

Andrea Gabrielli

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Dynamical approach to Zipf's law. <i>Physical Review Research</i> , 2021, 3, . | 3.6 | 16 |
| 2 | 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 |
| 3 | 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 |
| 4 | Generalized Markov stability of network communities. <i>Physical Review E</i> , 2020, 101, 052301. | 2.1 | 3 |
| 5 | Grand canonical ensemble of weighted networks. <i>Physical Review E</i> , 2019, 99, 030301. | 2.1 | 19 |
| 6 | Influence of Technological Innovations on Industrial Production: A Motif Analysis on the Multilayer Network. <i>Entropy</i> , 2019, 21, 126. | 2.2 | 5 |
| 7 | Unfolding the innovation system for the development of countries: coevolution of Science, Technology and Production. <i>Scientific Reports</i> , 2019, 9, 16440. | 3.3 | 50 |
| 8 | The statistical physics of real-world networks. <i>Nature Reviews Physics</i> , 2019, 1, 58-71. | 26.6 | 230 |
| 9 | Dynamics in the Fitness-Income plane: Brazilian states vs World countries. <i>PLoS ONE</i> , 2018, 13, e0197616. | 2.5 | 22 |
| 10 | Complexity in Neural and Financial Systems: From Time-Series to Networks. <i>Complexity</i> , 2018, 2018, 1-2. | 1.6 | 6 |
| 11 | Reconstruction methods for networks: The case of economic and financial systems. <i>Physics Reports</i> , 2018, 757, 1-47. | 25.6 | 66 |
| 12 | 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 |
| 13 | Formation and relaxation of quasistationary states in particle systems with power-law interactions. <i>Physical Review E</i> , 2017, 96, 032102. | 2.1 | 9 |
| 14 | The scientific influence of nations on global scientific and technological development. <i>Journal of Informetrics</i> , 2017, 11, 1229-1237. | 2.9 | 22 |
| 15 | 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 |
| 16 | Network reconstruction via density sampling. <i>Applied Network Science</i> , 2017, 2, 3. | 1.5 | 17 |
| 17 | Inferring monopartite projections of bipartite networks: an entropy-based approach. <i>New Journal of Physics</i> , 2017, 19, 053022. | 2.9 | 76 |
| 18 | Detecting early signs of the 2007-2008 crisis in the world trade. <i>Scientific Reports</i> , 2016, 6, 30286. | 3.3 | 72 |

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|----|---|------|-----------|
| 19 | Investigating the interplay between fundamentals of national research systems: Performance, investments and international collaborations. <i>Journal of Informetrics</i> , 2016, 10, 200-211. | 2.9 | 35 |
| 20 | Hierarchical organization of functional connectivity in the mouse brain: a complex network approach. <i>Scientific Reports</i> , 2016, 6, 32060. | 3.3 | 28 |
| 21 | Generalized model of blockage in particulate flow limited by channel carrying capacity. <i>Physical Review E</i> , 2015, 92, 032141. | 2.1 | 6 |
| 22 | Estimating topological properties of weighted networks from limited information. <i>Physical Review E</i> , 2015, 92, 040802. | 2.1 | 42 |
| 23 | Systemic Risk Analysis on Reconstructed Economic and Financial Networks. <i>Scientific Reports</i> , 2015, 5, 15758. | 3.3 | 109 |
| 24 | Randomizing bipartite networks: the case of the World Trade Web. <i>Scientific Reports</i> , 2015, 5, 10595. | 3.3 | 112 |
| 25 | 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 |
| 26 | From Innovation to Diversification: A Simple Competitive Model. <i>PLoS ONE</i> , 2015, 10, e0140420. | 2.5 | 24 |
| 27 | The Scientific Competitiveness of Nations. <i>PLoS ONE</i> , 2014, 9, e113470. | 2.5 | 79 |
| 28 | Finite-N-corrections to Vlasov dynamics and the range of pair interactions. <i>Physical Review E</i> , 2014, 90, 062910. | 2.1 | 3 |
| 29 | Statistical physics approach to quantifying differences in myelinated nerve fibers. <i>Scientific Reports</i> , 2014, 4, 4511. | 3.3 | 9 |
| 30 | Structural disorder and anomalous diffusion in random packing of spheres. <i>Scientific Reports</i> , 2013, 3, 2631. | 3.3 | 41 |
| 31 | 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 |
| 32 | Bootstrapping Topological Properties and Systemic Risk of Complex Networks Using the Fitness Model. <i>Journal of Statistical Physics</i> , 2013, 151, 720-734. | 1.2 | 73 |
| 33 | Reconstructing a credit network. <i>Nature Physics</i> , 2013, 9, 125-126. | 16.7 | 69 |
| 34 | Economic complexity: Conceptual grounding of a new metrics for global competitiveness. <i>Journal of Economic Dynamics and Control</i> , 2013, 37, 1683-1691. | 1.6 | 127 |
| 35 | 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 |
| 36 | Non-Markovian Models of Blocking in Concurrent and Countercurrent Flows. <i>Physical Review Letters</i> , 2013, 110, 170601. | 7.8 | 13 |

