

Philip Shapira

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.

140
papers

3,353
citations

33
h-index

52
g-index

159
ext. papers

3,861
ext. citations

4.1
avg. IF

5.77
L-index

#	Paper	IF	Citations
140	Mapping technological innovation dynamics in artificial intelligence domains: Evidence from a global patent analysis.. <i>PLoS ONE</i> , 2021 , 16, e0262050	3.7	1
139	Policy interactions with research trajectories: The case of cyber-physical convergence in manufacturing and industrials. <i>Technological Forecasting and Social Change</i> , 2021 , 175, 121347	9.5	
138	Corporate engagement with nanotechnology through research publications. <i>Journal of Nanoparticle Research</i> , 2021 , 23, 1	2.3	0
137	Tracking developments in artificial intelligence research: constructing and applying a new search strategy. <i>Scientometrics</i> , 2021 , 126, 3153-3192	3	11
136	Scientific publications and COVID-19 research pivots during the pandemic. <i>Proceedings - Academy of Management</i> , 2021 , 2021, 13568	0.1	
135	Commercializing Emerging Technologies through Networks: Insights from UK Nanotechnology SMEs. <i>Proceedings - Academy of Management</i> , 2021 , 2021, 13531	0.1	
134	Rapid prototyping of microbial production strains for the biomanufacture of potential materials monomers. <i>Metabolic Engineering</i> , 2020 , 60, 168-182	9.7	25
133	Bioengineering horizon scan 2020. <i>ELife</i> , 2020 , 9,	8.9	9
132	Scientists and the Public's Views of Synthetic Biology. <i>Risk, Systems and Decisions</i> , 2020 , 371-387	0.7	
131	Private and public values of innovation: A patent analysis of synthetic biology. <i>Research Policy</i> , 2020 , 49, 103875	7.5	13
130	Measuring dynamic capabilities in new ventures: exploring strategic change in US green goods manufacturing using website data. <i>Journal of Technology Transfer</i> , 2020 , 45, 1451-1480	4.4	6
129	Updating a search strategy to track emerging nanotechnologies. <i>Journal of Nanoparticle Research</i> , 2019 , 21, 1	2.3	16
128	Anticipating governance challenges in synthetic biology: Insights from biosynthetic menthol. <i>Technological Forecasting and Social Change</i> , 2019 , 139, 311-320	9.5	15
127	Identifying author heritage using surname data: An application for Russian surnames. <i>Journal of the Association for Information Science and Technology</i> , 2019 , 70, 488-498	2.7	0
126	Aligning sustainability assessment with responsible research and innovation: Towards a framework for Constructive Sustainability Assessment. <i>Sustainable Production and Consumption</i> , 2019 , 20, 58-73	8.2	30
125	Redistributed Manufacturing and the Impact of Big Data: A Consumer Goods Perspective. <i>Production Planning and Control</i> , 2019 , 30, 568-581	4.3	18
124	MORE IS LESS? THE CURVILINEAR EFFECTS OF POLITICAL TIES ON CORPORATE INNOVATION PERFORMANCE. <i>Technological and Economic Development of Economy</i> , 2019 , 25, 1309-1335	4.7	10

