Philip Shapira

List of Publications by Citations

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	Building an innovation hub: A case study of the transformation of university roles in regional technological and economic development. *Research Policy*, **2008**, 37, 1188-1204	7.5	283
139	Refining search terms for nanotechnology. *Journal of Nanoparticle Research*, **2008**, 10, 715-728	2.3	252
138	Organizational and institutional influences on creativity in scientific research. *Research Policy*, **2009**, 38, 610-623	7.5	186
137	Capturing new developments in an emerging technology: an updated search strategy for identifying nanotechnology research outputs. *Scientometrics*, **2013**, 95, 351-370	3	114
136	Nanotechnology publications and citations by leading countries and blocs. *Journal of Nanoparticle Research*, **2008**, 10, 981-986	2.3	89
135	Funding acknowledgement analysis: an enhanced tool to investigate research sponsorship impacts: the case of nanotechnology. *Scientometrics*, **2011**, 87, 563-586	3	82
134	Follow the money. *Nature*, **2010**, 468, 627-8	50.4	79
133	China□US scientific collaboration in nanotechnology: patterns and dynamics. *Scientometrics*, **2011**, 88, 1-16	3	68
132	Low carbon innovation and enterprise growth in the UK: Challenges of a place-blind policy mix. *Technological Forecasting and Social Change*, **2016**, 103, 264-272	9.5	61
131	National innovation systems and the globalization of nanotechnology innovation. *Journal of Technology Transfer*, **2011**, 36, 587-604	4.4	59
130	From lab to market? Strategies and issues in the commercialization of nanotechnology in China. *Asian Business and Management*, **2009**, 8, 461-489	2.4	57
129	Use of web mining in studying innovation. *Scientometrics*, **2015**, 102, 653-671	3	54
128	Developing nanotechnology in Latin America. *Journal of Nanoparticle Research*, **2009**, 11, 259-278	2.3	51
127	Is there a shift to "active nanostructures"?. *Journal of Nanoparticle Research*, **2010**, 12, 1-10	2.3	51
126	Handbook of Innovation Policy Impact **2016**,		48
125	Tracking the emergence of synthetic biology. *Scientometrics*, **2017**, 112, 1439-1469	3	46
124	Is there a clubbing effect underlying Chinese research citation Increases?. *Journal of the Association for Information Science and Technology*, **2015**, 66, 1923-1932	2.7	46

123	Regional development and interregional collaboration in the growth of nanotechnology research in China. *Scientometrics*, **2011**, 86, 299-315	3	46
122	Profile of developments in biomass-based bioenergy research: a 20-year perspective. *Scientometrics*, **2014**, 99, 507-521	3	45
121	Is there a relationship between research sponsorship and publication impact? An analysis of funding acknowledgments in nanotechnology papers. *PLoS ONE*, **2015**, 10, e0117727	3.7	45
120	Innovative and responsible governance of nanotechnology for societal development. *Journal of Nanoparticle Research*, **2011**, 13, 3557-3590	2.3	44
119	Partnering with universities: a good choice for nanotechnology start-up firms?. *Small Business Economics*, **2012**, 38, 197-215	5.3	43
118	Introducing the dilemma of societal alignment for inclusive and responsible research and innovation. *Journal of Responsible Innovation*, **2018**, 5, 316-331	2.1	43
117	Identifying creative research accomplishments: Methodology and results for nanotechnology and human genetics. *Scientometrics*, **2007**, 70, 125-152	3	39
116	Drivers of technology adoption the case of nanomaterials in building construction. *Technological Forecasting and Social Change*, **2014**, 87, 232-244	9.5	38
115	Knowledge economy measurement: Methods, results and insights from the Malaysian Knowledge Content Study. *Research Policy*, **2006**, 35, 1522-1537	7.5	38
114	Knowledge, technology trajectories, and innovation in a developing country context: evidence from a survey of Malaysian firms. *International Journal of Technology Management*, **2007**, 40, 349	1.2	37
113	A transatlantic perspective on 20 emerging issues in biological engineering. *ELife*, **2017**, 6,	8.9	36
112	The emergence of social science research on nanotechnology. *Scientometrics*, **2010**, 85, 595-611	3	36
111	Probing green industry enterprises in the UK: A new identification approach. *Technological Forecasting and Social Change*, **2014**, 85, 93-104	9.5	35
110	The impact of research funding on scientific outputs: Evidence from six smaller European countries. *Journal of the Association for Information Science and Technology*, **2016**, 67, 715-730	2.7	33
109	Current practices in the evaluation of US industrial modernization programs. *Research Policy*, **1996**, 25, 185-214	7.5	33
108	Using the wayback machine to mine websites in the social sciences: A methodological resource. *Journal of the Association for Information Science and Technology*, **2016**, 67, 1904-1915	2.7	33
107	Entry strategies in an emerging technology: a pilot web-based study of graphene firms. *Scientometrics*, **2013**, 95, 1189-1207	3	32
106	Rethinking Regional Innovation and Change. *Economics of Science, Technology and Innovation*, **2005**,		32