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|----|--|-----|-----------|
| 37 | Publisher's Note: Non-Markovian Models of Blocking in Concurrent and Countercurrent Flows [Phys. Rev. Lett. 110 (2013)]. Physical Review Letters, 2013, 110, . | 7.8 | 0 |
| 38 | Measuring the Intangibles: A Metrics for the Economic Complexity of Countries and Products. PLoS ONE, 2013, 8, e70726. | 2.5 | 199 |
| 39 | Competitors' communities and taxonomy of products according to export fluxes. European Physical Journal: Special Topics, 2012, 212, 115-120. | 2.6 | 4 |
| 40 | A New Metrics for Countries' Fitness and Products' Complexity. Scientific Reports, 2012, 2, 723. | 3.3 | 333 |
| 41 | The $\hat{\beta}$ parameter of the stretched-exponential model is influenced by internal gradients: Validation in phantoms. Journal of Magnetic Resonance, 2012, 216, 28-36. | 2.1 | 21 |
| 42 | 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 |
| 43 | A Network Analysis of Countries' Export Flows: Firm Grounds for the Building Blocks of the Economy. PLoS ONE, 2012, 7, e47278. | 2.5 | 132 |
| 44 | Quasi-stationary states and a classification of the range of pair interactions. , 2011, , . | | 0 |
| 45 | Spatio-temporal anomalous diffusion in heterogeneous media by nuclear magnetic resonance. Journal of Chemical Physics, 2011, 135, 034504. | 3.0 | 47 |
| 46 | Non-Gaussian diffusion imaging: a brief practical review. Magnetic Resonance Imaging, 2011, 29, 1410-1416. | 1.8 | 85 |
| 47 | Anisotropic anomalous diffusion assessed in the human brain by scalar invariant indices. Magnetic Resonance in Medicine, 2011, 65, 1043-1052. | 3.0 | 43 |
| 48 | A Dynamical Classification of the Range of Pair Interactions. Journal of Statistical Physics, 2010, 141, 970-989. | 1.2 | 12 |
| 49 | Gravitational force in an infinite one-dimensional Poisson distribution. Physical Review E, 2010, 81, 021102. | 2.1 | 7 |
| 50 | Quasistationary States and the Range of Pair Interactions. Physical Review Letters, 2010, 105, 210602. | 7.8 | 43 |
| 51 | Topologically biased random walk and community finding in networks. Physical Review E, 2010, 82, 066109. | 2.1 | 40 |
| 52 | One-dimensional gravity in infinite point distributions. Physical Review E, 2009, 80, 041108. | 2.1 | 39 |
| 53 | Invasion percolation on a tree and queueing models. Physical Review E, 2009, 79, 041133. | 2.1 | 6 |
| 54 | How people react to a deadline: time distribution of conference registrations and fee payments. Open Physics, 2009, 7, . | 1.7 | 10 |

