

Silvano Cincotti

List of Publications by Year in descending order

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104
papers

2,243
citations

218381

26
h-index

264894

42
g-index

108
all docs

108
docs citations

108
times ranked

1400
citing authors

#	ARTICLE	IF	CITATIONS
1	Agent-based simulation of a financial market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 299, 319-327.	1.2	189
2	Credit Money and Macroeconomic Instability in the Agent-based Model and Simulator Eurace. <i>Economics</i> , 2010, 4, .	0.2	108
3	Hyperchaotic behaviour of two bi-directionally coupled Chua's circuits. <i>International Journal of Circuit Theory and Applications</i> , 2002, 30, 625-637.	1.3	103
4	A complex systems approach to constructing better models for managing financial markets and the economy. <i>European Physical Journal: Special Topics</i> , 2012, 214, 295-324.	1.2	101
5	Clustering of financial time series with application to index and enhanced index tracking portfolio. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 355, 145-151.	1.2	99
6	An Agent-based Stock-flow Consistent Model of the Sustainable Transition in the Energy Sector. <i>Ecological Economics</i> , 2018, 145, 274-300.	2.9	98
7	Self-assembled alkane monolayers on MoSe ₂ and MoS ₂ . <i>Applied Physics Letters</i> , 1993, 62, 3531-3533.	1.5	82
8	From financial instability to green finance: the role of banking and credit market regulation in the Eurace model. <i>Journal of Evolutionary Economics</i> , 2019, 29, 429-465.	0.8	73
9	Debt, Deleveraging and Business Cycles: An Agent-Based Perspective. <i>Economics</i> , 2012, 6, .	0.2	70
10	The role of crowdfunding in moving towards a sustainable society. <i>Technological Forecasting and Social Change</i> , 2019, 141, 66-73.	6.2	65
11	Traders' Long-Run Wealth in an Artificial Financial Market. <i>Computational Economics</i> , 2003, 22, 255-272.	1.5	58
12	The complexity of the intangible digital economy: an agent-based model. <i>Journal of Business Research</i> , 2021, 129, 527-540.	5.8	55
13	Modeling and forecasting of electricity spot-prices: Computational intelligence vs classical econometrics. <i>AI Communications</i> , 2014, 27, 301-314.	0.8	53
14	Learning of Chua's circuit attractors by locally recurrent neural networks. <i>Chaos, Solitons and Fractals</i> , 2001, 12, 2109-2115.	2.5	46
15	THE IMPACT OF BANKS' CAPITAL ADEQUACY REGULATION ON THE ECONOMIC SYSTEM: AN AGENT-BASED APPROACH. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2012, 15, 1250040.	0.9	45
16	Crowdfunding as a tool to support sustainability-oriented initiatives: Preliminary insights into the role of product/service attributes. <i>Business Strategy and the Environment</i> , 2020, 29, 530-546.	8.5	42
17	Integrating Real and Financial Markets in an Agent-Based Economic Model: An Application to Monetary Policy Design. <i>Computational Economics</i> , 2008, 32, 147-162.	1.5	37
18	Who wins? Study of long-run trader survival in an artificial stock market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 324, 227-233.	1.2	35

