Carlos Mejia-Monasterio

List of Publications by Year in
Descending Order

62 papers	1,675 citations	24 h-index	39 g-index
68 ext. papers	1,874 ext. citations	3 avg, IF	4.79 L-index

#	Paper	IF	Citations
62	Diffusion and escape from polygonal channels: extreme values and geometric effects. *Journal of Statistical Mechanics: Theory and Experiment*, **2021**, 2021, 073208	1.9	1
61	Displacement autocorrelation functions for strong anomalous diffusion: A scaling form, universal behavior, and corrections to scaling. *Physical Review Research*, **2021**, 3,	3.9	3
60	Tracer diffusion on a crowded random Manhattan lattice. *New Journal of Physics*, **2020**, 22, 033024	2.9	6
59	Heat flux in one-dimensional systems. *Physical Review E*, **2019**, 100, 032139	2.4	3
58	Biochemical recurrence-free conditional probability after radical prostatectomy: A dynamic prognosis. *International Journal of Urology*, **2019**, 26, 725-730	2.3	2
57	Cooperative behavior of biased probes in crowded interacting systems. *Soft Matter*, **2017**, 13, 7617-7624	3.6	12
56	On the performance of blind-infotaxis under inaccurate modeling of the environment. *European Physical Journal: Special Topics*, **2017**, 226, 2407-2420	2.3	9
55	Temporal Correlations of the Running Maximum of a Brownian Trajectory. *Physical Review Letters*, **2016**, 117, 080601	7.4	16
54	Dynamical mechanisms leading to equilibration in two-component gases. *Physical Review E*, **2016**, 93, 050103	2.4	2
53	Joint distributions of partial and global maxima of a Brownian bridge. *Journal of Physics A: Mathematical and Theoretical*, **2016**, 49, 335002	2	7
52	Integrability of a deterministic cellular automaton driven by stochastic boundaries. *Journal of Physics A: Mathematical and Theoretical*, **2016**, 49, 185003	2	24
51	From Thermal Rectifiers to Thermoelectric Devices. *Lecture Notes in Physics*, **2016**, 365-407	0.8	7
50	Trajectory-to-Trajectory Fluctuations in First-Passage Phenomena in Bounded Domains **2014**, 203-225		5
49	Thermoelectric efficiency in momentum-conserving systems. *New Journal of Physics*, **2014**, 16, 015014	2.9	18
48	Geometry-induced fluctuations of olfactory searches in bounded domains. *Physical Review E*, **2014**, 89, 042145	2.4	6
47	Active transport in dense diffusive single-file systems. *Physical Review Letters*, **2013**, 111, 038102	7.4	51
46	Anomalous field-induced growth of fluctuations in dynamics of a biased intruder moving in a quiescent medium. *Physical Review E*, **2013**, 87, 020103	2.4	14

45	Optimal least-squares estimators of the diffusion constant from a single Brownian trajectory. *European Physical Journal: Special Topics*, **2013**, 216, 57-71	2.3	7
44	Geometry-induced superdiffusion in driven crowded systems. *Physical Review Letters*, **2013**, 111, 260601	7.4	68
43	Heat Release by Controlled Continuous-Time Markov Jump Processes. *Journal of Statistical Physics*, **2013**, 150, 181-203	1.5	10
42	Distribution of the least-squares estimators of a single Brownian trajectory diffusion coefficient. *Journal of Statistical Mechanics: Theory and Experiment*, **2013**, 2013, P04017	1.9	11
41	A biased intruder in a dense quiescent medium: looking beyond the force⊠velocity relation. *Journal of Statistical Mechanics: Theory and Experiment*, **2013**, 2013, P05008	1.9	24
40	Ergodic least-squares estimators of the generalized diffusion coefficient for fractional Brownian motion. *Physical Review E*, **2013**, 87,	2.4	5
39	Nonequlibrium particle and energy currents in quantum chains connected to mesoscopic Fermi reservoirs. *Physical Review B*, **2012**, 86,	3.3	41
38	First passages in bounded domains: when is the mean first passage time meaningful?. *Physical Review E*, **2012**, 86, 031143	2.4	101
37	Boundary layers in stochastic thermodynamics. *Physical Review E*, **2012**, 85, 020103	2.4	16
36	Optimal estimates of the diffusion coefficient of a single Brownian trajectory. *Physical Review E*, **2012**, 85, 031136	2.4	39
35	Refined Second Law of Thermodynamics for Fast Random Processes. *Journal of Statistical Physics*, **2012**, 147, 487-505	1.5	89
34	Current in coherent quantum systems connected to mesoscopic Fermi reservoirs. *Physica Scripta*, **2012**, 86, 058501	2.6	6
33	Nonperturbative renormalization group study of the stochastic Navier-Stokes equation. *Physical Review E*, **2012**, 86, 016315	2.4	18
32	Optimal fits of diffusion constants from single-time data points of Brownian trajectories. *Physical Review E*, **2012**, 86, 060101	2.4	12
31	Bias- and bath-mediated pairing of particles driven through a quiescent medium. *Soft Matter*, **2011**, 7, 993-1000	3.6	47
30	First passages for a search by a swarm of independent random searchers. *Journal of Statistical Mechanics: Theory and Experiment*, **2011**, 2011, P06022	1.9	84
29	Symmetry breaking between statistically equivalent, independent channels in few-channel chaotic scattering. *Physical Review E*, **2011**, 84, 035203	2.4	19
28	Optimal protocols and optimal transport in stochastic thermodynamics. *Physical Review Letters*, **2011**, 106, 250601	7.4	81

