

Highly Cited Articles. 27.
Articles from German Journals

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Recently we published a list of the most cited German journals.¹ To supplement that study, as we've done with other national literatures, my staff has compiled a list of highly cited articles published in German journals. We defined a 'German journal' as one published in the Federal Republic of Germany or the German Democratic Republic. Thus, the list of papers that follows does not include important articles written by German scientists for other journals.

It is always difficult to decide how many articles to include. In this case, the list includes 60 articles cited more than 200 times during the period 1961-1975. We excluded nine articles published before 1930 because they were included in a recently published list of citation classics.² In spite of this, the list is longer than similar lists of articles from French and Japanese journals.^{3,4} During the same period only five French, and only twelve Japanese articles were cited more than 200 times. The ten most cited French-journal articles received an average of 244 citations; the Japanese, an average of 383. The top ten on the list that follows have an average citation count of 977.

The articles are listed in Figure 2. Figure 1 is a ranked list of the 22 journals in which they were published. Four journals contributed almost half: *Biochemische Zeitschrift/European Journal of Biochemistry* (12); *Angewandte Chemie* and *Angewandte Chemie International Edition* (9); *Chemische Berichte* (4); and *Zeitschrift für Naturforschung* (4).

Ten articles were published in the 1930s and 40s; nineteen in the 50s; and twenty-nine in the 60s. Two of the articles were published in 1970 (items 20 and 24). It is remarkable that they were cited more than 350 times in less than five years. However, both have peaked. The article by Caspersson *et al.*, published in English by scientists in Stockholm and Boston reached its citation peak in 1973 with 95 citations and has since declined (83 in 1974, and 55 in 1975). The Kessler article reached its citation peak in 1971 with 94 citations (an unusual immediacy of impact). Since then it has declined somewhat (65, 61, 54, 58), but may continue to be heavily cited for many more years.

It is very interesting to find that twenty-three of the articles--more than a third--were published either originally in English (17) or simultaneously in English (6) in the international edition of *Angewandte Chemie*. One of the articles was published in French in *Zeitschrift für Naturforschung* (item 15).

About a third of the articles are so-called 'methods papers,' but most of those tend to fall lower in the list than other conceptual or theoretic papers. It is also interesting that the articles are predominantly biological rather than chemical and physical.

The articles are listed in Figure 2 in descending order of total citations for the period 1961-1975. The entry for each gives, as in the past, an item number, total citations, and the bibliographic data. In addition, readers will find a new indicator, which we have

A	B
12	Biochem. Zschr. (Eur. J. Biochemistry)
9	Angew. Chemie (& Internat. Ed.)
4	Chem. Berichte
4	Zschr. Naturforschung
3	Hoppe-Seylers Zschr. Physiol. Chem.
3	Klin. Wschr.
3	Naunyn-Schmiedebergs Arch. Exp. Path. Pharmacol.
3	Pflugers Arch. Ges. Physiol. (Eur. J. Physiol.)
2	Chromosoma
2	Psychopharmacologia
2	Thromb. Diath. Haemorrh.
2	Zschr. Physik
2	Zschr. Zellforsch. Mikrosk. Anat. (Cell Tissue Res.)
1	Ann. Physik
1	Chemiker-Zeitung
1	Contrib. Mineral. Petrol.
1	Fortschr. Hochpolym.-Forsch.
1	Histochemie (Histochemistry)
1	Justus Liebig's Ann. Chemie
1	Die Pharmazie
1	Zschr. Krebsforschung
1	Zschr. Physikal. Chem. Frankfurt

Figure 1. Source of articles listed in Figure 2.
A = number of articles. B = Journal title.

nicknamed LOLA, an acronym for length-of-life adjustment.

LOLA is a rough adjustment of total citations to either of two facts. The total citation count covers the 1961-1975 period during which the *Science Citation Index*[®] has been published. Articles published either *before* 1961 or *early* during the 61-75 period have an advantage over articles published *later*. LOLA averages total citations over an article's cited life-span in the case of ar-

ticles published during the period, or divides the total count by 15 for articles published before 1961.

Thus, LOLA may serve as a simple indicator of more recently published 'classics' or of some up-and-coming contenders. While Warburg and Christian's classic paper on enolase heads the list with 1722 citations, its LOLA factor is lower than that for the Woodward and Hoffmann paper (item 4) on orbital symmetry. The length-of-life calculation will be much more interesting in selecting a world-wide list of recently published papers that are candidates for classic status.

To emphasize the peculiarities of this list of 'German' papers, note that item 12 is by two Japanese scientists, item 8 by two Australians, item 37 by two Englishmen, and item 57 by two Norwegians. In fact, in only 37 of the 60 cases is the senior author's affiliation or address German. The obvious point is that many journals published in Germany have become international. This fact is also reflected in changes of title from German to English, as indicated in Figure 1.

If we wish to study the relative impact of science in the various countries of Europe, we must aggregate our files not by journal but by individual articles selected on the basis of authors' addresses. Even that will not be completely satisfactory, since so much research today is a collaboration between scientists of two or more countries (note items 10, 15, 20, and 34, for example).

