

# Anthony F J Van Raan

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101  
papers

6,802  
citations

47  
h-index

81  
g-index

107  
ext. papers

7,621  
ext. citations

3.9  
avg. IF

6.42  
L-index

#	Paper	IF	Citations
101	Fatal attraction: Conceptual and methodological problems in the ranking of universities by bibliometric methods. <i>Scientometrics</i> , <b>2005</b> , 62, 133-143	3	459
100	Comparison of the Hirsch-index with standard bibliometric indicators and with peer judgment for 147 chemistry research groups. <i>Scientometrics</i> , <b>2006</b> , 67, 491-502	3	380
99	The use of bibliometric data for the measurement of university research performance. <i>Research Policy</i> , <b>1985</b> , 14, 131-149	7.5	304
98	Sleeping Beauties in science. <i>Scientometrics</i> , <b>2004</b> , 59, 467-472	3	291
97	Towards a new crown indicator: Some theoretical considerations. <i>Journal of Informetrics</i> , <b>2011</b> , 5, 37-47	3.1	249
96	Mapping of science by combined co-citation and word analysis. I. Structural aspects. <i>Journal of the Association for Information Science and Technology</i> , <b>1991</b> , 42, 233-251		237
95	Advanced bibliometric methods as quantitative core of peer review based evaluation and foresight exercises. <i>Scientometrics</i> , <b>1996</b> , 36, 397-420	3	236
94	The Leiden ranking 2011/2012: Data collection, indicators, and interpretation. <i>Journal of the Association for Information Science and Technology</i> , <b>2012</b> , 63, 2419-2432		228
93	Language biases in the coverage of the Science Citation Index and its consequences for international comparisons of national research performance. <i>Scientometrics</i> , <b>2001</b> , 51, 335-346	3	219
92	The influence of international collaboration on the impact of research results. <i>Scientometrics</i> , <b>1998</b> , 42, 423-428	3	160
91	Towards a new crown indicator: an empirical analysis. <i>Scientometrics</i> , <b>2011</b> , 87, 467-481	3	152
90	Co-word-based science maps of chemical engineering. Part I: Representations by direct multidimensional scaling. <i>Research Policy</i> , <b>1993</b> , 22, 23-45	7.5	141
89	Citation analysis may severely underestimate the impact of clinical research as compared to basic research. <i>PLoS ONE</i> , <b>2013</b> , 8, e62395	3.7	137
88	A patent-based cartography of technology. <i>Research Policy</i> , <b>1994</b> , 23, 1-26	7.5	136
87	Comparative analysis of a set of bibliometric indicators and central peer review criteria: Evaluation of condensed matter physics in the Netherlands. <i>Research Policy</i> , <b>1998</b> , 27, 95-107	7.5	129
86	Measuring Science <b>2004</b> , 19-50		123
85	The Holy Grail of science policy: Exploring and combining bibliometric tools in search of scientific excellence. <i>Scientometrics</i> , <b>2003</b> , 57, 257-280	3	115

