

Andreas Pyka

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

3,116
citations

185998

28
h-index

205818

48
g-index

144
all docs

144
docs citations

144
times ranked

1787
citing authors

#	ARTICLE	IF	CITATIONS
1	How to Respond to the Fourth Industrial Revolution, or the Second Information Technology Revolution? Dynamic New Combinations between Technology, Market, and Society through Open Innovation. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 2018, 4, 21.	2.6	284
2	Economic development by the creation of new sectors. <i>Journal of Evolutionary Economics</i> , 2004, 14, 1-35.	0.8	186
3	Innovation networks in economics: from the incentive-based to the knowledge-based approaches. <i>European Journal of Innovation Management</i> , 2002, 5, 152-163.	2.4	145
4	Innovation Systems for Transformations towards Sustainability? Taking the Normative Dimension Seriously. <i>Sustainability</i> , 2017, 9, 2253.	1.6	124
5	Classifying technology policy from an evolutionary perspective. <i>Research Policy</i> , 2001, 30, 759-775.	3.3	115
6	Wissen für den Wandel – Wissenstheoretische Grundlagen einer nachhaltigen Bioökonomiepolitik. <i>Technikzukunfte, Wissenschaft Und Gesellschaft</i> , 2020, , 73-105.	0.1	115
7	A New Model for University-Industry Links in Knowledge-Based Economies. <i>Journal of Product Innovation Management</i> , 2011, 28, 218-235.	5.2	90
8	From commodity-based value chains to biomass-based value webs: The case of sugarcane in Brazil's bioeconomy. <i>Journal of Cleaner Production</i> , 2018, 172, 3851-3863.	4.6	83
9	The Impact of Automation on Employment: Just the Usual Structural Change?. <i>Sustainability</i> , 2018, 10, 1661.	1.6	75
10	What drives the internationalisation of innovation? Evidence from European patent data. <i>Economics of Innovation and New Technology</i> , 2010, 19, 71-86.	2.1	69
11	Learning in innovation networks: Some simulation experiments. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 378, 100-109.	1.2	66
12	An Evolutionary Approach to the Theory of Entrepreneurship. <i>Industry and Innovation</i> , 2003, 10, 493-514.	1.7	65
13	Dedicated innovation systems to support the transformation towards sustainability: creating income opportunities and employment in the knowledge-based digital bioeconomy. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 2017, 3, 1-18.	2.6	63
14	Learning to change: Transformative knowledge for building a sustainable bioeconomy. <i>Ecological Economics</i> , 2020, 167, 106435.	2.9	63
15	Product variety, competition and economic growth. <i>Journal of Evolutionary Economics</i> , 2008, 18, 323-347.	0.8	58
16	Micro and macro dynamics: Industry life cycles, inter-sector coordination and aggregate growth. <i>Journal of Evolutionary Economics</i> , 2008, 18, 167-182.	0.8	57
17	SIMULATING KNOWLEDGE-GENERATION AND DISTRIBUTION PROCESSES IN INNOVATION COLLABORATIONS AND NETWORKS. <i>Cybernetics and Systems</i> , 2007, 38, 667-693.	1.6	47
18	Economic development, qualitative change and employment creation. <i>Structural Change and Economic Dynamics</i> , 2004, 15, 265-287.	2.1	45

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19	Why do firms cooperate for innovation? A comparison of Austrian and Finnish CIS3 results. <i>International Journal of Foresight and Innovation Policy</i> , 2008, 4, 200.	0.2	45
20	Evolutionary Economics, Responsible Innovation and Demand: Making a Case for the Role of Consumers. <i>Philosophy of Management</i> , 2018, 17, 7-39.	0.7	44
21	The co-evolution of innovation, demand and growth. <i>Economics of Innovation and New Technology</i> , 2013, 22, 461-482.	2.1	41
22	Crisis-driven innovation and fundamental human needs: A typological framework of rapid-response COVID-19 innovations. <i>Technological Forecasting and Social Change</i> , 2021, 169, 120799.	6.2	40
23	Education, structural change and economic development. <i>Structural Change and Economic Dynamics</i> , 2016, 38, 55-68.	2.1	38
24	Exploring the Dedicated Knowledge Base of a Transformation towards a Sustainable Bioeconomy. <i>Sustainability</i> , 2018, 10, 1694.	1.6	36
25	Informal networking. <i>Technovation</i> , 1997, 17, 207-224.	4.2	35
26	Informal networking and industrial life cycles. <i>Technovation</i> , 2000, 20, 25-35.	4.2	35
27	The evolution of innovation networks: the case of a publicly funded German automotive network. <i>Economics of Innovation and New Technology</i> , 2015, 24, 114-139.	2.1	32
28	Mapping national innovation systems in the OECD area. <i>International Journal of Technology and Globalisation</i> , 2006, 2, 158.	0.1	30
29	The evolution of R&D networking in the biotech industries. <i>International Journal of Entrepreneurship and Innovation Management</i> , 2005, 5, 49.	0.1	29
30	Agency and structure: a social simulation of knowledge-intensive industries. <i>Computational and Mathematical Organization Theory</i> , 2011, 17, 59-76.	1.5	29
31	SIMULATING KNOWLEDGE DYNAMICS IN INNOVATION NETWORKS (SKIN)., 2004, , .		28
32	Productivity Slowdown, Exhausted Opportunities and the Power of Human Ingenuity – Schumpeter Meets Georgescu-Roegen. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 2019, 5, 39.	2.6	27
33	Systemic interventions in regional innovation systems: entrepreneurship, knowledge accumulation and regional innovation. <i>Regional Studies</i> , 2019, 53, 1321-1332.	2.5	27
34	Introduction: co-evolution and complex adaptive systems in evolutionary economics. <i>Journal of Evolutionary Economics</i> , 2014, 24, 205-207.	0.8	26
35	The self-organisation of strategic alliances. <i>Economics of Innovation and New Technology</i> , 2003, 12, 245-268.	2.1	25
36	Technological evolution – an analysis within the knowledge-based approach. <i>Structural Change and Economic Dynamics</i> , 1998, 9, 85-107.	2.1	24