105	Aligning sustainability assessment with responsible research and innovation: Towards a framework for Constructive Sustainability Assessment. *Sustainable Production and Consumption*, **2019**, 20, 58-73	8.2	30
104	New public infrastructures for small firm industral modernization in the USA. *Entrepreneurship and Regional Development*, **1995**, 7, 63-84	4.3	30
103	Nanotechnology in the City: Sustainability Challenges and Anticipatory Governance. *Journal of Urban Technology*, **2013**, 20, 45-62	5.9	26
102	Rapid prototyping of microbial production strains for the biomanufacture of potential materials monomers. *Metabolic Engineering*, **2020**, 60, 168-182	9.7	25
101	Using web mining to explore Triple Helix influences on growth in small and mid-size firms. *Technovation*, **2018**, 76-77, 3-14	7.9	25
100	US manufacturing extension partnerships: technology policy reinvented?. *Research Policy*, **2001**, 30, 977-992	7.5	25
99	Modern Times: Learning from State Initiatives in Industrial Extension and Technology Transfer. *Economic Development Quarterly*, **1990**, 4, 186-202	0.5	25
98	Pathways from discovery to commercialisation: using web sources to track small and medium-sized enterprise strategies in emerging nanotechnologies. *Technology Analysis and Strategic Management* , **2012**, 24, 981-995	3.2	24
97	A bibliometric analysis of the development of next generation active nanotechnologies. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	24
96	Science system path-dependencies and their influences: nanotechnology research in Russia. *Scientometrics*, **2016**, 107, 645-670	3	23
95	Graphene enterprise: mapping innovation and business development in a strategic emerging technology. *Journal of Nanoparticle Research*, **2016**, 18, 269	2.3	22
94	Career-based influences on scientific recognition in the United States and Europe: Longitudinal evidence from curriculum vitae data. *Research Policy*, **2013**, 42, 1341-1355	7.5	20
93	Early patterns of commercial activity in graphene. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	20
92	Building capabilities for innovation in SMEs: a cross-country comparison of technology extension policies and programmes. *International Journal of Innovation and Regional Development*, **2011**, 3, 254	0.3	20
91	Redistributed Manufacturing and the Impact of Big Data: A Consumer Goods Perspective. *Production Planning and Control*, **2019**, 30, 568-581	4.3	18
90	Institutionalization of international university research ventures. *Research Policy*, **2017**, 46, 1692-1705	7.5	18
89	Why do technology firms publish scientific papers? The strategic use of science by small and midsize enterprises in nanotechnology. *Journal of Technology Transfer*, **2015**, 40, 1016-1033	4.4	18
88	The use of environmental, health and safety research in nanotechnology research. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 158-66	1.3	18