84	Mapping of science by combined co-citation and word analysis. II: Dynamical aspects. <i>Journal of the Association for Information Science and Technology</i> , <b>1991</b> , 42, 252-266		114
83	Scientometrics: State-of-the-art. <i>Scientometrics</i> , <b>1997</b> , 38, 205-218	3	105
82	On determinants of citation scores: A case study in chemical engineering. <i>Journal of the Association for Information Science and Technology</i> , <b>1994</b> , 45, 39-49		92
81	Integrating research performance analysis and science mapping. <i>Scientometrics</i> , <b>1999</b> , 46, 591-604	3	82
80	Structuring scientific activities by co-author analysis. <i>Scientometrics</i> , <b>1991</b> , 20, 235-255	3	82
79	A bibliometric analysis of six economics research groups: A comparison with peer review. <i>Research Policy</i> , <b>1993</b> , 22, 353-368	7.5	82
78	On Growth, Ageing, and Fractal Differentiation of Science. <i>Scientometrics</i> , <b>2000</b> , 47, 347-362	3	80
77	Measuring knowledge transfer between fields of science. <i>Scientometrics</i> , <b>2002</b> , 54, 347-362	3	77
76	For Your Citations Only? Hot Topics in Bibliometric Analysis. <i>Measurement</i> , <b>2005</b> , 3, 50-62	1.3	76
75	The neural net of neural network research. <i>Scientometrics</i> , <b>1993</b> , 26, 169-192	3	75
74	The application of bibliometric indicators: Important field- and time-dependent factors to be considered. <i>Scientometrics</i> , <b>1985</b> , 8, 177-203	3	73
73	Rivals for the crown: Reply to Opthof and Leydesdorff. <i>Journal of Informetrics</i> , <b>2010</b> , 4, 431-435	3.1	70
72	Influence of interdisciplinarity on peer-review and bibliometric evaluations in physics research. <i>Research Policy</i> , <b>2001</b> , 30, 357-361	7.5	70
71	Mapping Changes in Science and Technology: Bibliometric Co-Occurrence Analysis of the R&D Literature. <i>Evaluation Review</i> , <b>1994</b> , 18, 98-115	1.6	66
70	An exploration of the science base of recent technology. <i>Research Policy</i> , <b>1990</b> , 19, 61-81	7.5	65
69	In matters of quantitative studies of science the fault of theorists is offering too little and asking too much. <i>Scientometrics</i> , <b>1998</b> , 43, 129-139	3	64
68	Assessment of the scientific basis of interdisciplinary, applied research: Application of bibliometric methods in Nutrition and Food Research. <i>Research Policy</i> , <b>2002</b> , 31, 611-632	7.5	64
67	Statistical properties of bibliometric indicators: Research group indicator distributions and correlations. <i>Journal of the Association for Information Science and Technology</i> , <b>2006</b> , 57, 408-430		62

66	Is scientific literature subject to a Bell-By-Date? A general methodology to analyze the durability of scientific documents. <i>Journal of the Association for Information Science and Technology</i> , <b>2010</b> , 61, 329-339		61
65	Exploring the science and technology interface: inventor-author relations in laser medicine research. <i>Research Policy</i> , <b>1994</b> , 23, 443-457	7.5	58
64	Co-word-based science maps of chemical engineering. Part II: Representations by combined clustering and multidimensional scaling. <i>Research Policy</i> , <b>1993</b> , 22, 47-71	7.5	57
63	Absolute cross sections for excitation of helium by electrons (20-2000 eV) and the polarization of the emitted radiation. <i>Physica</i> , <b>1971</b> , 53, 45-59		57
62	Citation delay in interdisciplinary knowledge exchange. <i>Scientometrics</i> , <b>2001</b> , 51, 293-309	3	56
61	Severe language effect in university rankings: particularly Germany and France are wronged in citation-based rankings. <i>Scientometrics</i> , <b>2011</b> , 88, 495-498	3	55
60	Universality of citation distributions revisited. <i>Journal of the Association for Information Science and Technology</i> , <b>2012</b> , 63, 72-77		53
59	Scaling rules in the science system: Influence of field-specific citation characteristics on the impact of research groups. <i>Journal of the Association for Information Science and Technology</i> , <b>2008</b> , 59, 565-576		48
58	Bibliometric statistical properties of the 100 largest European research universities: Prevalent scaling rules in the science system. <i>Journal of the Association for Information Science and Technology</i> , <b>2008</b> , 59, 461-475		47
57	Impact measures of interdisciplinary research in physics. <i>Scientometrics</i> , <b>2002</b> , 53, 241-248	3	47
56	Dormitory of Physical and Engineering Sciences: Sleeping Beauties May Be Sleeping Innovations. <i>PLoS ONE</i> , <b>2015</b> , 10, e0139786	3.7	47
55	Monitoring scientific developments from a dynamic perspective: Self-organized structuring to map neural network research. <i>Journal of the Association for Information Science and Technology</i> , <b>1998</b> , 49, 68-81		47
54	Advanced mapping of science and technology. <i>Scientometrics</i> , <b>1998</b> , 41, 61-67	3	42
53	Advanced bibliometric methods to assess research performance and scientific development: basic principles and recent practical applications. <i>Research Evaluation</i> , <b>1993</b> , 3, 151-166	1.7	41
52	Peer review and bibliometric indicators of scientific performance: A comparison of cum laude doctorates with ordinary doctorates in physics. <i>Scientometrics</i> , <b>1987</b> , 11, 333-350	3	41
51	Research performance indicators for university departments: A study of an agricultural university. <i>Scientometrics</i> , <b>1993</b> , 27, 157-178	3	40
50	Cognitive resemblance and citation relations in chemical engineering publications. <i>Journal of the Association for Information Science and Technology</i> , <b>1995</b> , 46, 9-21		39
49	Sleeping beauties cited in patents: Is there also a dormitory of inventions?. <i>Scientometrics</i> , <b>2017</b> , 110, 1123-1156	3	35