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37	The rule approach in evolutionary economics: A methodological template for empirical research. <i>Journal of Evolutionary Economics</i> , 2014, 24, 1085-1105.	0.8	24
38	From necessities to imaginary worlds: Structural change, product quality and economic development. <i>Technological Forecasting and Social Change</i> , 2013, 80, 1499-1512.	6.2	23
39	The Role of Network Topology and the Spatial Distribution and Structure of Knowledge in Regional Innovation Policy: A Calibrated Agent-Based Model Study. <i>Computational Economics</i> , 2018, 52, 773-808.	1.5	23
40	Economic Growth, Development, and Innovation: The Transformation Towards a Knowledge-Based Bioeconomy. , 2018, , 331-342.		22
41	On the performance and strategy of innovation systems: A multicriteria group decision analysis approach. <i>Technology in Society</i> , 2021, 67, 101632.	4.8	20
42	Product variety, competition and economic growth. , 2009, , 71-95.		20
43	Diversification, structural change, and economic development. <i>Journal of Evolutionary Economics</i> , 2020, 30, 1301-1335.	0.8	19
44	Introduction: long term economic development – demand, finance, organization, policy and innovation in a Schumpeterian perspective. <i>Journal of Evolutionary Economics</i> , 2012, 22, 621-625.	0.8	18
45	Time to Say “Good Buy” to the Passive Consumer? A Conceptual Review of the Consumer in the Bioeconomy. <i>Journal of Agricultural and Environmental Ethics</i> , 2021, 34, 1.	0.9	18
46	Avoiding evolutionary inefficiencies in innovation networks. <i>Prometheus</i> , 2014, 32, .	0.2	16
47	Modelling Research Policy: Ex-Ante Evaluation of Complex Policy Instruments. <i>Jasss</i> , 2015, 18, .	1.0	16
48	Upward and downward complementarity: the meso core of evolutionary growth theory. <i>Journal of Evolutionary Economics</i> , 2016, 26, 753-763.	0.8	15
49	Innovation, structural change and demand evolution: does demand saturate?. <i>Journal of Evolutionary Economics</i> , 2017, 27, 337-358.	0.8	15
50	Diffusion of eco-innovation through inter-firm network targeting: An agent-based model. <i>Journal of Cleaner Production</i> , 2022, 335, 130298.	4.6	14
51	Evolution and co-evolution of regional innovation processes. <i>Regional Studies</i> , 2019, 53, 1235-1239.	2.5	13
52	Agent-Based Modelling of Innovation Networks – The Fairytale of Spillover. <i>Understanding Complex Systems</i> , 2009, , 101-126.	0.3	13
53	Agent-based Modeling for Decision Making in Economics under Uncertainty. <i>Economics</i> , 2016, 10, .	0.2	12
54	Transformation of Economic Systems: The Bio-Economy Case. <i>Economic Complexity and Evolution</i> , 2017, , 3-16.	0.1	11