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19	Agent-based Modeling and Simulation of Competitive Wholesale Electricity Markets. Energy Systems, 2010, , 241-286.	0.5	35
20	Modeling and simulation of a double auction artificial financial market. Physica A: Statistical Mechanics and Its Applications, 2005, 355, 34-45.	1.2	31
21	Heterogeneous information-based artificial stock market. New Journal of Physics, 2010, 12, 053035.	1.2	30
22	Large-Scale Modeling of Economic Systems. Complex Systems, 2013, 22, 175-192.	0.9	30
23	A PWL ladder circuit which exhibits hysteresis. International Journal of Circuit Theory and Applications, 1994, 22, 513-526.	1.3	29
24	Modeling and implementation of an artificial electricity market using agent-based technology. Physica A: Statistical Mechanics and Its Applications, 2005, 355, 69-76.	1.2	29
25	Information-based multi-assets artificial stock market with heterogeneous agents. Nonlinear Analysis: Real World Applications, 2011, 12, 1235-1242.	0.9	29
26	A study of the effect of different catalysts for the efficient CVD growth of carbon nanotubes on silicon substrates. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 37, 6-10.	1.3	27
27	A multi-assets artificial stock market with zero-intelligence traders. Europhysics Letters, 2011, 93, 28002.	0.7	27
28	Housing Market Bubbles and Business Cycles in an Agent-Based Credit Economy. Economics, 2014, 8, .	0.2	27
29	Assessment of the Economic and Social Impact Using SROI: An Application to Sport Companies. Sustainability, 2019, 11, 3612.	1.6	26
30	Self-organization and market crashes. Journal of Economic Behavior and Organization, 2002, 49, 241-267.	1.0	22
31	Budgetary rigour with stimulus in lean times: Policy advices from an agent-based model. Journal of Economic Behavior and Organization, 2019, 157, 59-83.	1.0	22
32	The Genoa Artificial Power-Exchange. Communications in Computer and Information Science, 2013, , 348-363.	0.4	21
33	Calculation of monolayer structures of hydrocarbon chains on transition metal dichalcogenides: Dotriacontane onMoSe2. Physical Review E, 1995, 51, 2090-2098.	0.8	20
34	Statistical Analysis and Agent-Based Microstructure Modeling of High-Frequency Financial Trading. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 381-387.	7.3	19
35	An economic and financial exploratory. European Physical Journal: Special Topics, 2012, 214, 361-400.	1.2	18
36	Securitization and business cycle: an agent-based perspective. Industrial and Corporate Change, 2018, 27, 1091-1121.	1.7	18

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37	Traders's Networks of Interactions and Structural Properties of Financial Markets: An Agent-Based Approach. Complexity, 2018, 2018, 1-9.	0.9	18
38	Learning Agents in an Artificial Power Exchange: Tacit Collusion, Market Power and Efficiency of Two Double-auction Mechanisms. Computational Economics, 2008, 32, 73-98.	1.5	17
39	Debt Deleveraging and Business Cycles: An Agent-Based Perspective. SSRN Electronic Journal, 0, , .	0.4	17
40	Neural reconstruction of Lorenz attractors by an observable. Chaos, Solitons and Fractals, 2002, 14, 81-86.	2.5	16
41	Complex dynamical behaviours in two non-linearly coupled Chua's circuits. Chaos, Solitons and Fractals, 2004, 21, 633-641.	2.5	16
42	Static and dynamic factors in an information-based multi-asset artificial stock market. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 814-823.	1.2	16
43	A generalization of a piece-wise linear circuit model of hysteresis. IEEE Transactions on Magnetics, 2002, 38, 901-904.	1.2	15
44	Macroeconomic implications of mortgage loan requirements: an agent-based approach. Journal of Economic Interaction and Coordination, 2019, 14, 7-46.	0.4	15
45	Static and dynamic hysteretic features in a PWL circuit. International Journal of Circuit Theory and Applications, 1996, 24, 183-199.	1.3	14
46	Modeling non-stationarities in high-frequency financial time series. Physica A: Statistical Mechanics and Its Applications, 2019, 521, 173-196.	1.2	13
47	Dynamic properties of a piece-wise linear circuit model of hysteresis. IEEE Transactions on Magnetics, 2001, 37, 3320-3323.	1.2	12
48	Price Formation in an Artificial Market: Limit Order Book Versus Matching of Supply and Demand. Lecture Notes in Economics and Mathematical Systems, 2005, , 305-315.	0.3	12
49	An algebraic observability approach to chaos synchronization by sliding differentiators. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1000-1006.	0.1	11
50	Agent-based model of the Italian wholesale electricity market. , 2009, , .		11
51	A dynamic general disequilibrium model of a sequential monetary production economy. Chaos, Solitons and Fractals, 2006, 29, 566-577.	2.5	10
52	Balance Sheet Approach to Agent-Based Computational Economics: The EURACE Project. Advances in Intelligent and Soft Computing, 2010, , 603-610.	0.2	10
53	Why do we need agent-based macroeconomics?. Review of Evolutionary Political Economy, 2022, 3, 5-29.	0.8	10
54	Modelling of dipole monolayers as cellular arrays. Journal of Molecular Liquids, 1991, 50, 73-92.	2.3	8