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|----|---|-----|-----------|
| 55 | Invasion percolation and the time scaling behavior of a queuing model of human dynamics. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02046. | 2.3 | 6 |
| 56 | Shaping large Poisson Voronoi cells in two dimensions. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, N07001. | 2.3 | 4 |
| 57 | Clustering and coalescence from multiplicative noise: the Kraichnan ensemble. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 235003. | 2.1 | 1 |
| 58 | Two-point correlation properties of stochastic splitting processes. Physical Review E, 2008, 77, 031139. | 2.1 | 3 |
| 59 | Tilings of space and superhomogeneous point processes. Physical Review E, 2008, 77, 031125. | 2.1 | 20 |
| 60 | Diffusion, super-diffusion and coalescence from a single step. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P10007-P10007. | 2.3 | 4 |
| 61 | Gravitational dynamics of an infinite shuffled lattice of particles. Physical Review E, 2007, 75, 021113. | 2.1 | 18 |
| 62 | Gravitational dynamics of an infinite shuffled lattice: Particle coarse-graining, nonlinear clustering, and the continuum limit. Physical Review E, 2007, 76, 011116. | 2.1 | 13 |
| 63 | Invasion Percolation and Critical Transient in the Barabási Model of Human Dynamics. Physical Review Letters, 2007, 98, 208701. | 7.8 | 39 |
| 64 | Linear perturbative theory of the discrete cosmological N-body problem. Physical Review D, 2006, 73, . | 4.7 | 41 |
| 65 | Force distribution in a randomly perturbed lattice of identical particles with $1/r^2$ pair interaction. Physical Review E, 2006, 74, 021110. | 2.1 | 14 |
| 66 | 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 |
| 67 | 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 |
| 68 | Scale invariant forces in one-dimensional shuffled lattices. Physical Review E, 2005, 72, 066113. | 2.1 | 6 |
| 69 | Gravitational Evolution of a Perturbed Lattice and its Fluid Limit. Physical Review Letters, 2005, 95, 011304. | 7.8 | 30 |
| 70 | Voronoi and void statistics for superhomogeneous point processes. Physical Review E, 2004, 70, 041105. | 2.1 | 31 |
| 71 | Self-Stabilized Fractality of Seacoasts through Damped Erosion. Physical Review Letters, 2004, 93, 098501. | 7.8 | 52 |
| 72 | Point processes and stochastic displacement fields. Physical Review E, 2004, 70, 066131. | 2.1 | 39 |

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|----|---|-----|-----------|
| 73 | Complexity in cosmic structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 338, 44-49. | 2.6 | 1 |
| 74 | Gravitational force in weakly correlated particle spatial distributions. <i>Physical Review E</i> , 2004, 69, 031110. | 2.1 | 7 |
| 75 | 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 |
| 76 | Generation of primordial cosmological perturbations from statistical mechanical models. <i>Physical Review D</i> , 2003, 67, . | 4.7 | 44 |
| 77 | Real Space Statistical Properties of Standard Cosmological Models. <i>AIP Conference Proceedings</i> , 2003, , . | 0.4 | 0 |
| 78 | Bias and the Power Spectrum beyond the Turnover. <i>Astrophysical Journal</i> , 2003, 585, L1-L4. | 4.5 | 28 |
| 79 | Initial Conditions, Discreteness and Non-Linear Structure Formation in Cosmology. , 2003, , 263-290. | | 0 |
| 80 | Class-like universe: Real-space correlation properties of standard cosmological models. <i>Physical Review D</i> , 2002, 65, . | 4.7 | 107 |
| 81 | Probabilistic approach to the Bak-Sneppen model. <i>Physical Review E</i> , 2002, 65, 046101. | 2.1 | 5 |
| 82 | Rayleigh loops in the random-field Ising model on the Bethe lattice. <i>Physical Review B</i> , 2002, 65, . | 3.2 | 13 |
| 83 | Reply to the Comment by H. Tephany and J. Nahmias on "Percolation in real wildfires" by G. Caldarelli et al.. <i>Europhysics Letters</i> , 2002, 59, 157-158. | 2.0 | 0 |
| 84 | Chemical fracture statistics and universal distribution of extreme values. <i>Europhysics Letters</i> , 2002, 59, 232-238. | 2.0 | 9 |
| 85 | Statistical Physics for cosmic structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 306, 395-401. | 2.6 | 24 |
| 86 | A lattice Boltzmann study of reactive microflows. <i>Computer Physics Communications</i> , 2002, 147, 516-521. | 7.5 | 9 |
| 87 | Chemical efficiency of reactive microflows with heterogeneous catalysis: a lattice Boltzmann study. <i>EPJ Applied Physics</i> , 2001, 16, 71-84. | 0.7 | 13 |
| 88 | Percolation in real wildfires. <i>Europhysics Letters</i> , 2001, 56, 510-516. | 2.0 | 46 |
| 89 | Fluctuations in galaxy counts: A new test for homogeneity vs . fractality. <i>Europhysics Letters</i> , 2001, 54, 286-292. | 2.0 | 13 |
| 90 | Field theory of self-organized fractal etching. <i>Physical Review E</i> , 2001, 64, 016108. | 2.1 | 10 |

