

Obinna Abah

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7273212/publications.pdf>

Version: 2024-02-01

23
papers

1,567
citations

686830

13
h-index

610482

24
g-index

24
all docs

24
docs citations

24
times ranked

913
citing authors

#	ARTICLE	IF	CITATIONS
1	A single-atom heat engine. <i>Science</i> , 2016, 352, 325-329.	6.0	533
2	Single-Ion Heat Engine at Maximum Power. <i>Physical Review Letters</i> , 2012, 109, 203006.	2.9	362
3	Efficiency of heat engines coupled to nonequilibrium reservoirs. <i>Europhysics Letters</i> , 2014, 106, 20001.	0.7	127
4	Quantum thermodynamic devices: From theoretical proposals to experimental reality. <i>AVS Quantum Science</i> , 2022, 4, .	1.8	73
5	Energy efficient quantum machines. <i>Europhysics Letters</i> , 2017, 118, 40005.	0.7	69
6	Performance of shortcut-to-adiabaticity quantum engines. <i>Physical Review E</i> , 2018, 98, .	0.8	65
7	Quantum work statistics of linear and nonlinear parametric oscillators. <i>Chemical Physics</i> , 2010, 375, 200-208.	0.9	61
8	Optimal performance of a quantum Otto refrigerator. <i>Europhysics Letters</i> , 2016, 113, 60002.	0.7	61
9	Shortcut-to-adiabaticity Otto engine: A twist to finite-time thermodynamics. <i>Physical Review E</i> , 2019, 99, 022110.	0.8	48
10	Energetic cost of quantum control protocols. <i>New Journal of Physics</i> , 2019, 21, 103048.	1.2	32
11	Shortcut-to-adiabaticity quantum Otto refrigerator. <i>Physical Review Research</i> , 2020, 2, .	1.3	32
12	Quantum Otto engines at relativistic energies. <i>New Journal of Physics</i> , 2021, 23, 105001.	1.2	17
13	Critical quantum metrology with fully-connected models: from Heisenberg to Kibble-Zurek scaling. <i>Quantum Science and Technology</i> , 2022, 7, 035010.	2.6	17
14	Quantum State Engineering by Shortcuts to Adiabaticity in Interacting Spin-Boson Systems. <i>Physical Review Letters</i> , 2020, 124, 180401.	2.9	14
15	Measurement-based cooling of a nonlinear mechanical resonator. <i>Physical Review B</i> , 2020, 101, .	1.1	14
16	Implications of non-Markovian dynamics on information-driven engine. <i>Journal of Physics Communications</i> , 2020, 4, 085016.	0.5	10
17	Interband interactions and three-square-well potentials on the superconductivity of MgB ₂ . <i>Solid State Communications</i> , 2009, 149, 1510-1513.	0.9	7
18	Morphology and topology of dolostone lithons in the regional Carboneras Fault Zone, Southern Spain. <i>Journal of Structural Geology</i> , 2020, 137, 104073.	1.0	7

#	ARTICLE	IF	CITATIONS
19	Harnessing nonadiabatic excitations promoted by a quantum critical point: Quantum battery and spin squeezing. <i>Physical Review Research</i> , 2022, 4, .	1.3	6
20	Influence of linear-energy-dependent density of states on two-band superconductors: Three-square-well model approach. <i>Physica C: Superconductivity and Its Applications</i> , 2011, 471, 444-448.	0.6	4
21	Thermodynamic properties of the superconductivity in quasi-two-dimensional Dirac electronic systems. <i>European Physical Journal B</i> , 2011, 82, 47-52.	0.6	3
22	Theoretical investigation of isotope effect of the iron-based superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2013, 485, 71-74.	0.6	1
23	Effect of interband interactions on the pressure dependence on transition temperature of MgB ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2015, 519, 100-103.	0.6	1