

Andrea Gabrielli

List of Publications by Year in descending order

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117
papers

3,552
citations

147801

31
h-index

155660

55
g-index

121
all docs

121
docs citations

121
times ranked

2471
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Metrics for Countries' Fitness and Products' Complexity. Scientific Reports, 2012, 2, 723.	3.3	333
2	The statistical physics of real-world networks. Nature Reviews Physics, 2019, 1, 58-71.	26.6	230
3	Measuring the Intangibles: A Metrics for the Economic Complexity of Countries and Products. PLoS ONE, 2013, 8, e70726.	2.5	199
4	A Network Analysis of Countries'™ Export Flows: Firm Grounds for the Building Blocks of the Economy. PLoS ONE, 2012, 7, e47278.	2.5	132
5	Economic complexity: Conceptual grounding of a new metrics for global competitiveness. Journal of Economic Dynamics and Control, 2013, 37, 1683-1691.	1.6	127
6	Randomizing bipartite networks: the case of the World Trade Web. Scientific Reports, 2015, 5, 10595.	3.3	112
7	Systemic Risk Analysis on Reconstructed Economic and Financial Networks. Scientific Reports, 2015, 5, 15758.	3.3	109
8	Glass-like universe: Real-space correlation properties of standard cosmological models. Physical Review D, 2002, 65, .	4.7	107
9	Non-Gaussian diffusion imaging: a brief practical review. Magnetic Resonance Imaging, 2011, 29, 1410-1416.	1.8	85
10	The Scientific Competitiveness of Nations. PLoS ONE, 2014, 9, e113470.	2.5	79
11	Inferring monopartite projections of bipartite networks: an entropy-based approach. New Journal of Physics, 2017, 19, 053022.	2.9	76
12	Bootstrapping Topological Properties and Systemic Risk of Complex Networks Using the Fitness Model. Journal of Statistical Physics, 2013, 151, 720-734.	1.2	73
13	Detecting early signs of the 2007-2008 crisis in the world trade. Scientific Reports, 2016, 6, 30286.	3.3	72
14	Reconstructing a credit network. Nature Physics, 2013, 9, 125-126.	16.7	69
15	Reconstruction methods for networks: The case of economic and financial systems. Physics Reports, 2018, 757, 1-47.	25.6	66
16	Disordered one-dimensional contact process. Physical Review E, 1998, 57, 5060-5068.	2.1	59
17	Self-Stabilized Fractality of Seacoasts through Damped Erosion. Physical Review Letters, 2004, 93, 098501.	7.8	52
18	Unfolding the innovation system for the development of countries: coevolution of Science, Technology and Production. Scientific Reports, 2019, 9, 16440.	3.3	50

#	ARTICLE	IF	CITATIONS
19	Spatio-temporal anomalous diffusion in heterogeneous media by nuclear magnetic resonance. Journal of Chemical Physics, 2011, 135, 034504.	3.0	47
20	Percolation in real wildfires. Europhysics Letters, 2001, 56, 510-516.	2.0	46
21	Generation of primordial cosmological perturbations from statistical mechanical models. Physical Review D, 2003, 67, .	4.7	44
22	Quasistationary States and the Range of Pair Interactions. Physical Review Letters, 2010, 105, 210602.	7.8	43
23	Anisotropic anomalous diffusion assessed in the human brain by scalar invariant indices. Magnetic Resonance in Medicine, 2011, 65, 1043-1052.	3.0	43
24	Basic properties of galaxy clustering in the light of recent results from the Sloan Digital Sky Survey. Astronomy and Astrophysics, 2005, 443, 11-16.	5.1	42
25	Estimating topological properties of weighted networks from limited information. Physical Review E, 2015, 92, 040802.	2.1	42
26	Linear perturbative theory of the discrete cosmological N-body problem. Physical Review D, 2006, 73, .	4.7	41
27	Structural disorder and anomalous diffusion in random packing of spheres. Scientific Reports, 2013, 3, 2631.	3.3	41
28	Topologically biased random walk and community finding in networks. Physical Review E, 2010, 82, 066109.	2.1	40
29	Point processes and stochastic displacement fields. Physical Review E, 2004, 70, 066131.	2.1	39
30	Invasion Percolation and Critical Transient in the Barabási Model of Human Dynamics. Physical Review Letters, 2007, 98, 208701.	7.8	39
31	One-dimensional gravity in infinite point distributions. Physical Review E, 2009, 80, 041108.	2.1	39
32	Investigating the interplay between fundamentals of national research systems: Performance, investments and international collaborations. Journal of Informetrics, 2016, 10, 200-211.	2.9	35
33	Voronoi and void statistics for superhomogeneous point processes. Physical Review E, 2004, 70, 041105.	2.1	31
34	Finite size effects on the galaxy number counts: Evidence for fractal behavior up to the deepest scale. Physica A: Statistical Mechanics and Its Applications, 1996, 226, 195-242.	2.6	30
35	Gravitational Evolution of a Perturbed Lattice and its Fluid Limit. Physical Review Letters, 2005, 95, 011304.	7.8	30
36	High dimensional behavior of the Kardar-Parisi-Zhang growth dynamics. Physical Review E, 1998, 58, R5209-R5212.	2.1	28

