been published by single authors and the number comes to 675 which is about 62.61% of the total contributions. The remaining 325 (i.e. 30.15%) are by two authors, 67 (6.22%) by three authors, and 11 (1.02%) by more than three authors, i.e. 0.74% by four authors and 0.28% by five and more authors. High incidence of single authorship has been reported by Hajjar et al. (1977) in political science. 

^1
Table 5.1
Pattern of Authorship

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<th>Authorship</th>
<th>Number of publications yearwise (Percent in parentheses)</th>
<th>Percent of total change from 1986 to 1990</th>
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<tr>
<td>One</td>
<td>124</td>
<td>124</td>
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<tr>
<td></td>
<td>(64.58)</td>
<td>(61.08)</td>
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<tr>
<td>Two</td>
<td>52</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>(27.08)</td>
<td>(31.53)</td>
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<tr>
<td>Three</td>
<td>13</td>
<td>11</td>
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<tr>
<td></td>
<td>(6.77)</td>
<td>(5.41)</td>
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<tr>
<td>Four</td>
<td>03</td>
<td>03</td>
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<tr>
<td></td>
<td>(1.56)</td>
<td>(1.48)</td>
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<tr>
<td>Five &amp; More</td>
<td>-</td>
<td>01</td>
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<tr>
<td></td>
<td>(0.49)</td>
<td>(0.46)</td>
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<tr>
<td>Total</td>
<td>192</td>
<td>203</td>
</tr>
<tr>
<td></td>
<td>(100)</td>
<td>(100)</td>
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</table>

From the table 5.1 it is also evident that the work of single authorship has been decreased by 6.35% from 1986 to 1990, and the variables measuring two authors have increased by 7.10%. Out of 37.39% cases of multiple authorship, 30.15% belong to two authors. Yearwise analysis revealed that the number of
single authored papers varied from 64.58% (1986) to 58.23% (1990) with an increase of maximum 67.54% (1988). The low incidence of multiple authorship is characteristics of the social sciences rather than physical and life sciences where the percentage of multi-authored papers is reported to be in the range from 67 to 83. But it is to be noted here that the percentage of multi-authored paper is increasing slightly during the years. For instance the percentage of two authored papers is increasing from 1986 to 1990 by 7.10%, i.e. in 1986 it is 27.08% and in 1990 it is 34.18%

5.2 Most Frequently Cited Authors and Their Works

Although the primary journal has remained in use as the major channel of communication of original research for well over three centuries now, its form has remained essentially the same. During this time, however, there has been as everyone knows a massive growth in the amount of scientific and technical research conducted, particularly in the period following the second world war. This increase in research activity has naturally resulted in a vast increase in the number of scientific and technical papers requiring publication. The scholarly scientific literature is always based on literature published earlier. Acknowledgement of earlier contributions by making references to earlier writings is an established practice in written communication. According to Weinstock, there are a number of specific reasons for the citation of documents:
(1) Paying homage to pioneers;
(2) Giving credit for related work;
(3) Identifying methodology, equipment, etc.;
(4) Providing background reading;
(5) Correcting one's own work;
(6) Correcting the work of others;
(7) Criticizing previous work;
(8) Substantiating claims;
(9) Alerting researchers to forthcoming work;
(10) Providing lead to poorly disseminated, poorly indexed or uncited work;
(11) Authenticating data and classes of fact physical constants, etc.;
(12) Identifying the original publications in which an idea or concept was discussed;
(13) Identifying the original publication describing an eponymic concept or term as, for example Hodgkin's disease, Pereto's law, Friedel-crafts Reaction;
(14) Disclaiming work or ideas of others; and
(15) Disputing priority claims of others.

