

# Ismael Rafols

## 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.

76  
papers

5,141  
citations

30  
h-index

71  
g-index

87  
ext. papers

6,111  
ext. citations

3.9  
avg, IF

6.15  
L-index

#	Paper	IF	Citations
76	Do synthesis centers synthesize? A semantic analysis of topical diversity in research. <i>Research Policy</i> , <b>2021</b> , 50, 104069	7.3	3
75	Designing indicators for opening up evaluation: insights from research assessment <b>2021</b> , 165-193		0
74	Mapping research in assisted reproduction worldwide. <i>Reproductive BioMedicine Online</i> , <b>2020</b> , 40, 71-81	2.9	3
73	DARE to be different? A novel approach for analysing diversity in collaborative research projects. <i>Research Evaluation</i> , <b>2020</b> , 29, 300-315	1.7	2
72	Bridging the divide between qualitative and quantitative science studies. <i>Quantitative Science Studies</i> , <b>2020</b> , 1, 918-926	3.7	4
71	Exploring why global health needs are unmet by research efforts: the potential influences of geography, industry and publication incentives. <i>Health Research Policy and Systems</i> , <b>2020</b> , 18, 47	3.6	6
70	Five ways to ensure that models serve society: a manifesto. <i>Nature</i> , <b>2020</b> , 582, 482-484	47.5	111
69	The Differing Meanings of Indicators Under Different Policy Contexts. The Case of Internationalisation <b>2020</b> , 213-232		2
68	Dare to be Different? Applying Diversity Heuristics to the Evaluation of Collaborative Research. <i>SSRN Electronic Journal</i> , <b>2019</b> ,	1	1
67	S&T indicators in the wild: Contextualization and participation for responsible metrics. <i>Research Evaluation</i> , <b>2019</b> , 28, 7-22	1.7	16
66	The relation between research priorities and societal demands: The case of rice. <i>Research Policy</i> , <b>2019</b> , 48, 949-967	7.3	24
65	To what extent is inclusion in the Web of Science an indicator of journal quality? <i>Research Evaluation</i> , <b>2018</b> , 27, 106-118	1.7	31
64	Using altmetrics for contextualised mapping of societal impact: From hits to networks. <i>Science and Public Policy</i> , <b>2018</b> , 45, 815-826	1.8	32
63	Institutional shaping of research priorities: A case study on avian influenza. <i>Research Policy</i> , <b>2018</b> , 47, 1975-1989	7.3	19
62	To what extent is inclusion in the Web of Science an indicator of journal quality? <i>Research Evaluation</i> , <b>2018</b> , 27, 284-284	1.7	
61	Why bibliometric indicators break down : unstable parameters, incorrect models and irrelevant prope <b>2018</b> ,		6
60	Interdisciplinarity in Research Evaluation <b>2017</b> ,		4