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2. -----, Highly cited articles. 26. Some classic papers of the late 19th and early 20th centuries. CC No. 21, 24 May 1976, p. 5-9.
3. -----, Journal citation studies. 23. French journals; what they cite and what cites them. CC No. 4, 26 January 1976, p. 5-10.
4. -----, Journal citation studies. 24. Japanese journals; what they cite and what cites them. CC No. 9, 1 March 1976, p. 5-10.

Figure 2. Highly Cited Articles from Highly Cited Journals Published in Germany. A = item no. B = Total Citations 1961-1975. C = LOLA. D = bibliographic data.

A	B	C	D
1.	1722	114.8	Warburg O & Christian W. Isolierung und Kristallisation des Gärungsferments Enolase (Isolation and crystallisation of the enzyme enolase). <i>Biochem. Zschr.</i> 310:384-421, 1941. --Kaiser Wilhelm Inst. Zellphysiol., Berlin.
2.	1535	102.3	Krebs H A & Henseleit K. Untersuchungen über die Harnstoffbildung im Tierkörper (Studies on urea formation in the animal organism). <i>Hoppe-Seylers Zschr. Physiol. Chem.</i> 210:33-66, 1932 --Med. Klin. Univ. Freiburg/Breisgau
3.	1369	91.3	Mejbaum W. Ueber die Bestimmung kleiner Pentosemengen, insbesondere im Derivaten der Adenylsäure (Determination of small quantities of pentose, particularly in derivatives of adenylic acid). <i>Hoppe-Seylers Zschr. Physiol. Chem.</i> 258:117-20, 1939. --Org. Chem. Inst., Techn. Hochschule München.
4.	962	137.4	Woodward R B & Hoffmann R. Die Erhaltung der Orbitalsymmetrie (The conservation of orbital symmetry). <i>Angew. Chemie</i> 81:797, 1969 (<i>Internat. Ed.</i> 8:781, 1969). --Dept. Chem., Harvard Univ.; Dept. Chem., Cornell Univ.
5.	816	91.3	Beisenherz G, Boltze H J, Bücher T, Czok K, Garbade K H, Meyer-Arendt E & Pfeleiderer G. Diphosphofruktose-Aldolase, Phosphoglyceraldehyd-Dehydrogenase, Milchsäure-Dehydrogenase, Glycerophosphat-Dehydrogenase und Pyruvat-Kinase aus Kaninchenmuskulatur in einem Arbeitsgang (One-step analysis of rabbit muscle diphosphofruktose aldolase, phosphoglyceraldehyde dehydrogenase, lactic acid dehydrogenase, glycerophosphate dehydrogenase, and pyruvate kinase). <i>Zschr. Naturforschung B</i> 8:555-77, 1953. --Physiol.-Chem. Inst. Univ. Hamburg.
6.	759	50.6	Westphal O, Lüderitz O & Bister F. Ueber die Extraktion von Bakterien mit Phenolwasser (Extraction of bacteria with phenol hydride). <i>Zschr. Naturforschung B.</i> 7:148-55, 1952. --Forsch.-Inst. A. Wander GmbH, Säckingen; Biochem. Abt. Chem. Inst. Univ. Göttingen.
7.	753	57.9	Huisgen R. 1,3-Dipolare Cycloadditionen; Rückschau und Ausblick (1,3-Dipolar cycloadditions; past and future). <i>Angew. Chemie</i> 75:604-37, 1963 (<i>Internat. Ed.</i> 2:565-98, 1963). --Inst. Org. Chem. Univ. München.
8.	663	94.7	Edman P & Begg G. A protein sequenator. <i>Eur. J. Biochemistry</i> 1:80-91, 1967. --St. Vincent's Sch. Med. Res., Melbourne.
9.	597	39.8	Hohorst H J, Kreutz F H & Bücher T. Ueber Metabolitgehalte und Metabolitkonzentrationen in der Leber der Ratte (Metabolite content and concentration in rat liver). <i>Biochem. Zschr.</i> 332:18-46, 1959. --Physiol. Chem. Inst. Univ. Marburg.
10.	590	59.0	Cahn R S, Ingold C & Prelog V. Spezifikation der molekularen Chiralität (Specification of molecular chirality). <i>Angew. Chemie</i>

- 78:413-47, 1966 (*Internat. Ed.* 5:385-415, 1966). --Chem. Soc., London; Univ. Coll., London; Eidg. Techn. Hochschule, Zürich.
11. 552 36.8 **Wagner H, Hörhammer L & Wolff P.** Dünnschichtchromatographie von Phosphatiden und Glykolipiden (Thin-layer chromatography of phosphatides and glycolipids). *Biochem. Zschr.* 334:175-84, 1961. --Inst. Pharmzeut. Arzneimittellehre Univ. München.
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 13. 501 55.7 **Druckrey H, Preussmarn R, Ivankovic S, Schmahl D, Afkham J, Blum G, Mennel H D, Muller M, Petropoulos P & Schneider H.** Organotrope carcinogene Wirkungen bei 65 verschiedenen N-Nitroseverbindungen an BD-Ratten (Organotropic carcinogenic effects of 65 different N-Nitroso-compounds in BD rats). *Zschr. Krebsforschung* 69:103-201, 1967. --Forschergr. Präventivmed. Max-Planck-Inst. Immunol., Freiburg/Breisgau.
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