RaÃºl A Bustos-MarÃºn

List of Publications by Year
in descending order

26 papers	361 citations	840776 11 h-index	794594 19 g-index
27 all docs	27 docs citations	27 times ranked	311 citing authors

#	Article	IF	Citations
1	Adiabatic Quantum Motors. Physical Review Letters, 2013, 111, 060802.	7.8	68
2	Crucial role of decoherence for electronic transport in molecular wires: Polyaniline as a case study. Physical Review B, 2010, 82, .	3.2	39
3	Dynamical regimes of a quantum SWAP gate beyond the Fermi golden rule. Physical Review A, 2008, 78, .	2.5	38
4	Generalized multi-terminal decoherent transport: recursive algorithms and applications to SASER and giant magnetoresistance. Journal of Physics Condensed Matter, 2014, 26, 345304.	1.8	25
5	Decoherence in current induced forces: Application to adiabatic quantum motors. Physical Review B, 2015, 92, .	3.2	23
6	Real-time diagrammatic approach to current-induced forces: Application to quantum-dot based nanomotors. Physical Review B, 2017, 96, .	3.2	20
7	Buffering plasmons in nanoparticle waveguides at the virtual-localized transition. Physical Review B, 2010, 82, .	3.2	19
8	Spaser and Optical Amplification Conditions in Gold-Coated Active Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 24941-24949.	3.1	18
9	Dynamics and decoherence in nonideal Thouless quantum motors. Physical Review B, 2017, 95, .	3.2	17
10	Thermodynamics and Steady State of Quantum Motors and Pumps Far from Equilibrium. Entropy, 2019, 21, 824.	2.2	15
11	Calculation of the conodont Color Alteration Index (CAI) for complex thermal histories. International Journal of Coal Geology, 2010, 82, 45-50.	5.0	12
12	Nonequilibrium current-induced forces caused by quantum localization: Anderson adiabatic quantum motors. Physical Review B, 2019, 99, .	3.2	11
13	Second virial coefficients of water beyond the conventional first-order quantum correction. Chemical Physics Letters, 2005, 405, 203-207.	2.6	7
14	Lasing Conditions of Transverse Electromagnetic Modes in Metallic-Coated Micro- and Nanotubes. Journal of Physical Chemistry C, 2019, , .	3.1	7
15	Role of coherence in quantum-dot-based nanomachines within the Coulomb blockade regime. Physical Review B, 2021, 103, .	3.2	7
16	Tailoring Optical Fields Emitted by Subwavelength Nanometric Sources. Plasmonics, 2014, 9, 925-934.	3.4	6
17	Entropy current and efficiency of quantum machines driven by nonequilibrium incoherent reservoirs. Physical Review B, 2020, 102, .	3.2	5
18	Geometric rectification for nanoscale vibrational energy harvesting. Physical Review B, 2018, 97, .	3.2	4

#	Article	IF	Citations
19	Current-induced forces in single-resonance systems. Journal of Physics Condensed Matter, 2021, 33, 175303.	1.8	4
20	Fitting complex potential energy surfaces to simple model potentials: Application of the simplex-annealing method. Journal of Computational Chemistry, 2005, 26, 523-531.	3.3	3
21	Excitation-Transfer Plasmonic Nanosensors Based on Dynamical Phase Transitions. Journal of Physical Chemistry C, 2012, 116, 18937-18943.	3.1	3
22	An efficient coarse-grained approach for the electron transport through large molecular systems under dephasing environment. European Physical Journal B, 2016, 89, 1.	1.5	3
23	Theoretical Analysis of Metallic-Nanodimer Thermoplasmonics for Phototactic Nanoswimmers. ACS Applied Nano Materials, 2020, 3, 1821-1829.	5.0	3
24	Accounting for the dependence of P(Eâ€²,E) on the maximum impact parameter in classical trajectory calculations: Application to the H2Oâ€“H2O collisional relaxation. Journal of Chemical Physics, 2007, 127, 154305.	3.0	2
25	Building transition probabilities for any condition using reduced cumulative energy transfer functions in H2Oâ€“H2O collisions. Journal of Chemical Physics, 2007, 126, 124305.	3.0	1
26	Plasmonic graded-chains as deep-subwavelength light concentrators. Journal of Physics Condensed Matter, 2015, 27, 125301.	1.8	1