

# Carlos Mejia-Monasterio

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5492044/carlos-mejia-monasterio-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	First passages in bounded domains: when is the mean first passage time meaningful?. <i>Physical Review E</i> , <b>2012</b> , 86, 031143	2.4	101
61	Refined Second Law of Thermodynamics for Fast Random Processes. <i>Journal of Statistical Physics</i> , <b>2012</b> , 147, 487-505	1.5	89
60	First passages for a search by a swarm of independent random searchers. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2011</b> , 2011, P06022	1.9	84
59	Optimal protocols and optimal transport in stochastic thermodynamics. <i>Physical Review Letters</i> , <b>2011</b> , 106, 250601	7.4	81
58	Fluctuations in nonequilibrium statistical mechanics: models, mathematical theory, physical mechanisms. <i>Nonlinearity</i> , <b>2007</b> , 20, R1-R37	1.7	74
57	Transport Properties of a Modified Lorentz Gas. <i>Journal of Statistical Physics</i> , <b>2003</b> , 113, 197-231	1.5	70
56	Geometry-induced superdiffusion in driven crowded systems. <i>Physical Review Letters</i> , <b>2013</b> , 111, 260601	7.4	68
55	Coupled normal heat and matter transport in a simple model system. <i>Physical Review Letters</i> , <b>2001</b> , 86, 5417-20	7.4	68
54	Fourier's law in a quantum spin chain and the onset of quantum chaos. <i>Europhysics Letters</i> , <b>2005</b> , 72, 520-526	1.6	59
53	Magnetically induced thermal rectification. <i>Physical Review Letters</i> , <b>2007</b> , 98, 104302	7.4	55
52	Entanglement across a transition to quantum chaos. <i>Physical Review A</i> , <b>2005</b> , 71,	2.6	55
51	Increasing thermoelectric efficiency: a dynamical systems approach. <i>Physical Review Letters</i> , <b>2008</b> , 101, 016601	7.4	53
50	Active transport in dense diffusive single-file systems. <i>Physical Review Letters</i> , <b>2013</b> , 111, 038102	7.4	51
49	Bias- and bath-mediated pairing of particles driven through a quiescent medium. <i>Soft Matter</i> , <b>2011</b> , 7, 993-1000	3.6	47
48	A stochastic model of anomalous heat transport: analytical solution of the steady state. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2009</b> , 42, 025001	2	47
47	Thermal rectification in billiardlike systems. <i>Physical Review Letters</i> , <b>2006</b> , 97, 094301	7.4	44
46	Nonequilibrium particle and energy currents in quantum chains connected to mesoscopic Fermi reservoirs. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	41

45	Optimal estimates of the diffusion coefficient of a single Brownian trajectory. <i>Physical Review E</i> , <b>2012</b> , 85, 031136	2.4	39
44	Properties of Low-Lying States in a Diffusive Quantum Dot and Fock-Space Localization. <i>Physical Review Letters</i> , <b>1998</b> , 81, 5189-5192	7.4	38
43	Heat transport in quantum spin chains. <i>European Physical Journal: Special Topics</i> , <b>2007</b> , 151, 113-125	2.3	27
42	Nonequilibrium dynamics of a stochastic model of anomalous heat transport. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2010</b> , 43, 065002	2	25
41	Integrability of a deterministic cellular automaton driven by stochastic boundaries. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2016</b> , 49, 185003	2	24
40	A biased intruder in a dense quiescent medium: looking beyond the force-velocity relation. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2013</b> , 2013, P05008	1.9	24
39	Scattering one step from chaos. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1995</b> , 198, 306-314	2.3	24
38	First experimental evidence for quantum echoes in scattering systems. <i>Physical Review Letters</i> , <b>2004</b> , 93, 134102	7.4	23
37	Simulating noisy quantum protocols with quantum trajectories. <i>Physical Review A</i> , <b>2004</b> , 69,	2.6	22
36	Spectral ergodicity and normal modes in ensembles of sparse matrices. <i>Nuclear Physics A</i> , <b>2001</b> , 687, 405-434	1.3	22
35	Symmetry breaking between statistically equivalent, independent channels in few-channel chaotic scattering. <i>Physical Review E</i> , <b>2011</b> , 84, 035203	2.4	19
34	Thermoelectric efficiency in momentum-conserving systems. <i>New Journal of Physics</i> , <b>2014</b> , 16, 015014	2.9	18
33	Nonequilibrium dynamics of a stochastic model of anomalous heat transport: numerical analysis. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2010</b> , 43, 145001	2	18
32	Nonperturbative renormalization group study of the stochastic Navier-Stokes equation. <i>Physical Review E</i> , <b>2012</b> , 86, 016315	2.4	18
31	Spectroscopic interpretation: the high vibrations of CDBrClF. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 4194-206	3.9	18
30	Self-pulsing effect in chaotic scattering. <i>New Journal of Physics</i> , <b>2004</b> , 6, 48-48	2.9	17
29	Temporal Correlations of the Running Maximum of a Brownian Trajectory. <i>Physical Review Letters</i> , <b>2016</b> , 117, 080601	7.4	16
28	Boundary layers in stochastic thermodynamics. <i>Physical Review E</i> , <b>2012</b> , 85, 020103	2.4	16

