

# Matteo Colangeli

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53  
papers

548  
citations

14  
h-index

22  
g-index

58  
ext. papers

660  
ext. citations

2.4  
avg, IF

4  
L-index

#	Paper	IF	Citations
53	Stochastic Parameterization: Toward a New View of Weather and Climate Models. <i>Bulletin of the American Meteorological Society</i> , <b>2017</b> , 98, 565-588	6.1	176
52	A meaningful expansion around detailed balance. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2011</b> , 44, 095001	2	39
51	Beyond the linear fluctuation-dissipation theorem: the role of causality. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2012</b> , 2012, P05013	1.9	21
50	Nonequilibrium two-dimensional Ising model with stationary uphill diffusion. <i>Physical Review E</i> , <b>2018</b> , 97, 030103	2.4	19
49	Latent heat and the Fourier law. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2016</b> , 380, 1710-1713	2.3	19
48	Fluctuation-dissipation relation for chaotic non-Hamiltonian systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2012</b> , 2012, L04002	1.9	18
47	Equilibrium, fluctuation relations and transport for irreversible deterministic dynamics. <i>Physica D: Nonlinear Phenomena</i> , <b>2012</b> , 241, 681-691	3.3	17
46	Microscopic models for uphill diffusion. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2017</b> , 50, 435002	2	17
45	Stationary uphill currents in locally perturbed zero-range processes. <i>Physical Review E</i> , <b>2017</b> , 96, 052137	2.4	17
44	From hyperbolic regularization to exact hydrodynamics for linearized Grad's equations. <i>Physical Review E</i> , <b>2007</b> , 75, 051204	2.4	17
43	Particle Models with Self Sustained Current. <i>Journal of Statistical Physics</i> , <b>2017</b> , 167, 1081-1111	1.5	16
42	Elements of a unified framework for response formulae. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2014</b> , 2014, P01002	1.9	15
41	Exact linear hydrodynamics from the Boltzmann equation. <i>Physical Review Letters</i> , <b>2008</b> , 100, 214503	7.4	15
40	Fick and Fokker-Planck Diffusion Law in Inhomogeneous Media. <i>Journal of Statistical Physics</i> , <b>2019</b> , 174, 469-493	1.5	15
39	Boltzmann equation and hydrodynamic fluctuations. <i>Physical Review E</i> , <b>2009</b> , 80, 051202	2.4	14
38	Hyperbolicity of exact hydrodynamics for three-dimensional linearized Grad's equations. <i>Physical Review E</i> , <b>2007</b> , 76, 022201	2.4	12
37	Blockage-induced condensation controlled by a local reaction. <i>Physical Review E</i> , <b>2016</b> , 94, 042116	2.4	10

36	Steady state fluctuation relations and time reversibility for non-smooth chaotic maps. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2011</b> , 2011, P04021	1.9	9
35	Effects of Communication Efficiency and Exit Capacity on Fundamental Diagrams for Pedestrian Motion in an Obscure Tunnel---A Particle System Approach. <i>Multiscale Modeling and Simulation</i> , <b>2016</b> , 14, 906-922	1.8	8
34	Modelling Interactions Between Active and Passive Agents Moving Through Heterogeneous Environments. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2018</b> , 211-257	0.8	6
33	From Kinetic Models to Hydrodynamics. <i>SpringerBriefs in Mathematics</i> , <b>2013</b> ,	0.6	6
32	A lattice model approach to the morphology formation from ternary mixtures during the evaporation of one component. <i>European Physical Journal: Special Topics</i> , <b>2019</b> , 228, 55-68	2.3	5
31	Focus on some nonequilibrium issues. <i>Chaos, Solitons and Fractals</i> , <b>2014</b> , 64, 2-15	9.3	5
30	Current in a quantum driven thermostatted system with off-diagonal disorder. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2013</b> , 392, 2977-2987	3.3	5
29	Trapping in bottlenecks: Interplay between microscopic dynamics and large scale effects. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2017</b> , 488, 30-38	3.3	5
28	Fluctuations in quantum one-dimensional thermostatted systems with off-diagonal disorder. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2013</b> , 2013, P02009	1.9	5
27	Does communication enhance pedestrians transport in the dark?. <i>Comptes Rendus - Mecanique</i> , <b>2016</b> , 344, 19-23	2.1	4
26	A lattice model for active-passive pedestrian dynamics: a quest for drafting effects. <i>Mathematical Biosciences and Engineering</i> , <b>2019</b> , 17, 460-477	2.1	4
25	A Kac Model for Fermions. <i>Archive for Rational Mechanics and Analysis</i> , <b>2015</b> , 216, 359-413	2.3	3
24	Uphill migration in coupled driven particle systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2019</b> , 2019, 073203	1.9	3
23	When diffusion faces drift: Consequences of exclusion processes for bi-directional pedestrian flows. <i>Physica D: Nonlinear Phenomena</i> , <b>2020</b> , 413, 132651	3.3	3
22	Deterministic reversible model of non-equilibrium phase transitions and stochastic counterpart. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2020</b> , 53, 305001	2	3
21	Stationary Currents in Particle Systems with Constrained Hopping Rates. <i>Journal of Non-Equilibrium Thermodynamics</i> , <b>2016</b> , 41,	3.8	3
20	Transport in Quantum Multi-barrier Systems as Random Walks on a Lattice. <i>Journal of Statistical Physics</i> , <b>2019</b> , 176, 692-709	1.5	2
19	Pattern recognition at different scales: A statistical perspective. <i>Chaos, Solitons and Fractals</i> , <b>2014</b> , 64, 48-66	9.3	2