87	Updating a search strategy to track emerging nanotechnologies. *Journal of Nanoparticle Research*, **2019**, 21, 1	2.3	16
86	Tracking researchers and their outputs: new insights from ORCIDs. *Scientometrics*, **2017**, 113, 437-453	3	16
85	Measuring the development of a common scientific lexicon in nanotechnology. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	16
84	Innovative and Responsible Governance of Nanotechnology for Societal Development **2011**, 561-617		16
83	Knowledge, Capabilities and Manufacturing Innovation: A USAEurope Comparison. *Regional Studies*, **2010**, 44, 253-279	3.4	16
82	Measures for knowledge-based economic development: Introducing data mining techniques to economic developers in the state of Georgia and the US South. *Technological Forecasting and Social Change*, **2006**, 73, 950-965	9.5	16
81	Anticipating governance challenges in synthetic biology: Insights from biosynthetic menthol. *Technological Forecasting and Social Change*, **2019**, 139, 311-320	9.5	15
80	Social science contributions compared in synthetic biology and nanotechnology. *Journal of Responsible Innovation*, **2015**, 2, 143-148	2.1	15
79	The role of national and regional innovation programmes in stimulating international cooperation in innovation. *International Journal of Technology Management*, **2009**, 48, 473	1.2	15
78	Mapping the nanotechnology enterprise: a multi-indicator analysis of emerging nanodistricts in the US South. *Journal of Technology Transfer*, **2008**, 33, 209-223	4.4	15
77	Using an evaluability assessment to select methods for evaluating state technology development programs: the case of the Georgia Research Alliance. *Evaluation and Program Planning*, **1999**, 22, 55-64	1.7	15
76	The Economic Contributions of Nanotechnology to Green and Sustainable Growth **2015**, 409-434		14
75	Signs of things to come? What patent submissions by small and medium-sized enterprises say about corporate strategies in emerging technologies. *Technological Forecasting and Social Change*, **2014**, 85, 17-25	9.5	14
74	Effects of international collaboration and knowledge moderation on China's nanotechnology research impacts. *Journal of Technology Management in China*, **2012**, 7, 94-110		14
73	Modernizing small manufacturers in Japan: The role of local public technology centers. *Journal of Technology Transfer*, **1992**, 17, 40-57	4.4	14
72	An Outlook on Innovation Policy, Theory and Practice		14
71	Supply, demand and ICT-based services: A local level perspective. *Telecommunications Policy*, **2007**, 31, 347-358	4	13
70	Machine tools: the remaking of a traditional sectoral innovation system **2004**, 243-286		13

69	Evaluating industrial modernization: Introduction to the theme issue. *Research Policy*, **1996**, 25, 181-183	7.5	13
68	Private and public values of innovation: A patent analysis of synthetic biology. *Research Policy*, **2020**, 49, 103875	7.5	13
67	Technological diversity, scientific excellence and the location of inventive activities abroad: the case of nanotechnology. *Journal of Technology Transfer*, **2009**, 34, 286-303	4.4	12
66	Evaluating industrial modernization: Methods, results, and insights from the Georgia Manufacturing Extension Alliance. *Journal of Technology Transfer*, **1998**, 23, 17-27	4.4	12
65	Teaching with Internet and Multimedia Technologies: Insights from an Online Seminar on Industrial Modernization. *Journal of Planning Education and Research*, **2001**, 21, 71-83	1.8	12
64	Collaborating constructively for sustainable biotechnology. *Scientific Reports*, **2019**, 9, 19033	4.9	12
63	Innovations in European and US innovation policy. *Research Policy*, **2001**, 30, 869-872	7.5	11
62	Tracking developments in artificial intelligence research: constructing and applying a new search strategy. *Scientometrics*, **2021**, 126, 3153-3192	3	11
61	Institutional change and innovation system transformation: A tale of two academies. *Technological Forecasting and Social Change*, **2017**, 116, 196-207	9.5	10
60	Introduction to the symposium issue: nanotechnology innovation and policy□current strategies and future trajectories. *Journal of Technology Transfer*, **2011**, 36, 581-586	4.4	10
59	Introduction. A Systemic Perspective: The Innovation Policy Dance		10
58	Putting Innovation in Place: Policy Strategies for Industrial Services, Regional Clusters, and Manufacturing SMEs in Japan and the United States 1 1. Earlier versions of this paper were presented at the Conference on Restructuring SMEs in the Age of Globalization, East□West Center and the Korean Development Institute, Honolulu, HI, 2□2 July 2005, and at the Workshop on	0	10
57	MORE IS LESS? THE CURVILINEAR EFFECTS OF POLITICAL TIES ON CORPORATE INNOVATION PERFORMANCE. *Technological and Economic Development of Economy*, **2019**, 25, 1309-1335	4.7	10
56	Manufacturing partnerships: Evaluation in the context of government reform. *Evaluation and Program Planning*, **1997**, 20, 103-112	1.7	9
55	Bioengineering horizon scan 2020. *ELife*, **2020**, 9,	8.9	9
54	Mapping the patent landscape of synthetic biology for fine chemical production pathways. *Microbial Biotechnology*, **2016**, 9, 687-95	6.3	8
53	Industrial restructuring and economic development strategies in a Japanese steel town: The case of Kitakyushu. *Town Planning Review*, **1990**, 61, 389	0.8	8
52	Media Access		8