27	Anomalous field-induced growth of fluctuations in dynamics of a biased intruder moving in a quiescent medium. <i>Physical Review E</i> , <b>2013</b> , 87, 020103	2.4	14
26	Memory Effects in Nonequilibrium Transport for Deterministic Hamiltonian Systems. <i>Journal of Statistical Physics</i> , <b>2006</b> , 123, 1339-1360	1.5	13
25	Cooperative behavior of biased probes in crowded interacting systems. <i>Soft Matter</i> , <b>2017</b> , 13, 7617-7624	3.6	12
24	Optimal fits of diffusion constants from single-time data points of Brownian trajectories. <i>Physical Review E</i> , <b>2012</b> , 86, 060101	2.4	12
23	Distribution of the least-squares estimators of a single Brownian trajectory diffusion coefficient. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2013</b> , 2013, P04017	1.9	11
22	Heat Release by Controlled Continuous-Time Markov Jump Processes. <i>Journal of Statistical Physics</i> , <b>2013</b> , 150, 181-203	1.5	10
21	Quantum and classical echoes in scattering systems described by simple Smale horseshoes. <i>Europhysics Letters</i> , <b>2001</b> , 55, 616-622	1.6	10
20	On the performance of blind-infotaxis under inaccurate modeling of the environment. <i>European Physical Journal: Special Topics</i> , <b>2017</b> , 226, 2407-2420	2.3	9
19	On the Fluctuation Relation for Nosé-Hoover Boundary Thermostated Systems. <i>Journal of Statistical Physics</i> , <b>2008</b> , 133, 617-637	1.5	8
18	Joint distributions of partial and global maxima of a Brownian bridge. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2016</b> , 49, 335002	2	7
17	Optimal least-squares estimators of the diffusion constant from a single Brownian trajectory. <i>European Physical Journal: Special Topics</i> , <b>2013</b> , 216, 57-71	2.3	7
16	Superdiffusive Heat Transport in a Class of Deterministic One-dimensional Many-Particle Lorentz Gases. <i>Journal of Statistical Physics</i> , <b>2009</b> , 136, 331-347	1.5	7
15	Analysis of an algebraic model for the chromophore vibrations of CF <sub>3</sub> CHI. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 3069	3.6	7
14	From Thermal Rectifiers to Thermoelectric Devices. <i>Lecture Notes in Physics</i> , <b>2016</b> , 365-407	0.8	7
13	Tracer diffusion on a crowded random Manhattan lattice. <i>New Journal of Physics</i> , <b>2020</b> , 22, 033024	2.9	6
12	Geometry-induced fluctuations of olfactory searches in bounded domains. <i>Physical Review E</i> , <b>2014</b> , 89, 042145	2.4	6
11	Current in coherent quantum systems connected to mesoscopic Fermi reservoirs. <i>Physica Scripta</i> , <b>2012</b> , 86, 058501	2.6	6
10	Trajectory-to-Trajectory Fluctuations in First-Passage Phenomena in Bounded Domains <b>2014</b> , 203-225		5

9	Ergodic least-squares estimators of the generalized diffusion coefficient for fractional Brownian motion. <i>Physical Review E</i> , <b>2013</b> , 87,	2.4	5
8	Heat flux in one-dimensional systems. <i>Physical Review E</i> , <b>2019</b> , 100, 032139	2.4	3
7	Displacement autocorrelation functions for strong anomalous diffusion: A scaling form, universal behavior, and corrections to scaling. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	3
6	Biochemical recurrence-free conditional probability after radical prostatectomy: A dynamic prognosis. <i>International Journal of Urology</i> , <b>2019</b> , 26, 725-730	2.3	2
5	Dynamical mechanisms leading to equilibration in two-component gases. <i>Physical Review E</i> , <b>2016</b> , 93, 050103	2.4	2
4	Thermoelectric transport in billiard systems <b>2008</b> ,		2
3	Classical and Quantum Chaos and Control of Heat Flow. <i>Journal of the Korean Physical Society</i> , <b>2007</b> , 50, 158	0.6	2
2	Diffusion and escape from polygonal channels: extreme values and geometric effects. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2021</b> , 2021, 073208	1.9	1
1	Properties of Low-Lying States in a Diffusive Quantum Dot and Fock-Space Localization. <i>Physica Status Solidi (B): Basic Research</i> , <b>1999</b> , 215, 337-342	1.3	