Current Comments

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The 250 Most-Cited Citation Classics from the Essential Decade 1955-1964

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Two years ago,¹ I reported the plans for publication of the 1955-1964 cumulation of the *Science Citation Index*[®] (*SCI*[®]). Since then, we have made occasional references to this compilation that contains more than 13,500,000 citations to more than 8,250,000 cited papers and books. For the record, this cumulation was distributed to our subscribers in April 1984. And you will be seeing ads in many journals describing this as the "essential" decade. Certainly the list of classic publications that follows demonstrates that point.

As is the custom for each SCI cumulation, the 1955-1964 set contains a separately published Guide and Lists of Source Publications.² It also contains several statistical tables. One of these shows the chronologic distribution of the references cited each year. In Table 1 we have reproduced the figure showing the matrix of citations from each of the 10 source years covered (1955-1964) to authored items published during the first 35 years back to 1930.

It is interesting to note an abrupt change in citation percentages between 1939 and 1940. This corresponds with the interruptions in publication that occurred during the war years. Among others, Derek J. de Solla Price has used these data to make extrapolations about the size of the literature of the 20th century.^{3,4} (There is no complete census of scientific papers and books.) In a typical year, four percent of the citations are to publications issued in the same year. There are about 11 percent to each of the two previous years. So more than 26 percent of the citations occur in less than three years!

When you cumulate these figures for the entire decade, these percentages change significantly. The last column in Table 1 summarizes the entire 10-year file. The "peak year" is 1960. We'll have more to say about such statistical patterns in the future.

The main purpose of this essay, however, is to call attention to the mostcited publications of that decade. In particular, we want to emphasize the 61 papers and books that have not been identified in earlier citation studies. These are indicated in the Bibliography at the end of this essay by the symbol "#." The other publications in the Bibliography have been discussed in previous essays.^{5,6} These papers and books are identified with various symbols to indicate the studies in which they have appeared.

Why did we not identify the 61 "new" classics in earlier studies? To publish the 1955-1964 SCI, we had to process the journal literature for 1955-1960. We also added more journals to the then-existing files for 1961-1964. For this reason, many of these key papers and books, mainly for the 1950s, were not identified. These works were well-cited soon after publication in most cases, but did not reach the citation threshold established in our earlier studies.

Incidentally, the list of 250 publications that follows was first published in the *Guide* to the newly issued cumula-

tion for 1955-1964. The Bibliography is identical, but we have added here, in columns A and B, the citation frequencies for each paper for 1955-1964 and for 1965-1983. This dichotomy provides an interesting perspective on the longevity of most classical papers. It does not, however, tell us about the early citation history of each paper, except in the case of papers published in the 1960s, of which there are only seven. Indeed, the study tells us nothing about papers published in this decade that became well cited in later years. Such delayed recognition is not uncommon.

Far from delayed recognition, the least-cited publication by John A. Sibley and Albert L. Lehninger was cited 290 times from 1955 to 1964 and 346 times thereafter. The average number of citations for items in the Bibliography was 517 and 1,828, respectively, for the two periods. By contrast, the most-cited item, Lowry's Folin phenol method of protein determination, received 5,021 cites for the decade and needs no further comment by me. Lowry has done this admirably on two separate occasions.^{7,8} The oldest paper, however, is the one by Folin and Wu published in 1919.

If we censor the data to exclude the 189 papers and books that appeared in previous citation studies, the citation average for 1955-1964 is 371 and 354 for 1965-1983. When you censor the data to exclude just the 98 super-cited classics (those cited over 1,000 times), these averages change to 450 cites for 1955-1964 and 486 for 1965-1983.

Most of the publications listed will be known to *Current Contents*[®] (CC°) readers as "classics" in their fields. If there is a commentary published on the relevant *Citation Classic*^{••}, the date and edition of the *CC* are indicated in parentheses after each entry in the Bibliography. There are 62 of these.

