

# upendra Harbola

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,828  
citations

567281

15  
h-index

254184

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. Reviews of Modern Physics, 2009, 81, 1665-1702.   | 45.6 | 1,067     |
| 2  | Quantum master equation for electron transport through quantum dots and single molecules. Physical Review B, 2006, 74, .   | 3.2  | 203       |
| 3  | Heat fluctuations and coherences in a quantum heat engine. Physical Review A, 2012, 86, .  | 2.5  | 63        |
| 4  | Nonlinear optical spectroscopy of single, few, and many molecules: Nonequilibrium Green's function QED approach. Physical Review A, 2008, 77, 22110.   | 2.5  | 56        |
| 5  | Quantum heat engines: A thermodynamic analysis of power and efficiency. Europhysics Letters, 2012, 99, 50005.  | 2.0  | 49        |
| 6  | Thermodynamics of quantum heat engines. Physical Review A, 2013, 88, .   | 2.5  | 47        |
| 7  | Statistics and fluctuation theorem for boson and fermion transport through mesoscopic junctions. Physical Review B, 2007, 76, .  | 3.2  | 30        |
| 8  | Memory-induced anomalous dynamics in a minimal random walk model. Physical Review E, 2014, 90, 022136.   | 2.1  | 25        |
| 9  | Simulation of Single Molecule Inelastic Electron Tunneling Signals in Paraphenylene~Vinylene Oligomers and Distyrylbenzene[2.2]paracyclophanes. Journal of Physical Chemistry A, 2006, 110, 6329-6338. | 2.5  | 24        |
| 10 | Many-body theory of current-induced fluorescence in molecular junctions. Physical Review B, 2006, 73, .  | 3.2  | 23        |
| 11 | Model for glass transition in a binary fluid from a mode coupling approach. Physical Review E, 2002, 65, 036138.   | 2.1  | 22        |
| 12 | Single-Electron Counting Spectroscopy: Simulation Study of Porphyrin in a Molecular Junction. Nano Letters, 2008, 8, 1137-1141.  | 9.1  | 20        |
| 13 | Globally coupled stochastic two-state oscillators: Fluctuations due to finite numbers. Physical Review E, 2014, 89, 052143.  | 2.1  | 20        |
| 14 | Nonequilibrium superoperator GW equations. Journal of Chemical Physics, 2006, 124, 044106.   | 3.0  | 19        |
| 15 | Nonequilibrium superoperator Green's function approach to inelastic resonances in STM currents. Physical Review B, 2006, 73, .   | 3.2  | 17        |
| 16 | Coherent (photon) vs incoherent (current) detection of multidimensional optical signals from single molecules in open junctions. Journal of Chemical Physics, 2015, 142, 212445.                       | 3.0  | 12        |
| 17 | Frequency-domain stimulated and spontaneous light emission signals at molecular junctions. Journal of Chemical Physics, 2014, 141, 074107.   | 3.0  | 11        |
| 18 | Electroluminescence in Molecular Junctions: A Diagrammatic Approach. Journal of Chemical Theory and Computation, 2015, 11, 4304-4315.  | 5.3  | 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. | 3.1 | 10        |
| 20 | Geometric effects in nonequilibrium electron transfer statistics in adiabatically driven quantum junctions. <i>Physical Review B</i> , 2016, 93, .                     | 3.2 | 10        |
| 21 | Title is missing!. <i>Journal of Statistical Physics</i> , 2003, 112, 1109-1125.   | 1.2 | 9         |
| 22 | An integral fluctuation theorem for systems with unidirectional transitions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P10044.      | 2.3 | 9         |
| 23 | Dynamics of chemical bond: general discussion. <i>Faraday Discussions</i> , 2015, 177, 121-154.  | 3.2 | 8         |
| 24 | Electron transfer statistics and thermal fluctuations in molecular junctions. <i>Journal of Chemical Physics</i> , 2015, 142, 084106.                                  | 3.0 | 8         |
| 25 | Statistics of heat transport across a capacitively coupled double quantum dot circuit. <i>Physical Review B</i> , 2019, 99, .  | 3.2 | 8         |
| 26 | Controlling local currents in molecular junctions. <i>Physical Review B</i> , 2016, 94, .  | 3.2 | 7         |
| 27 | Comment on "Universal Scaling Laws of Diffusion in a Binary Fluid Mixture". <i>Physical Review Letters</i> , 2003, 91, 229601; discussion 229602.                      | 7.8 | 6         |
| 28 | Structural relaxation and frequency-dependent specific heat in a supercooled liquid. <i>Physical Review E</i> , 2001, 64, 046122.                                      | 2.1 | 5         |
| 29 | Large deviation function and fluctuation theorem for classical particle transport. <i>Physical Review E</i> , 2014, 89, 012141.  | 2.1 | 5         |
| 30 | Model for viscoelasticity in a binary mixture. <i>Journal of Chemical Physics</i> , 2002, 117, 9844-9849.  | 3.0 | 3         |
| 31 | SECONDARY RELAXATION IN A SUPERCOOLED BINARY MIXTURE. <i>International Journal of Modern Physics B</i> , 2003, 17, 2395-2415.  | 2.0 | 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.        | 2.3 | 2         |
| 33 | Spontaneous Light Emission from Molecular Junctions: Theoretical Analysis of Upconversion Signal. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10594-10598.     | 2.5 | 2         |
| 34 | Energy, Particle, and Photon Fluxes in Molecular Junctions. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1762-1766.  | 4.6 | 2         |
| 35 | Structural relaxation in quantum supercooled liquids: A mode-coupling approach. <i>Journal of Chemical Physics</i> , 2021, 154, 014502.                                | 3.0 | 2         |
| 36 | Tagged particle dynamics in supercooled quantum liquids. <i>Physical Review E</i> , 2022, 105, .   | 2.1 | 2         |

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|----|--|-----|-----------|
| 37 | A SIMPLE MODEL FOR DYNAMIC HETEROGENEITIES IN A SUPERCOOLED LIQUID. International Journal of Modern Physics B, 2004, 18, 1299-1307.  | 2.0 | 1         |
| 38 | Descending from infinity: Convergence of tailed distributions. Physical Review E, 2015, 91, 012128.  | 2.1 | 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. | 3.0 | 1         |
| 40 | Current in nanojunctions: Effects of reservoir coupling. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 101, 224-231.  | 2.7 | 1         |
| 41 | A memory-based random walk model to understand diffusion in crowded heterogeneous environment. International Journal of Modern Physics B, 2018, 32, 1850193.   | 2.0 | 1         |
| 42 | The Photoionization Time in $\pi$ -Conjugated Molecular Systems. Journal of Physical Chemistry A, 2020, 124, 5770-5774.  | 2.5 | 1         |
| 43 | Photo-Ionization Time Delay in Linearly Extended $\pi$ -Conjugated Molecular Systems. Journal of Physical Chemistry A, 2021, 125, 8417-8425.   | 2.5 | 1         |
| 44 | Dynamics of transient cages in a model 2D supercooled liquid. International Journal of Modern Physics B, 2022, 36, .   | 2.0 | 1         |
| 45 | Structural Relaxation in a Binary Mixture. Progress of Theoretical Physics Supplement, 2005, 157, 172-175.   | 0.1 | 0         |
| 46 | Frequency-dependent specific heat in quantum supercooled liquids: A mode-coupling study. Journal of Chemical Physics, 2021, 154, 164512.   | 3.0 | 0         |