51	Innovation in Production **1999**,		8
50	Mapping the emergence of international university research ventures. *Journal of Technology Transfer*, **2019**, 44, 1134-1162	4.4	8
49	Engineering Small Worlds in a Big Society: Assessing the Early Impacts of Nanotechnology in China. *Review of Policy Research*, **2012**, 29, 752-775	1.5	7
48	Linking research production and development outcomes at the regional level. *Research Evaluation*, **2003**, 12, 105-116	1.7	7
47	The Role of Big Data to Facilitate Redistributed Manufacturing Using a Co-creation Lens: Patterns from Consumer Goods. *Procedia CIRP*, **2017**, 63, 680-685	1.8	6
46	Innovation challenges and strategies in catch-up regions. *Economics of Science, Technology and Innovation*, **2005**, 195-221		6
45	Women and Patenting in Nanotechnology: Scale, Scope and Equity **2010**, 23-46		6
44	Modernizing Small Manufacturers in the United States and Japan: Public Technological Infrastructures and Strategies. *Economics of Science, Technology and Innovation*, **1996**, 285-334		6
43	Measuring dynamic capabilities in new ventures: exploring strategic change in US green goods manufacturing using website data. *Journal of Technology Transfer*, **2020**, 45, 1451-1480	4.4	6
42	Inter-industry knowledge flows and sectoral networks in the economy of Malaysia. *Knowledge Management Research and Practice*, **2016**, 14, 280-294	2.1	5
41	SYNBIOCHEM-a SynBio foundry for the biosynthesis and sustainable production of fine and speciality chemicals. *Biochemical Society Transactions*, **2016**, 44, 675-7	5.1	5
40	Conclusions: Evidence on the effectiveness of innovation policy intervention543-564		4
39	Exploring public values implications of the I-Corps program. *Journal of Technology Transfer*, **2017**, 42, 1362-1376	4.4	4
38	The emergence of science-driven entrepreneurship in China: a case study of technological innovation in nano-pigment inks. *International Journal of Entrepreneurship and Innovation Management*, **2013**, 17, 162	0.4	4
37	**2009**,		4
36	Tracking customer progress: A follow-up study of customers of the Georgia Manufacturing Extension Alliance. *Journal of Technology Transfer*, **1997**, 22, 43-52	4.4	4
35	Learning to Innovate: Building Regional Technology Development Learning Networks in Midsized Cities. *European Planning Studies*, **2008**, 16, 1207-1228	3.2	4
34	Evaluating the Impact of Manufacturing Extension Services on Establishment Performance. *Economic Development Quarterly*, **2018**, 32, 29-43	0.5	3

