

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	The Bioeconomy Transition Process: Sailing through Storms and Doldrums in Unknown Waters. <i>Journal of Innovation Economics and Management</i> , 2022, NÅ° 38, 35-61.	0.6	6
2	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
3	The global stakeholder capitalism model of digital platforms and its implications for strategy and innovation from a Schumpeterian perspective. <i>Journal of Evolutionary Economics</i> , 2022, 32, 463-500.	0.8	5
4	Quo Vadis, Bioeconomy? the Necessity of Normative Considerations in the Transition. <i>Journal of Agricultural and Environmental Ethics</i> , 2022, 35, 1.	0.9	2
5	Social Network Metric-Based Interventions? Experiments with an Agent-Based Model of the COVID-19 Pandemic in a Metropolitan Region. <i>Jasss</i> , 2021, 24, .	1.0	8
6	Evolutionäre Innovationsökonomik. , 2021, , 83-101.		0
7	A Framework for Ethical Research and Innovation. <i>Science and Engineering Ethics</i> , 2021, 27, 11.	1.7	0
8	Network dynamics, economic transition, and policy design – an introduction. <i>Review of Evolutionary Political Economy</i> , 2021, 2, 1-8.	0.8	1
9	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
10	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
11	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
12	Understanding the Transformation to a Knowledge-Based Health Bioeconomy: Exploring Dynamics Linked to Preventive Medicine in Kenya. <i>Sustainability</i> , 2021, 13, 12162.	1.6	1
13	Innovation Systems for Sustainability. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2021, , 600-611.	0.0	3
14	Mechanization in sugarcane production and other agricultural activities: an econometric analysis of employment and income. <i>Gestaltung & Produktion</i> , 2021, 28, .	0.5	1
15	Learning to change: Transformative knowledge for building a sustainable bioeconomy. <i>Ecological Economics</i> , 2020, 167, 106435.	2.9	63
16	Introduction to the special issue from the 2018 ISS conference. <i>Journal of Evolutionary Economics</i> , 2020, 30, 891-895.	0.8	0
17	Diversification, structural change, and economic development. <i>Journal of Evolutionary Economics</i> , 2020, 30, 1301-1335.	0.8	19
18	Wissen für den Wandel – Wissenstheoretische Grundlagen einer nachhaltigen Bioökonomiepolitik. <i>Technikzukunfte, Wissenschaft Und Gesellschaft</i> , 2020, , 73-105.	0.1	115

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19	A taxonomic structural change perspective on the economic impact of robots and artificial intelligence on creative work. , 2020, , .		2
20	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
21	Robots, Structural Change, and Employment: Future Scenarios. , 2020, , 1-37.		7
22	Evolution and co-evolution of regional innovation processes. Regional Studies, 2019, 53, 1235-1239.	2.5	13
23	Productivity Slowdown, Exhausted Opportunities and the Power of Human Ingenuityâ€”Schumpeter Meets Georgescu-Roegen. Journal of Open Innovation: Technology, Market, and Complexity, 2019, 5, 39.	2.6	27
24	Innovation Systems for Sustainability. Encyclopedia of the UN Sustainable Development Goals, 2019, , 1-12.	0.0	5
25	Systemic interventions in regional innovation systems: entrepreneurship, knowledge accumulation and regional innovation. Regional Studies, 2019, 53, 1321-1332.	2.5	27
26	Uzzi (1997): Social Structure and Competition in Interfirm Networks: The Paradox of Embeddedness. Netzwerkforschung, 2019, , 535-538.	0.0	0
27	Powell et al. (2005): Network Dynamics and Field Evolution. Netzwerkforschung, 2019, , 469-472.	0.0	0
28	Evolutionäre Innovationsökonomik. , 2019, , 1-19.		1
29	Economic Growth, Development, and Innovation: The Transformation Towards a Knowledge-Based Bioeconomy. , 2018, , 331-342.		22
30	The Role of Network Topology and the Spatial Distribution and Structure of Knowledge in Regional Innovation Policy: A Calibrated Agent-Based Model Study. Computational Economics, 2018, 52, 773-808.	1.5	23
31	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
32	From commodity-based value chains to biomass-based value webs: The case of sugarcane in Brazilâ€™s bioeconomy. Journal of Cleaner Production, 2018, 172, 3851-3863.	4.6	83
33	Evolutionary Economics, Responsible Innovation and Demand: Making a Case for the Role of Consumers. Philosophy of Management, 2018, 17, 7-39.	0.7	44
34	Regional Innovation Systems in Policy Laboratories. Journal of Open Innovation: Technology, Market, and Complexity, 2018, 4, 44.	2.6	7
35	Editorial: Building bridges. Journal of Evolutionary Economics, 2018, 28, 1001-1003.	0.8	0
36	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. Journal of Open Innovation: Technology, Market, and Complexity, 2018, 4, 21.	2.6	284