123	Private and public values of innovation. <i>Proceedings - Academy of Management</i> , 2019 , 2019, 16324	0.1	
122	Collaborating constructively for sustainable biotechnology. <i>Scientific Reports</i> , 2019 , 9, 19033	4.9	12
121	Research network emergence: Societal issues in nanotechnology and the center for nanotechnology in society. <i>Science and Public Policy</i> , 2019 , 46, 126-135	1.8	2
120	Mapping the emergence of international university research ventures. <i>Journal of Technology Transfer</i> , 2019 , 44, 1134-1162	4.4	8
119	Using web mining to explore Triple Helix influences on growth in small and mid-size firms. <i>Technovation</i> , 2018 , 76-77, 3-14	7.9	25
118	Evaluating the Impact of Manufacturing Extension Services on Establishment Performance. <i>Economic Development Quarterly</i> , 2018 , 32, 29-43	0.5	3
117	The Values of Synthetic Biology: Researcher Views of Their Field and Participation in Public Engagement. <i>BioScience</i> , 2018 , 68, 782-791	5.7	3
116	Lessons From 10 Years of Nanotechnology Bibliometric Analysis 2018 , 11-31		2
115	Introducing the dilemma of societal alignment for inclusive and responsible research and innovation. <i>Journal of Responsible Innovation</i> , 2018 , 5, 316-331	2.1	43
114	Exploring Links Between Innovation and Profitability in Georgia Manufacturers. <i>Economic Development Quarterly</i> , 2018 , 32, 271-287	0.5	3
113	A transatlantic perspective on 20 emerging issues in biological engineering. <i>ELife</i> , 2017 , 6,	8.9	36
112	Institutionalization of international university research ventures. <i>Research Policy</i> , 2017 , 46, 1692-1705	7.5	18
111	The Role of Big Data to Facilitate Redistributed Manufacturing Using a Co-creation Lens: Patterns from Consumer Goods. <i>Procedia CIRP</i> , 2017 , 63, 680-685	1.8	6
110	Tracking researchers and their outputs: new insights from ORCIDs. <i>Scientometrics</i> , 2017 , 113, 437-453	3	16
109	Tracking the emergence of synthetic biology. <i>Scientometrics</i> , 2017 , 112, 1439-1469	3	46
108	Exploring public values implications of the I-Corps program. <i>Journal of Technology Transfer</i> , 2017 , 42, 1362-1376	4.4	4
107	Institutional change and innovation system transformation: A tale of two academies. <i>Technological Forecasting and Social Change</i> , 2017 , 116, 196-207	9.5	10
106	The impact of research funding on scientific outputs: Evidence from six smaller European countries. <i>Journal of the Association for Information Science and Technology</i> , 2016 , 67, 715-730	2.7	33

105	Mapping the patent landscape of synthetic biology for fine chemical production pathways. <i>Microbial Biotechnology</i> , 2016 , 9, 687-95	6.3	8
104	Low carbon innovation and enterprise growth in the UK: Challenges of a place-blind policy mix. <i>Technological Forecasting and Social Change</i> , 2016 , 103, 264-272	9.5	61
103	Inter-industry knowledge flows and sectoral networks in the economy of Malaysia. <i>Knowledge Management Research and Practice</i> , 2016 , 14, 280-294	2.1	5
102	Handbook of Innovation Policy Impact 2016 ,		48
101	Science system path-dependencies and their influences: nanotechnology research in Russia. <i>Scientometrics</i> , 2016 , 107, 645-670	3	23
100	A bibliometric analysis of the development of next generation active nanotechnologies. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	24
99	SYNBIOCHEM-a SynBio foundry for the biosynthesis and sustainable production of fine and speciality chemicals. <i>Biochemical Society Transactions</i> , 2016 , 44, 675-7	5.1	5
98	Graphene enterprise: mapping innovation and business development in a strategic emerging technology. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 269	2.3	22
97	Using the wayback machine to mine websites in the social sciences: A methodological resource. <i>Journal of the Association for Information Science and Technology</i> , 2016 , 67, 1904-1915	2.7	33
96	Use of web mining in studying innovation. <i>Scientometrics</i> , 2015 , 102, 653-671	3	54
95	The Economic Contributions of Nanotechnology to Green and Sustainable Growth 2015 , 409-434		14
94	Is there a clubbing effect underlying Chinese research citation Increases?. <i>Journal of the Association for Information Science and Technology</i> , 2015 , 66, 1923-1932	2.7	46
93	Is there a relationship between research sponsorship and publication impact? An analysis of funding acknowledgments in nanotechnology papers. <i>PLoS ONE</i> , 2015 , 10, e0117727	3.7	45
92	Social science contributions compared in synthetic biology and nanotechnology. <i>Journal of Responsible Innovation</i> , 2015 , 2, 143-148	2.1	15
91	Why do technology firms publish scientific papers? The strategic use of science by small and midsize enterprises in nanotechnology. <i>Journal of Technology Transfer</i> , 2015 , 40, 1016-1033	4.4	18
90	Drivers of technology adoption [The case of nanomaterials in building construction. <i>Technological Forecasting and Social Change</i> , 2014 , 87, 232-244	9.5	38
89	Profile of developments in biomass-based bioenergy research: a 20-year perspective. <i>Scientometrics</i> , 2014 , 99, 507-521	3	45
88	Probing [green]Industry enterprises in the UK: A new identification approach. <i>Technological Forecasting and Social Change</i> , 2014 , 85, 93-104	9.5	35

