

MILUTIN MILANKOVIĆ IN SCIENCE CITATION INDEX 1946 - 1996

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SUMMARY: The result of the investigation of presence of the most famous Serbian astronomer Milutin Milanković in the Science Citation Index for 1946-1996 is presented. Milutin Milanković (1879 - 1958) is the author of the mathematical theory of climate and he explained the origin of ice ages. His name bear one crater on the Moon, one on Mars and one asteroid. Within the considered period 522 citations of 17 works and scientific writing have been found. His capital work explaining the origin of ice ages, *Kanon der Erdbestrahlung und das Eiszeitproblem*, published in 1941, received 253 citations. Bibliography of the cited works with citation index is also given.

1. INTRODUCTION

With the appearance of the Science Citation Index - SCI, which, especially in natural sciences, covers the most important of the world wide published literature, the citation index method for the investigation of scientific production and its importance have been developed. It has been shown in numerous analyses and investigations (Hajtun, 1983 and references therein), that the number of citations is an indicator of *quality* of scientific work, its *value*, *usefulness* and *importance*. The citation index method is of interest to the historians of science as well, as it allows them to identify the most important authors, works and various formal and informal groups. It is also an indicator of the *individual contribution* to the science of a particular scientist and of his *prestige*. Moreover, data on citability show articles considered as important by scientists active just in given research field (Garfield and Welljams - Dorof, 1992).

Here is presented the result of the investigation of presence of the most famous Serbian astronomer Milutin Milanković in the SCI for 1946 - 1996. Milutin Milanković (1879 - 1958) is the author of the

mathematical theory of climate and he explained the origin of ice ages. His name bear one crater on the Moon, one on Mars and one asteroid. He was director of Belgrade Astronomical Observatory 1948 - 1951. His life, scientific and professional activity is described in Indjić (1997).

2. ANALYSIS

Within SCI published for 1946 - 1996, 522 citations of Milutin Milanković have been found. They refer to 17 scientific writings and books, three being indirect citations. All the cited works together with the found citations are given in the bibliography (indicated in Table 1 headings) and the citation distribution within the considered period is shown in Table 1. From 17 cited articles, 1-5 citations received 9 articles, 6-10 four, and articles No. 12, 2, 4 and 15 have 37, 46, 135 and 253 citations respectively.

The most cited work of Milutin Milanković is *Kanon der Erdbestrahlung und seine Anwendung auf das Eiszeitenproblem* (No 15 - Canon of Insolation and the Ice Age Problem) which has 253 citations in the considered period. This is the capital monogra-

phy of Milutin Milanković which includes results of his research previously published in 28 articles, collected as a whole, together with new additions and analyses and with numerous examples and applications of his theory. In this capital work Milanković gives the mathematical theory of climate of Earth and planets and explains the origin of ice - ages.

Looking in Table 1 at the citation distribution over the covered period, one can see that this is a unique work with citability not decreasing with time, but increasing or constant. In the period 1945 - 1960 Canon has 5 citations. In the period 1961 - 1975 it has one or two citations per year on the average. After a small increase (1976 five times, 1977 three times), in 1978 it has 8 citations. In the period 1978 - 1990 Canon is cited 6 - 12 times per year. A new jump like increase is in 1991, when Canon has 19 citations. It has 17 citations in 1992, 19 in 1993, 13 in 1994, 14 in 1995 and 14 in 1996.

The first jumplike increase of citations is probably connected with the holding of American CLIMAP (Climate Long Range Investigation, Mapping and Prediction) in 1976 (Hays, Imbrie and Shackleton, 1976), confirming completely Milanković's theory and his explanation of the ice ages problem. The second jumplike increase is due to geologists. In Perugia in 1988, was held the first international meeting on Cyclostratigraphy, whose groundwork presented the Milanković's theory of cyclic variations of climate.

When we compare the number of Canon citations with the number of citations of other astronomical papers of Serbian astronomers (Dimitrijević, 1996), one can see that Canon is the most cited (in the Science Citation Index data base) single work in astronomy originating from Serbia. One has to take into account also that Canon has been published in 1941 and that the number of citations generally decreases with time, while relatively recently published articles are more cited than old ones of the same importance.