The basic hypothesis underlying the use of citations as a method of evaluation is that items are cited by authors because they are of relevance and use. In 1926 in the 'Journal of the Washington Academy of sciences', Lotka published his classic paper on the frequency distribution of scientific productivity.
which presented an analysis of the number of publications listed in 'Chemical Abstracts' from 1907 to 1916 with the frequency of publications by particular authors. In recent years, there have been many analytical approaches different from Lotka's law for scientific productivity. Narin\textsuperscript{5} reviewed the early studies of scientific productivity and he concluded that "scientific talent is highly concentrated in a limited number of individuals". He, therefore, pointed out that the science policy should be designed to encourage the most productive scientists. 'Scientific productivity' is frequently measured in terms of published output. Perhaps, because the data on the number of publications by the authors can easily be collected and are also quite reliable. Lotka and many others have used the number of publications of an individual scientist as a measure of his scientific productivity. Dennis\textsuperscript{6} studied the relationship between quantity of publication by outstanding scientists and scientific recognition. He observed a close correlation between the quantity of scientific publication and the achievement of eminence as a contributor. We can therefore take the number of publications as a measure of scientific productivity. Since the number of articles published by an author can usually take only discrete values, it is reasonable to assume a discrete probability distribution function to describe the phenomenon of scientific productivity. The exponential growth of scientific knowledge can be interpreted as a 'contagion' process in which early adopters influence later adopters, which in turn creates an exponential increase in the numbers of publications and the numbers of new authors entering the area.
5.2.1 Author Analysis of Journals:

The examination of all the references made by authors in 1078 research papers and their analysis resulted in a total of 22,696 references to earlier writings, out of which they cited 12,735 research articles published in journals and 9,961 books and other non-serial documents. If we calculate the mean of the references cited then the average becomes 11.81 and 9.24 of journals and books respectively. Out of total citations of journals, i.e. 12,735 the authors have cited 10,136 references published in foreign journals and 2,599 references in Indian journals.

An analysis of all the 1,078 papers published in economics between 1986 and 1990 revealed that a few authors have been highly productive and majority had produced less than ten papers. Table 5.2 lists 106 authors (with their 2,962 citations) who are cited at least 10 times. During the construction of the network each citation was arranged alphabetically by authors and sub-arranged by titles. All the authors who have been referred to at least 10 times are pulled and a new file at 'most cited authors' is created.

These references covered a diversity of subjects. Table 5.2 lists the name of authors with their frequency of citations.
Table 5.2: Authors cited 10 or more times: Journals

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<th>Total papers</th>
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<td>2</td>
<td>Lucas, R.E.</td>
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<td>Becker, G.S.</td>
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<td>Sargent, T.J.</td>
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The following list contains full bibliographic details of the works of 37 authors that are most often cited in the network. The number in parentheses at the right of each author indicates the number of times that the work appeared in network. Here the authors having at least 30 citations in the research papers have been taken into consideration.

The Most Frequently Cited Authors and their Research Papers

1. Barro, R.J. (30)
Barro, R.J. (4)

Barro, R.J. (7)

Barro, R.J. (1)

Barro, R.J. (1)

Barro, R.J. (6)

Barro, R.J. (1)

Barro, R.J. (1)

Barro, R.J. (1)

Barro, R.J. (1)
Barro, R.J. (3)

Barro, R.J. (1)

Barro, R.J. (2)

Barro, R.J. (2)

Barro, R.J. (1)

Barro, R.J. (10)

Barro, R.J. (7)

Barro, R.J. (5)

Barro, R.J. (2)
Barro, R.J. (2)

Reputation in a model of monetary policy with Incomplete Information. Journal of Monetary Economics 17 (1986)

Barro, R.J. (1)


Barro, R.J. (13)


Barro, R.J. (1)


Barro, R.J. (5)


Barro, R.J. (5)


Barro, R.J. (8)


Barro, R.J. (6)

2. Lucas, R.E. (2)

Lucas, R.E. (9)

Lucas, R.E. (2)

Lucas, R.E. (1)

Lucas, R.E. (3)

Lucas, R.E. (6)

Lucas, R.E. (2)

Lucas, R.E. (13)

Lucas, R.E. (1)
Lucas, R.E. (2)


Lucas, R.E. (8)


Lucas, R.E. (2)


Lucas, R.E. (3)

Methods and problems in business cycle theory. Journal of Money, Credit and Banking 12 (1980).

