

Carlos Mejia-Monasterio

List of Publications by Year in descending order

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68
papers

1,997
citations

257429

24
h-index

243610

44
g-index

68
all docs

68
docs citations

68
times ranked

1242
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Protocols and Optimal Transport in Stochastic Thermodynamics. <i>Physical Review Letters</i> , 2011, 106, 250601.	7.8	133
2	First passages in bounded domains: When is the mean first passage time meaningful?. <i>Physical Review E</i> , 2012, 86, 031143.	2.1	124
3	Refined Second Law of Thermodynamics for Fast Random Processes. <i>Journal of Statistical Physics</i> , 2012, 147, 487-505.	1.2	119
4	First passages for a search by a swarm of independent random searchers. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P06022.	2.3	100
5	Fluctuations in nonequilibrium statistical mechanics: models, mathematical theory, physical mechanisms. <i>Nonlinearity</i> , 2007, 20, R1-R37.	1.4	83
6	Coupled Normal Heat and Matter Transport in a Simple Model System. <i>Physical Review Letters</i> , 2001, 86, 5417-5420.	7.8	77
7	Transport Properties of a Modified Lorentz Gas. <i>Journal of Statistical Physics</i> , 2003, 113, 197-231.	1.2	75
8	Geometry-Induced Superdiffusion in Driven Crowded Systems. <i>Physical Review Letters</i> , 2013, 111, 260601.	7.8	74
9	Magnetically Induced Thermal Rectification. <i>Physical Review Letters</i> , 2007, 98, 104302.	7.8	63
10	Active Transport in Dense Diffusive Single-File Systems. <i>Physical Review Letters</i> , 2013, 111, 038102.	7.8	63
11	Fourier's law in a quantum spin chain and the onset of quantum chaos. <i>Europhysics Letters</i> , 2005, 72, 520-526.	2.0	60
12	Entanglement across a transition to quantum chaos. <i>Physical Review A</i> , 2005, 71, .	2.5	60
13	Increasing Thermoelectric Efficiency: A Dynamical Systems Approach. <i>Physical Review Letters</i> , 2008, 101, 016601.	7.8	55
14	A stochastic model of anomalous heat transport: analytical solution of the steady state. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 025001.	2.1	55
15	Nonequilibrium particle and energy currents in quantum chains connected to mesoscopic Fermi reservoirs. <i>Physical Review B</i> , 2012, 86, .	3.2	54
16	Bias- and bath-mediated pairing of particles driven through a quiescent medium. <i>Soft Matter</i> , 2011, 7, 993-1000.	2.7	52
17	Thermal Rectification in Billiardlike Systems. <i>Physical Review Letters</i> , 2006, 97, 094301.	7.8	50
18	Optimal estimates of the diffusion coefficient of a single Brownian trajectory. <i>Physical Review E</i> , 2012, 85, 031136.	2.1	44

#	ARTICLE	IF	CITATIONS
19	Properties of Low-Lying States in a Diffusive Quantum Dot and Fock-Space Localization. <i>Physical Review Letters</i> , 1998, 81, 5189-5192.	7.8	38
20	Integrability of a deterministic cellular automaton driven by stochastic boundaries. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 185003.	2.1	30
21	Heat transport in quantum spin chains. <i>European Physical Journal: Special Topics</i> , 2007, 151, 113-125.	2.6	29
22	Nonequilibrium dynamics of a stochastic model of anomalous heat transport. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 065002.	2.1	28
23	A biased intruder in a dense quiescent medium: looking beyond the force-velocity relation. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P05008.	2.3	27
24	Boundary layers in stochastic thermodynamics. <i>Physical Review E</i> , 2012, 85, 020103.	2.1	25
25	Scattering one step from chaos. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 198, 306-314.	2.1	24
26	Spectral ergodicity and normal modes in ensembles of sparse matrices. <i>Nuclear Physics A</i> , 2001, 687, 405-434.	1.5	24
27	First Experimental Evidence for Quantum Echoes in Scattering Systems. <i>Physical Review Letters</i> , 2004, 93, 134102.	7.8	24
28	Simulating noisy quantum protocols with quantum trajectories. <i>Physical Review A</i> , 2004, 69, .	2.5	24
29	Temporal Correlations of the Running Maximum of a Brownian Trajectory. <i>Physical Review Letters</i> , 2016, 117, 080601.	7.8	24
30	Nonperturbative renormalization group study of the stochastic Navier-Stokes equation. <i>Physical Review E</i> , 2012, 86, 016315.	2.1	23
31	Thermoelectric efficiency in momentum-conserving systems. <i>New Journal of Physics</i> , 2014, 16, 015014.	2.9	23
32	Symmetry breaking between statistically equivalent, independent channels in few-channel chaotic scattering. <i>Physical Review E</i> , 2011, 84, 035203.	2.1	22
33	Nonequilibrium dynamics of a stochastic model of anomalous heat transport: numerical analysis. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 145001.	2.1	21
34	Spectroscopic interpretation: The high vibrations of CDBrClF. <i>Journal of Chemical Physics</i> , 2004, 120, 4194-4206.	3.0	19
35	Self-pulsing effect in chaotic scattering. <i>New Journal of Physics</i> , 2004, 6, 48-48.	2.9	19
36	On the performance of blind-infotaxis under inaccurate modeling of the environment. <i>European Physical Journal: Special Topics</i> , 2017, 226, 2407-2420.	2.6	17