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37	Introduction: Special Issue on Evolutionary Dynamics and Agent-Based Modeling in Economics. Computational Economics, 2018, 52, 707-710.	1.5	3
38	The Impact of Automation on Employment: Just the Usual Structural Change?. Sustainability, 2018, 10, 1661.	1.6	75
39	Exploring the Dedicated Knowledge Base of a Transformation towards a Sustainable Bioeconomy. Sustainability, 2018, 10, 1694.	1.6	36
40	Innovation, structural change and demand evolution: does demand saturate?. Journal of Evolutionary Economics, 2017, 27, 337-358.	0.8	15
41	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
42	A model of innovation network formation. Innovation: Management, Policy and Practice, 2017, 19, 245-269.	2.6	8
43	Transformation of Economic Systems: The Bio-Economy Case. Economic Complexity and Evolution, 2017, , 3-16.	0.1	11
44	Evolutionary programming of product design policies. An agent-based model study. , 2017, ,		2
45	Dedicated innovation systems to support the transformation towards sustainability: creating income opportunities and employment in the knowledge-based digital bioeconomy. Journal of Open Innovation: Technology, Market, and Complexity, 2017, 3, 1-18.	2.6	63
46	Innovation Systems for Transformations towards Sustainability? Taking the Normative Dimension Seriously. Sustainability, 2017, 9, 2253.	1.6	124
47	Ex-ante Evaluation von Investitionsalternativen. TATuP - Zeitschrift für Technikfolgenabschätzung in Theorie Und Praxis, 2017, 26, 51-57.	0.2	1
48	Die Transformation zur wissensbasierten Bioökonomie. , 2017, , 333-361.		0
49	Upward and Downward Complementarity: The Meso Core of Evolutionary Growth Theory. Economic Complexity and Evolution, 2017, , 69-80.	0.1	2
50	Die Bioökonomie unter dem Blickwinkel der Innovationsökonomie. , 2017, , 129-138.		3
51	Agent-based Modeling for Decision Making in Economics under Uncertainty. Economics, 2016, 10, .	0.2	12
52	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
53	Education, structural change and economic development. Structural Change and Economic Dynamics, 2016, 38, 55-68.	2.1	38
54	Editorial: Foundations of economic change – behavior, interaction and aggregate outcomes. Journal of Evolutionary Economics, 2016, 26, 697-700.	0.8	1