Lucas, R.E. (1)


Lucas, R.E. (1)


Lucas, R.E. (4)


Lucas, R.E. (4)


Lucas, R.E. (3)


Lucas, R.E. (7)

Lucas, R.E. (1)


Lucas, R.E. (1)


Lucas, R.E. (13)


Lucas, R.E. (10)


Lucas, R.E. (1)


Lucas, R.E. (1)


Lucas, R.E. (1)


Lucas, R.E. (1)


3. Blanchard, O.J. (1)

Blanchard, O.J. (1)


Blanchard, O.J. (1)


Blanchard, O.J. (1)


Blanchard, O.J. (2)


Blanchard, O.J. (10)


Blanchard, O.J. (2)


Blanchard, O.J. (1)


Blanchard, O.J. (1)

Blanchard, O.J. (1)

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Heckman, J.J. (1)

Heckman, J.J. (1)


Heckman, J.J. (2)


Heckman, J.J. (4)


Heckman, J.J. (3)


Heckman, J.J. (1)


Heckman, J.J. (11)


Heckman, J.J. (2)


Heckman, J.J. (1)

33. Mankiw, N.G. (1)

The allocation of credit and financial collapse.

Mankiw, N.G. (1)


Mankiw, N.G. (1)


Mankiw, N.G. (1)

Consumer durables and the real interest rate.

Mankiw, N.G. (2)

Do we reject too often? Small sample properties of tests of rational expectations models. Economics letters 20 (1986).

Mankiw, N.G. (3)


Mankiw, N.G. (4)

Intertemporal substitution in macroeconomics.

Mankiw, N.G. (1)

Mankiw, N.G. (1)
Real business cycles : a new keynesian perspective

Mankiw, N.G. (1)

Mankiw, N.G. (12)

Mankiw, N.G. (3)

Mankiw, N.G. (2)

34. Solow, R.M. (1)

Solow, R.M. (5)

Solow, R.M. (5)
Solow, R.M. (8)


Solow, R.M. (1)


Solow, R.M. (1)


Solow, R.M. (1)


Solow, R.M. (3)


Solow, R.M. (6)


Taylor, J.B. (12)


Taylor, J.B. (2)

Taylor, J.B. (1)

Taylor, J.B. (2)

Taylor, J.B. (1)

Taylor, J.B. (4)

Taylor, J.B. (3)

Taylor, J.B. (4)

Taylor, J.B. (1)
Taylor, J.B. (1)


36. Eaton, J. (1)


Eaton, J. (6)


Eaton, J. (1)


Eaton, J. (2)


Eaton, J. (1)


Eaton, J. (1)

Eaton, J. (2)

Eaton, J. (1)

Eaton, J. (4)

Eaton, J. (1)

Eaton, J. (4)

Eaton, J. (6)

36. Neary, J.P. (1)
Neary, J.P. (1)

Neary, J.P. (1)

Neary, J.P. (6)

Neary, J.P. (4)

Neary, J.P. (1)

Neary, J.P. (1)

Neary, J.P. (8)

Neary, J.P. (7)
5.2.2 Author Analysis of Books:

Table 5.3 displays the names of authors of books with total citations and number of books in the following list, provides full bibliographical description of the books.