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37	Spatio-temporal anomalous diffusion imaging: results in controlled phantoms and in excised human meningiomas. <i>Magnetic Resonance Imaging</i> , 2013, 31, 359-365.	1.8	28
38	Hierarchical organization of functional connectivity in the mouse brain: a complex network approach. <i>Scientific Reports</i> , 2016, 6, 32060.	3.3	28
39	Bias and the Power Spectrum beyond the Turnover. <i>Astrophysical Journal</i> , 2003, 585, L1-L4.	4.5	28
40	Statistical Physics for cosmic structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 306, 395-401.	2.6	24
41	From Innovation to Diversification: A Simple Competitive Model. <i>PLoS ONE</i> , 2015, 10, e0140420.	2.5	24
42	The scientific influence of nations on global scientific and technological development. <i>Journal of Informetrics</i> , 2017, 11, 1229-1237.	2.9	22
43	Dynamics in the Fitness-Income plane: Brazilian states vs World countries. <i>PLoS ONE</i> , 2018, 13, e0197616.	2.5	22
44	Theory of extremal dynamics with quenched disorder: Invasion percolation and related models. <i>Physical Review E</i> , 1996, 54, 1406-1425.	2.1	21
45	Gravitational force distribution in fractal structures. <i>Europhysics Letters</i> , 1999, 46, 127-133.	2.0	21
46	The $\hat{\beta}$ parameter of the stretched-exponential model is influenced by internal gradients: Validation in phantoms. <i>Journal of Magnetic Resonance</i> , 2012, 216, 28-36.	2.1	21
47	Tilings of space and superhomogeneous point processes. <i>Physical Review E</i> , 2008, 77, 031125.	2.1	20
48	Organization and hierarchy of the human functional brain network lead to a chain-like core. <i>Scientific Reports</i> , 2017, 7, 4888.	3.3	19
49	Grand canonical ensemble of weighted networks. <i>Physical Review E</i> , 2019, 99, 030301.	2.1	19
50	Bi-stability of SUDR+K model of epidemics and test kits applied to COVID-19. <i>Nonlinear Dynamics</i> , 2020, 101, 1635-1642.	5.2	19
51	Surface hardening and self-organized fractality through etching of random solids. <i>Physical Review E</i> , 2000, 62, 3103-3115.	2.1	18
52	Gravitational dynamics of an infinite shuffled lattice of particles. <i>Physical Review E</i> , 2007, 75, 021113.	2.1	18
53	Hierarchical model of slow constrained dynamics. <i>Physical Review E</i> , 1998, 57, 4354-4360.	2.1	17
54	Biasing in Gaussian Random Fields and Galaxy Correlations. <i>Astrophysical Journal</i> , 2000, 531, L1-L4.	4.5	17