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| 91 | Perturbative Approach to the Bak-Sneppen Model. <i>Physical Review Letters</i> , 2001, 86, 1896-1899. | 7.8 | 13 |
| 92 | Correlation and Clustering. , 2001, , 151-160. | | 1 |
| 93 | Biasing in Gaussian Random Fields and Galaxy Correlations. <i>Astrophysical Journal</i> , 2000, 531, L1-L4. | 4.5 | 17 |
| 94 | Damage and cracking in thin mud layers. <i>Journal of Physics A</i> , 2000, 33, 8013-8028. | 1.6 | 4 |
| 95 | Surface hardening and self-organized fractality through etching of random solids. <i>Physical Review E</i> , 2000, 62, 3103-3115. | 2.1 | 18 |
| 96 | 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 |
| 97 | Statistical properties of fractures in damaged materials. <i>Europhysics Letters</i> , 1999, 45, 13-19. | 2.0 | 8 |
| 98 | Renormalization-group study of one-dimensional systems with roughening transitions. <i>Physical Review E</i> , 1999, 60, 3719-3726. | 2.1 | 1 |
| 99 | Generalized dielectric breakdown model. <i>Physical Review B</i> , 1999, 60, 786-790. | 3.2 | 6 |
| 100 | Non perturbative renormalization group approach to surface growth. <i>Computer Physics Communications</i> , 1999, 121-122, 358-362. | 7.5 | 1 |
| 101 | Gravitational force distribution in fractal structures. <i>Europhysics Letters</i> , 1999, 46, 127-133. | 2.0 | 21 |
| 102 | Theory of boundary effects in invasion percolation. <i>Journal of Physics A</i> , 1998, 31, 7429-7446. | 1.6 | 4 |
| 103 | Dynamics of fractures in quenched disordered media. <i>Physical Review E</i> , 1998, 57, 3878-3885. | 2.1 | 13 |
| 104 | Disordered one-dimensional contact process. <i>Physical Review E</i> , 1998, 57, 5060-5068. | 2.1 | 59 |
| 105 | Hierarchical model of slow constrained dynamics. <i>Physical Review E</i> , 1998, 57, 4354-4360. | 2.1 | 17 |
| 106 | High dimensional behavior of the Kardar-Parisi-Zhang growth dynamics. <i>Physical Review E</i> , 1998, 58, R5209-R5212. | 2.1 | 28 |
| 107 | Theory of Extremal Dynamics with Quenched Disorder: Self-Organization, Avalanche Dynamics and Critical Exponents. <i>International Journal of Modern Physics B</i> , 1998, 12, 1263-1275. | 2.0 | 1 |
| 108 | A simple model of slow relaxation dynamics. <i>European Physical Journal Special Topics</i> , 1998, 08, Pr6-105-Pr6-108. | 0.2 | 1 |

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| 109 | Theory of self-organized criticality for problems with extremal dynamics. Europhysics Letters, 1997, 38, 491-496. | 2.0 | 16 |
| 110 | Galaxy number counts and fractal correlations. Europhysics Letters, 1997, 39, 103-108. | 2.0 | 7 |
| 111 | Surface effects in invasion percolation. Physical Review E, 1997, 56, R1291-R1294. | 2.1 | 6 |
| 112 | Irrelevance of spatial correlations in models with extremal dynamics. Physical Review E, 1997, 55, 7745-7748. | 2.1 | 5 |
| 113 | Laplacian Fractal Growth in Media with Quenched Disorder. Physical Review Letters, 1997, 79, 1503-1506. | 7.8 | 7 |
| 114 | Theory of extremal dynamics with quenched disorder: Invasion percolation and related models. Physical Review E, 1996, 54, 1406-1425. | 2.1 | 21 |
| 115 | Comment on the run time statistics in models of growth in disordered media. Journal of Statistical Physics, 1996, 84, 889-893. | 1.2 | 15 |
| 116 | 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 |
| 117 | MAPPING OF A DETERMINISTIC DYNAMICS WITH QUENCHED VARIABLES INTO A STOCHASTIC PROBLEM WITH COGNITIVE MEMORY. Fractals, 1995, 03, 471-481. | 3.7 | 0 |