Serge Galam

List of Publications by Year
in descending order

125 papers	5,054 citations	117625 34 h-index	91884 69 g-index
141 all docs	141 docs citations	141 times ranked	1811 citing authors

#	Article	IF	Citations
1	SOCIOPHYSICS: A REVIEW OF GALAM MODELS. International Journal of Modern Physics C, 2008, 19, 409-440.	1.7	409
2	Sociophysics: A new approach of sociological collective behaviour. I. meanâ€behaviour description of a strike. Journal of Mathematical Sociology, 1982, 9, 1-13.	1.2	332
3	Towards a theory of collective phenomena: Consensus and attitude changes in groups. European Journal of Social Psychology, 1991, 21, 49-74.	2.4	305
4	Sociophysics. Understanding Complex Systems, 2012, , .	0.6	260
5	Contrarian deterministic effects on opinion dynamics: â€œthe hung elections scenarioâ€• Physica A: Statistical Mechanics and Its Applications, 2004, 333, 453-460.	2.6	257
6	The role of inflexible minorities in the breaking of democratic opinion dynamics. Physica A: Statistical Mechanics and Its Applications, 2007, 381, 366-376.	2.6	235
7	Rational group decision making: A random field Ising model at T = 0. Physica A: Statistical Mechanics and Its Applications, 1997, 238, 66-80.	2.6	226
8	Majority rule, hierarchical structures, and democratic totalitarianism: A statistical approach. Journal of Mathematical Psychology, 1986, 30, 426-434.	1.8	192
9	Statistical mechanics of dense ionized matter. VI. Electron screening corrections to the thermodynamic properties of the one-component plasma. Physical Review A, 1976, 14, 816-832.	2.5	190
10	Modelling rumors: the no plane Pentagon French hoax case. Physica A: Statistical Mechanics and Its Applications, 2003, 320, 571-580.	2.6	165
11	Social paradoxes of majority rule voting and renormalization group. Journal of Statistical Physics, 1990, 61, 943-951.	1.2	148
12	Application of statistical physics to politics. Physica A: Statistical Mechanics and Its Applications, 1999, 274, 132-139.	2.6	135
13	Sociophysics: a personal testimony. Physica A: Statistical Mechanics and Its Applications, 2004, 336, 49-55.	2.6	129
14	Local dynamics vs. social mechanisms: A unifying frame. Europhysics Letters, 2005, 70, 705-711.	2.0	128
15	Heterogeneous beliefs, segregation, and extremism in the making of public opinions. Physical Review E, 2005, 71, 046123.	2.1	127
16	Universal formulas for percolation thresholds. Physical Review E, 1996, 53, 2177-2181.	2.1	110
17	Real space renormalization group and totalitarian paradox of majority rule voting. Physica A: Statistical Mechanics and Its Applications, 2000, 285, 66-76.	2.6	88
18	Building up of individual inflexibility in opinion dynamics. Physical Review E, 2013, 87, 042807.	2.1	75

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19	From individual choice to group decision-making. Physica A: Statistical Mechanics and Its Applications, 2000, 287, 644-659.	2.6	71
20	Fragmentation versus stability in bimodal coalitions. Physica A: Statistical Mechanics and Its Applications, 1996, 230, 174-188.	2.6	68
21	Square-lattice site percolation at increasing ranges of neighbor bonds. Physical Review E, 2005, 71, 016125.	2.1	65
22	Chaotic, staggered, and polarized dynamics in opinion forming: The contrarian effect. Physical Review E, 2006, 73, 066118.	2.1	56
23	From 2000 Bushâ€“Gore to 2006 Italian elections: voting at fifty-fifty and the contrarian effect. Quality and Quantity, 2007, 41, 579-589.	3.7	49
24	Ising model versus normal form game. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 481-489.	2.6	46
25	Tailor based allocations for multiple authorship: a fractional gh-index. Scientometrics, 2011, 89, 365-379.	3.0	46
26	Modeling Radicalization Phenomena in Heterogeneous Populations. PLoS ONE, 2016, 11, e0155407.	2.5	46
27	The dynamics of minority opinions in democratic debate. Physica A: Statistical Mechanics and Its Applications, 2004, 336, 56-62.	2.6	45
28	Random-field distributions and tricritical points. Physical Review B, 1983, 28, 5322-5322.	3.2	42
29	Public debates driven by incomplete scientific data: The cases of evolution theory, global warming and H1N1 pandemic influenza. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 3619-3631.	2.6	42
30	The Drastic Outcomes from Voting Alliances in Three-Party Democratic Voting (1990 â†' 2013). Journal of Statistical Physics, 2013, 151, 46-68.	1.2	42
31	The Trump phenomenon: An explanation from sociophysics. International Journal of Modern Physics B, 2017, 31, 1742015.	2.0	40
32	On reducing terrorism power: a hint from physics. Physica A: Statistical Mechanics and Its Applications, 2003, 323, 695-704.	2.6	36
33	Collective beliefs versus individual inflexibility: The unavoidable biases of a public debate. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 3036-3054.	2.6	35
34	Universal formulas for percolation thresholds. II. Extension to anisotropic and aperiodic lattices. Physical Review E, 1997, 56, 322-325.	2.1	34
35	Global physics: from percolation to terrorism, guerilla warfare and clandestine activities. Physica A: Statistical Mechanics and Its Applications, 2003, 330, 139-149.	2.6	32
36	Formation of share market prices under heterogeneous beliefs and common knowledge. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 5532-5545.	2.6	32