87	Signs of things to come? What patent submissions by small and medium-sized enterprises say about corporate strategies in emerging technologies. <i>Technological Forecasting and Social Change</i> , 2014 , 85, 17-25	9.5	14
86	Nanotechnology Research and Innovation in Russia: A Bibliometric Analysis. <i>SSRN Electronic Journal</i> , 2014 ,	1	1
85	Developing an innovative materials enterprise in China: a nanotechnology small business case study. <i>Chinese Management Studies</i> , 2014 , 8, 201-217	1.8	3
84	Measuring the development of a common scientific lexicon in nanotechnology. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	16
83	Career-based influences on scientific recognition in the United States and Europe: Longitudinal evidence from curriculum vitae data. <i>Research Policy</i> , 2013 , 42, 1341-1355	7.5	20
82	Nanotechnology in the City: Sustainability Challenges and Anticipatory Governance. <i>Journal of Urban Technology</i> , 2013 , 20, 45-62	5.9	26
81	Capturing new developments in an emerging technology: an updated search strategy for identifying nanotechnology research outputs. <i>Scientometrics</i> , 2013 , 95, 351-370	3	114
80	Entry strategies in an emerging technology: a pilot web-based study of graphene firms. <i>Scientometrics</i> , 2013 , 95, 1189-1207	3	32
79	Early Patterns of Commercialization in Graphene 2013 , 161-180		1
78	The emergence of science-driven entrepreneurship in China: a case study of technological innovation in nano-pigment inks. <i>International Journal of Entrepreneurship and Innovation Management</i> , 2013 , 17, 162	0.4	4
77	Partnering with universities: a good choice for nanotechnology start-up firms?. <i>Small Business Economics</i> , 2012 , 38, 197-215	5.3	43
76	Engineering Small Worlds in a Big Society: Assessing the Early Impacts of Nanotechnology in China. <i>Review of Policy Research</i> , 2012 , 29, 752-775	1.5	7
75	Pathways from discovery to commercialisation: using web sources to track small and medium-sized enterprise strategies in emerging nanotechnologies. <i>Technology Analysis and Strategic Management</i> , 2012 , 24, 981-995	3.2	24
74	Early patterns of commercial activity in graphene. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	20
73	Effects of international collaboration and knowledge moderation on China's nanotechnology research impacts. <i>Journal of Technology Management in China</i> , 2012 , 7, 94-110		14
72	Innovative and Responsible Governance of Nanotechnology for Societal Development 2011 , 561-617		16
71	Perceptions and actions: relationships of views on risk with citation actions of nanotechnology scientists. <i>Research Evaluation</i> , 2011 , 20, 377-388	1.7	3
70	The use of environmental, health and safety research in nanotechnology research. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 158-66	1.3	18

69	Building capabilities for innovation in SMEs: a cross-country comparison of technology extension policies and programmes. <i>International Journal of Innovation and Regional Development</i> , 2011 , 3, 254	0.3	20
68	National innovation systems and the globalization of nanotechnology innovation. <i>Journal of Technology Transfer</i> , 2011 , 36, 587-604	4.4	59
67	Introduction to the symposium issue: nanotechnology innovation and policy current strategies and future trajectories. <i>Journal of Technology Transfer</i> , 2011 , 36, 581-586	4.4	10
66	Regional development and interregional collaboration in the growth of nanotechnology research in China. <i>Scientometrics</i> , 2011 , 86, 299-315	3	46
65	Funding acknowledgement analysis: an enhanced tool to investigate research sponsorship impacts: the case of nanotechnology. <i>Scientometrics</i> , 2011 , 87, 563-586	3	82
64	China-US scientific collaboration in nanotechnology: patterns and dynamics. <i>Scientometrics</i> , 2011 , 88, 1-16	3	68
63	Innovative and responsible governance of nanotechnology for societal development. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3557-3590	2.3	44
62	Follow the money. <i>Nature</i> , 2010 , 468, 627-8	50.4	79
61	Knowledge, Capabilities and Manufacturing Innovation: A USA-Europe Comparison. <i>Regional Studies</i> , 2010 , 44, 253-279	3.4	16
60	Is there a shift to "active nanostructures"?. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 1-10	2.3	51
59	The emergence of social science research on nanotechnology. <i>Scientometrics</i> , 2010 , 85, 595-611	3	36
58	The Potential of Nanotechnology for Equitable Economic Development: The Case of Brazil 2010 , 309-329		2
57	Women and Patenting in Nanotechnology: Scale, Scope and Equity 2010 , 23-46		6
56	Metropolitan Development of Nanotechnology: Concentration or Dispersion? 2010 , 165-180		1
55	2009 ,		4
54	From lab to market? Strategies and issues in the commercialization of nanotechnology in China. <i>Asian Business and Management</i> , 2009 , 8, 461-489	2.4	57
53	Developing nanotechnology in Latin America. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 259-278	2.3	51
52	Technological diversity, scientific excellence and the location of inventive activities abroad: the case of nanotechnology. <i>Journal of Technology Transfer</i> , 2009 , 34, 286-303	4.4	12