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55	Upward and downward complementarity: the meso core of evolutionary growth theory. <i>Journal of Evolutionary Economics</i> , 2016, 26, 753-763.	0.8	15
56	Simulating demand-side effects on innovation. <i>International Journal of Computational Economics and Econometrics</i> , 2015, 5, 220.	0.1	3
57	TAKING THE FIRST STEP – WHAT DETERMINES GERMAN LASER SOURCE MANUFACTURERS ENTRY INTO INNOVATION NETWORKS?. <i>International Journal of Innovation Management</i> , 2015, 19, 1550050.	0.7	3
58	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
59	On the “How Many Europes” Debate: Varieties of Service Economies. <i>Tijdschrift Voor Economische En Sociale Geografie</i> , 2015, 106, 307-320.	1.2	1
60	Erich Schneider: The admiring disciple who did not become a follower. <i>Journal of Evolutionary Economics</i> , 2015, 25, 239-252.	0.8	5
61	A Generic Innovation Network Formation Strategy. <i>Economic Complexity and Evolution</i> , 2015, , 279-308.	0.1	3
62	Modelling Research Policy: Ex-Ante Evaluation of Complex Policy Instruments. <i>Jasss</i> , 2015, 18, .	1.0	16
63	Avoiding evolutionary inefficiencies in innovation networks. <i>Prometheus</i> , 2014, 32, .	0.2	16
64	Technological progress and effects of (Supra) regional innovation and production collaboration. An agent-based model simulation study. , 2014, , .		10
65	Against the one-way-street: analyzing knowledge transfer from industry to science. <i>Journal of Technology Transfer</i> , 2014, 39, 219-246.	2.5	7
66	Introduction: co-evolution and complex adaptive systems in evolutionary economics. <i>Journal of Evolutionary Economics</i> , 2014, 24, 205-207.	0.8	26
67	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
68	R&D and knowledge dynamics in university-industry relationships in biotech and pharmaceuticals: an agent-based model. <i>International Journal of Biotechnology</i> , 2014, 13, 137.	1.2	8
69	The Effects of Supraregional Innovation and Production Collaboration on Technology Development in a Multiregional World: A Spatial Agent-Based Model Study. <i>Lecture Notes in Computer Science</i> , 2014, , 698-707.	1.0	8
70	Testing Policy Options for Horizon 2020 with SKIN. <i>Understanding Complex Systems</i> , 2014, , 155-183.	0.3	3
71	Simulating Knowledge Dynamics in Innovation Networks: An Introduction. <i>Understanding Complex Systems</i> , 2014, , 1-13.	0.3	3
72	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

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73	The co-evolution of innovation, demand and growth. <i>Economics of Innovation and New Technology</i> , 2013, 22, 461-482.	2.1	41
74	A life cycle-based taxonomy of innovation networks – with a focus on public-private collaboration. , 2013, , .		11
75	Cutting Back Models and Simulations. <i>Intelligent Systems Reference Library</i> , 2013, , 141-156.	1.0	0
76	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
77	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
78	Innovation Networks. , 2012, , .		4
79	Simulating the Role of MNCs for Knowledge and Capital Dynamics in Networks of Innovation. , 2012, , .		0
80	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
81	Agency and structure: a social simulation of knowledge-intensive industries. <i>Computational and Mathematical Organization Theory</i> , 2011, 17, 59-76.	1.5	29
82	Generalized barriers to entry and economic development. <i>Journal of Evolutionary Economics</i> , 2011, 21, 29-52.	0.8	10
83	LEARNING-BY-MODELING: INSIGHTS FROM AN AGENT-BASED MODEL OF UNIVERSITY-INDUSTRY RELATIONSHIPS. <i>Cybernetics and Systems</i> , 2011, 42, 484-501.	1.6	10
84	Generalized Barriers to Entry and Economic Development. , 2011, , 59-80.		1
85	Economic Growth Through the Emergence of New Sectors. , 2011, , 55-101.		2
86	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
87	Applying Comprehensive Neo-Schumpeterian Economics to Latin American Economies. <i>Structural Change and Economic Dynamics</i> , 2010, 21, 70-83.	2.1	3
88	Innovation, qualitative change and economic development – Special issue in honour of Pier-Paolo Savioti. <i>Structural Change and Economic Dynamics</i> , 2010, 21, 1-4.	2.1	2
89	A NEO-SCHUMPETERIAN MODEL OF ENERGY MARKETS. <i>Cybernetics and Systems</i> , 2009, 40, 418-440.	1.6	1
90	Agent-Based Modelling of Innovation Networks – The Fairytale of Spillover. <i>Understanding Complex Systems</i> , 2009, , 101-126.	0.3	13

