

# Anthony F J Van Raan

## List of Publications by Year in Descending Order

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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 | Sleeping beauties gain impact in overdrive mode. <i>Scientometrics</i> , <b>2021</b> , 126, 4311-4332   | 3   | 0         |
| 100 | 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   |           |
| 99  | Urban scaling, geography, centrality: Relation with local government structures. <i>PLoS ONE</i> , <b>2020</b> , 15, e0238418   | 3.7 | 5         |
| 98  | Measuring Science: Basic Principles and Application of Advanced Bibliometrics. <i>Springer Handbooks</i> , <b>2019</b> , 237-280  | 1.3 | 15        |
| 97  | 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         |
| 96  | The occurrence of Sleeping Beauty publications in medical research: Their scientific impact and technological relevance <b>2019</b> , 14, e0223373  |     |           |
| 95  | The occurrence of Sleeping Beauty publications in medical research: Their scientific impact and technological relevance <b>2019</b> , 14, e0223373  |     |           |
| 94  | The occurrence of Sleeping Beauty publications in medical research: Their scientific impact and technological relevance <b>2019</b> , 14, e0223373  |     |           |
| 93  | The occurrence of Sleeping Beauty publications in medical research: Their scientific impact and technological relevance <b>2019</b> , 14, e0223373  |     |           |
| 92  | Do younger Sleeping Beauties prefer a technological prince?. <i>Scientometrics</i> , <b>2018</b> , 114, 701-717   | 3   | 13        |
| 91  | 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        |
| 90  | Sleeping beauties cited in patents: Is there also a dormitory of inventions?. <i>Scientometrics</i> , <b>2017</b> , 110, 1123-1156  | 3   | 35        |
| 89  | Urban Scaling of Cities in the Netherlands. <i>PLoS ONE</i> , <b>2016</b> , 11, e0146775  | 3.7 | 21        |
| 88  | 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        |
| 87  | Dormitory of Physical and Engineering Sciences: Sleeping Beauties May Be Sleeping Innovations. <i>PLoS ONE</i> , <b>2015</b> , 10, e0139786   | 3.7 | 47        |
| 86  | 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        |
| 85  | 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         |

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| 84 | 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 |
| 83 | Universities scale like cities. <i>PLoS ONE</i> , <b>2013</b> , 8, e59384  | 3.7 | 28  |
| 82 | Universality of citation distributions revisited. <i>Journal of the Association for Information Science and Technology</i> , <b>2012</b> , 63, 72-77   |     | 53  |
| 81 | 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 |
| 80 | Properties of journal impact in relation to bibliometric research group performance indicators. <i>Scientometrics</i> , <b>2012</b> , 92, 457-469  | 3   | 18  |
| 79 | 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  |
| 78 | Searching for converging research using field to field citations. <i>Scientometrics</i> , <b>2011</b> , 86, 325-338  | 3   | 14  |
| 77 | Towards a new crown indicator: an empirical analysis. <i>Scientometrics</i> , <b>2011</b> , 87, 467-481  | 3   | 152 |
| 76 | 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  |
| 75 | 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  |
| 74 | 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  |
| 73 | Towards a new crown indicator: Some theoretical considerations. <i>Journal of Informetrics</i> , <b>2011</b> , 5, 37-47  | 3.1 | 249 |
| 72 | Identification of converging research areas using publication and citation data. <i>Research Evaluation</i> , <b>2010</b> , 19, 19-27  | 1.7 | 9   |
| 71 | 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  |
| 70 | 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  |
| 69 | Rivals for the crown: Reply to Opthof and Leydesdorff. <i>Journal of Informetrics</i> , <b>2010</b> , 4, 431-435   | 3.1 | 70  |
| 68 | 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  |
| 67 | 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  |

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| 66 | 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  |
| 65 | 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  |
| 64 | 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  |
| 63 | 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  |
| 62 | 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 |
| 61 | Measurement of Central Aspects of Scientific Research: Performance, Interdisciplinarity, Structure. <i>Measurement</i> , <b>2005</b> , 3, 1-19   | 1.3 | 29  |
| 60 | For Your Citations Only? Hot Topics in Bibliometric Analysis. <i>Measurement</i> , <b>2005</b> , 3, 50-62  | 1.3 | 76  |
| 59 | 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 |
| 58 | Reference-based publication networks with episodic memories. <i>Scientometrics</i> , <b>2005</b> , 63, 549-566   | 3   | 16  |
| 57 | Reply to the comments of Liu et al.. <i>Scientometrics</i> , <b>2005</b> , 64, 111-112   | 3   | 16  |
| 56 | Measuring Science <b>2004</b> , 19-50  |     | 123 |
| 55 | Sleeping Beauties in science. <i>Scientometrics</i> , <b>2004</b> , 59, 467-472  | 3   | 291 |
| 54 | 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 |
| 53 | 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  |
| 52 | Impact measures of interdisciplinary research in physics. <i>Scientometrics</i> , <b>2002</b> , 53, 241-248  | 3   | 47  |
| 51 | Measuring knowledge transfer between fields of science. <i>Scientometrics</i> , <b>2002</b> , 54, 347-362  | 3   | 77  |
| 50 | 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  |
| 49 | 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  |