Table 5.3
Most Frequently Cited Authors of Books

<table>
<thead>
<tr>
<th>Rank</th>
<th>Author</th>
<th>Total Citation</th>
<th>No. of Books</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Keynes, J.M.</td>
<td>72</td>
<td>11</td>
</tr>
<tr>
<td>2</td>
<td>Friedman, M.</td>
<td>47</td>
<td>13</td>
</tr>
<tr>
<td>3</td>
<td>Robbins, L.</td>
<td>42</td>
<td>25</td>
</tr>
<tr>
<td>4</td>
<td>Hicks, J.R.</td>
<td>41</td>
<td>15</td>
</tr>
<tr>
<td>5</td>
<td>Sen, A.F.</td>
<td>35</td>
<td>11</td>
</tr>
<tr>
<td>6</td>
<td>Williamson, O.E.</td>
<td>24</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>Schumpeter, J.A.</td>
<td>23</td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>Atkinson, A.B.</td>
<td>21</td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>Marx, Karl</td>
<td>21</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>Tinbergen, J.</td>
<td>17</td>
<td>13</td>
</tr>
<tr>
<td>11</td>
<td>Weitzman, M.L.</td>
<td>15</td>
<td>4</td>
</tr>
<tr>
<td>12</td>
<td>Chenery, H.B.</td>
<td>14</td>
<td>7</td>
</tr>
<tr>
<td>13</td>
<td>Pechman, J.A.</td>
<td>10</td>
<td>7</td>
</tr>
<tr>
<td>14</td>
<td>Taylor, L.</td>
<td>6</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 388 134
From table 5.3, it can be seen that J.M. Keynes, M. Friedman, L. Robbins and J.R. Hicks are the 'Classic authors' in the field of economics making the maximum contributions in the field and used by researchers for writing research papers. An Indian A.K. Sen also occupies very high rank amongst authors of books.

The Most Frequently Cited Authors and Their Books

1. Keynes, J.M. (1)

   Keynes, J.M. (10)

   Keynes, J.M. (1)

   Keynes, J.M. (1)
   The end of laissez faire, 1926.

   Keynes, J.M. (1)

   Keynes, J.M. (43)
Keynes, J.M. (1)

How to pay for the war. London, MacMillan, 1940.

Keynes, J.M. (1)


Keynes, J.M. (1)

Some aspects of commodity markets. 1927.

Keynes, J.M. (3)


Keynes, J.M. (9)


2. Friedman, M. (1)


Friedman, M. (2)

The case for flexible exchange rates, Chicago, University of Chicago Press, 1953.

Friedman, M. (1)

Free to choose, Penguin, 1980.

Friedman, M. (2)

Income from independent professional practice. New York, NBER, 1945.

Friedman, M. (1)

The methodology of positive economics. Chicago, University of Chicago Press, 1953.
Friedman, M. (13)  

Friedman, M. (3)  
Monetary statistics of the United States,  

Friedman, M. (1)  

Friedman, M. (1)  

Friedman, M. (3)  
The optimum quantity of money. Chicago, Aldine,  
1969.

Friedman, M. (1)  
A program for monetary stability. New York,  

Friedman, M. (1)  
The quantity theory of money : a restatement.  

Friedman, M. (17)  
A theory of the consumption function. Princeton,  
3. Robbins, L. (1)

Robbins, L. (1)

Robbins, L. (4)

Robbins, L. (1)

Robbins, L. (1)

Robbins, L. (1)

Robbins, L. (2)

Robbins, L. (2)
   The Economic causes of war. New York, MacMillan, 1940.

Robbins, L. (2)

Robbins, L. (2)
Robbins, L. (2)


Robbins, L. (4)


Robbins, L. (1)


Robbins, L. (2)


Robbins, L. (1)


Robbins, L. (1)


Robbins, L. (1)


Robbins, L. (1)


Robbins, L. (2)


Robbins, L. (2)

4. Hicks, J.R. (3)

Hicks, J.R. (2)

Hicks, J.R. (1)

Hicks, J.R. (4)
   A contribution to the theory of the trade cycle.

Hicks, J.R. (2)
Hicks, J.R. (2)

Hicks, J.R. (1)

Hicks, J.R. (1)

Hicks, J.R. (1)

Hicks, J.R. (1)

Hicks, J.R. (1)

Hicks, J.R. (5)

Hicks, J.R. (5)

Hicks, J.R. (10)
Hicks, J.R. (2)

5. Sen, A.K. (3)

Sen, A.K. (1)

Sen, A.K. (1)
Commodities and capabilities. Amsterdam, North Holland, 1985.

