

upendra Harbola

List of Publications by Citations

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44
papers

1,505
citations

15
h-index

38
g-index

47
ext. papers

1,681
ext. citations

4
avg, IF

4.72
L-index

#	Paper	IF	Citations
44	Nonequilibrium fluctuations, fluctuation theorems, and counting statistics in quantum systems. <i>Reviews of Modern Physics</i> , 2009 , 81, 1665-1702	40.5	842
43	Quantum master equation for electron transport through quantum dots and single molecules. <i>Physical Review B</i> , 2006 , 74,	3.3	187
42	Nonlinear optical spectroscopy of single, few, and many molecules; nonequilibrium Green's function QED approach. <i>Physical Review A</i> , 2008 , 77, 22110	2.6	51
41	Heat fluctuations and coherences in a quantum heat engine. <i>Physical Review A</i> , 2012 , 86,	2.6	46
40	Quantum heat engines: A thermodynamic analysis of power and efficiency. <i>Europhysics Letters</i> , 2012 , 99, 50005	1.6	39
39	Thermodynamics of quantum heat engines. <i>Physical Review A</i> , 2013 , 88,	2.6	34
38	Statistics and fluctuation theorem for boson and fermion transport through mesoscopic junctions. <i>Physical Review B</i> , 2007 , 76,	3.3	27
37	Many-body theory of current-induced fluorescence in molecular junctions. <i>Physical Review B</i> , 2006 , 73,	3.3	23
36	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, 6329-38 ^{2.8}	2.8	23
35	Globally coupled stochastic two-state oscillators: fluctuations due to finite numbers. <i>Physical Review E</i> , 2014 , 89, 052143	2.4	20
34	Memory-induced anomalous dynamics in a minimal random walk model. <i>Physical Review E</i> , 2014 , 90, 022136	2.4	20
33	Single-electron counting spectroscopy: simulation study of porphyrin in a molecular junction. <i>Nano Letters</i> , 2008 , 8, 1137-41	11.5	19
32	Model for glass transition in a binary fluid from a mode coupling approach. <i>Physical Review E</i> , 2002 , 65, 036138	2.4	19
31	Nonequilibrium superoperator GW equations. <i>Journal of Chemical Physics</i> , 2006 , 124, 044106	3.9	18
30	Nonequilibrium superoperator Green's function approach to inelastic resonances in STM currents. <i>Physical Review B</i> , 2006 , 73,	3.3	17
29	Electroluminescence in Molecular Junctions: A Diagrammatic Approach. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 4304-15	6.4	11
28	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	3.9	11

27	Frequency-domain stimulated and spontaneous light emission signals at molecular junctions. <i>Journal of Chemical Physics</i> , 2014 , 141, 074107	3.9	11
26	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	3.8	9
25	Dynamics of chemical bond: general discussion. <i>Faraday Discussions</i> , 2015 , 177, 121-54	3.6	8
24	Dynamic Transition in a Binary Liquid and Its Dependence on the Mass-Ratio: Results from a Self Consistent Mode Coupling Model. <i>Journal of Statistical Physics</i> , 2003 , 112, 1109-1125	1.5	8
23	Electron transfer statistics and thermal fluctuations in molecular junctions. <i>Journal of Chemical Physics</i> , 2015 , 142, 084106	3.9	7
22	Controlling local currents in molecular junctions. <i>Physical Review B</i> , 2016 , 94,	3.3	7
21	Geometric effects in nonequilibrium electron transfer statistics in adiabatically driven quantum junctions. <i>Physical Review B</i> , 2016 , 93,	3.3	7
20	An integral fluctuation theorem for systems with unidirectional transitions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P10044	1.9	7
19	Statistics of heat transport across a capacitively coupled double quantum dot circuit. <i>Physical Review B</i> , 2019 , 99,	3.3	5
18	Large deviation function and fluctuation theorem for classical particle transport. <i>Physical Review E</i> , 2014 , 89, 012141	2.4	5
17	Comment on "Universal scaling laws of diffusion in a binary fluid mixture". <i>Physical Review Letters</i> , 2003 , 91, 229601; discussion 229602	7.4	5
16	Structural relaxation and frequency-dependent specific heat in a supercooled liquid. <i>Physical Review E</i> , 2001 , 64, 046122	2.4	5
15	Model for viscoelasticity in a binary mixture. <i>Journal of Chemical Physics</i> , 2002 , 117, 9844-9849	3.9	3
14	SECONDARY RELAXATION IN A SUPERCOOLED BINARY MIXTURE. <i>International Journal of Modern Physics B</i> , 2003 , 17, 2395-2415	1.1	2
13	Memory induced anomalous dynamics in a random walker with internal states. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018 , 2018, 103207	1.9	2
12	Descending from infinity: convergence of tailed distributions. <i>Physical Review E</i> , 2015 , 91, 012128	2.4	1
11	Response to "Comment on 'Frequency-domain stimulated and spontaneous light emission signals at molecular junctions'" [J. Chem. Phys. 142, 137101 (2015)]. <i>Journal of Chemical Physics</i> , 2015 , 142, 137102	3.9	1
10	The Photoionization Time in π Conjugated Molecular Systems. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 5770-5774	2.8	1

9	Energy, Particle, and Photon Fluxes in Molecular Junctions. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1762-1766	6.4	1
8	Current in nanojunctions: Effects of reservoir coupling. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 101, 224-231	3	1
7	Spontaneous Light Emission from Molecular Junctions: Theoretical Analysis of Upconversion Signal. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 10594-10598	2.8	1
6	Structural relaxation in quantum supercooled liquids: A mode-coupling approach. <i>Journal of Chemical Physics</i> , 2021 , 154, 014502	3.9	1
5	A SIMPLE MODEL FOR DYNAMIC HETEROGENEITIES IN A SUPERCOOLED LIQUID. <i>International Journal of Modern Physics B</i> , 2004 , 18, 1299-1307	1.1	0
4	Structural Relaxation in a Binary Mixture. <i>Progress of Theoretical Physics Supplement</i> , 2005 , 157, 172-175		
3	Frequency-dependent specific heat in quantum supercooled liquids: A mode-coupling study. <i>Journal of Chemical Physics</i> , 2021 , 154, 164512	3.9	
2	A memory-based random walk model to understand diffusion in crowded heterogeneous environment. <i>International Journal of Modern Physics B</i> , 2018 , 32, 1850193	1.1	
1	Photo-Ionization Time Delay in Linearly Extended π -Conjugated Molecular Systems. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 8417-8425	2.8	