#	ARTICLE	IF	CITATIONS
55	A PWL circuit approach to the definition of a $\hat{\mu}$ -approximation model of scalar static hysteresis. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1290-1308.	0.1	8
56	A chaotic modulation scheme based on algebraic observability and sliding mode differentiators. Chaos, Solitons and Fractals, 2005, 26, 363-377.	2.5	8
57	LEARNING OLIGOPOLISTIC COMPETITION IN ELECTRICITY AUCTIONS. Computational Intelligence, 2007, 23, 197-220.	2.1	8
58	Endogenous Credit Dynamics as Source of Business Cycles in the EURACE Model. Lecture Notes in Economics and Mathematical Systems, 2010, , 203-214.	0.3	8
59	Should I stay or should I go? An agent-based setup for a trading and monetary union. Journal of Economic Dynamics and Control, 2020, 113, 103866.	0.9	7
60	Prospect Theory Behavioral Assumptions in an Artificial Financial Economy. Lecture Notes in Economics and Mathematical Systems, 2008, , 55-66.	0.3	7
61	Explaining Equity Excess Return by Means of an Agent-Based Financial Market. Lecture Notes in Economics and Mathematical Systems, 2009, , 145-156.	0.3	7
62	A continuous model of the interactions among electric dipoles. Journal of Electrostatics, 1991, 26, 47-64.	1.0	6
63	New Advances in Financial Economics: Heterogeneity and Simulation. Computational Economics, 2008, 32, 1-2.	1.5	6
64	Approximation properties of a PWL circuit model of hysteresis. Physica B: Condensed Matter, 2000, 275, 216-222.	1.3	5
65	A Systematic Approach to Bi-Directionally Nonlinearly Coupled Systems Design for the Generation of Complex Dynamical Behaviours. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1340-1347.	0.1	5
66	A study of the transient current during the formation of titanium oxide nanodots by AFM anodic oxidation. Surface Science, 2007, 601, 4910-4914.	0.8	5
67	Surface organization of dipole monolayers. Journal of Molecular Liquids, 1992, 51, 89-113.	2.3	4
68	Hysteresis in electric dipole monolayers. Journal of Electrostatics, 1994, 32, 183-213.	1.0	4
69	Fraudulent Agents in an Artificial Financial Market. Lecture Notes in Economics and Mathematical Systems, 2005, , 317-326.	0.3	4
70	CVD synthesis of single wall carbon nanotubes devoted to ULSI electronic applications. Physica Status Solidi (B): Basic Research, 2006, 243, 3077-3081.	0.7	4
71	Patterning surface oxide nanostructures using atomic force microscope local anodic oxidation. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1941-1943.	1.3	4
72	Systemic financial risk indicators and securitised assets: an agent-based framework. Journal of Economic Interaction and Coordination, 2020, 15, 9-47.	0.4	4

