

Riccardo Mannella

List of Publications by Year in descending order

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39
papers

839
citations

516561

16
h-index

477173

29
g-index

42
all docs

42
docs citations

42
times ranked

612
citing authors

#	ARTICLE	IF	CITATIONS
1	INTEGRATION OF STOCHASTIC DIFFERENTIAL EQUATIONS ON A COMPUTER. International Journal of Modern Physics C, 2002, 13, 1177-1194.	0.8	124
2	Time-Resolved Measurement of Landau-Zener Tunneling in Periodic Potentials. Physical Review Letters, 2009, 103, 090402.	2.9	105
3	Noise in nonlinear dynamical systems. Contemporary Physics, 1990, 31, 179-194.	0.8	91
4	Zero-dispersion phenomena in oscillatory systems. Physics Reports, 2003, 373, 247-408.	10.3	55
5	From dynamics to thermodynamics: Linear response and statistical mechanics. Physical Review E, 1995, 51, 3002-3022.	0.8	53
6	Quasisymplectic integrators for stochastic differential equations. Physical Review E, 2004, 69, 041107.	0.8	46
7	Noise-induced narrowing of peaks in the power spectra of underdamped nonlinear oscillators. Physical Review A, 1990, 42, 7041-7049.	1.0	42
8	Fluctuations and the Energy-Optimal Control of Chaos. Physical Review Letters, 2000, 85, 2100-2103.	2.9	38
9	The projection approach to the Fokker-Planck equation. I. Colored Gaussian noise. Journal of Statistical Physics, 1988, 52, 951-978.	0.5	26
10	OPTIMAL FLUCTUATIONS AND THE CONTROL OF CHAOS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 583-604.	0.7	26
11	Frequency stabilization and noise-induced spectral narrowing in resonators with zero dispersion. Nature Communications, 2019, 10, 3930.	5.8	25
12	Fokker-Planck description of stochastic processes with colored noise. Physical Review A, 1988, 38, 1966-1978.	1.0	22
13	Chaos and linear response: Analysis of the short-, intermediate-, and long-time regime. Physical Review E, 1994, 50, 2630-2638.	0.8	22
14	Encephalitozoon cuniculi in rabbits: Serological screening and histopathological findings. Comparative Immunology, Microbiology and Infectious Diseases, 2017, 50, 54-57.	0.7	18
15	Matching of separatrix map and resonant dynamics, with application to global chaos onset between separatrices. Physical Review E, 2008, 77, 036221.	0.8	17
16	Resonant subharmonic absorption and second-harmonic generation by a fluctuating nonlinear oscillator. Physical Review E, 1996, 54, 2366-2377.	0.8	16
17	Numerical Stochastic Integration for Quasi-Symplectic Flows. SIAM Journal of Scientific Computing, 2006, 27, 2121-2139.	1.3	15
18	Zero-Dispersion Nonlinear Resonance in Dissipative Systems. Physical Review Letters, 1996, 76, 4453-4457.	2.9	13

#	ARTICLE	IF	CITATIONS
19	Large Fluctuations in a Periodically Driven Dynamical System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 747-754.	0.7	11
20	Maximal width of the separatrix chaotic layer. Physical Review E, 2009, 80, 066212.	0.8	11
21	Drastic Facilitation of the Onset of Global Chaos. Physical Review Letters, 2003, 90, 174101.	2.9	9
22	Colored noise in the ring laser gyroscope: Theory and simulation. Journal of Applied Physics, 1987, 62, 721-723.	1.1	7
23	A NEW APPROACH TO THE TREATMENT OF SEPARATRIX CHAOS. Fluctuation and Noise Letters, 2012, 11, 1240002.	1.0	7
24	Engineering of Landau-Zener tunneling. Applied Physics B: Lasers and Optics, 2011, 102, 489-495.	1.1	6
25	Linear or Nonlinear Modeling for ENSO Dynamics?. Atmosphere, 2018, 9, 435.	1.0	6
26	Ratchet driven by quasimonochromatic noise. Physical Review E, 2000, 61, 139-146.	0.8	5
27	Engineering interband transport by time-dependent disorder. Physical Review A, 2011, 84, .	1.0	5
28	Estimate of the average timing for strong El Niño events using the recharge oscillator model with a multiplicative perturbation. Chaos, 2018, 28, 103118.	1.0	5
29	Optimal FPE for non-linear 1d-SDE. I: Additive Gaussian colored noise. Journal of Physics Communications, 2020, 4, 105019.	0.5	5
30	On the determination of the optimal parameters in the CAM model. Chaos, 2021, 31, 033113.	1.0	3
31	Effect of external fluctuations on the Fréedericksz transition in an analogue simulator. Journal of Statistical Physics, 1989, 54, 1383-1396.	0.5	2
32	Recovering the Fourier law in harmonic chains: A Hamiltonian realization of the Debye/Visscher model. Communications in Nonlinear Science and Numerical Simulation, 2021, 95, 105652.	1.7	2
33	Fluctuational Escape and Related Phenomena in Nonlinear Optical Systems. , 0, , 469-524.		1
34	Chaos in a superconducting saucer. Physica B: Condensed Matter, 1990, 165-166, 117-118.	1.3	0
35	Fluctuational transitions and critical phenomena in a periodically driven nonlinear oscillator subject to weak noise. AIP Conference Proceedings, 1993, , .	0.3	0
36	A drastic facilitation of the onset of global chaos in periodically driven Hamiltonian systems possessing more than one separatrix. , 0, , .		0

#	ARTICLE	IF	CITATIONS
37	Beyond the usual approximations: time-dependent magnetic traps revisited. , 0, , .		0
38	Noise-induced spectral narrowing in a micro-electromechanical resonator. , 2013, , .		0
39	Universal description of the resonant facilitation of the inter-separatrix chaos onset. , 2013, , .		0