Some of the authors of these papers, not surprisingly, are dead. And a large number of items are single-author works. This is characteristic of an earlier era. Ninety-seven items had one author; 93 had two; 38, three; 8, four; and 13 had five or more. Bergey's Manual of Determinative Bacteriology, edited by Breed, Murray, and Smith, actually contained 94 additional contributors. Breed died before the book was published. Murray and Smith are also deceased. Strictly speaking, this multi-authored work should not have been included. Note that we did not check the SCI for each of the 94 separate contributors for additional cites.

We have often said that one of the greatest predictors of future citation activity is past performance. There is a remarkable increase in the use and citation of these works 10 or more years after the base year of 1955. Indeed, this includes papers published in earlier decades. Two of the oldest papers continue to be explicitly cited even today. Cyrus H. Fiske and Yellapragada Subba-Row, Harvard Medical School, coauthored a paper published in the Journal of Biological Chemistry in 1925. This methods paper was cited over 900 times in 1983 and 1984 alone. Clearly the determination of phosphate levels in the blood and urine remains important. The Fiske and SubbaRow paper is still cited in papers on calcium absorption and excretion.

Another example is the 1931 paper by George M. Higgins and Reuben M. Anderson, then of the Mayo Foundation, Rochester, Minnesota. They studied the regeneration rate after surgical removal of 65 to 75 percent of the rat liver. In the past two years, this paper was cited over 200 times, over half the number for the 1955 to 1964 period. In fact, it was cited over 2,000 times from 1965 to the present.

Perhaps the tacit definition of a classic is its longevity. But why is there so much variation for classic papers? One possible explanation is the rate at which methods and theories are absorbed into the literature in different countries and disciplines. What may be "old hat" to a molecular biologist in the US may be the alternative technology needed by a third-world scientist. A well-known field of mathematics in the USSR may be re-

Table 1: Science Citation Index[®], 1955-1964 chronological distribution of citations to authored items (non-patents).

Percentage of	of Unique	Citations
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	1955	1956	1957	1958	1959	1960	1961	1063	1062	1044	1955-1964
1964	1955	1950	1937	1930	1939	1900	1901	1962	1963	1964 3.91	Cumulated 1.00
1963									4.25	11.29	3.39
1962								3.83	10.17	10.98	4.54
1961							3.91	10.06	10.20	9.06	5.21
1960						4.09	10.46	10.73	9.05	7.69	5.83
1959					3.92	10.67	10.58	8.84	7.30	6.20	5.73
1958				3.93	10.77	10.84	8.85	7.27	6.13	5.21	5.61
1957			3.93	10.89	10.64	8.76	7.20	6.08	5.20	4.40	5.35
1956		3.91	10.71	10.92	8.69	7.37	6.22	5.23	4.48	3.80	5.19
1955	4.10	10.86	10.85	8.92	7.52	6.13	5.35	4.57	3.96	3.38	5.06
1954	10.81	10.64	8.73	7.24	6.26	5.20	4.55	3.88	3.40	2.89	4.60
1953	10.58	8.73	7.27	6.19	5.29	4.55	3.97	3.43	3.01	2.57	4.04
1952	8.46	7.14	6.01	5.09	4.44	3.85	3.39	2.94	2.61	2.20	3.39
1951	7.05	6.03	5.10	4.33	3.80	3.32	2.97	2.56	2.25	1.92	2.91
1950	5.98	5.12	4.40	3.76	3.35	2.91	2.57	2.27	1.99	1.73	2.59
1949	4.73	4.07	3.53	3.03	2.70	2.39	2.13	1.88	1.65	1.42	2.13
1948	3.75	3.22	2.82	2.44	2.17	1.93	1.72	1.53	1.32	1.17	1.74
1947	2.91	2.46	2.16	1.91	1.70	1.48	1.34	1.19	1.05	0.90	1.36
1946	2.17	1.85	1.64	1.44	1.29	1.14	1.04	0.92	0.81	0.71	1.05
1945	1.60	1.40	1.25	1.09	0.95	0.86	0.80	0.74	0.64	0.55	0.80
1944	1.51	1.35	1.18	1.06	0.92	0.85	0.76	0.69	0.61	0.52	0.77
1943	1.56	1.37	1.21	1.10	0.99	0.87	0.80	0.71	0.62	0.55	0.80
1942	1.68	1.45	1.27	1.15	1.03	0.94	0.84	0.76	0.68	0.59	0.84
1941	1.76	1.57	1.41	1.26	1.11	1.03	0.92	0.84	0.73	0.63	0.93
1940	1.83	1.58	1.41	1.28	1.17	1.02	0.94	0.85	0.76	0.65	0.96
1939	1.86	1.64	1.45	1.29	1.17	1.07	0.97	0.89	0.76	0.67	1.01
1938	1,76	1.58	1.42	1.27	1.13	1.02	0.95	0.86	0.76	0.65	0.99
1937	1.67	1.49	1.31	1.20	1.09	0.98	0.92	0.81	0.73	0.64	0.95
1936	1.50	1.38	1.25	1.11	0.99	0.90	0.84	0.77	0.67	0.58	0.89
1935	1.37	1.24	1.11	1.02	0.91	0.84	0.76	0.70	0.62	0.54	0.82
1934	1.25	1.11	1.04	0.92	0.83	0.76	0.71	0.64	0.57	0.49	0.76
1933	1.17	1.07	0.98	0.87	0.80	0.71	0.67	0.60	0.54	0.47	0.72
1932	1.12	1.05	0.92	0.84	0.74	0.68	0.65	0.58	0.52	0.45	0.70
1931	0.99	0.93	0.83	0.75	0.66	0.61	0.57	0.53	0.48	0.41	0.64
1930	0.92	0.85	0.80	0.70	0.63	0.58	0.56	0.49	0.45	0.40	0.62