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73	An artificial neural network position estimator for a variable reluctance linear actuator. , 0, , .		3
74	Higher order reversal hysteresis curves approximation by a piecewise linear circuit model of hysteresis. IEEE Transactions on Magnetics, 2003, 39, 1349-1352.	1.2	3
75	Supply-side gaming on electricity markets with physical constrained transmission network. , 2008, , .		3
76	Combining RMT-based filtering with time-stamped resampling for robust portfolio optimization. International Journal of Computational Intelligence Systems, 2015, 8, 874-885.	1.6	3
77	Towards an evolutionary political economy. Editorial to the inaugural issue of the Review of Evolutionary Political Economy REPE. Review of Evolutionary Political Economy, 2020, 1, 1-12.	0.8	3
78	Monetary Incentives in Italian Public Administration: A Stimulus for Employees? An Agent-Based Approach. Complexity, 2020, 2020, 1-13.	0.9	3
79	Do Capital Requirements Affect Long-Run Output Trends?. Lecture Notes in Economics and Mathematical Systems, 2011, , 41-52.	0.3	3
80	Price dynamics and market power in an agent-based power exchange. , 2005, , .		3
81	To copatent or not to copatent: An agent-based model for firms facing this dilemma. European Journal of Operational Research, 2023, 306, 1349-1363.	3.5	3
82	Dipole monolayer behaviour in the presence of electrodes. Journal of Electrostatics, 1996, 37, 95-120.	1.0	2
83	Chaos synchronization via sliding modes. AIP Conference Proceedings, 2001, , .	0.3	2
84	Poisson-process generalization for the trading waiting-time distribution in a double-auction mechanism. , 2005, 5848, 215.		2
85	A general equilibrium model of a production economy with asset markets. Physica A: Statistical Mechanics and Its Applications, 2006, 370, 75-80.	1.2	2
86	Atomic Force Microscope nanolithography on titanium: Influence of the anodic voltage waveform on the formation of oxide nanodots. Superlattices and Microstructures, 2008, 44, 670-676.	1.4	2
87	Agent-Based Model and Simulations of the Management of Ports: The Import Processes at the Port of Genoa. , 2018, , .		2
88	Facing the complexity of the economy: an opportunity for the new alliance between economics and engineering. Journal of Industrial and Business Economics, 2021, 48, 581-588.	0.8	2
89	Simulation of a molecular cellular array on a transputer-based parallel computer. Parallel Computing, 1992, 18, 313-324.	1.3	1
90	A RECEIVER DESIGN APPROACH TO GENERALIZED SYNCHRONIZATION ON A LINEAR MANIFOLD. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 2493-2502.	0.7	1

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91	Investigating Schottky Barriers Effects in Carbon Nanotube FETs. AIP Conference Proceedings, 2005, , .	0.3	1
92	Profit-based O&M strategies for wind power plants. , 2012, , .		1
93	Detrending Moving Average Algorithm: Quantifying Heterogeneity in Financial Data. , 2017, , .		1
94	Subprime Lending and Financial Inequality in an Agent-Based Model. Lecture Notes in Economics and Mathematical Systems, 2014, , 55-67.	0.3	1
95	Monetary Policy Experiments in an Artificial Multi-Market Economy with Reservation Wages. , 2007, , 33-44.		1
96	Power Plant Relocation Policy versus Investments in Transmission Network Infrastructure: A Study on the Italian Energy Market. Understanding Complex Systems, 2013, , 87-106.	0.3	1
97	Scanning tunneling microscopy imaging of organic layers on graphite. , 1992, , .		0
98	Characterization of a cellular array of dipoles for molecular information processing. AIP Conference Proceedings, 1992, , .	0.3	0
99	Modelling the influence of electrodes on a lipid monolayer. Sensors and Actuators B: Chemical, 1992, 7, 419-423.	4.0	0
100	2D Preisach-type hysteresis modeling of electrotechnical steel laminates. IEEE Transactions on Magnetics, 1998, 34, 3036-3039.	1.2	0
101	Learning agents in a monopolistic competition framework. , 2007, , .		0
102	Message from PDCoF-08 Workshop Chairs. , 2008, , .		0
103	Systemic Financial Risk Indicators and Securitised Assets: an Agent-Based Framework. SSRN Electronic Journal, 2018, , .	0.4	0
104	The Review of Evolutionary Political Economy inaugural issue, part 2. Review of Evolutionary Political Economy, 2020, 1, 145-148.	0.8	0