59	To What Extent is Inclusion in the Web of Science an Indicator of Journal 'Quality'?. <i>SSRN Electronic Journal</i> , <b>2017</b> ,	1	2
58	Is Research Responding to Health Needs?. <i>SSRN Electronic Journal</i> , <b>2017</b> ,	1	4
57	Using Almetrics for Contextualised Mapping of Societal Impact: From Hits to Networks. <i>SSRN Electronic Journal</i> , <b>2017</b> ,	1	1
56	Why researchers publish in non-mainstream journals: Training, knowledge bridging, and gap filling. <i>Research Policy</i> , <b>2017</b> , 46, 1666-1680	7.3	34
55	Visualization of Disciplinary Profiles: Enhanced Science Overlay Maps. <i>Journal of Data and Information Science</i> , <b>2017</b> , 2, 68-111	1.2	23
54	Strategic intelligence on emerging technologies: Scientometric overlay mapping. <i>Journal of the Association for Information Science and Technology</i> , <b>2017</b> , 68, 214-233	2.6	40
53	Visual Analysis of Patent Data Through Global Maps and Overlays. <i>The Kluwer International Series on Information Retrieval</i> , <b>2017</b> , 281-295	0.7	1
52	Improving fitness: Mapping research priorities against societal needs on obesity. <i>Journal of Informetrics</i> , <b>2017</b> , 11, 1095-1113	3	18
51	Towards an alternative framework for the evaluation of translational research initiatives. <i>Research Evaluation</i> , <b>2016</b> , 25, 235-243	1.7	18
50	Quantitative analysis of technology futures: A review of techniques, uses and characteristics. <i>Science and Public Policy</i> , <b>2016</b> , 43, 630-645	1.8	5
49	On the Dominance of Quantitative Evaluation in Peripherall Countries: Auditing Research with Technologies of Distance. <i>SSRN Electronic Journal</i> , <b>2016</b> ,	1	8
48	Research Portfolio Analysis in Science Policy: Moving from Financial Returns to Societal Benefits. <i>Minerva</i> , <b>2015</b> , 53, 89-115	1.8	30
47	Does Interdisciplinary Research Lead to Higher Citation Impact? The Different Effect of Proximal and Distal Interdisciplinarity. <i>PLoS ONE</i> , <b>2015</b> , 10, e0135095	3.6	116
46	Mapping graphene science and development: Focused research with multiple application areas <b>2015</b> , 41, 22-25		7
45	Bibliometrics: The Leiden Manifesto for research metrics. <i>Nature</i> , <b>2015</b> , 520, 429-31	47.5	907
44	Knowledge Integration and Diffusion: Measures and Mapping of Diversity and Coherence <b>2014</b> , 169-190		8
43	Patent overlay mapping: Visualizing technological distance. <i>Journal of the Association for Information Science and Technology</i> , <b>2014</b> , 65, 2432-2443	2.6	76
42	Big Pharma, little science?. <i>Technological Forecasting and Social Change</i> , <b>2014</b> , 81, 22-38	9.4	71

41	Interactive overlay maps for US patent (USPTO) data based on International Patent Classification (IPC). <i>Scientometrics</i> , <b>2014</b> , 98, 1583-1599	2.9	108
40	Interdisciplinarity and research on local issues: evidence from a developing country. <i>Research Evaluation</i> , <b>2014</b> , 23, 195-209	1.7	26
39	Interactive overlays of journals and the measurement of interdisciplinarity on the basis of aggregated journal citations. <i>Journal of the Association for Information Science and Technology</i> , <b>2013</b> , 64, 2573-2586		74
38	Global maps of science based on the new Web-of-Science categories. <i>Scientometrics</i> , <b>2013</b> , 94, 589-593	2.9	157
37	Interactive overlays: A new method for generating global journal maps from Web-of-Science data. <i>Journal of Informetrics</i> , <b>2012</b> , 6, 318-332	3	67
36	Big Pharma, Little Science? A Bibliometric Perspective on Big Pharma's R&D Decline. <i>SSRN Electronic Journal</i> , <b>2012</b> ,	1	4
35	How journal rankings can suppress interdisciplinary research: A comparison between Innovation Studies and Business & Management. <i>Research Policy</i> , <b>2012</b> , 41, 1262-1282	7.3	305
34	Bibliometric perspectives on medical innovation using the medical subject Headings of PubMed. <i>Journal of the Association for Information Science and Technology</i> , <b>2012</b> , 63, 2239-2253		48
33	A framework for knowledge integration and diffusion. <i>Journal of Documentation</i> , <b>2012</b> , 68, 31-44	1.3	34
32	Missing links in nanomaterials governance: bringing industrial dynamics and downstream policies into view. <i>Journal of Technology Transfer</i> , <b>2011</b> , 36, 624-639	4.3	8
31	Local emergence and global diffusion of research technologies: An exploration of patterns of network formation. <i>Journal of the Association for Information Science and Technology</i> , <b>2011</b> , 62, 846-860		60
30	Approaches to understanding and measuring interdisciplinary scientific research (IDR): A review of the literature. <i>Journal of Informetrics</i> , <b>2011</b> , 5, 14-26	3	371
29	Indicators of the interdisciplinarity of journals: Diversity, centrality, and citations. <i>Journal of Informetrics</i> , <b>2011</b> , 5, 87-100	3	141
28	Diversity and network coherence as indicators of interdisciplinarity: case studies in bionanoscience. <i>Scientometrics</i> , <b>2010</b> , 82, 263-287	2.9	348
27	Science overlay maps: A new tool for research policy and library management. <i>Journal of the Association for Information Science and Technology</i> , <b>2010</b> , 61, 1871-1887		252
26	Can epidemic models describe the diffusion of topics across disciplines?. <i>Journal of Informetrics</i> , <b>2010</b> , 4, 74-82	3	56
25	A global map of science based on the ISI subject categories. <i>Journal of the Association for Information Science and Technology</i> , <b>2009</b> , 60, 348-362		305
24	Content-based and algorithmic classifications of journals: Perspectives on the dynamics of scientific communication and indexer effects. <i>Journal of the Association for Information Science and Technology</i> , <b>2009</b> , 60, 1823-1835		112