cently rediscovered by mathematicians or computer scientists in the US or Japan. In addition, language and other barriers may account for the use of older literature by Soviet, Chinese, or other scientists.

Table 2 provides a chronologic analysis of publication dates. Ten percent of the items were published before 1940; 25 percent in the 1940s. More than 50 percent were published in the 1950s. And three percent were published between 1960 and 1964. Naturally these percentages are affected by the exponential growth of the literature during that period. It is interesting to observe the differences in the percentage of classics published in the various 5- and 10-year periods shown in Table 2 in column A. In Table 2: Chronologic distribution of publication dates of the 250 most-cited items from the 1955-1964 SCI® cumulation. A=publication year. B=number of items. C=percent of items. D=percent of citations, 1955-1964 cumulation (last column, Table 1).

Α	В	С	D
1910-1919	1	.4	•
1920-1929	6	2.4	•
1930-1939	18	7.2	8.1
1940-1944	18	7.2	4.3
1945-1949	44	17.6	7.1
1950-1954	89	35.6	17.5
1955-1959	67	26.8	26.9
1960-1964	7	2.8	20.0

*Years prior to 1930 account for 16.1 percent of the citations represented in the cumulation.

columns B and C, the numbers and percentages for classics are shown. In column D is the corresponding figure obtained from the last column of Table 1.

Whereas 10 percent of the classics were published before 1940, about 24.2 percent of citations in the 1955-1964 cum are pre-1940. While 25 percent of the classics were published in the 1940s, there were only 11.4 percent of citations to this period. On the other hand, about two-thirds of the classics were published in the 1950s, while only 44.4 percent of the cites go to these years. While 36 percent of the classics were published in the early 1950s, only 17.5 percent of the cites were to this period. Twenty-seven percent were published in the late 1950s, and 26.9 percent of the cites were to this period.

In general, classics or best-known papers are more current than the average least frequently cited paper. This would tend to indicate that, more often than not, important or milestone papers have more immediate impact than average papers and then continue to be heavily cited. The 250 papers in this study account for about 0.01 percent of the estimated papers published that could be cited. They received, however, 0.5 percent of the cites, or about 50 times the average. This figure matches the results for other studies of highly cited authors, as, for example, our study of Nobel Prize winners.9

Although we have reported on highly cited books in the past, these studies have been limited. We are planning to do more about this in the future. Ten of the 28 books listed have not turned up in the studies that we cited in the Bibliography. We did not attempt to identify multi-authored book volumes. This will be of special interest, when we have detailed analyses of multi-authored volumes, in planning a citation index to scientific books. The Bergey Manual mentioned earlier was the exception because it was so consistently cited under the editor's name. Note that in the early history of the SCI, we treated both the cited chapter author and the editor as separate citations.