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55	Invasion percolation with temperature and the nature of self-organized criticality in real systems. <i>Physical Review E</i> , 2000, 62, 7638-7641.	2.1	17
56	Network reconstruction via density sampling. <i>Applied Network Science</i> , 2017, 2, 3.	1.5	17
57	Theory of self-organized criticality for problems with extremal dynamics. <i>Europhysics Letters</i> , 1997, 38, 491-496.	2.0	16
58	Dynamical approach to Zipf's law. <i>Physical Review Research</i> , 2021, 3, .	3.6	16
59	Comment on the run time statistics in models of growth in disordered media. <i>Journal of Statistical Physics</i> , 1996, 84, 889-893.	1.2	15
60	Force distribution in a randomly perturbed lattice of identical particles with $1\hat{a}\cdot r^2$ pair interaction. <i>Physical Review E</i> , 2006, 74, 021110.	2.1	14
61	Dynamics of fractures in quenched disordered media. <i>Physical Review E</i> , 1998, 57, 3878-3885.	2.1	13
62	Chemical efficiency of reactive microflows with heterogeneous catalysis: a lattice Boltzmann study. <i>EPJ Applied Physics</i> , 2001, 16, 71-84.	0.7	13
63	Fluctuations in galaxy counts: A new test for homogeneity vs . fractality. <i>Europhysics Letters</i> , 2001, 54, 286-292.	2.0	13
64	Perturbative Approach to the Bak-Sneppen Model. <i>Physical Review Letters</i> , 2001, 86, 1896-1899.	7.8	13
65	Rayleigh loops in the random-field Ising model on the Bethe lattice. <i>Physical Review B</i> , 2002, 65, .	3.2	13
66	Gravitational dynamics of an infinite shuffled lattice: Particle coarse-graining, nonlinear clustering, and the continuum limit. <i>Physical Review E</i> , 2007, 76, 011116.	2.1	13
67	Non-Markovian Models of Blocking in Concurrent and Countercurrent Flows. <i>Physical Review Letters</i> , 2013, 110, 170601.	7.8	13
68	A Dynamical Classification of the Range of Pair Interactions. <i>Journal of Statistical Physics</i> , 2010, 141, 970-989.	1.2	12
69	Field theory of self-organized fractal etching. <i>Physical Review E</i> , 2001, 64, 016108.	2.1	10
70	How people react to a deadline: time distribution of conference registrations and fee payments. <i>Open Physics</i> , 2009, 7, .	1.7	10
71	Chemical fracture statistics and universal distribution of extreme values. <i>Europhysics Letters</i> , 2002, 59, 232-238.	2.0	9
72	A lattice Boltzmann study of reactive microflows. <i>Computer Physics Communications</i> , 2002, 147, 516-521.	7.5	9

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73	Causality constraints on fluctuations in cosmology: A study with exactly solvable one-dimensional models. <i>Europhysics Letters</i> , 2004, 66, 1-7.	2.0	9
74	Irreversible blocking in single-file concurrent and countercurrent particulate flows. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P01027.	2.3	9
75	Statistical physics approach to quantifying differences in myelinated nerve fibers. <i>Scientific Reports</i> , 2014, 4, 4511.	3.3	9
76	Formation and relaxation of quasistationary states in particle systems with power-law interactions. <i>Physical Review E</i> , 2017, 96, 032102.	2.1	9
77	What do central counterparty default funds really cover? A network-based stress test answer. <i>Journal of Network Theory in Finance</i> , 2018, 4, 43-57.	0.7	9
78	Statistical properties of fractures in damaged materials. <i>Europhysics Letters</i> , 1999, 45, 13-19.	2.0	8
79	The unbalanced reorganization of weaker functional connections induces the altered brain network topology in schizophrenia. <i>Scientific Reports</i> , 2021, 11, 15400.	3.3	8
80	Galaxy number counts and fractal correlations. <i>Europhysics Letters</i> , 1997, 39, 103-108.	2.0	7
81	Laplacian Fractal Growth in Media with Quenched Disorder. <i>Physical Review Letters</i> , 1997, 79, 1503-1506.	7.8	7
82	Gravitational force in weakly correlated particle spatial distributions. <i>Physical Review E</i> , 2004, 69, 031110.	2.1	7
83	Gravitational force in an infinite one-dimensional Poisson distribution. <i>Physical Review E</i> , 2010, 81, 021102.	2.1	7
84	Surface effects in invasion percolation. <i>Physical Review E</i> , 1997, 56, R1291-R1294.	2.1	6
85	Generalized dielectric breakdown model. <i>Physical Review B</i> , 1999, 60, 786-790.	3.2	6
86	Scale invariant forces in one-dimensional shuffled lattices. <i>Physical Review E</i> , 2005, 72, 066113.	2.1	6
87	Invasion percolation on a tree and queueing models. <i>Physical Review E</i> , 2009, 79, 041133.	2.1	6
88	Invasion percolation and the time scaling behavior of a queueing model of human dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P02046.	2.3	6
89	Peaks in the CMBR power spectrum. I. Mathematical analysis of the associated real space features. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 474-484.	2.6	6
90	Generalized model of blockage in particulate flow limited by channel carrying capacity. <i>Physical Review E</i> , 2015, 92, 032141.	2.1	6

