

# Stefano Battiston

## List of Publications by Year in descending order

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Version: 2024-02-01

115  
papers

7,416  
citations

87888

38  
h-index

69250

77  
g-index

123  
all docs

123  
docs citations

123  
times ranked

3365  
citing authors

#	ARTICLE	IF	CITATIONS
1	Collateral Unchained: Rehypothecation networks, concentration and systemic effects. Journal of Financial Stability, 2021, 52, 100811.	5.2	9
2	Accounting for finance is key for climate mitigation pathways. Science, 2021, 372, 918-920.	12.6	68
3	The physics of financial networks. Nature Reviews Physics, 2021, 3, 490-507.	26.6	89
4	Climate risk and financial stability in the network of banks and investment funds. Journal of Financial Stability, 2021, 54, 100870.	5.2	92
5	Climate risks and financial stability. Journal of Financial Stability, 2021, 54, 100867.	5.2	124
6	Interconnected banks and systemically important exposures. Journal of Economic Dynamics and Control, 2021, 133, 104266.	1.6	13
7	Default Ambiguity: Credit Default Swaps Create New Systemic Risks in Financial Networks. Management Science, 2020, 66, 1981-1998.	4.1	25
8	Portfolio diversification, differentiation and the robustness of holdings networks. Applied Network Science, 2020, 5, .	1.5	3
9	Financialization and unconventional monetary policy: a financial-network analysis. Journal of Evolutionary Economics, 2020, 30, 1385-1428.	1.7	5
10	Network valuation in financial systems. Mathematical Finance, 2020, 30, 1181-1204.	1.8	55
11	The Architecture of Power: Patterns of Disruption and Stability in the Global Ownership Network. SSRN Electronic Journal, 2019, , .	0.4	13
12	Systemic risk from investment similarities. PLoS ONE, 2019, 14, e0217141.	2.5	32
13	Financial Networks in the Brave New World. , 2019, , .		0
14	A Financial Macro-Network Approach to Climate Policy Evaluation. Ecological Economics, 2018, 149, 239-253.	5.7	88
15	Case study of Lykke exchange: architecture and outlook. Journal of Risk Finance, 2018, 19, 26-38.	5.6	7
16	Financial networks and stress testing: Challenges and new research avenues for systemic risk analysis and financial stability implications. Journal of Financial Stability, 2018, 35, 6-16.	5.2	76
17	Interconnectedness as a source of uncertainty in systemic risk. Journal of Financial Stability, 2018, 35, 93-106.	5.2	86
18	How does risk flow in the credit default swap market?. Journal of Financial Stability, 2018, 35, 53-74.	5.2	33

#	ARTICLE	IF	CITATIONS
19	Profiling the EU lobby organizations in Banking and Finance. <i>Applied Network Science</i> , 2018, 3, 44.	1.5	2
20	A multiplex financial network approach to policy evaluation: the case of euro area Quantitative Easing. <i>Applied Network Science</i> , 2018, 3, 49.	1.5	8
21	Some reflections on inflation targeting, monetary–fiscal policy interactions, and unconventional monetary policies. <i>European Journal of Economics and Economic Policies: Intervention</i> , 2018, 15, 132-138.	0.2	1
22	Climate-Finance and Climate Transition Risk: An Assessment of China's Overseas Energy Investments Portfolio. <i>SSRN Electronic Journal</i> , 2018, , .	0.4	2
23	Climate Transition Risk and Development Finance: A Carbon Risk Assessment of China's Overseas Energy Portfolios. <i>China and World Economy</i> , 2018, 26, 116-142.	2.1	44
24	Price and network dynamics in the European carbon market. <i>Journal of Economic Behavior and Organization</i> , 2018, 153, 103-122.	2.0	25
25	14. The Economics of Information and Financial Networks. , 2018, , 277-306.		1
26	Pathways towards instability in financial networks. <i>Nature Communications</i> , 2017, 8, 14416.	12.8	172
27	Portfolio diversification and systemic risk in interbank networks. <i>Journal of Economic Dynamics and Control</i> , 2017, 82, 96-124.	1.6	26
28	A climate stress-test of the financial system. <i>Nature Climate Change</i> , 2017, 7, 283-288.	18.8	488
29	Vulnerable yet relevant: the two dimensions of climate-related financial disclosure. <i>Climatic Change</i> , 2017, 145, 495-507.	3.6	81
30	Default Ambiguity: Credit Default Swaps Create New Systemic Risks in Financial Networks. <i>SSRN Electronic Journal</i> , 2017, , .	0.4	3
31	Interconnectedness as a Source of Uncertainty in Systemic Risk. <i>SSRN Electronic Journal</i> , 2016, , .	0.4	5
32	A Climate Stress-Test of the Financial System. <i>SSRN Electronic Journal</i> , 2016, , .	0.4	9
33	Market procyclicality and systemic risk. <i>Quantitative Finance</i> , 2016, 16, 1219-1235.	1.7	22
34	Leveraging the network: A stress-test framework based on DebtRank. <i>Statistics and Risk Modeling</i> , 2016, 33, 117-138.	1.0	61
35	DebtRank and the Network of Leverage. <i>Journal of Private Equity</i> , 2016, 20, 58-71.	0.3	5
36	DebtRank and the Network of Leverage. <i>Journal of Alternative Investments</i> , 2016, 18, 68-81.	0.5	12