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55	A life cycle-based taxonomy of innovation networks “ with a focus on public“private collaboration. , 2013, , .		11
56	Generalized barriers to entry and economic development. Journal of Evolutionary Economics, 2011, 21, 29-52.	0.8	10
57	LEARNING-BY-MODELING: INSIGHTS FROM AN AGENT-BASED MODEL OF UNIVERSITY“INDUSTRY RELATIONSHIPS. Cybernetics and Systems, 2011, 42, 484-501.	1.6	10
58	Technological progress and effects of (Supra) regional innovation and production collaboration. An agent-based model simulation study. , 2014, , .		10
59	R&D and knowledge dynamics in university-industry relationships in biotech and pharmaceuticals: an agent-based model. International Journal of Biotechnology, 2014, 13, 137.	1.2	8
60	A model of innovation network formation. Innovation: Management, Policy and Practice, 2017, 19, 245-269.	2.6	8
61	Social Network Metric-Based Interventions? Experiments with an Agent-Based Model of the COVID-19 Pandemic in a Metropolitan Region. Jasss, 2021, 24, .	1.0	8
62	The Effects of Supraregional Innovation and Production Collaboration on Technology Development in a Multiregional World: A Spatial Agent-Based Model Study. Lecture Notes in Computer Science, 2014, , 698-707.	1.0	8
63	Kaizen 4.0 Towards an Integrated Framework for the Lean-Industry 4.0 Transformation. Advances in Intelligent Systems and Computing, 2020, , 692-709.	0.5	8
64	Innovation and Sectoral Employment: A Trade-off between Compensation Mechanisms. Labour, 2002, 16, 635-665.	0.5	7
65	Agent-Based Modelling “ A Methodology for the Analysis of Qualitative Development Processes. , 2006, , 17-35.		7
66	Against the one-way-street: analyzing knowledge transfer from industry to science. Journal of Technology Transfer, 2014, 39, 219-246.	2.5	7
67	Schumpeterian Competition and Industrial Dynamics. , 0, , 104-142.		7
68	Regional Innovation Systems in Policy Laboratories. Journal of Open Innovation: Technology, Market, and Complexity, 2018, 4, 44.	2.6	7
69	Robots, Structural Change, and Employment: Future Scenarios. , 2020, , 1-37.		7
70	The formation of R&D cooperation ties: an event history analysis for German laser source manufacturers. Industrial and Corporate Change, 2016, 25, 649-670.	1.7	6
71	The Bioeconomy Transition Process: Sailing through Storms and Doldrums in Unknown Waters. Journal of Innovation Economics and Management, 2022, NÅ° 38, 35-61.	0.6	6
72	Product innovation and population dynamics in the German insurance market. Zeitschrift Fur Die Gesamte Versicherungswissenschaft, 2004, 93, 477-519.	1.2	5

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73	Erich Schneider: The admiring disciple who did not become a follower. Journal of Evolutionary Economics, 2015, 25, 239-252.	0.8	5
74	Innovation Systems for Sustainability. Encyclopedia of the UN Sustainable Development Goals, 2019, , 1-12.	0.0	5
75	Applying a Comprehensive Neo-Schumpeterian Approach to Europe and Its Lisbon Agenda. , 2007, , 275-299.		5
76	The global stakeholder capitalism model of digital platforms and its implications for strategy and innovation from a Schumpeterian perspective. Journal of Evolutionary Economics, 2022, 32, 463-500.	0.8	5
77	International Innovation Networks and Knowledge Migration. , 0, , .		4
78	Innovation Networks. , 2012, , .		4
79	Applying Comprehensive Neo-Schumpeterian Economics to Latin American Economies. Structural Change and Economic Dynamics, 2010, 21, 70-83.	2.1	3
80	Simulating demand-side effects on innovation. International Journal of Computational Economics and Econometrics, 2015, 5, 220.	0.1	3
81	TAKING THE FIRST STEP – WHAT DETERMINES GERMAN LASER SOURCE MANUFACTURERS ENTRY INTO INNOVATION NETWORKS?. International Journal of Innovation Management, 2015, 19, 1550050.	0.7	3
82	Biosimilars in Germany: the emergence of a new industry in the light of the varieties of capitalism approach. Technology Analysis and Strategic Management, 2017, 29, 276-289.	2.0	3
83	Evolutionary Perspectives on Long Run Economic Development. , 0, , 143-171.		3
84	Introduction: Special Issue on Evolutionary Dynamics and Agent-Based Modeling in Economics. Computational Economics, 2018, 52, 707-710.	1.5	3
85	A Generic Innovation Network Formation Strategy. Economic Complexity and Evolution, 2015, , 279-308.	0.1	3
86	Testing Policy Options for Horizon 2020 with SKIN. Understanding Complex Systems, 2014, , 155-183.	0.3	3
87	An evolutionary approach to the theory of entrepreneurship. , 2004, , .		3
88	Introduction: Network Perspectives on Innovations: Innovative Networks – Network Innovation. Understanding Complex Systems, 2009, , 1-16.	0.3	3
89	Simulating Knowledge Dynamics in Innovation Networks: An Introduction. Understanding Complex Systems, 2014, , 1-13.	0.3	3
90	Die Bio-Ökonomie unter dem Blickwinkel der Innovations-Ökonomie. , 2017, , 129-138.		3

