

Angelo Vulpiani

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.

70
papers

4,326
citations

31
h-index

65
g-index

74
ext. papers

4,679
ext. citations

3.6
avg. IF

5.17
L-index

#	Paper	IF	Citations
70	Anomalous scaling laws in multifractal objects. <i>Physics Reports</i> , 1987 , 156, 147-225	27.7	830
69	. <i>Tellus</i> , 1982 , 34, 10-16		544
68	Stochastic resonance in climatic change. <i>Tellus</i> , 1982 , 34, 10-15		523
67	Dynamical Systems Approach to Turbulence 1998 ,		322
66	Power Laws in Solar Flares: Self-Organized Criticality or Turbulence?. <i>Physical Review Letters</i> , 1999 , 83, 4662-4665	7.4	287
65	A Theory of Stochastic Resonance in Climatic Change. <i>SIAM Journal on Applied Mathematics</i> , 1983 , 43, 565-578	1.8	223
64	Equipartition threshold in nonlinear large Hamiltonian systems: The Fermi-Pasta-Ulam model. <i>Physical Review A</i> , 1985 , 31, 1039-1045	2.6	164
63	Degrees of freedom of turbulence. <i>Physical Review A</i> , 1987 , 35, 1971-1973	2.6	86
62	Chaotic behavior in nonlinear Hamiltonian systems and equilibrium statistical mechanics. <i>Journal of Statistical Physics</i> , 1987 , 48, 539-559	1.5	68
61	Relaxation to different stationary states in the Fermi-Pasta-Ulam model. <i>Physical Review A</i> , 1983 , 28, 3544-3552	2.6	67
60	Correlation functions and relaxation properties in chaotic dynamics and statistical mechanics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990 , 144, 341-346	2.3	66
59	Reductionism, Emergence and Levels of Reality 2014 ,		58
58	Chaotic diffusion across a magnetic field in a model of electrostatic turbulent plasma. <i>Physical Review A</i> , 1988 , 38, 344-363	2.6	56
57	Further results on the equipartition threshold in large nonlinear Hamiltonian systems. <i>Physical Review A</i> , 1985 , 31, 2740-2742	2.6	56
56	Dynamics of passively advected impurities in simple two-dimensional flow models. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992 , 4, 1805-1820		54
55	Topological thermal instability and length of proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 55, 529-35	4.2	51
54	Mixing in a Meandering Jet: A Markovian Approximation. <i>Journal of Physical Oceanography</i> , 1999 , 29, 2578-2594	2.4	49

53	Liapunov exponents in high-dimensional symplectic dynamics. <i>Journal of Statistical Physics</i> , 1987 , 46, 147-160	1.5	49
52	Complexity in dynamical systems with noise. <i>Physical Review Letters</i> , 1995 , 74, 66-69	7.4	48
51	Lagrangian Drifter Dispersion in the Southwestern Atlantic Ocean. <i>Journal of Physical Oceanography</i> , 2011 , 41, 1659-1672	2.4	44
50	Multiscaling in multifractals. <i>Physical Review Letters</i> , 1991 , 67, 208-211	7.4	42
49	Anomalous scaling and generalized Lyapunov exponents of the one-dimensional Anderson model. <i>Physical Review B</i> , 1987 , 35, 2015-2020	3.3	41
48	Linear response and correlation of a self-propelled particle in the presence of external fields. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018 , 2018, 033203	1.9	37
47	Evidence for a $kB/3$ Spectrum from the EOLE Lagrangian Balloons in the Low Stratosphere. <i>Journals of the Atmospheric Sciences</i> , 2004 , 61, 2936-2942	2.1	37
46	A statistical model for translocation of structured polypeptide chains through nanopores. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10348-56	3.4	35
45	Active escape dynamics: The effect of persistence on barrier crossing. <i>Journal of Chemical Physics</i> , 2019 , 150, 024902	3.9	34
44	Possible failure of Arnold diffusion in nonlinear hamiltonian systems with more than two degrees of freedom. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1984 , 106, 207-211	2.3	34
43	Finite size Lyapunov exponent: review on applications. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013 , 46, 254019	2	32
42	Concept of complexity in random dynamical systems. <i>Physical Review E</i> , 1996 , 53, 2087-2098	2.4	32
41	A consistent description of fluctuations requires negative temperatures. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015 , 2015, P12002	1.9	31
40	The origin of diffusion: the case of non-chaotic systems. <i>Physica D: Nonlinear Phenomena</i> , 2003 , 180, 129-139	3.3	26
39	Generalized Lyapunov exponents in high-dimensional chaotic dynamics and products of large random matrices. <i>Journal of Statistical Physics</i> , 1988 , 53, 583-601	1.5	22
38	Forecasting in Light of Big Data. <i>Philosophy and Technology</i> , 2018 , 31, 557-569	3.6	18
37	Linear and nonlinear thermodynamics of a kinetic heat engine with fast transformations. <i>Physical Review E</i> , 2016 , 93, 042116	2.4	16
36	Statistical mechanics of systems with long-range interactions and negative absolute temperature. <i>Physical Review E</i> , 2019 , 99, 042152	2.4	15