23	Is science becoming more interdisciplinary? Measuring and mapping six research fields over time. <i>Scientometrics</i> , <b>2009</b> , 81, 719-745	2.9	419
22	Disciplinary Diversity and Topic Coherence: The Case of Hybrid Nanomaterials Research. <i>Collnet Journal of Scientometrics and Information Management</i> , <b>2009</b> , 3, 79-88	0.4	
21	STRATEGIES FOR KNOWLEDGE ACQUISITION IN BIONANOTECHNOLOGY. <i>Innovation: the European Journal of Social Science Research</i> , <b>2007</b> , 20, 395-412	1.5	21
20	Strategies for Knowledge Acquisition in Bionanotechnology: Why Are Interdisciplinary Practices Less Widespread Than Expected?. <i>SSRN Electronic Journal</i> , <b>2007</b> ,	1	1
19	How cross-disciplinary is bionanotechnology? Explorations in the specialty of molecular motors. <i>Scientometrics</i> , <b>2007</b> , 70, 633-650	2.9	95
18	Cell type proportioning in Dictyostelium slugs: lack of regulation within a 2.5-fold tolerance range. <i>Differentiation</i> , <b>2001</b> , 67, 107-16	3.3	32
17	Experimental Investigation on the Formation of Dense-Branching-Morphology-Like Colonies in Bacteria. <i>Journal of the Physical Society of Japan</i> , <b>1998</b> , 67, 3630-3636	1.4	35
16	Dynamics of Granular Flow through a Vertical Pipe: Effect of Medium Flow. <i>Journal of the Physical Society of Japan</i> , <b>1998</b> , 67, 1616-1624	1.4	7
15	Interface growth and pattern formation in bacterial colonies. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1998</b> , 249, 517-524	3.2	103
14	Sequential partitioning: An alternative to understanding size distributions of avalanches in first-order phase transitions. <i>Physical Review E</i> , <b>1995</b> , 52, 5671-5674	2.4	7
13	Statistics of avalanches in martensitic transformations. II. Modeling. <i>Physical Review B</i> , <b>1995</b> , 52, 12651-12656	3.5	18
12	Statistics of avalanches in martensitic transformations. I. Acoustic emission experiments. <i>Physical Review B</i> , <b>1995</b> , 52, 12644-12650	3.3	36
11	Distributions of avalanches in martensitic transformations. <i>Physical Review Letters</i> , <b>1994</b> , 72, 1694-1697	7.3	195
10	Heat conduction in a metallic rod with Newtonian losses. <i>American Journal of Physics</i> , <b>1992</b> , 60, 846-852	0.7	6
9	Visualising plural mappings of science for Sustainable Development Goals (SDGs)		2
8	Letter: A call for a radical change in research evaluation in Spain. <i>Profesional De La Informacion</i> ,	2.7	5
7	Mapping the De Facto Governance of Emerging Science and Technologies. <i>SSRN Electronic Journal</i> ,	1	4
6	Research Portfolios in Science Policy: Moving from Financial Returns to Societal Benefits. <i>SSRN Electronic Journal</i> ,	1	2

5	Scientometric Mapping as a Strategic Intelligence Tool for the Governance of Emerging Technologies.. <i>SSRN Electronic Journal</i> ,	1	10
4	Research Portfolios in Science Policy: Moving from Financial Returns to Societal Benefits. <i>SSRN Electronic Journal</i> ,	1	5
3	Exploring Why Global Health Needs Are Unmet by Public Research Efforts: The Potential Influences of Geography, Industry, and Publication Incentives. <i>SSRN Electronic Journal</i> ,	1	2
2	Designing indicators for opening up evaluation. Insights from research assessment		1
1	Hybrid Nanomaterials Research: Is It Really Interdisciplinary?673-687		2