Like lists of most-cited authors, this list is deficient in certain respects. We have not made allowances for field or disciplinary differences. The most-cited work in fields like botany, radioastronomy, mathematics, and so on, would not turn up on this undifferentiated list. Every identifiable discipline or specialty warrants its own analysis. To do justice to all of the fields of science covered in the SCI, we would have to publish a separate study every day of the year. That this would give me great pleasure is a truism. But there are limitations in time and space. That is why we encourage scholars to use our databases to develop lists relevant to their particular needs. We are eager to work with professional societies and others with this purpose in mind. However, we do plan to do a research-front analysis of the 1955-1964 file so that we can cluster the core papers for each field. We plan to publish that compilation as a supplement to the cumulation.

There are 49 Nobel Prize authors in the Bibliography: 16 in physics, 12 in chemistry, and 21 in biomedicine. While citation analysis cannot predict who will win a Nobel Prize, it is interesting that four were identified in our earlier studies of scientists before they had been recognized formally as being of Nobel class. A much larger number are members of academies or have been recognized by other significant awards.

While 61 publications ("#" in the Bibliography) are unique to this study, 10 of these have been identified earlier as *Citation Classics*. Therefore, 51 have not necessarily been invited to comment on their papers. Forty-three percent of these articles were in biomedicine.

The most-cited "new" ("#" in the Bibliography) classic is the 1958 paper by Strominger and colleagues, University of California, Berkeley, cited about 600 times from 1955 to 1964, and about 250 times from 1965 to the present. The paper presents a comprehensive table of

all the radioactive and stable isotopes of the chemical elements. It includes halflife values and other salient features of each isotope.

Another newly identified paper was written by Don H. Nelson and Leo T. Samuels, University of Utah, College of Medicine, Salt Lake City. Published in 1952 in the Journal of Clinical Endocrinology and Metabolism, the paper describes a method for measuring cortisol levels in blood. Cortisol is a naturally occurring steroid that, among other things, controls inflammation in the body. It is produced by the adrenal glands. Synthetic cortisol, or hydrocortisone, is used to treat rheumatoid arthritis. Nelson discussed this paper in Current Contents in 1981.10 "The many citations of the paper are probably due to the fact that this was not only the first reproducible method for the measurement of '17-hydroxycorticosteroids' in peripheral blood or plasma but also the first demonstration that cortisol was the major circulating corticosteroid, and establishment of the amounts present in the circulation."

A final example is one of the four listed papers by George E. Palade, Rockefeller Institute, New York. This classic appeared in the Journal of Biophysics and Biochemical Cytology in 1956. It reviews the history of the endoplasmic reticulum, which was identified in 1945 by Keith R. Porter, Albert Claude, and E. F. Fullam, also of the Rockefeller Institute. They discovered a new cytoplasmic system that was characterized by a reticular disposition and vesicular component elements. Few, if any, of these vesicular elements were found in the exoplasmic, or peripheral area, of the cytoplasm. They seemed to be concentrated in the endoplasmic, or inner fluid, of the cytoplasm.¹¹ Citations to this paper dropped off after 1964. While the paper was cited about 500 times in the first nine years, it has re-ceived "only" 200 since 1965. In fact, this paper and most others in the list are still cited many times more than that of the average paper indexed in the SCI.

I have stressed the longevity of most classic papers. At the same time, it is worth noting that the use of about six percent of these papers has fallen off significantly since 1964. Methods and ideas change. Certain works are superseded by others for a variety of reasons. For example, a 1961 paper by Sydney Brenner, University of Cambridge, UK, and colleagues, was cited 300 times in the first 4 years after publication, but only 150 times in the following 20 years. The authors of this article, published in Nature, investigated the way in which ribosomes receive genetic information from the gene. They agreed with other researchers who thought that ribosomal ribonucleic acid (RNA) was not the intermediate carrier of information from the gene to the protein. An unstable intermediate or "messenger" structure was thought to convey information from genes to ribosomes.12

Another paper that experienced a decline in explicit citations after 1964 is "Paper chromatography of steroids" by Robert B. Burton, Alejandro Zaffaroni, and E. Henry Keutmann, University of Rochester, New York. This paper received 366 citations from 1955 to 1964. From 1965 to 1983, it only picked up an additional 130 citations.