51	Organizational and institutional influences on creativity in scientific research. <i>Research Policy</i> , 2009 , 38, 610-623	7.5	186
50	The role of national and regional innovation programmes in stimulating international cooperation in innovation. <i>International Journal of Technology Management</i> , 2009 , 48, 473	1.2	15
49	Building an innovation hub: A case study of the transformation of university roles in regional technological and economic development. <i>Research Policy</i> , 2008 , 37, 1188-1204	7.5	283
48	Putting Innovation in Place: Policy Strategies for Industrial Services, Regional Clusters, and Manufacturing SMEs in Japan and the United States 1. Earlier versions of this paper were presented at the Conference on Restructuring SMEs in the Age of Globalization, EastWest Center and the Korean Development Institute, Honolulu, HI, 2002 July 2005, and at the Workshop on Learning to Innovate: Building Regional Technology Development Learning Networks in Midsized Cities. <i>European Planning Studies</i> , 2008 , 16, 1207-1228 <i> Prometheus</i> , 2008 , 26, 69-87	0	10
47	Refining search terms for nanotechnology. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 715-728	3.2	4
46	Refining search terms for nanotechnology. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 715-728	2.3	252
45	Nanotechnology publications and citations by leading countries and blocs. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 981-986	2.3	89
44	Mapping the nanotechnology enterprise: a multi-indicator analysis of emerging nanodistricts in the US South. <i>Journal of Technology Transfer</i> , 2008 , 33, 209-223	4.4	15
43	Supply, demand and ICT-based services: A local level perspective. <i>Telecommunications Policy</i> , 2007 , 31, 347-358	4	13
42	Identifying creative research accomplishments: Methodology and results for nanotechnology and human genetics. <i>Scientometrics</i> , 2007 , 70, 125-152	3	39
41	A brief history of the future of manufacturing: US manufacturing technology forecasts in retrospective, 1950-present. <i>International Journal of Foresight and Innovation Policy</i> , 2007 , 3, 311	0.7	1
40	Knowledge, technology trajectories, and innovation in a developing country context: evidence from a survey of Malaysian firms. <i>International Journal of Technology Management</i> , 2007 , 40, 349	1.2	37
39	Measures for knowledge-based economic development: Introducing data mining techniques to economic developers in the state of Georgia and the US South. <i>Technological Forecasting and Social Change</i> , 2006 , 73, 950-965	9.5	16
38	Knowledge economy measurement: Methods, results and insights from the Malaysian Knowledge Content Study. <i>Research Policy</i> , 2006 , 35, 1522-1537	7.5	38
37	Innovation challenges and strategies in catch-up regions. <i>Economics of Science, Technology and Innovation</i> , 2005 , 195-221		6
36	Rethinking Regional Innovation and Change. <i>Economics of Science, Technology and Innovation</i> , 2005 ,		32
35	Machine tools: the remaking of a traditional sectoral innovation system 2004 , 243-286		13
34	Linking research production and development outcomes at the regional level. <i>Research Evaluation</i> , 2003 , 12, 105-116	1.7	7