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37	Metamagnets in uniform and random fields. Physical Review B, 1998, 57, 8370-8374.	3.2	27
38	From public outrage to the burst of public violence: An epidemic-like model. Physica A: Statistical Mechanics and Its Applications, 2014, 416, 620-630.	2.6	27
39	Site dilution, random site exchange, and random-field distribution. Physical Review B, 1985, 31, 7274-7275.	3.2	24
40	POLITICAL PARADOXES OF MAJORITY RULE VOTING AND HIERARCHICAL SYSTEMS. International Journal of General Systems, 1991, 18, 191-200.	2.5	24
41	Towards a theory of collective phenomena. II: Conformity and power. European Journal of Social Psychology, 1994, 24, 481-495.	2.4	24
42	Site percolation thresholds in all dimensions. Physica A: Statistical Mechanics and Its Applications, 1994, 205, 502-510.	2.6	24
43	Towards a theory of collective phenomena. III: Conflicts and forms of power. European Journal of Social Psychology, 1995, 25, 217-229.	2.4	24
44	Modeling the Forming of Public Opinion: An approach from Sociophysics. Global Economics and Management Review, 2013, 18, 2-11.	0.4	23
45	Killer geometries in competing species dynamics. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 256-263.	2.6	22
46	Stubbornness as an unfortunate key to win a public debate: an illustration from sociophysics. Mind and Society, 2016, 15, 117-130.	1.3	20
47	Fashion, novelty and optimality: an application from Physics. Physica A: Statistical Mechanics and Its Applications, 2005, 351, 605-619.	2.6	19
48	Rumor spreading: A trigger for proliferation or fading away. Chaos, 2020, 30, 073122.	2.5	18
49	WORD-OF-MOUTH VERSUS EXPERTS AND REPUTATION IN THE INDIVIDUAL DYNAMICS OF WINE PURCHASING. International Journal of Modeling, Simulation, and Scientific Computing, 2011, 14, 871-885.	1.4	17
50	Analytical expression for the exit probability of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>q</mml:mi></mml:math>-voter model in one dimension. Physical Review E, 2015, 92, 012807.	2.1	17
51	Plastic crystals, melting, and random fields. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 122, 271-274.	2.1	15
52	Cancerous tumor:â€,â€,The high frequency of a rare event. Physical Review E, 2001, 63, 051907.	2.1	14
53	Two-dimensional Ising transition through a technique from two-state opinion-dynamics models. Physical Review E, 2015, 91, 012108.	2.1	14
54	Tipping Points in Opinion Dynamics: A Universal Formula in Five Dimensions. Frontiers in Physics, 2020, 8, .	2.1	14