35	Langevin equation in systems with also negative temperatures. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018 , 2018, 043207	1.9	14
34	Transport properties of chaotic and non-chaotic many particle systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007 , 2007, P12001-P12001	1.9	14
33	Random fractals, phase transitions, and negative dimension spectra. <i>Physical Review E</i> , 1994 , 50, 4352-4356	3.5	14
32	Non-anomalous diffusion is not always Gaussian. <i>European Physical Journal B</i> , 2014 , 87, 1	1.2	12
31	On the Foundations of Statistical Mechanics: Ergodicity, Many Degrees of Freedom and Inference. <i>Communications in Theoretical Physics</i> , 2014 , 62, 469-475	2.4	9
30	Optimal Strategies for Prudent Investors. <i>International Journal of Theoretical and Applied Finance</i> , 1998 , 01, 473-486	0.5	9
29	On the effects of an uncertainty on the evolution law in dynamical systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989 , 160, 482-502	3.3	9
28	Lagrangian chaos and small scale structure of passive scalars. <i>Physica D: Nonlinear Phenomena</i> , 1989 , 38, 372-376	3.3	8
27	Role of Lagrangian chaoticity on the small scale structure of passive scalars in fluids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1990 , 166, 305-324	3.3	8
26	Statistical mechanics of systems with negative temperature. <i>Physics Reports</i> , 2021 , 923, 1-50	27.7	7
25	Effective equations in complex systems: from Langevin to machine learning. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020 , 2020, 014003	1.9	6
24	Strong chaos without the butterfly effect in dynamical systems with feedback. <i>Journal of Physics A</i> , 1996 , 29, 2291-2298		6
23	Derivation of a Langevin equation in a system with multiple scales: The case of negative temperatures. <i>Physical Review E</i> , 2019 , 99, 060101	2.4	5
22	Transport and fluctuation-dissipation relations in asymptotic and preasymptotic diffusion across channels with variable section. <i>Physical Review E</i> , 2014 , 90, 062110	2.4	5
21	ON THE FLUCTUATION-RESPONSE RELATION IN GEOPHYSICAL SYSTEMS. <i>International Journal of Modern Physics B</i> , 2009 , 23, 5515-5529	1.1	5
20	Statistical Mechanics of an Integrable System. <i>Journal of Statistical Physics</i> , 2021 , 183, 1	1.5	5
19	Frequency-control of protein translocation across an oscillating nanopore. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 11260-11272	3.6	4
18	Lewis Fry Richardson: scientist, visionary and pacifist. <i>Lettera Matematica</i> , 2014 , 2, 121-128		4

17	Effective models and predictability of chaotic multiscale systems via machine learning. <i>Physical Review E</i> , 2020 , 102, 052203	2.4	4
16	Data science and the art of modelling. <i>Lettera Matematica</i> , 2018 , 6, 121-129		3
15	Diffusive transport in highly corrugated channels. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 1084-1091	2.3	2
14	Law Without Law or Just Limit Theorems?. <i>Foundations of Physics</i> , 2018 , 48, 1112-1127	1.2	2
13	Lewis Fry Richardson: scienziato visionario e pacifista. <i>Lettera Matematica Pristem</i> , 2014 , 90, 23-30		2
12	Chaotic Lagrangian models for turbulent relative dispersion. <i>Physical Review E</i> , 2017 , 95, 043106	2.4	2
11	Resemblances and differences in mechanisms of noise-induced resonance. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 360, 261-273	3.3	2
10	Markov Chain Approach to a Process with Long-Time Memory. <i>Journal of Physical Oceanography</i> , 2003 , 33, 293-298	2.4	2
9	Effective equations for reaction coordinates in polymer transport. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020 , 2020, 013208	1.9	2
8	Translocation process of structured polypeptides across nanopores. <i>Spectroscopy</i> , 2010 , 24, 421-426		1
7	Comment on "Linear Response of Hamiltonian Chaotic Systems as a Function of the Number of Degrees of Freedom" <i>Physical Review Letters</i> , 1997 , 79, 1418-1418	7.4	1
6	Enrico Fermi's contribution to non-linear systems: The influence of an unpublished article 2004 , 271-285		1
5	Role of Chaos for the Validity of Statistical Mechanics Laws: Diffusion and Conduction 2007 , 123-149		1
4	Thermalization without chaos in harmonic systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022 , 127581	3.3	1
3	Complexity of the minimum energy configurations. <i>Physical Review Letters</i> , 1995 , 75, 637-640	7.4	
2	Some Aspects of the Fractal Approach to the Fully Developed Turbulence 1989 , 31-47		
1	Chaos, Transport and Diffusion. <i>Understanding Complex Systems</i> , 2015 , 31-63	0.4	