As you can see, some of the 59 newly identified classics did not receive enough citations from 1965 to 1983 for us to recognize that they were already citation classics. Others may not have turned up because our journal coverage in the late 1960s was not as completely balanced as is the coverage of the 1955-1964 cumulation. By using *Journal Citation Reports®*, we could observe gaps in our coverage for the primordial *SCI* first produced in 1963. We added dozens of journals not originally covered in the *SCI*.

Indeed, with hindsight, we can now detect gaps in our coverage of the late 1960s. We plan to fill in the data in future compilations. These gaps are not large. But when they occur, it is frustrating if you are trying to study the full history and development of a particular journal

or paper. And such historical uses of the SCI are increasing. This use of the SCI parallels the growth in the profession of the history of science. There are now 30 years of cumulated citation data available to search the scientific literature. You can use this information to trace the evolution of your particular field. By using the older years of cumulated SCI data, you can identify the primordial papers of your research specialty. These studies can confirm your subjective recollections.

We have already embarked on processing 1945-1954 journals so that the SCI will cover the post-war years. We can then work on the first half of the century. In the meantime, these data help us identify Citation Classics by older authors who are increasingly more difficult to locate. But we gain a special insight from these classic authors, so that when we do find them, we are grateful that they take the time and energy to tell newer generations about their pioneering work.

We invite any authors on this list of classics to submit Citation Classic commentaries if they have not already done so. Each will of course receive a formal invitation. We have made every reasonable effort to locate these authors, but it

is not always possible to do so. So we hope that CC readers will direct this invitation to those authors who have not yet written a commentary for publication in CC.

As a final note, we must apologize for the brevity of this list. Of the two million or more papers or books published in this decade, just to list the top 2,000 would cover less than one-tenth of one percent. Even during those early days when little science was well on its way to becoming big science, there were certainly several thousand scientist authors and their papers worthy of mention.

From past experience, we have learned how much these nostalgic vovages into the past interest our readers. So we expect to extend our listings for this highly productive decade in the future. Eventually this extended list of classics will be part of the larger database we are creating to identify the most active research fronts of this essential decade. Indeed, this will be yet another step in the direction of completing the Atlas Encyclopedia of Science.¹³

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in the preparation of this essay. ©1985 ISI

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The 250 most-cited items from the SCI^{\oplus} cumulation, 1955-1964, arranged in alphabetic order by first author. A = 1955-1964 citations. B = 1965-1983 citations. C = bibliographic data. An asterisk (*) indicates that the item was the subject of a *Citation Classic*^{**} commentary. The issue, year, and edition in which the commentary appeared are listed in parentheses following the bibliographic citation. The symbol # indicates that the item is appearing in an ISI[®] citation study for the first time. If the author's name. The volume and page numbers in square brackets after each item indicate where the item has been previously identified in a citation *Essays of an Information Scientist.* (See reference 5.) Items followed by a double dagger in square brackets [‡] appeared in *Current Contents* in 1984 in our five-part study of most-cited articles, 1961-1982. (See reference 6.) These will be included in Volume 7 of *Essays*, now in press.

