Marco Patriarca

List of Publications by Year
in descending order

57	1,765	304602	276775
papers	citations	22 h-index	41 g-index

70	70	70	941
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Econophysics review: I. Empirical facts. Quantitative Finance, 2011, 11, 991-1012.	0.9	265
2	Econophysics review: II. Agent-based models. Quantitative Finance, 2011, 11, 1013-1041.	0.9	205
3	Statistical model with a standard distribution. Physical Review E, 2004, 70, 016104.	0.8	130
4	Modeling language competition. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 296-299.	1.2	108
5	Fractional Fokker-Planck dynamics: Numerical algorithm and simulations. Physical Review E, 2006, 73, 046133.	0.8	91
6	Use and Abuse of a Fractional Fokker-Planck Dynamics for Time-Dependent Driving. Physical Review Letters, 2007, 99, 120602.	2.9	81
7	Basic kinetic wealth-exchange models: common features and open problems. European Physical Journal B, 2010, 73, 145-153.	0.6	75
8	Influence of geography on language competition. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 174-186.	1.2	63
9	Current and universal scaling in anomalous transport. Physical Review E, 2006, 73, 020101.	0.8	58
10	Gibbs versus non-Gibbs distributions in money dynamics. Physica A: Statistical Mechanics and Its Applications, 2004, 340, 334-339.	1.2	49
11	Influence of saving propensity on the power-law tail of the wealth distribution. Physica A: Statistical Mechanics and Its Applications, 2006, 369, 723-736.	1.2	47
12	MODELING TWO-LANGUAGE COMPETITION DYNAMICS. International Journal of Modeling, Simulation, and Scientific Computing, 2012, 15, 1250048.	0.9	46
13	Dimer diffusion in a washboard potential. Physical Review E, 2008, 77, 021129.	0.8	42
14	Stochastic resonance in bistable confining potentials. European Physical Journal B, 2009, 69, 19-22.	0.6	36
15	Computational study of core structure and Peierls stress of dissociated dislocations in nickel. Modelling and Simulation in Materials Science and Engineering, 2003, 11, 883-895.	0.8	34
16	Gamma-distribution and wealth inequality. Pramana - Journal of Physics, 2008, 71, 233-243.	0.9	32
17	Variational Principle for the Pareto Power Law. Physical Review Letters, 2009, 103, 228701.	2.9	31
18	Kinetic exchange models: From molecular physics to social science. American Journal of Physics, 2013, 81, 618-623.	0.3	30

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19	Relaxation in statistical many-agent economy models. European Physical Journal B, 2007, 57, 219-224.	0.6	28
20	Fractional Fokker-Planck subdiffusion in alternating force fields. Physical Review E, 2009, 79, 041137.	0.8	25
21	Computational study of a screw dislocation interacting with a stacking-fault tetrahedron. Modelling and Simulation in Materials Science and Engineering, 2005, 13, 541-551.	0.8	24
22	THE ROLE OF BILINGUALS IN LANGUAGE COMPETITION. International Journal of Modeling, Simulation, and Scientific Computing, 2014, 17, 1450003.	0.9	24
23	Classical and quantum measurements of position. Journal of Physics A, 1997, 30, 7385-7411.	1.6	20
24	Kinetic models of immediate exchange. European Physical Journal B, 2014, 87, 1.	0.6	20
25	Hubs, diversity, and synchronization in FitzHugh-Nagumo oscillator networks: Resonance effects and biophysical implications. Physical Review E, 2021, 103, 052211.	0.8	19
26	Stability of charge inversion, Thomson problem, and application to electrophoresis. Physical Review E, 2003, 67, 031402.	0.8	17
27	Diversity and Noise Effects in a Model of Homeostatic Regulation of the Sleep-Wake Cycle. PLoS Computational Biology, 2012, 8, e1002650.	1.5	17
28	Self-Organized Criticality in Dislocation Networks. Physical Review Letters, 1994, 72, 4101-4104.	2.9	14
29	Statistical correlations in the oscillator model of quantum dissipative systems. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1996, 111, 61-72.	0.2	13
30	Fractional diffusion in periodic potentials. Journal of Physics Condensed Matter, 2007, 19, 065114.	0.7	13
31	MODIFIED EAM POTENTIALS FOR MODELLING STACKINGâ€“FAULT BEHAVIOR IN Cu, Al, Au, AND Ni. International Journal of Modern Physics B, 2002, 16, 2823-2835.	1.0	11
32	Constructive effects of diversity in a multi-neuron model of the homeostatic regulation of the sleepâ€“wake cycle. Chaos, Solitons and Fractals, 2015, 81, 567-574.	2.5	9
33	Classical and quantum dissipation in non-homogeneous environments. Physica A: Statistical Mechanics and Its Applications, 1994, 211, 449-464.	1.2	7
34	Resonant states and photodissociation cross sections in protonated rare gases. Molecular Physics, 1989, 67, 281-302.	0.8	6
35	A birdâ€™s-eye view of naming game dynamics: From trait competition to Bayesian inference. Chaos, 2020, 30, 063119.	1.0	6
36	Accurate Neâ˜H+ and Arâ˜H+ interactions from spectroscopic and scattering states: A comparison of theory with experiments. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1989, 11, 1287-1305.	0.4	5