33	The Values of Synthetic Biology: Researcher Views of Their Field and Participation in Public Engagement. *BioScience*, **2018**, 68, 782-791	5.7	3
32	Developing an innovative materials enterprise in China: a nanotechnology small business case study. *Chinese Management Studies*, **2014**, 8, 201-217	1.8	3
31	Perceptions and actions: relationships of views on risk with citation actions of nanotechnology scientists. *Research Evaluation*, **2011**, 20, 377-388	1.7	3
30	Coordinating industrial modernization services: Impacts and insights from the U.S. Manufacturing Extension Partnership. *Journal of Technology Transfer*, **1997**, 22, 5-10	4.4	3
29	Innovation and Small and Midsize Enterprises: Innovation Dynamics and Policy Strategies		3
28	Scientific publications and COVID-19 research pivots during the pandemic: An initial bibliometric analysis		3
27	Exploring Links Between Innovation and Profitability in Georgia Manufacturers. *Economic Development Quarterly*, **2018**, 32, 271-287	0.5	3
26	Lessons From 10 Years of Nanotechnology Bibliometric Analysis **2018**, 11-31		2
25	Contrasting perspectives on the evaluation of industrial modernization: Introduction to the symposium. *Journal of Technology Transfer*, **1998**, 23, 3-6	4.4	2
24	. *IEEE Spectrum*, **1993**, 30, 70-73	1.7	2
23	After central planning: The restructuring of state industry in Bulgaria's Bourgas region. *European Planning Studies*, **1994**, 2, 131-157	3.2	2
22	Industrial Restructuring: Public Policies for Investment in Advanced Industrial Society. *Annals of the American Academy of Political and Social Science*, **1984**, 475, 96-109	2.8	2
21	Innovation Strategies and Manufacturing Practices: Insights from the 2005 Georgia Manufacturing Survey		2
20	The Potential of Nanotechnology for Equitable Economic Development: The Case of Brazil **2010**, 309-329		2
19	Research network emergence: Societal issues in nanotechnology and the center for nanotechnology in society. *Science and Public Policy*, **2019**, 46, 126-135	1.8	2
18	Nanotechnology Research and Innovation in Russia: A Bibliometric Analysis. *SSRN Electronic Journal* , **2014**,	1	1
17	Early Patterns of Commercialization in Graphene **2013**, 161-180		1
16	A brief history of the future of manufacturing: US manufacturing technology forecasts in retrospective, 1950-present. *International Journal of Foresight and Innovation Policy*, **2007**, 3, 311	0.7	1

15	Evaluating a large-scale research and development program in Japan: methods, findings and insights. *International Journal of Technology Management*, **2003**, 26, 166	1.2	1
14	Mapping technological innovation dynamics in artificial intelligence domains: Evidence from a global patent analysis.. *PLoS ONE*, **2021**, 16, e0262050	3.7	1
13	Metropolitan Development of Nanotechnology: Concentration or Dispersion? **2010**, 165-180		1
12	Exploring New approaches to understanding innovation ecosystems. *Technology Analysis and Strategic Management*,1-15	3.2	1
11	Identifying author heritage using surname data: An application for Russian surnames. *Journal of the Association for Information Science and Technology*, **2019**, 70, 488-498	2.7	0
10	Corporate engagement with nanotechnology through research publications. *Journal of Nanoparticle Research*, **2021**, 23, 1	2.3	0
9	TheBulgarian Economy:Lessons fromReform during EarlyTransition, Edited by Derek C. Jones and Jeffrey Miller. Aldershot, UK and Brookfield, VT: Ashgate Publishing, 1997. xvi, 360 pp. $76.95.. *Canadian-American Slavic Studies*, **2001**, 35, 483-484	0	
8	Policy interactions with research trajectories: The case of cyber-physical convergence in manufacturing and industrials. *Technological Forecasting and Social Change*, **2021**, 175, 121347	9.5	
7	Private and public values of innovation. *Proceedings - Academy of Management*, **2019**, 2019, 16324	0.1	
6	Scientists and the Publics Views of Synthetic Biology. *Risk, Systems and Decisions*, **2020**, 371-387	0.7	
5	Introduction: Perspectives on German Industry and Its Competitiveness **1999**, 1-17		
4	Implications for Modernization Strategies and Studies **1999**, 159-170		
3	Scientific publications and COVID-19 esearch pivots during the pandemic. *Proceedings - Academy of Management*, **2021**, 2021, 13568	0.1	
2	Commercializing Emerging Technologies through Networks: Insights from UK Nanotechnology SMEs. *Proceedings - Academy of Management*, **2021**, 2021, 13531	0.1	
1	Commercialization networks in emerging technologies: the case of UK nanotechnology small and midsize enterprises. *Journal of Technology Transfer*,1	4.4	