A	В	C
672	1754	*Abell L L, Levy B B, Brodle B B† & Kendall F E. A simplified method for the estimation of total cholesterol in serum and demonstration of its specificity. J. Biol. Chem. 195:357-66, 1952. (34/79/LS) [‡]
427	21	#Ajzenberg F & Lauritsen T. Energy levels of light nuclei. V. Rev. Mod. Phys. 27:77-166, 1955.
577	474	*Ajzenberg-Selove F & Lauritsen T, Energy levels of light nuclei. VI. Nucl. Phys. 11:1-340, 1959. (13/79/PC&ES) [3:126]
436	768	#Albright F & Reifenstein E C. The parathyroid glands and metabolic bone disease. Baltimore, MD: Williams & Wilkins, 1948. 393 p.
484	720	Alder K, Bohr A, Huus B, Mottelson B & Winther A. Study of nuclear structure by electromagnetic excitation with accelerated ions. Rev. Mod. Phys. 28:432-542, 1956. [‡]
589	1200	*Allen R J L. The estimation of phosphorus. Biochem. J. 34:858-65, 1940. (39/82/LS) [‡]
304	360	*#Allen W M. A simple method for analyzing complicated absorption curves, of use in the colorimetric determination of urinary steroids. J. Clin. Endocrinol. 10:71-83, 1950. (24/79/LS)
308	291	#Amin A H, Crawford T B B & Gaddum J H. The distribution of substance P and 5-hydroxytryptamine in the central nervous system of the dog. J. Physiol. 126:596-618, 1954.
348	1237	Anson M L. The estimation of pepsin, trypsin, papain, and cathepsin with hemoglobin. J. Gen. Physiol. 22:79-89, 1938. [‡]
293	853	*Astrup T & Mullertz S. The fibrin plate method for estimating fibrinolytic activity. Arch. Biochem. Biophys. 40:346-51, 1952. (41/84/LS) [‡]
295	274	Avery O T, MacLeod C M & McCarty M. Studies on the chemical nature of the substance inducing transformation of pneumococcal types. J. Exp. Med. 79:137-58, 1944. [3:79]
310	352	Baker J R. The histochemical recognition of lipine. Quart. J. Microscop. Sci. 87:441-71, 1946. [3:48]
350	338	Baldwin E D, Cournand A & Richards D W. Pulmonary insufficiency. Medicine 27:243-78, 1948. [3:79]
324	375	*#Bandurski R S & Axelrod B. The chromatographic identification of some biologically important phosphate esters. J. Biol. Chem. 193:405-10, 1951. (48/81/LS)
752	1706	Bardeen J, Cooper L N & Schrieffer J R. Theory of superconductivity. Phys. Rev. 108:1175-204, 1957. [‡]
1446	1811	*Barker S B & Summerson W H. The colorimetric determination of lactic acid in biological material. J. Biol. Chem. 138:535-54, 1941. (46/83/LS) [‡]
279	261	Barton D H R ⁺ . The stereochemistry of cyclohexane derivatives. J. Chem. Soc. 1953:1027-40, 1953. [3:354]
604	735	Beliamy L J. The infra-red spectra of complex molecules. New York: Wiley, 1954. 323 p. [3:354]
490	598	Berenblum I & Chain E. An improved method for the colorimetric determination of phosphate. Biochem. J. 32:295-8, 1938. [2:613]
520	495	Berghuls J, Bertha I J, Haansppel M, Potters M, Loopstra B O, MacGillavry C H & Veenendal A L. New calculations of atomic scattering factors. Acta Crystallogr. 8:478-83, 1955. [3:126]
540	301	Biggs R & Douglas A A. The thromboplastin generation test. J. Clin. Pathol. 6:23-9, 1953. [2:660]
329	271	#Billingham R E, Brent L & Medawar P B. 'Actively acquired tolerance' of foreign cells. Nature 172:603-6, 1953.
346	324	#Billingham R E, Brent L & Medawar P B. Quantitative studies on tissue transplantation immunity. III. Actively acquired tolerance. Phil. Trans. Roy. Soc. London B 239:357-412, 1956.
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304	502	Bloch F. Nuclear induction. Phys. Rev. 70:460-74, 1946. [3:57]
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454	1192	Boas N F. Method for the determination of hexosamines in tissues. J. Biol. Chem. 204:553-63, 1953. [1]
707	993	#Bohr A & Mottelson B R. Collective and individual-particle aspects of nuclear structure. Mat. Fys. Medd. Dan. Vid. Selsk. 27(16):1-174, 1953. Burger B W & Transler H W. On the solution pair determination of constitution by the laffe reaction.
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