Articles No. 12, 2 and 4, which have 37, 46 and 135 citations are closely connected with the mathematical theory of climate and their results are included in Canon.

In *Théorie mathématique des phénomènes thermiques produits par la radiation solaire* (Mathematical Theory of Thermic Phenomena produced by the Solar Radiation), published in 1920, Milanković develops a theory based on the Celestial Mechanics and Theoretical Physics principles, explaining the distribution of Solar radiation in interplanetary space and on planetary surfaces. He also shows the connection between the insolation and temperature of the planetary layers, and daily, annual and secular insolation variations.

Among the cited articles, interesting is his article from engineering praxis (*O membranama jednakog otpora - On membrans with equal resistance*) published in 1908, in which he describes the project of an one million liter water tower and finds its optimal shape. This article, published at the beginning of the century has eight citations in the considered period, the last one in 1986.

Table 1. Number of citations of works of Milutin Milanković in Science Citation Index for 1946 - 1996 period. Numbers heading the columns indicate the cited work:

- 1 - *O membranama jednakog otpora*, Rad JAZU, 1908, 175, Matematičko - Prirodoslovni razred 44, 140-152.
- 2 - *Théorie mathématique des phénomènes thermiques produits par la radiation solaire*, Paris, Zagreb, Gauthier-Villars et *C^{ie}*, Ed. Académie Yugoslave des Sciences et des Arts, 1920, 1-338.
- 3 - *Kalorična godišnja doba i njihova primena u paleoklimatskom problemu*, Glas SKA, CIX, 1923, 1-30.
- 4 - *Mathematische Klimalehre und Astronomische Theorie der Klimaschwankungen*, Handbuch der Klimatologie, Bd I, T.A. Hrsg. von W. Köppen und R. Geiger, Berlin, Gebrüder Borntraeger, 1930, 1-176.
- *Mathematische Klimalehre und Astronomische Theorie der Klimaschwankungen*, Berlin, Gebrüder Borntraeger, 1930, 1-176.
- *Matematicheskaya klimatologiya i astronomicheskaya teoriya kolebaniya klimata*. *Perevod s nemeckogo A. Kh. Khrgian*. Pod redakcijem prof. S. L. Bastamova. *S dobavljenim A. Kh. Khrgiana "Klimaty geologicheskikh epokh i peremeshcheniye materikov"*. Moskva, Leningrad, Gosudarstvennoe ob'edinennoe nauchno-tehnicheskoe izdatel'stvo, 1939, 1-207.
- 5 - *Astronomska teorija sekularnih varijacija klime*, Glas SKA, CXLIII, 1931, 27-89.
- 6 - *Drehbewegungen der Erde*, Handbuch der Geophysik, Bd 1, Lieferung 2, Abschnitt VI. Hrsg von Beno Gutenberg, Berlin, Gebrüder Borntraeger, 1933, 371-437.
- 7 - *Säkulare Pollverlagerungen*, Handbuch der Geophysik, Bd 1, Lieferung 2, Abschnitt VII. Hrsg von Beno Gutenberg, Berlin, Gebrüder Borntraeger, 1933, 438-500.
- 8 - *Numeričko izračunavanje sekularne putanje Zemljinih polova*, Glas Srpske Kraljevske Akademije, 1933, CLIV, Prvi razred, 77, 3-38.
- 9 - *Das Problem der Verlagerungen der Drehpole der Erde in den exakten und in den beschreibenden Naturwissenschaften*. *Erinnerungen an Alfred Wegener*, Publications mathématiques de l'Université de Belgrade, 1933, II, 166-188.
- 10 - *Der Mechanismus der Polverlagerungen und die daraus sich ergebenden Polbahnkurven*, Gerlands Beiträge zur Geophysik, 1934, 42, 70-97.
- 11 - *Zur Berechnung der Polfluchtkraft*. *Antwort auf die Bemerkungen von Herrn Grabowski*, Gerlands Beiträge zur Geophysik, 1934, 43, 325-326.
- 12 - *Astronomische Mittel zur Erforschung der Erdgeschichtlichen Klimate*, Handbuch der Geophysik, Bd IX, Lieferung 3, Abschnitt VII. Hrsg von Beno Gutenberg, Berlin, Gebrüder Borntraeger, 1938, 593-698.
- 13 - *Neue Ergebnisse der Astronomischen Theorie der Klimaschwankungen*, Bulletin de l'Acade-