33	Evaluating a large-scale research and development program in Japan: methods, findings and insights. <i>International Journal of Technology Management</i> , 2003 , 26, 166	1.2	1
32	The Bulgarian Economy: Lessons from Reform during Early Transition, Edited by Derek C. Jones and Jeffrey Miller. Aldershot, UK and Brookfield, VT: Ashgate Publishing, 1997. xvi, 360 pp. \$76.95.. <i>Canadian-American Slavic Studies</i> , 2001 , 35, 483-484	0	
31	Teaching with Internet and Multimedia Technologies: Insights from an Online Seminar on Industrial Modernization. <i>Journal of Planning Education and Research</i> , 2001 , 21, 71-83	1.8	12
30	Innovations in European and US innovation policy. <i>Research Policy</i> , 2001 , 30, 869-872	7.5	11
29	US manufacturing extension partnerships: technology policy reinvented?. <i>Research Policy</i> , 2001 , 30, 977-992	7.5	25
28	Using an evaluability assessment to select methods for evaluating state technology development programs: the case of the Georgia Research Alliance. <i>Evaluation and Program Planning</i> , 1999 , 22, 55-64	1.7	15
27	Innovation in Production 1999 ,		8
26	Introduction: Perspectives on German Industry and Its Competitiveness 1999 , 1-17		
25	Implications for Modernization Strategies and Studies 1999 , 159-170		
24	Contrasting perspectives on the evaluation of industrial modernization: Introduction to the symposium. <i>Journal of Technology Transfer</i> , 1998 , 23, 3-6	4.4	2
23	Evaluating industrial modernization: Methods, results, and insights from the Georgia Manufacturing Extension Alliance. <i>Journal of Technology Transfer</i> , 1998 , 23, 17-27	4.4	12
22	Manufacturing partnerships: Evaluation in the context of government reform. <i>Evaluation and Program Planning</i> , 1997 , 20, 103-112	1.7	9
21	Coordinating industrial modernization services: Impacts and insights from the U.S. Manufacturing Extension Partnership. <i>Journal of Technology Transfer</i> , 1997 , 22, 5-10	4.4	3
20	Tracking customer progress: A follow-up study of customers of the Georgia Manufacturing Extension Alliance. <i>Journal of Technology Transfer</i> , 1997 , 22, 43-52	4.4	4
19	Evaluating industrial modernization: Introduction to the theme issue. <i>Research Policy</i> , 1996 , 25, 181-183	7.5	13
18	Current practices in the evaluation of US industrial modernization programs. <i>Research Policy</i> , 1996 , 25, 185-214	7.5	33
17	Modernizing Small Manufacturers in the United States and Japan: Public Technological Infrastructures and Strategies. <i>Economics of Science, Technology and Innovation</i> , 1996 , 285-334		6
16	New public infrastructures for small firm industrial modernization in the USA. <i>Entrepreneurship and Regional Development</i> , 1995 , 7, 63-84	4.3	30

15	After central planning: The restructuring of state industry in Bulgaria's Bourgas region. <i>European Planning Studies</i> , 1994 , 2, 131-157	3.2	2
14	. <i>IEEE Spectrum</i> , 1993 , 30, 70-73	1.7	2
13	Modernizing small manufacturers in Japan: The role of local public technology centers. <i>Journal of Technology Transfer</i> , 1992 , 17, 40-57	4.4	14
12	Industrial restructuring and economic development strategies in a Japanese steel town: The case of Kitakyushu. <i>Town Planning Review</i> , 1990 , 61, 389	0.8	8
11	Modern Times: Learning from State Initiatives in Industrial Extension and Technology Transfer. <i>Economic Development Quarterly</i> , 1990 , 4, 186-202	0.5	25
10	Industrial Restructuring: Public Policies for Investment in Advanced Industrial Society. <i>Annals of the American Academy of Political and Social Science</i> , 1984 , 475, 96-109	2.8	2
9	Conclusions: Evidence on the effectiveness of innovation policy intervention 543-564		4
8	Introduction. A Systemic Perspective: The Innovation Policy Dance		10
7	Media Access		8
6	Innovation Strategies and Manufacturing Practices: Insights from the 2005 Georgia Manufacturing Survey		2
5	Innovation and Small and Midsize Enterprises: Innovation Dynamics and Policy Strategies		3
4	An Outlook on Innovation Policy, Theory and Practice		14
3	Scientific publications and COVID-19 Research pivots during the pandemic: An initial bibliometric analysis		3
2	Exploring New approaches to understanding innovation ecosystems. <i>Technology Analysis and Strategic Management</i> , 1-15	3.2	1
1	Commercialization networks in emerging technologies: the case of UK nanotechnology small and midsize enterprises. <i>Journal of Technology Transfer</i> , 1	4.4	