18	A continuum limit for the KronigPenney model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2015</b> , 2015, P06006	1.9	2
17	Highly Anisotropic Scaling Limits. <i>Journal of Statistical Physics</i> , <b>2016</b> , 162, 997-1030	1.5	1
16	Role of ergodicity in the transient Fluctuation Relation and a new relation for a dissipative non-chaotic map. <i>Chaos, Solitons and Fractals</i> , <b>2016</b> , 83, 54-66	9.3	1
15	Nonequilibrium response from the dissipative Liouville equation. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2010</b> , 2010, P12019	1.9	1
14	Fluctuation Relations and Nonequilibrium Response for Chaotic Dissipative Dynamics. <i>Understanding Complex Systems</i> , <b>2013</b> , 3-38	0.4	1
13	Deterministic model of battery, uphill currents, and nonequilibrium phase transitions. <i>Physical Review E</i> , <b>2021</b> , 103, 032119	2.4	1
12	Residence time in one-dimensional random walks in presence of moving defects. <i>Probabilistic Engineering Mechanics</i> , <b>2022</b> , 103260	2.6	1
11	Emergence of stationary uphill currents in 2D Ising models: the role of reservoirs and boundary conditions. <i>European Physical Journal: Special Topics</i> , <b>2019</b> , 228, 69-91	2.3	0
10	A combinatorial representation for the invariant measure of diffusion processes on metric graphs. <i>Alea</i> , <b>2021</b> , 18, 1773	0.5	0
9	Exact response theory and Kuramoto dynamics. <i>Physica D: Nonlinear Phenomena</i> , <b>2021</b> , 133076	3.3	0
8	Toward a Quantitative Reduction of the SIR Epidemiological Model. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2021</b> , 185-201	0.8	0
7	Small Scale Hydrodynamics. <i>Understanding Complex Systems</i> , <b>2015</b> , 65-104	0.4	
6	Hydrodynamic Spectrum of Simple Fluids. <i>SpringerBriefs in Mathematics</i> , <b>2013</b> , 37-47	0.6	
5	Hydrodynamic Fluctuations from the Boltzmann Equation. <i>SpringerBriefs in Mathematics</i> , <b>2013</b> , 49-73	0.6	
4	From the Phase Space to the Boltzmann Equation. <i>SpringerBriefs in Mathematics</i> , <b>2013</b> , 3-21	0.6	
3	Methods of Reduced Description. <i>SpringerBriefs in Mathematics</i> , <b>2013</b> , 23-35	0.6	
2	Grad's 13-Moments System. <i>SpringerBriefs in Mathematics</i> , <b>2013</b> , 75-94	0.6	
1	Uniqueness and stability with respect to parameters of solutions to a fluid-like driven system for active-passive pedestrian dynamics. <i>Journal of Mathematical Analysis and Applications</i> , <b>2021</b> , 495, 124702 <sup>1.1</sup>		