- mie Royal Serbe, 1938, Academie des Sciences Mathématiques et Naturelles A, Sciences Mathématiques et Physiques, 4, 1-41 + 14 Tab.
- 14 - Ueber die Verwendung vektorieller Bahnelemente in der Störungsrechnung, Bulletin de l'Academie Royal Serbe, 1939, Academie des Sciences Mathématiques et Naturelles A, Sciences Mathématiques et Physiques, 6, 1-70.
- 15 - Kanon der Erdbestrahlung und seine Anwendung auf das Eiszeitenproblem, Belgrad, Königlich Serbische Akademie, 1941; Editions speciales, CXXXIII, Séction des Sciences Mathématiques et Naturelles 33, 1-633.
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- 16 - Astronomska teorija klimatskih promena i njena primena u geofizici, Beograd, Naučna knjiga, 1948, 1-159.
- 17 - Astronomische Theorie der Klimaschwankungen, ihr Werdegang und Wiederhall, Serbische Akademie der Wissenschaften, Monographien, CCLXXX, Mathematisches Institut, 3, 1957, 1-58.
- 18 - Milanković cited indirectly.

Table 1. Number of citations of Milanković's works in the period 1945 – 1996 according to SCI. 1946 – 1996

Year	Frequency of citations																		Total
	Numbers (1–18), heading the columns, indicate particular works																		
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	
1945				2															2
1946			2				1					1	1						5
1947				2								1		1					4
1948				1				1						1	1				4
1949				2															2
1950		1	1	1											1				4
1951																			0
1952														1					1
1953				2					1										3
1954															1				1
1955		1		1			1			1		3							7
1956				2								3							5
1957												1							1
1958															1				1
1959																			0
1960				1								1			1				3
1961		1		2		1	1					2		1	3				11
1962		1		1										1	1				4
1963				1										1	1				3
1964																			0
1965		1		2						1				2	2				6
1966	1	2		5						1		3		1	6				19
1967				1								1			1				3
1968		2		3			1				1	1			1				9
1969				3		1	1					1			2				8
1970												4	1		2				7
1971		1		1								2							4
1972	2	1		5											2	1			11
1973				1								1			2				4
1974				2									1		1				4
1975				6								1		1	2			1	11
1976				5								1	1		5				12
1977		1		1						2		1			3				8

Year	Frequency of citations																		Total
	Numbers (1–18), heading the columns, indicate particular works																		
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	
1978		1		7								1			8				17
1979	1	2		2								1	2		9				17
1980	1	1	1	3	1							1			7			1	16
1981		1		5								1			12				19
1982	1	1		6									1		9				18
1983				3										1	7				11
1984	1	1		5								2			7				16
1985	1	2		4											11				18
1986		4	3	3											8				15
1987		3		5								1			12				21
1988		1		5										1	12		1		20
1989		1		4											10				15
1990				1											6				7
1991		5		1											19				25
1992		4		4								1			17			1	27
1993		1		6						2					19				28
1994				9											13				22
1995		3		5											14				22
1996		3		4											14				21
Total	8	46	4	135	1	2	5	1	1	6	1	37	7	10	253	1	1	3	522

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МИЛУТИН МИЛАНКОВИЋ У ИНДЕКСУ ЦИТАТА ЗА 1946 - 1996

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Стручни рад

Дати су резултати истраживања присуства Милутина Миланковића у Индексу цитата за 1946 - 1996. У разматраном периоду нађено је 522 цитата 17 његових радова. Ње-

гово капитално дело Канон осунчавања Земље, цитирано је 253 пута. На крају је дата библиографија цитираних радова са радовима у којима се цитирају.