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37	Heat Release by Controlled Continuous-Time Markov Jump Processes. Journal of Statistical Physics, 2013, 150, 181-203.	1.2	15
38	Cooperative behavior of biased probes in crowded interacting systems. Soft Matter, 2017, 13, 7617-7624.	2.7	15
39	Anomalous field-induced growth of fluctuations in dynamics of a biased intruder moving in a quiescent medium. Physical Review E, 2013, 87, 020103.	2.1	14
40	Memory Effects in Nonequilibrium Transport for Deterministic Hamiltonian Systems. Journal of Statistical Physics, 2006, 123, 1339-1360.	1.2	13
41	Optimal fits of diffusion constants from single-time data points of Brownian trajectories. Physical Review E, 2012, 86, 060101.	2.1	13
42	Distribution of the least-squares estimators of a single Brownian trajectory diffusion coefficient. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P04017.	2.3	13
43	From Thermal Rectifiers to Thermoelectric Devices. Lecture Notes in Physics, 2016, , 365-407.	0.7	12
44	Joint distributions of partial and global maxima of a Brownian bridge. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 335002.	2.1	11
45	Quantum and classical echoes in scattering systems described by simple Smale horseshoes. Europhysics Letters, 2001, 55, 616-622.	2.0	10
46	Tracer diffusion on a crowded random Manhattan lattice. New Journal of Physics, 2020, 22, 033024.	2.9	10
47	On the Fluctuation Relation for Nosé-Hoover Boundary Thermostated Systems. Journal of Statistical Physics, 2008, 133, 617-637.	1.2	8
48	Optimal least-squares estimators of the diffusion constant from a single Brownian trajectory. European Physical Journal: Special Topics, 2013, 216, 57-71.	2.6	8
49	Displacement autocorrelation functions for strong anomalous diffusion: A scaling form, universal behavior, and corrections to scaling. Physical Review Research, 2021, 3, .	3.6	8
50	Analysis of an algebraic model for the chromophore vibrations of CF ₃ CHI. Physical Chemistry Chemical Physics, 2004, 6, 3069.	2.8	7
51	Superdiffusive Heat Transport in a Class of Deterministic One-dimensional Many-Particle Lorentz Gases. Journal of Statistical Physics, 2009, 136, 331-347.	1.2	7
52	Current in coherent quantum systems connected to mesoscopic Fermi reservoirs. Physica Scripta, 2012, 86, 058501.	2.5	7
53	Trajectory-to-Trajectory Fluctuations in First-Passage Phenomena in Bounded Domains. , 2014, , 203-225.		7
54	Geometry-induced fluctuations of olfactory searches in bounded domains. Physical Review E, 2014, 89, 042145.	2.1	6

#	ARTICLE	IF	CITATIONS
55	Heat flux in one-dimensional systems. <i>Physical Review E</i> , 2019, 100, 032139.	2.1	6
56	Ergodic least-squares estimators of the generalized diffusion coefficient for fractional Brownian motion. <i>Physical Review E</i> , 2013, 87, .	2.1	5
57	Biochemical recurrence-free conditional probability after radical prostatectomy: A dynamic prognosis. <i>International Journal of Urology</i> , 2019, 26, 725-730.	1.0	4
58	Diffusion and escape from polygonal channels: extreme values and geometric effects. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 073208.	2.3	3
59	Classical and Quantum Chaos and Control of Heat Flow. <i>Journal of the Korean Physical Society</i> , 2007, 50, 158.	0.7	3
60	Heat flow in classical and quantum systems and thermal rectification. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	2
61	Thermoelectric transport in billiard systems. , 2008, , .		2
62	Dynamical mechanisms leading to equilibration in two-component gases. <i>Physical Review E</i> , 2016, 93, 050103.	2.1	2
63	Negative response to an excessive bias by a mixed population of voters. <i>Condensed Matter Physics</i> , 2017, 20, 13801.	0.7	2
64	Particle and energy transport in quantum disordered and quasi-periodic chains connected to mesoscopic Fermi reservoirs. , 2012, , .		1
65	Editorial: Anomalous Transport: Applications, Mathematical Perspectives, and Big Data. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	1
66	Properties of Low-Lying States in a Diffusive Quantum Dot and Fock-Space Localization. <i>Physica Status Solidi (B): Basic Research</i> , 1999, 215, 337-342.	1.5	0
67	Publisher's Note: Nonequilibrium particle and energy currents in quantum chains connected to mesoscopic Fermi reservoirs [<i>Phys. Rev. B</i> 86, 125111 (2012)]. <i>Physical Review B</i> , 2012, 86, .	3.2	0
68	Foundations and applications of non-equilibrium statistical mechanics. <i>Physica Scripta</i> , 2012, 86, 050201.	2.5	0