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55	A new scheme to percolation thresholds. Journal of Applied Physics, 1994, 75, 5526-5528.	2.5	13
56	Dynamical Galam model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1509-1515.	2.1	13
57	Comment on â€˜A Landscape Theory of Aggregationâ€™. British Journal of Political Science, 1998, 28, 411-412.	3.1	13
58	New Spontaneous Symmetry Breaking for the CubicXYModel. Physical Review Letters, 1983, 51, 1066-1068.	7.8	12
59	Geometric vulnerability of democratic institutions against lobbying: A sociophysics approach. Mathematical Models and Methods in Applied Sciences, 2017, 27, 13-44.	3.3	12
60	Multicritical properties of uniaxial Heisenberg antiferromagnets. Physical Review B, 1986, 34, 6428-6436.	3.2	11
61	Reply to ``Comment on `Universal formulas for percolation thresholds't''. Physical Review E, 1997, 55, 1230-1231.	2.1	11
62	Restoring site percolation on damaged square lattices. Physical Review E, 2005, 72, 027103.	2.1	11
63	Activeness as a key to counter democratic balance. Physica A: Statistical Mechanics and Its Applications, 2015, 432, 187-196.	2.6	11
64	The invisible hand and the rational agent are behind bubbles and crashes. Chaos, Solitons and Fractals, 2016, 88, 209-217.	5.1	10
65	COEXISTENCE OF OPPOSITE GLOBAL SOCIAL FEELINGS: THE CASE OF PERCOLATION DRIVEN INSECURITY. International Journal of Modern Physics C, 2002, 13, 1375-1385.	1.7	9
66	Generic symmetry breaking and the Landau expansion. Physics Letters, Section A: General, Atomic and Solid State Physics, 1982, 93, 83-85.	2.1	8
67	Rule for truncating Landau expansions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 98, 125-126.	2.1	8
68	Irrelevant variables, Landau expansions, and cubic anisotropy. Physical Review B, 1985, 31, 1554-1558.	3.2	8
69	Dilution, random fields, and tricritical point. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 121, 459-460.	2.1	8
70	A quasi-exact formula for Ising critical temperatures on hypercubic lattices. Physica A: Statistical Mechanics and Its Applications, 1997, 235, 573-576.	2.6	8
71	RIPPLES VERSUS GIANT DUNES IN A SALTATION-AVALANCHE MODEL. International Journal of Modern Physics C, 1999, 10, 1071-1076.	1.7	8
72	Democratic Voting in Hierarchical Structures or How to Build a Dictatorship. International Journal of Modeling, Simulation, and Scientific Computing, 2000, 03, 171-180.	1.4	8

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73	Asymmetric Contrarians in Opinion Dynamics. Entropy, 2020, 22, 25.	2.2	8
74	Antiferromagnets in a field and ferromagnets in a random field. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 100, 105-107.	2.1	7
75	Static strains and ferroelastic domains in orientational glasses. Journal of Applied Physics, 1990, 67, 5979-5980.	2.5	7
76	Self-consistency and symmetry inddimensions. Physical Review B, 1996, 54, 15991-15996.	3.2	7
77	Rational instability in the natural coalition forming. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 6025-6040.	2.6	7
78	Global alliances effect in coalition forming. European Physical Journal B, 2014, 87, 1.	1.5	7
79	Unavowed Abstention Can Overturn Poll Predictions. Frontiers in Physics, 2018, 6, .	2.1	7
80	Will Trump win again in the 2020 election? An answer from a sociophysics model. Physica A: Statistical Mechanics and Its Applications, 2021, 570, 125835.	2.6	6
81	Physicists are â€œfrustratedâ€• Physics Today, 1982, 35, 89-91.	0.3	5
82	Reorientations, freezing, and plastic phase. Journal of Applied Physics, 1988, 63, 3760-3761.	2.5	5
83	Spontaneous Coalition Forming. Why Some Are Stable?. Lecture Notes in Computer Science, 2002, , 1-9.	1.3	5
84	Modeling a controversy in the press: The case of abnormal bee deaths. Physica A: Statistical Mechanics and Its Applications, 2014, 402, 93-103.	2.6	5
85	Radicalism: The asymmetric stances of radicals versus conventionals. Physical Review E, 2022, 105, 044112.	2.1	5
86	Should God save the Queen?. Physics Today, 1983, 36, 110-110.	0.3	4
87	Images, Landau expansions, and symmetry changes. Physical Review B, 1986, 34, 7813-7815.	3.2	4
88	Tricritical point in dilute Ising antiferromagnets in magnetic field. Journal of Applied Physics, 1988, 63, 3758-3759.	2.5	4
89	Orientational glasses. I. A random compressible model for KCN-KBr. Journal De Physique, I, 1991, 1, 1195-1208.	1.2	4
90	Logarithmic relaxations in a random-field lattice gas subject to gravity. Physical Review E, 1999, 59, 3858-3863.	2.1	4