Sen, A.K. (1)

Sen, A.K. (6)

Sen, A.K. (1)

Sen, A.K. (7)

Sen, A.K. (1)
Sen, A.K. (10)


Sen, A.K. (2)


Sen, A.K. (2)


6. Williamson, O.E. (1)


Williamson, O.E. (4)


Williamson, O.E. (10)


Williamson, O.E. (9)


7. Schumpeter, J.A. (1)

Schumpeter, J.A. (7)


Schumpeter, J.A. (1)


Schumpeter, J.A. (7)


Schumpeter, J.A. (7)


Atkinson, A.B. (1)


Atkinson, A.B. (2)


Atkinson, A.B. (16)


Atkinson, A.B. (1)


Atkinson, A.B. (1)

8. Marx, Karl. (9)
   Capital Vols I, II & III. London, Lawrence &
   Wishart, 1974.

Marx, Karl (1)
   A contribution to the critique of political econo-

Marx, Karl (1)
   The eighteenth Bumaire of louis Bonaparte. London,
   George Allen and Unwin, 1926.

Marx, Karl (1)

Marx, Karl (2)

Marx, Karl (2)
   Manifesto of the communist part. London, Lawrence
   & Wishart, 1946.

Marx, Karl (1)
   The Poverty of Philosophy. London, Lawrence &
   Wishart, 1956.

Marx, Karl (1)
   Precapitalist economic formations. London, Lawrence

Marx, Karl (1)
   A preface to a contribution to the critique of
   political economy. London, Lawrence & Wishart,
   1976.
Marx, Karl (2)

Theories of surplus value, Vols I, II & III.

10. Tinbergen, J. (1)

of Nations, 1939.

Tinbergen, J. (2)

Business cycles in the United Kingdom, 1870-1914.
Amsterdam, North Holland, 1951.

Tinbergen, J. (1)

Centralisation and decentralisation in Economic
policy. Amsterdam, North Holland, 1954.

Tinbergen, J. (1)

Development Planning. London, Weidenfeld and

Tinbergen, J. (1)

Dynamics of business cycles. Chicago, University

Tinbergen, J. (1)


Tinbergen, J. (1)

An econometric approach to business cycle problems.
Paris, Herman, 1937.

Tinbergen, J. (2)

Economic Policy : principles and design.
Amsterdam, North Holland, 1956.
Tinbergen, J. (1)  
*Essays in regional and world planning.*  
New Delhi, NCAER, 1966.

Tinbergen, J. (1)  
*Minimumproblemen in de Natuurkunde en de Ekonomie.* Amsterdam, 1929.

Tinbergen, J. (3)  
*On the theory of economic policy.* Amsterdam, North Holland, 1952.

Tinbergen, J. (1)  
Preadives Voor de vereniging Voor Staathuishoudkunde. The Hague, 1936.

Tinbergen, J. (1)  
*Statistical testing of business cycle theories.*  

11. Weitzman, M. (1)  

Weitzman, M. (1)  

Weitzman, M. (1)  

Weitzman, M. (12)  
12. Chenery, H.B. (ed.) (1)

Chenery, H.B. (1)

Chenery, H.B. (1)

Chenery, H.B. (5)

Chenery, H.B. (3)

Chenery, H.B. (2)

Chenery, H.B. (ed.). (1)

13. Pechman, J.A. (1)
Pechman, J.A. (1)

Pechman, J.A. (1)

Pechman, J.A. (2)

Pechman, J.A. (3)

Pechman, J.A. (ed.) (1)

Pechman, J.A. (ed.) (1)

14. Taylor, L. (1)

Taylor, L. (1)
Taylor, L. (3)
Structuralist macro economics. New York,

Taylor, L. (1)
Varieties of stabilisation experience: Towards sensible macroeconomics in the third world.
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1. HAJJAR (SG), BOWMAN (James S) and BRZEZINSKI (Steven J.). The literature of political science: professional journals in four nations. Int Soc Sci J XXIX, 2; 1977.


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