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37	Financial complexity: Accounting for fraudâ€™Response. Science, 2016, 352, 302-302.	12.6	3
38	Clearing Payments in Financial Networks with Credit Default Swaps [Extended Abstract]. , 2016, , .		11
39	The price of complexity in financial networks. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10031-10036.	7.1	141
40	Complexity theory and financial regulation. Science, 2016, 351, 818-819.	12.6	361
41	Financial fragility and distress propagation in a network of regions. Journal of Economic Dynamics and Control, 2016, 62, 56-75.	1.6	11
42	The Financial System as a Nexus of Interconnected Networks. Understanding Complex Systems, 2016, , 195-229.	0.6	8
43	The Multiplex Network of EU Lobby Organizations. PLoS ONE, 2016, 11, e0158062.	2.5	8
44	A Network-Based Analysis of the European Emission Market. Springer Proceedings in Complexity, 2016, , 283-295.	0.3	0
45	Sentiment leaning of influential communities in social networks. Computational Social Networks, 2015, 2, .	2.1	27
46	The Multiplex Network of EU Lobby Organizations. SSRN Electronic Journal, 2015, , .	0.4	0
47	DebtRank: A Microscopic Foundation for Shock Propagation. PLoS ONE, 2015, 10, e0130406.	2.5	97
48	Community Sentiment on Environmental Topics in Social Networks. , 2014, , .		3
49	Credit Default Swaps networks and systemic risk. Scientific Reports, 2014, 4, 6822.	3.3	37
50	Financial Networks. Understanding Complex Systems, 2014, , 311-321.	0.6	1
51	The Community Structure of the Global Corporate Network. PLoS ONE, 2014, 9, e104655.	2.5	52
52	Bootstrapping Topological Properties and Systemic Risk of Complex Networks Using the Fitness Model. Journal of Statistical Physics, 2013, 151, 720-734.	1.2	73
53	Complex derivatives. Nature Physics, 2013, 9, 123-125.	16.7	39
54	The power to control. Nature Physics, 2013, 9, 126-128.	16.7	47

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55	Default Cascades in Complex Networks: Topology and Systemic Risk. Scientific Reports, 2013, 3, 2759.	3.3	126
56	Evolution of Controllability in Interbank Networks. Scientific Reports, 2013, 3, 1626.	3.3	68
57	Credit Default Swaps Drawup Networks: Too Interconnected to Be Stable?. PLoS ONE, 2013, 8, e61815.	2.5	22
58	DebtRank: Too Central to Fail? Financial Networks, the FED and Systemic Risk. Scientific Reports, 2012, 2, 541.	3.3	582
59	Moving recommender systems from on-line commerce to retail stores. Information Systems and E-Business Management, 2012, 10, 367-393.	3.7	32
60	Liaisons dangereuses: Increasing connectivity, risk sharing, and systemic risk. Journal of Economic Dynamics and Control, 2012, 36, 1121-1141.	1.6	488
61	Default cascades: When does risk diversification increase stability?. Journal of Financial Stability, 2012, 8, 138-149.	5.2	214
62	The efficiency and stability of R&D networks. Games and Economic Behavior, 2012, 75, 694-713.	0.8	86
63	An economic and financial exploratory. European Physical Journal: Special Topics, 2012, 214, 361-400.	2.6	18
64	Web Search Queries Can Predict Stock Market Volumes. PLoS ONE, 2012, 7, e40014.	2.5	170
65	Market Procyclicity and Systemic Risk. SSRN Electronic Journal, 2012, , .	0.4	13
66	Credit Default Swaps Drawup Networks: Too Tied to Be Stable?. SSRN Electronic Journal, 2012, , .	0.4	6
67	Recombinant knowledge and the evolution of innovation networks. Journal of Economic Behavior and Organization, 2011, 79, 145-164.	2.0	56
68	Geography versus topology in the European Ownership Network. New Journal of Physics, 2011, 13, 063021.	2.9	22
69	The Network of Global Corporate Control. PLoS ONE, 2011, 6, e25995.	2.5	544
70	The financial accelerator in an evolving credit network. Journal of Economic Dynamics and Control, 2010, 34, 1627-1650.	1.6	234
71	The Structure of Financial Networks. , 2010, , 131-163.		34
72	Backbone of complex networks of corporations: The flow of control. Physical Review E, 2009, 80, 036104.	2.1	105