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91	Innovation Systems for Sustainability. Encyclopedia of the UN Sustainable Development Goals, 2021, , 600-611.	0.0	3
92	Innovation, qualitative change and economic development“Special issue in honour of Pier-Paolo Saviotti. Structural Change and Economic Dynamics, 2010, 21, 1-4.	2.1	2
93	Is It Worth All the Trouble? An Assessment of the Economic Value of Firm Patent Applications with Shared Intellectual Property Rights in the Biotechnology Industry. , 2012, , 123-142.		2
94	Evolutionary programming of product design policies. An agent-based model study. , 2017, , .		2
95	A taxonomic structural change perspective on the economic impact of robots and artificial intelligence on creative work. , 2020, , .		2
96	Economic Growth Through the Emergence of New Sectors. , 2011, , 55-101.		2
97	Upward and Downward Complementarity: The Meso Core of Evolutionary Growth Theory. Economic Complexity and Evolution, 2017, , 69-80.	0.1	2
98	Quo Vadis, Bioeconomy? the Necessity of Normative Considerations in the Transition. Journal of Agricultural and Environmental Ethics, 2022, 35, 1.	0.9	2
99	A NEO-SCHUMPETERIAN MODEL OF ENERGY MARKETS. Cybernetics and Systems, 2009, 40, 418-440.	1.6	1
100	On the “How Many Europes” Debate: Varieties of Service Economies. Tijdschrift Voor Economische En Sociale Geografie, 2015, 106, 307-320.	1.2	1
101	Editorial: Foundations of economic change “ behavior, interaction and aggregate outcomes. Journal of Evolutionary Economics, 2016, 26, 697-700.	0.8	1
102	Capability-based governance patterns over the product life-cycle: an agent-based model. Journal of Economic Interaction and Coordination, 2018, 13, 311-349.	0.4	1
103	Network dynamics, economic transition, and policy design“an introduction. Review of Evolutionary Political Economy, 2021, 2, 1-8.	0.8	1
104	Generalized Barriers to Entry and Economic Development. , 2011, , 59-80.		1
105	Ex-ante Evaluation von Investitionsalternativen. TATuP - Zeitschrift F¼r Technikfolgenabschätzung in Theorie Und Praxis, 2017, 26, 51-57.	0.2	1
106	Die Simulation von Lernen in Innovationsnetzwerken. , 2004, , 165-185.		1
107	Innovation and Finance. , 0, , .		1
108	Evolutorische Innovationsökonomik. , 2019, , 1-19.		1

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109	Understanding the Transformation to a Knowledge-Based Health Bioeconomy: Exploring Dynamics Linked to Preventive Medicine in Kenya. Sustainability, 2021, 13, 12162.	1.6	1
110	Mechanization in sugarcane production and other agricultural activities: an econometric analysis of employment and income. GestÃ£o & ProduÃ§Ã£o, 2021, 28, .	0.5	1
111	International Joseph A. Schumpeter Society. Journal of Evolutionary Economics, 1996, 6, 334-338.	0.8	0
112	The Twin Peaks in National Income: Parametric and Nonparametric Estimates. Revue Economique, 2004, 55, 1127.	0.1	0
113	Editorial: Building bridges. Journal of Evolutionary Economics, 2018, 28, 1001-1003.	0.8	0
114	Introduction to the special issue from the 2018 ISS conference. Journal of Evolutionary Economics, 2020, 30, 891-895.	0.8	0
115	Evolutorische InnovationsÃ¶konomik. , 2021, , 83-101.		0
116	A Framework for Ethical Research and Innovation. Science and Engineering Ethics, 2021, 27, 11.	1.7	0
117	Cutting Back Models and Simulations. Intelligent Systems Reference Library, 2013, , 141-156.	1.0	0
118	Die Transformation zur wissensbasierten BioÃ¶konomie. , 2017, , 333-361.		0
119	Uzzi (1997): Social Structure and Competition in Interfirm Networks: The Paradox of Embeddedness. Netzwerkforschung, 2019, , 535-538.	0.0	0
120	Powell et al. (2005): Network Dynamics and Field Evolution. Netzwerkforschung, 2019, , 469-472.	0.0	0
121	Comment on: Innovations, Technological Specialization and Economic Convergence in the EU. , 2005, , 201-204.		0
122	The use of genetic programming in evolutionary economics. , 2004, , .		0
123	Simulating the Role of MNCs for Knowledge and Capital Dynamics in Networks of Innovation. , 2012, , .		0
124	Twin Peaks: What the Knowledge-based Approach Can Say about the Dynamics of the World Income Distribution. , 2003, , .		0
125	A Conceptual Framework to Model Long-run Qualitative Change in the Energy System. , 2004, , .		0