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| 48 | 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  |
| 47 | 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 |
| 46 | Citation delay in interdisciplinary knowledge exchange. <i>Scientometrics</i> , <b>2001</b> , 51, 293-309  | 3   | 56  |
| 45 | Bibliometrics and internet: Some observations and expectations. <i>Scientometrics</i> , <b>2001</b> , 50, 59-63  | 3   | 28  |
| 44 | The use of combined bibliometric methods in research funding policy. <i>Research Evaluation</i> , <b>2001</b> , 10, 195-201  | 1.7 | 24  |
| 43 | 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  |
| 42 | On Growth, Ageing, and Fractal Differentiation of Science. <i>Scientometrics</i> , <b>2000</b> , 47, 347-362   | 3   | 80  |
| 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 | R&D evaluation at the beginning of the new century. <i>Research Evaluation</i> , <b>2000</b> , 9, 81-86  | 1.7 | 15  |
| 39 | Integrating research performance analysis and science mapping. <i>Scientometrics</i> , <b>1999</b> , 46, 591-604   | 3   | 82  |
| 38 | 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   |
| 37 | Advanced mapping of science and technology. <i>Scientometrics</i> , <b>1998</b> , 41, 61-67  | 3   | 42  |
| 36 | The influence of international collaboration on the impact of research results. <i>Scientometrics</i> , <b>1998</b> , 42, 423-428  | 3   | 160 |
| 35 | 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  |
| 34 | 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 |
| 33 | 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  |
| 32 | 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  |
| 31 | Science as an international enterprise. <i>Science and Public Policy</i> , <b>1997</b> , 24, 290-300   | 1.8 | 32  |

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| 30 | Scientometrics: State-of-the-art. <i>Scientometrics</i> , <b>1997</b> , 38, 205-218  | 3    | 105 |
| 29 | 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 |
| 28 | Evaluating research proposals. <i>Nature</i> , <b>1995</b> , 375, 272  | 50.4 | 5   |
| 27 | 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  |
| 26 | 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  |
| 25 | Bibliometric cartography of scientific and technological developments of an R & D field. <i>Scientometrics</i> , <b>1994</b> , 30, 157-173   | 3    | 25  |
| 24 | 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  |
| 23 | 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  |
| 22 | A patent-based cartography of technology. <i>Research Policy</i> , <b>1994</b> , 23, 1-26  | 7.5  | 136 |
| 21 | 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  |
| 20 | Research performance indicators for university departments: A study of an agricultural university. <i>Scientometrics</i> , <b>1993</b> , 27, 157-178   | 3    | 40  |
| 19 | The neural net of neural network research. <i>Scientometrics</i> , <b>1993</b> , 26, 169-192   | 3    | 75  |
| 18 | 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  |
| 17 | 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 |
| 16 | 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  |
| 15 | Structuring scientific activities by co-author analysis. <i>Scientometrics</i> , <b>1991</b> , 20, 235-255   | 3    | 82  |
| 14 | Fractal geometry of information space as represented by co-citation clustering. <i>Scientometrics</i> , <b>1991</b> , 20, 439-449  | 3    | 17  |
| 13 | 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 |

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| 12 | 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 |
| 11 | An exploration of the science base of recent technology. <i>Research Policy</i> , <b>1990</b> , 19, 61-81  | 7.5 | 65  |
| 10 | Dynamics of a scientific field analysed by co-subfield structures. <i>Scientometrics</i> , <b>1989</b> , 15, 607-620   | 3   | 18  |
| 9  | Mapping co-word structures: A comparison of multidimensional scaling and leximappe. <i>Scientometrics</i> , <b>1989</b> , 15, 283-295  | 3   | 24  |
| 8  | 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  |
| 7  | 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  |
| 6  | Quasi-correspondence analysis on scientometric transaction matrices. <i>Scientometrics</i> , <b>1987</b> , 11, 351-366   | 3   | 26  |
| 5  | A comparative study of bibliometric past performance analysis and peer judgement. <i>Scientometrics</i> , <b>1985</b> , 8, 149-159   | 3   | 34  |
| 4  | 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  |
| 3  | 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 |
| 2  | Absolute cross sections for excitation of helium by electrons (200000 eV) and the polarization of the emitted radiation. <i>Physica</i> , <b>1971</b> , 53, 45-59                              |     | 57  |
| 1  | German Cities with Universities: Socioeconomic Position and University Performance. <i>Quantitative Science Studies</i> , 1-29   | 3.8 | 1   |