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91	Product variety, competition and economic growth. , 2009, , 71-95.		20
92	Introduction: Network Perspectives on Innovations: Innovative Networks â€œ Network Innovation. Understanding Complex Systems, 2009, , 1-16.	0.3	3
93	Micro and macro dynamics: Industry life cycles, inter-sector coordination and aggregate growth. Journal of Evolutionary Economics, 2008, 18, 167-182.	0.8	57
94	Product variety, competition and economic growth. Journal of Evolutionary Economics, 2008, 18, 323-347.	0.8	58
95	Why do firms cooperate for innovation? A comparison of Austrian and Finnish CIS3 results. International Journal of Foresight and Innovation Policy, 2008, 4, 200.	0.2	45
96	SIMULATING KNOWLEDGE-GENERATION AND DISTRIBUTION PROCESSES IN INNOVATION COLLABORATIONS AND NETWORKS. Cybernetics and Systems, 2007, 38, 667-693.	1.6	47
97	Learning in innovation networks: Some simulation experiments. Physica A: Statistical Mechanics and Its Applications, 2007, 378, 100-109.	1.2	66
98	Applying a Comprehensive Neo-Schumpeterian Approach to Europe and Its Lisbon Agenda. , 2007, , 275-299.		5
99	Agent-Based Modelling â€” A Methodology for the Analysis of Qualitative Development Processes. , 2006, , 17-35.		7
100	Mapping national innovation systems in the OECD area. International Journal of Technology and Globalisation, 2006, 2, 158.	0.1	30
101	The evolution of R&D networking in the biotech industries. International Journal of Entrepreneurship and Innovation Management, 2005, 5, 49.	0.1	29
102	Comment on: Innovations, Technological Specialization and Economic Convergence in the EU. , 2005, , 201-204.		0
103	The Twin Peaks in National Income: Parametric and Nonparametric Estimates. Revue Economique, 2004, 55, 1127.	0.1	0
104	Product innovation and population dynamics in the German insurance market. Zeitschrift Fur Die Gesamte Versicherungswissenschaft, 2004, 93, 477-519.	1.2	5
105	Economic development by the creation of new sectors. Journal of Evolutionary Economics, 2004, 14, 1-35.	0.8	186
106	Economic development, qualitative change and employment creation. Structural Change and Economic Dynamics, 2004, 15, 265-287.	2.1	45
107	SIMULATING KNOWLEDGE DYNAMICS IN INNOVATION NETWORKS (SKIN). , 2004, , .		28
108	An evolutionary approach to the theory of entrepreneurship. , 2004, , .		3

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109	Die Simulation von Lernen in Innovationsnetzwerken. , 2004, , 165-185.		1
110	The use of genetic programming in evolutionary economics. , 2004, , .		0
111	A Conceptual Framework to Model Long-run Qualitative Change in the Energy System. , 2004, , .		0
112	An Evolutionary Approach to the Theory of Entrepreneurship. Industry and Innovation, 2003, 10, 493-514.	1.7	65
113	The self-organisation of strategic alliances. Economics of Innovation and New Technology, 2003, 12, 245-268.	2.1	25
114	Twin Peaks: What the Knowledge-based Approach Can Say about the Dynamics of the World Income Distribution. , 2003, , .		0
115	Innovation networks in economics: from the incentive-based to the knowledge-based approaches. European Journal of Innovation Management, 2002, 5, 152-163.	2.4	145
116	Innovation and Sectoral Employment: A Trade-off between Compensation Mechanisms. Labour, 2002, 16, 635-665.	0.5	7
117	Classifying technology policy from an evolutionary perspective. Research Policy, 2001, 30, 759-775.	3.3	115
118	Informal networking and industrial life cycles. Technovation, 2000, 20, 25-35.	4.2	35
119	Technological evolution " an analysis within the knowledge-based approach. Structural Change and Economic Dynamics, 1998, 9, 85-107.	2.1	24
120	Informal networking. Technovation, 1997, 17, 207-224.	4.2	35
121	International Joseph A. Schumpeter Society. Journal of Evolutionary Economics, 1996, 6, 334-338.	0.8	0
122	Schumpeterian Competition and Industrial Dynamics. , 0, , 104-142.		7
123	Evolutionary Perspectives on Long Run Economic Development. , 0, , 143-171.		3
124	International Innovation Networks and Knowledge Migration. , 0, , .		4
125	Innovation and Finance. , 0, , .		1