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37	Boundary conditions for the SchrÃ¶dinger equation in the numerical simulation of quantum systems. Physical Review E, 1994, 50, 1616-1622.	0.8	5
38	Feynmanâ€“Vernon model of a moving thermal environment. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 243-250.	1.3	5
39	A Bayesian Approach to the Naming Game Model. Frontiers in Physics, 2020, 8, .	1.0	5
40	Financial Time-series Analysis: a Brief Overview. , 2007, , 51-67.		5
41	Stochastic resonance in a surface dipole. Chemical Physics, 2010, 375, 410-415.	0.9	4
42	Three-dimensional interactive Molecular Dynamics program for the study of defect dynamics in crystals. Computer Physics Communications, 2007, 176, 38-47.	3.0	3
43	Dissociated dislocations in Ni: a computational study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 390, 393-399.	2.6	2
44	Classical and quantum Brownian motion in an electromagnetic field. Fortschritte Der Physik, 2017, 65, 1600058.	1.5	2
45	Kinetic Exchange Models as D Dimensional Systems: A Comparison of Different Approaches. New Economic Windows, 2017, , 147-158.	1.0	2
46	The role of dispersal in competition success and in the emerging diversity. European Physical Journal B, 2018, 91, 1.	0.6	2
47	The dynamics of natural selection in dispersal-structured populations. Physica A: Statistical Mechanics and Its Applications, 2020, 547, 124427.	1.2	2
48	Nucleation and dynamics of dislocations in mismatched heterostructures. Materials Research Society Symposia Proceedings, 2001, 696, 1.	0.1	1
49	Power-Laws as Statistical Mixtures. Springer Proceedings in Complexity, 2016, , 271-282.	0.2	1
50	The Microscopic Origin of the Pareto Law and Other Power-Law Distributions. New Economic Windows, 2017, , 159-176.	1.0	1
51	Patterns of Linguistic Diffusion in Space and Time: The Case of Mazatec. New Economic Windows, 2017, , 227-251.	1.0	1
52	The role of bilinguals in the Bayesian naming game. Physica D: Nonlinear Phenomena, 2021, 428, 133062.	1.3	1
53	Influence of invasion on natural selection in dispersal-structured populations. Physica A: Statistical Mechanics and Its Applications, 2022, , 127389.	1.2	1
54	Quantum Chaos and Transport in Mesoscopic Systems. Springer Series in Solid-state Sciences, 2000, , 235-269.	0.3	0

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55	Uni- vs. bi-directional kinetic exchange models. International Journal of Computational Economics and Econometrics, 2015, 5, 213.	0.1	0
56	Diffusion in the presence of a local attracting factor: Theory and interdisciplinary applications. Physical Review E, 2017, 95, 062116.	0.8	0
57	Network Resilience and Assessment of the Credit Granting Policy. International Journal of Business and Applied Social Science, 2020, 11, .	0.2	0