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73	Personalised and dynamic trust in social networks. , 2009, , .		59
74	Risk, Markets, Games, and Networks. European Physical Journal B, 2009, 71, 439-440.	1.5	0
75	Systemic risk in a unifying framework for cascading processes on networks. European Physical Journal B, 2009, 71, 441-460.	1.5	148
76	From Graph Theory to Models of Economic Networks. A Tutorial. Lecture Notes in Economics and Mathematical Systems, 2009, , 23-63.	0.3	9
77	Modeling Evolving Innovation Networks. Understanding Complex Systems, 2009, , 187-267.	0.6	13
78	A model of a trust-based recommendation system on a social network. Autonomous Agents and Multi-Agent Systems, 2008, 16, 57-74.	2.1	303
79	Trade Credit Networks and Systemic Risk. , 2008, , 219-239.		3
80	Coping with Information Overload through Trust-Based Networks. Understanding Complex Systems, 2008, , 273-300.	0.6	7
81	Systemic risk in a network fragility model analyzed with probability density evolution of persistent random walks. Networks and Heterogeneous Media, 2008, 3, 185-200.	1.1	20
82	On algebraic graph theory and the dynamics of innovation networks. Networks and Heterogeneous Media, 2008, 3, 201-219.	1.1	29
83	THE NETWORK OF INTER-REGIONAL DIRECT INVESTMENT STOCKS ACROSS EUROPE. International Journal of Modeling, Simulation, and Scientific Computing, 2007, 10, 29-51.	1.4	36
84	From production networks to geographical economics. Journal of Economic Behavior and Organization, 2007, 64, 448-469.	2.0	52
85	Credit chains and bankruptcy propagation in production networks. Journal of Economic Dynamics and Control, 2007, 31, 2061-2084.	1.6	265
86	Emergence and Evolution of Coalitions in Buyer-Seller Networks. Studies in Computational Intelligence, 2007, , 245-258.	0.9	1
87	The skeleton of the Shareholders Networks. , 2006, , 297-301.		2
88	The scale-free topology of market investments. Physica A: Statistical Mechanics and Its Applications, 2005, 350, 491-499.	2.6	169
89	Statistical properties of corporate board and director networks. European Physical Journal B, 2004, 38, 345-352.	1.5	143
90	Inner structure of capital control networks. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 107-112.	2.6	26

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91	Decision making dynamics in corporate boards. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 322, 567-582.	2.6	67
92	DECISION SPREAD IN THE CORPORATE BOARD NETWORK. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2003, 06, 631-644.	1.4	22
93	Integration of Multiple-whisker Inputs in Rat Somatosensory Cortex. <i>Cerebral Cortex</i> , 2001, 11, 164-170.	2.9	64
94	Statistical independence and neural computation in the leech ganglion. <i>Biological Cybernetics</i> , 2000, 83, 119-130.	1.3	11
95	Examination of the spatial and temporal distribution of sensory cortical activity using a 100-electrode array. <i>Journal of Neuroscience Methods</i> , 1999, 90, 57-66.	2.5	41
96	Emergence of Complexity in Financial Networks. <i>Lecture Notes in Physics</i> , 0, , 399-423.	0.7	40
97	Financial Fragility and Distress Propagation in a Network of Regions. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
98	The Price of Complexity in Financial Networks. <i>SSRN Electronic Journal</i> , 0, , .	0.4	7
99	Leveraging the Network: A Stress-Test Framework Based on DebtRank. <i>SSRN Electronic Journal</i> , 0, , .	0.4	16
100	Rethinking Financial Contagion. <i>SSRN Electronic Journal</i> , 0, , .	0.4	9
101	Network Valuation in Financial Systems. <i>SSRN Electronic Journal</i> , 0, , .	0.4	33
102	A Financial Macro-Network Approach to Climate Policy Evaluation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
103	How Does Risk Flow in the Credit Default Swap Market?. <i>SSRN Electronic Journal</i> , 0, , .	0.4	6
104	Collateral Unchained: Rehypothecation Networks, Concentration and Systemic Effects. <i>SSRN Electronic Journal</i> , 0, , .	0.4	4
105	The Climate Target Gap Is Widening. Can We Close It by Including Climate Finance in SSPs?. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
106	A Climate Risk Assessment of Sovereign Bonds' Portfolio. <i>SSRN Electronic Journal</i> , 0, , .	0.4	11
107	Climate Risk and Financial Stability in the Network of Banks and Investment Funds. <i>SSRN Electronic Journal</i> , 0, , .	0.4	11
108	Reducing Climate Transition Risk in Central Banks' Asset Purchasing Programs. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

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109	The Community Structure of the Global Corporate Network. SSRN Electronic Journal, 0, , .	0.4	5
110	A Climate Risk Assessment of Sovereign Bondsâ€™ Portfolio. SSRN Electronic Journal, 0, , .	0.4	10
111	CLIMAFIN Handbook: Pricing Forward-Looking Climate Risks Under Uncertainty. SSRN Electronic Journal, 0, , .	0.4	11
112	On the Dependence of Investorâ€™s Probability of Default on Climate Transition Scenarios. SSRN Electronic Journal, 0, , .	0.4	6
113	Social Intelligence Networks. A Novel Framework for On-Line Social Platforms.. SSRN Electronic Journal, 0, , .	0.4	1
114	Reshaping the Financial Network: Externalities and Redistribution Effects in Central Clearing. SSRN Electronic Journal, 0, , .	0.4	1
115	Climate Mitigation Pathways Need To Account for the Ambivalent Role of Finance. SSRN Electronic Journal, 0, , .	0.4	0