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91	Emergence of Cooperation in the Prisonerâ€™s Dilemma Driven by Conformity. Lecture Notes in Computer Science, 2015, , 155-163.	1.3	4
92	Crediting multi-authored papers to single authors. Physica A: Statistical Mechanics and Its Applications, 2020, 554, 124652.	2.6	4
93	Multicritical behavior, irrelevant variables, and Landau theory. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 133, 245-248.	2.1	3
94	Compressible spin models for plastic crystals. Physical Review B, 1990, 42, 6720-6722.	3.2	3
95	Continuous versus first order transitions in compressible diluted magnets. Physica A: Statistical Mechanics and Its Applications, 1996, 224, 669-676.	2.6	3
96	The Modeling of Opinion Dynamics. Understanding Complex Systems, 2012, , 169-202.	0.6	3
97	Communication impacting financial markets. Europhysics Letters, 2014, 108, 28007.	2.0	3
98	Conspiratorial Beliefs Observed through Entropy Principles. Entropy, 2015, 17, 5611-5634.	2.2	3
99	Emergence of Extreme Opinions in Social Networks. Lecture Notes in Computer Science, 2015, , 112-117.	1.3	3
100	Orientational glasses. II. Calculation of critical thresholds in ACNxMn1-x mixtures. Journal De Physique, I, 1992, 2, 1899-1906.	1.2	3
101	Deviations from the majority: A local flip model. Chaos, Solitons and Fractals, 2022, 159, 112130.	5.1	3
102	Reorientations and random fields in plastic crystals. Phase Transitions, 1989, 14, 97-101.	1.3	2
103	From Galamâ€“Mauger law to a powerful mean field scheme. Journal of Applied Physics, 2000, 87, 7040-7042.	2.5	2
104	The Question: Do Humans Behave like Atoms?. Understanding Complex Systems, 2012, , 21-39.	0.6	2
105	Dictatorship Paradoxes of Democratic Voting in Hierarchical Structures. Understanding Complex Systems, 2012, , 297-376.	0.6	2
106	Testing validity of the Kirkwood approximation using an extended Sznajd model. Physical Review E, 2015, 92, 062826.	2.1	2
107	Communication Impacting Financial Markets. SSRN Electronic Journal, 0, , .	0.4	2
108	After 2018 Bolsonaro victory, is a 2022 remake feasible?. Physica A: Statistical Mechanics and Its Applications, 2022, 600, 127598.	2.6	2

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109	Impact of referees' reports. Physics Today, 1984, 37, 11-11.	0.3	1
110	STAGGERED SYMMETRY AND SINGLE AVERAGE MAGNETIZATION IN DILUTE SYSTEMS. Modern Physics Letters B, 1987, 01, 217-220.	1.9	1
111	What High Tc Means to Me. Physics Today, 1988, 41, 13-15.	0.3	1
112	HOW TO BECOME A DICTATOR: A SIMPLE MODEL FROM PHYSICS. Fractals, 2003, 11, 243-249.	3.7	1
113	Dictatorship effect of majority rule in voting in hierarchical systems. , 0, , 140-150.		1
114	On the exit probability of the extended Sznajd model and the Kirkwood approximation. Journal of Physics: Conference Series, 2015, 633, 012111.	0.4	1
115	Combining Text-mining Analysis and Agent-based Modeling Methods - A Case Study to Address a Controversy. BMS Bulletin of Sociological Methodology/ Bulletin De Methodologie Sociologique, 2015, 126, 84-98.	0.8	1
116	The Invisible Hand and the Rational Agent are Behind Bubbles and Crashes. SSRN Electronic Journal, 0, , .	0.4	1
117	Threshold Phenomena versus Killer Clusters in Bimodal Competion for Standards. , 2004, , 429-441.		1
118	What Does Financial Market Do? The Formation of Share Market Prices Under Heterogeneous Beliefs and Common Knowledge. SSRN Electronic Journal, 0, , .	0.4	1
119	Renormalizing time in critical phenomena. Journal of Non-Crystalline Solids, 1994, 172-174, 408-411.	3.1	0
120	Steric hindrance and percolation in orientational glasses. Journal of Non-Crystalline Solids, 1994, 172-174, 453-456.	3.1	0
121	A geometrical model for mixed cyanide crystals. Journal of Non-Crystalline Solids, 1998, 235-237, 570-575.	3.1	0
122	A New Conjecture Extends the GM Law for Percolation Thresholds to Dynamical Situations. International Journal of Modern Physics C, 1998, 09, 667-671.	1.7	0
123	A 1D Ising model for ripple formation. Journal of Physics A, 2000, 33, 4955-4962.	1.6	0
124	A Renormalization Group Like Model for a Democratic Dictatorship. , 2015, , 193-213.		0
125	Is It Necessary to Lie to Win a Controversial Public Debate? An Answer from Sociophysics. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 37-45.	0.2	0