48	A comparative study of bibliometric past performance analysis and peer judgement. <i>Scientometrics</i> , <b>1985</b> , 8, 149-159	3	34
47	Non-alphanumeric characters in titles of scientific publications: An analysis of their occurrence and correlation with citation impact. <i>Journal of Informetrics</i> , <b>2011</b> , 5, 608-617	3.1	33
46	Science as an international enterprise. <i>Science and Public Policy</i> , <b>1997</b> , 24, 290-300	1.8	32
45	Two-step competition process leads to quasi power-law income distributions. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2001</b> , 298, 530-536	3.3	32
44	Competition amongst scientists for publication status:Toward a model of scientific publication and citation distributions. <i>Scientometrics</i> , <b>2001</b> , 51, 347-357	3	32
43	Patent Citations Analysis and Its Value in Research Evaluation: A Review and a New Approach to Map Technology-relevant Research. <i>Journal of Data and Information Science</i> , <b>2017</b> , 2, 13-50	1.2	31
42	The "Mendel syndrome" in science: durability of scientific literature and its effects on bibliometric analysis of individual scientists. <i>Scientometrics</i> , <b>2011</b> , 89, 177-205	3	30
41	First evidence of serious language-bias in the use of citation analysis for the evaluation of national science systems. <i>Research Evaluation</i> , <b>2000</b> , 9, 155-156	1.7	30
40	Measurement of Central Aspects of Scientific Research: Performance, Interdisciplinarity, Structure. <i>Measurement</i> , <b>2005</b> , 3, 1-19	1.3	29
39	Universities scale like cities. <i>PLoS ONE</i> , <b>2013</b> , 8, e59384	3.7	28
38	Bibliometrics and internet: Some observations and expectations. <i>Scientometrics</i> , <b>2001</b> , 50, 59-63	3	28
37	Highly cited non-journal publications in political science, economics and psychology: a first exploration. <i>Scientometrics</i> , <b>2010</b> , 83, 363-374	3	27
36	Performance-related differences of bibliometric statistical properties of research groups: Cumulative advantages and hierarchically layered networks. <i>Journal of the Association for Information Science and Technology</i> , <b>2006</b> , 57, 1919-1935		27
35	Quasi-correspondence analysis on scientometric transaction matrices. <i>Scientometrics</i> , <b>1987</b> , 11, 351-366	3	26
34	Bibliometric cartography of scientific and technological developments of an R & D field. <i>Scientometrics</i> , <b>1994</b> , 30, 157-173	3	25
33	Self-citation as an impact-reinforcing mechanism in the science system. <i>Journal of the Association for Information Science and Technology</i> , <b>2008</b> , 59, 1631-1643		24
32	The use of combined bibliometric methods in research funding policy. <i>Research Evaluation</i> , <b>2001</b> , 10, 195-201	1.7	24
31	Mapping co-word structures: A comparison of multidimensional scaling and leximappe. <i>Scientometrics</i> , <b>1989</b> , 15, 283-295	3	24

