

# upendra Harbola

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,828  
citations

566801

15  
h-index

253896

43  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1267  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonequilibrium fluctuations, fluctuation theorems, and counting statistics in quantum systems. <i>Reviews of Modern Physics</i> , 2009, 81, 1665-1702.	16.4	1,067
2	Quantum master equation for electron transport through quantum dots and single molecules. <i>Physical Review B</i> , 2006, 74, .	1.1	203
3	Heat fluctuations and coherences in a quantum heat engine. <i>Physical Review A</i> , 2012, 86, .	1.0	63
4	Nonlinear optical spectroscopy of single, few, and many molecules: Nonequilibrium Green's function QED approach. <i>Physical Review A</i> , 2008, 77, 22110.	1.0	56
5	Quantum heat engines: A thermodynamic analysis of power and efficiency. <i>Europhysics Letters</i> , 2012, 99, 50005.	0.7	49
6	Thermodynamics of quantum heat engines. <i>Physical Review A</i> , 2013, 88, .	1.0	47
7	Statistics and fluctuation theorem for boson and fermion transport through mesoscopic junctions. <i>Physical Review B</i> , 2007, 76, .	1.1	30
8	Memory-induced anomalous dynamics in a minimal random walk model. <i>Physical Review E</i> , 2014, 90, 022136.	0.8	25
9	Simulation of Single Molecule Inelastic Electron Tunneling Signals in Paraphenylene~Vinylene Oligomers and Distyrylbenzene[2.2]paracyclophanes. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6329-6338.	1.1	24
10	Many-body theory of current-induced fluorescence in molecular junctions. <i>Physical Review B</i> , 2006, 73, .	1.1	23
11	Model for glass transition in a binary fluid from a mode coupling approach. <i>Physical Review E</i> , 2002, 65, 036138.	0.8	22
12	Single-Electron Counting Spectroscopy: Simulation Study of Porphyrin in a Molecular Junction. <i>Nano Letters</i> , 2008, 8, 1137-1141.	4.5	20
13	Globally coupled stochastic two-state oscillators: Fluctuations due to finite numbers. <i>Physical Review E</i> , 2014, 89, 052143.	0.8	20
14	Nonequilibrium superoperator GW equations. <i>Journal of Chemical Physics</i> , 2006, 124, 044106.	1.2	19
15	Nonequilibrium superoperator Green's function approach to inelastic resonances in STM currents. <i>Physical Review B</i> , 2006, 73, .	1.1	17
16	Coherent (photon) vs incoherent (current) detection of multidimensional optical signals from single molecules in open junctions. <i>Journal of Chemical Physics</i> , 2015, 142, 212445.	1.2	12
17	Frequency-domain stimulated and spontaneous light emission signals at molecular junctions. <i>Journal of Chemical Physics</i> , 2014, 141, 074107.	1.2	11
18	Electroluminescence in Molecular Junctions: A Diagrammatic Approach. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4304-4315.	2.3	11

#	ARTICLE	IF	CITATIONS
19	Conductance Bistability in a Single Porphyrin Molecule in a STM Junction: A Many-Body Simulation Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9516-9521.	1.5	10
20	Geometric effects in nonequilibrium electron transfer statistics in adiabatically driven quantum junctions. <i>Physical Review B</i> , 2016, 93, .	1.1	10
21	Title is missing!. <i>Journal of Statistical Physics</i> , 2003, 112, 1109-1125.	0.5	9
22	An integral fluctuation theorem for systems with unidirectional transitions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P10044.	0.9	9
23	Dynamics of chemical bond: general discussion. <i>Faraday Discussions</i> , 2015, 177, 121-154.	1.6	8
24	Electron transfer statistics and thermal fluctuations in molecular junctions. <i>Journal of Chemical Physics</i> , 2015, 142, 084106.	1.2	8
25	Statistics of heat transport across a capacitively coupled double quantum dot circuit. <i>Physical Review B</i> , 2019, 99, .	1.1	8
26	Controlling local currents in molecular junctions. <i>Physical Review B</i> , 2016, 94, .	1.1	7
27	Comment on "Universal Scaling Laws of Diffusion in a Binary Fluid Mixture": <i>Physical Review Letters</i> , 2003, 91, 229601; discussion 229602.	2.9	6
28	Structural relaxation and frequency-dependent specific heat in a supercooled liquid. <i>Physical Review E</i> , 2001, 64, 046122.	0.8	5
29	Large deviation function and fluctuation theorem for classical particle transport. <i>Physical Review E</i> , 2014, 89, 012141.	0.8	5
30	Model for viscoelasticity in a binary mixture. <i>Journal of Chemical Physics</i> , 2002, 117, 9844-9849.	1.2	3
31	SECONDARY RELAXATION IN A SUPERCOOLED BINARY MIXTURE. <i>International Journal of Modern Physics B</i> , 2003, 17, 2395-2415.	1.0	3
32	Memory induced anomalous dynamics in a random walker with internal states. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 103207.	0.9	2
33	Spontaneous Light Emission from Molecular Junctions: Theoretical Analysis of Upconversion Signal. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10594-10598.	1.1	2
34	Energy, Particle, and Photon Fluxes in Molecular Junctions. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1762-1766.	2.1	2
35	Structural relaxation in quantum supercooled liquids: A mode-coupling approach. <i>Journal of Chemical Physics</i> , 2021, 154, 014502.	1.2	2
36	Tagged particle dynamics in supercooled quantum liquids. <i>Physical Review E</i> , 2022, 105, .	0.8	2

#	ARTICLE	IF	CITATIONS
37	A SIMPLE MODEL FOR DYNAMIC HETEROGENEITIES IN A SUPERCOOLED LIQUID. International Journal of Modern Physics B, 2004, 18, 1299-1307.	1.0	1
38	Descending from infinity: Convergence of tailed distributions. Physical Review E, 2015, 91, 012128.	0.8	1
39	Response to "Comment on "Frequency-domain stimulated and spontaneous light emission signals at molecular junctions" [J. Chem. Phys. 142, 137101 (2015)]. Journal of Chemical Physics, 2015, 142, 137102.	1.2	1
40	Current in nanojunctions: Effects of reservoir coupling. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 101, 224-231.	1.3	1
41	A memory-based random walk model to understand diffusion in crowded heterogeneous environment. International Journal of Modern Physics B, 2018, 32, 1850193.	1.0	1
42	The Photoionization Time in $\pi$ -Conjugated Molecular Systems. Journal of Physical Chemistry A, 2020, 124, 5770-5774.	1.1	1
43	Photo-Ionization Time Delay in Linearly Extended $\pi$ -Conjugated Molecular Systems. Journal of Physical Chemistry A, 2021, 125, 8417-8425.	1.1	1
44	Dynamics of transient cages in a model 2D supercooled liquid. International Journal of Modern Physics B, 2022, 36, .	1.0	1
45	Structural Relaxation in a Binary Mixture. Progress of Theoretical Physics Supplement, 2005, 157, 172-175.	0.2	0
46	Frequency-dependent specific heat in quantum supercooled liquids: A mode-coupling study. Journal of Chemical Physics, 2021, 154, 164512.	1.2	0