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91	Complexity in Neural and Financial Systems: From Time-Series to Networks. Complexity, 2018, 2018, 1-2.	1.6	6
92	Irrelevance of spatial correlations in models with extremal dynamics. Physical Review E, 1997, 55, 7745-7748.	2.1	5
93	Probabilistic approach to the Bak-Sneppen model. Physical Review E, 2002, 65, 046101.	2.1	5
94	Influence of Technological Innovations on Industrial Production: A Motif Analysis on the Multilayer Network. Entropy, 2019, 21, 126.	2.2	5
95	Theory of boundary effects in invasion percolation. Journal of Physics A, 1998, 31, 7429-7446.	1.6	4
96	Damage and cracking in thin mud layers. Journal of Physics A, 2000, 33, 8013-8028.	1.6	4
97	Diffusion, super-diffusion and coalescence from a single step. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P10007-P10007.	2.3	4
98	Shaping large Poisson Voronoi cells in two dimensions. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, N07001.	2.3	4
99	Competitors' communities and taxonomy of products according to export fluxes. European Physical Journal: Special Topics, 2012, 212, 115-120.	2.6	4
100	Two-point correlation properties of stochastic splitting processes. Physical Review E, 2008, 77, 031139.	2.1	3
101	Finite-N corrections to Vlasov dynamics and the range of pair interactions. Physical Review E, 2014, 90, 062910.	2.1	3
102	Generalized Markov stability of network communities. Physical Review E, 2020, 101, 052301.	2.1	3
103	Theory of Extremal Dynamics with Quenched Disorder: Self-Organization, Avalanche Dynamics and Critical Exponents. International Journal of Modern Physics B, 1998, 12, 1263-1275.	2.0	1
104	Renormalization-group study of one-dimensional systems with roughening transitions. Physical Review E, 1999, 60, 3719-3726.	2.1	1
105	Non perturbative renormalization group approach to surface growth. Computer Physics Communications, 1999, 121-122, 358-362.	7.5	1
106	Complexity in cosmic structures. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 44-49.	2.6	1
107	Chemical etching of a disordered solid: From experiments to field theory. Physica A: Statistical Mechanics and Its Applications, 2005, 357, 122-128.	2.6	1
108	Clustering and coalescence from multiplicative noise: the Kraichnan ensemble. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 235003.	2.1	1

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109	Correlation and Clustering. , 2001, , 151-160.		1
110	A simple model of slow relaxation dynamics. European Physical Journal Special Topics, 1998, 08, Pr6-105-Pr6-108.	0.2	1
111	MAPPING OF A DETERMINISTIC DYNAMICS WITH QUENCHED VARIABLES INTO A STOCHASTIC PROBLEM WITH COGNITIVE MEMORY. Fractals, 1995, 03, 471-481.	3.7	0
112	Reply to the Comment by H. Tephany and J. Nahmias on "Percolation in real wildfires" by G. Caldarelli et al.. Europhysics Letters, 2002, 59, 157-158.	2.0	0
113	Real Space Statistical Properties of Standard Cosmological Models. AIP Conference Proceedings, 2003, , .	0.4	0
114	Quasi-stationary states and a classification of the range of pair interactions. , 2011, , .		0
115	Relaxation of quasi-stationary states in long range interacting systems and a classification of the range of pair interactions. Open Physics, 2012, 10, .	1.7	0
116	Publisher's Note: Non-Markovian Models of Blocking in Concurrent and Countercurrent Flows [Phys. Rev. Lett. 110 , 170601 (2013)]. Physical Review Letters, 2013, 110, .	7.8	0
117	Initial Conditions, Discreteness and Non-Linear Structure Formation in Cosmology. , 2003, , 263-290.		0