30	Scaling rules in the science system: Influence of field-specific citation characteristics on the impact of individual researchers. <i>Journal of the Association for Information Science and Technology</i> , <b>2009</b> , 60, 740-753		23
29	Urban Scaling of Cities in the Netherlands. <i>PLoS ONE</i> , <b>2016</b> , 11, e0146775	3.7	21
28	A validation study of bibliometric indicators: The comparative performance of cum laude doctorates in chemistry. <i>Scientometrics</i> , <b>1989</b> , 17, 427-435	3	19
27	Properties of journal impact in relation to bibliometric research group performance indicators. <i>Scientometrics</i> , <b>2012</b> , 92, 457-469	3	18
26	Dynamics of a scientific field analysed by co-subfield structures. <i>Scientometrics</i> , <b>1989</b> , 15, 607-620	3	18
25	Fractal geometry of information space as represented by co-citation clustering. <i>Scientometrics</i> , <b>1991</b> , 20, 439-449	3	17
24	On the correlation between bibliometric indicators and peer review: reply to Opthof and Leydesdorff. <i>Scientometrics</i> , <b>2011</b> , 88, 1017-1022	3	16
23	Bibliometric analysis of psychotherapy research: performance assessment and position in the journal landscape. <i>Psychotherapy Research</i> , <b>2003</b> , 13, 511-28	3.6	16
22	Reference-based publication networks with episodic memories. <i>Scientometrics</i> , <b>2005</b> , 63, 549-566	3	16
21	Reply to the comments of Liu et al.. <i>Scientometrics</i> , <b>2005</b> , 64, 111-112	3	16
20	R&D evaluation at the beginning of the new century. <i>Research Evaluation</i> , <b>2000</b> , 9, 81-86	1.7	15
19	Assessment of social sciences: The use of advanced bibliometric methods as a necessary complement of peer review. <i>Research Evaluation</i> , <b>1998</b> , 7, 2-6	1.7	15
18	Measuring Science: Basic Principles and Application of Advanced Bibliometrics. <i>Springer Handbooks</i> , <b>2019</b> , 237-280	1.3	15
17	Searching for converging research using field to field citations. <i>Scientometrics</i> , <b>2011</b> , 86, 325-338	3	14
16	Do younger Sleeping Beauties prefer a technological prince?. <i>Scientometrics</i> , <b>2018</b> , 114, 701-717	3	13
15	Exploring the relationship between the engineering and physical sciences and the health and life sciences by advanced bibliometric methods. <i>PLoS ONE</i> , <b>2014</b> , 9, e111530	3.7	12
14	Theory-changing breakthroughs in science: The impact of research teamwork on scientific discoveries. <i>Journal of the Association for Information Science and Technology</i> , <b>2016</b> , 67, 1210-1223	2.7	10
13	Effects of the durability of scientific literature at the group level: Case study of chemistry research groups in the Netherlands. <i>Research Policy</i> , <b>2013</b> , 42, 886-894	7.5	9

12	Identification of converging research areas using publication and citation data. <i>Research Evaluation</i> , <b>2010</b> , 19, 19-27	1.7	9
11	Evaluating research proposals. <i>Nature</i> , <b>1995</b> , 375, 272	50.4	5
10	Urban scaling, geography, centrality: Relation with local government structures. <i>PLoS ONE</i> , <b>2020</b> , 15, e0238418	3.7	5
9	The occurrence of 'Sleeping Beauty' publications in medical research: Their scientific impact and technological relevance. <i>PLoS ONE</i> , <b>2019</b> , 14, e0223373	3.7	4
8	Advanced Bibliometric Methods in the Analysis of Research Performance and Scientific Developments: A Contribution to Science Policy in Transition Countries. <i>NATO ASI Series Partnership Sub-series 4, Science and Technology Policy</i> , <b>1999</b> , 89-105		2
7	German Cities with Universities: Socioeconomic Position and University Performance. <i>Quantitative Science Studies</i> , 1-29	3.8	1
6	Sleeping beauties gain impact in overdrive mode. <i>Scientometrics</i> , <b>2021</b> , 126, 4311-4332	3	0
5	Laudation on the occasion of the presentation of the Derek de Solla Price Award 2021 to Prof. Ludo Waltman at the ISSI conference, Leuven, 2021. <i>Scientometrics</i> , <b>2021</b> , 126, 8235-8238	3	
4	The occurrence of Sleeping Beauty publications in medical research: Their scientific impact and technological relevance <b>2019</b> , 14, e0223373		
3	The occurrence of Sleeping Beauty publications in medical research: Their scientific impact and technological relevance <b>2019</b> , 14, e0223373		
2	The occurrence of Sleeping Beauty publications in medical research: Their scientific impact and technological relevance <b>2019</b> , 14, e0223373		
1	The occurrence of Sleeping Beauty publications in medical research: Their scientific impact and technological relevance <b>2019</b> , 14, e0223373		