27	Nonequilibrium dynamics of a stochastic model of anomalous heat transport: numerical analysis. *Journal of Physics A: Mathematical and Theoretical*, **2010**, 43, 145001	2	18
26	Nonequilibrium dynamics of a stochastic model of anomalous heat transport. *Journal of Physics A: Mathematical and Theoretical*, **2010**, 43, 065002	2	25
25	A stochastic model of anomalous heat transport: analytical solution of the steady state. *Journal of Physics A: Mathematical and Theoretical*, **2009**, 42, 025001	2	47
24	Superdiffusive Heat Transport in a Class of Deterministic One-dimensional Many-Particle Lorentz Gases. *Journal of Statistical Physics*, **2009**, 136, 331-347	1.5	7
23	Increasing thermoelectric efficiency: a dynamical systems approach. *Physical Review Letters*, **2008**, 101, 016601	7.4	53
22	Thermoelectric transport in billiard systems **2008**,		2
21	On the Fluctuation Relation for Nosé-Hoover Boundary Thermostated Systems. *Journal of Statistical Physics*, **2008**, 133, 617-637	1.5	8
20	Heat transport in quantum spin chains. *European Physical Journal: Special Topics*, **2007**, 151, 113-125	2.3	27
19	Magnetically induced thermal rectification. *Physical Review Letters*, **2007**, 98, 104302	7.4	55
18	Fluctuations in nonequilibrium statistical mechanics: models, mathematical theory, physical mechanisms. *Nonlinearity*, **2007**, 20, R1-R37	1.7	74
17	Classical and Quantum Chaos and Control of Heat Flow. *Journal of the Korean Physical Society*, **2007**, 50, 158	0.6	2
16	Thermal rectification in billiardlike systems. *Physical Review Letters*, **2006**, 97, 094301	7.4	44
15	Memory Effects in Nonequilibrium Transport for Deterministic Hamiltonian Systems. *Journal of Statistical Physics*, **2006**, 123, 1339-1360	1.5	13
14	Entanglement across a transition to quantum chaos. *Physical Review A*, **2005**, 71,	2.6	55
13	Fourier's law in a quantum spin chain and the onset of quantum chaos. *Europhysics Letters*, **2005**, 72, 520-526	1.6	59
12	First experimental evidence for quantum echoes in scattering systems. *Physical Review Letters*, **2004**, 93, 134102	7.4	23
11	Simulating noisy quantum protocols with quantum trajectories. *Physical Review A*, **2004**, 69,	2.6	22
10	Analysis of an algebraic model for the chromophore vibrations of CF3CHFI. *Physical Chemistry Chemical Physics*, **2004**, 6, 3069	3.6	7

9	Spectroscopic interpretation: the high vibrations of CDBrClF. *Journal of Chemical Physics*, **2004**, 120, 4194-3206	3.3	18
8	Self-pulsing effect in chaotic scattering. *New Journal of Physics*, **2004**, 6, 48-48	2.9	17
7	Transport Properties of a Modified Lorentz Gas. *Journal of Statistical Physics*, **2003**, 113, 197-231	1.5	70
6	Spectral ergodicity and normal modes in ensembles of sparse matrices. *Nuclear Physics A*, **2001**, 687, 405-434	1.3	22
5	Quantum and classical echoes in scattering systems described by simple Smale horseshoes. *Europhysics Letters*, **2001**, 55, 616-622	1.6	10
4	Coupled normal heat and matter transport in a simple model system. *Physical Review Letters*, **2001**, 86, 5417-20	7.4	68
3	Properties of Low-Lying States in a Diffusive Quantum Dot and Fock-Space Localization. *Physica Status Solidi (B): Basic Research*, **1999**, 215, 337-342	1.3	
2	Properties of Low-Lying States in a Diffusive Quantum Dot and Fock-Space Localization. *Physical Review Letters*, **1998**, 81, 5189-5192	7.4	38
1	Scattering one step from chaos. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1995**, 198, 306-314	2.3	24