

Michael Jack

List of Publications by Year in descending order

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57
papers

1,289
citations

393982

19
h-index

360668

35
g-index

57
all docs

57
docs citations

57
times ranked

1204
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Probe of Pairing in the BEC-BCS Crossover. <i>Physical Review Letters</i> , 2005, 95, 020404.	2.9	336
2	Coherent quantum tunneling between two Bose-Einstein condensates. <i>Physical Review A</i> , 1996, 54, R4625-R4628.	1.0	115
3	Analysis of greenhouse gas emissions in electricity systems using time-varying carbon intensity. <i>Journal of Cleaner Production</i> , 2018, 184, 1091-1101.	4.6	78
4	Decoherence due to Three-Body Loss and its Effect on the State of a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2002, 89, 140402.	2.9	54
5	Allocation of biomass resources for minimising energy system greenhouse gas emissions. <i>Energy</i> , 2014, 69, 506-515.	4.5	52
6	Scaling laws and technology development strategies for biorefineries and bioenergy plants. <i>Bioresource Technology</i> , 2009, 100, 6324-6330.	4.8	37
7	Thermodynamic analysis of lignocellulosic biofuel production via a biochemical process: Guiding technology selection and research focus. <i>Bioresource Technology</i> , 2011, 102, 2617-2622.	4.8	35
8	Bose-Hubbard model with attractive interactions. <i>Physical Review A</i> , 2005, 71, .	1.0	31
9	Thermodynamic optimization of a stratified thermal storage device. <i>Applied Thermal Engineering</i> , 2009, 29, 2344-2349.	3.0	30
10	Non-Markovian quantum trajectories for spectral detection. <i>Physical Review A</i> , 1999, 59, 2306-2321.	1.0	29
11	Markov approximation for the atomic output coupler. <i>Physical Review A</i> , 1999, 59, 2962-2973.	1.0	27
12	A minimal simulation of the electricity demand of a domestic hot water cylinder for smart control. <i>Applied Energy</i> , 2018, 211, 104-112.	5.1	27
13	Dissociation dynamics of a Bose-Einstein condensate of molecules. <i>Physical Review A</i> , 2005, 72, .	1.0	26
14	Spin structures of spin-1 bosonic atoms trapped in an optical lattice with harmonic confinement. <i>Physical Review A</i> , 2007, 76, .	1.0	23
15	Optimizing the enzyme loading and incubation time in enzymatic hydrolysis of lignocellulosic substrates. <i>Bioresource Technology</i> , 2013, 129, 33-38.	4.8	23
16	Continuous measurement and non-Markovian quantum trajectories. <i>Physical Review A</i> , 2000, 61, .	1.0	21
17	Resonance fluorescence in a band-gap material: Direct numerical simulation of non-Markovian evolution. <i>Physical Review A</i> , 2001, 63, .	1.0	21
18	Identifying residential daily electricity-use profiles through time-segmented regression analysis. <i>Energy and Buildings</i> , 2019, 194, 232-246.	3.1	20

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19	A mild thermomechanical process for the enzymatic conversion of radiata pine into fermentable sugars and lignin. <i>Biotechnology for Biofuels</i> , 2017, 10, 61.	6.2	19
20	Enhanced Kerr nonlinearity for self-action via atomic coherence in a four-level atomic system. <i>Optics Communications</i> , 2002, 214, 371-380.	1.0	16
21	Energy transfer in a molecular motor in the Kramers regime. <i>Physical Review E</i> , 2013, 88, 042114.	0.8	16
22	Asymmetrically pumped nondegenerate second-harmonic generation inside a cavity. <i>Physical Review A</i> , 1996, 53, 1801-1811.	1.0	15
23	Tight-binding approach to overdamped Brownian motion on a multidimensional tilted periodic potential. <i>Physical Review E</i> , 2013, 87, 052102.	0.8	15
24	Lightening the load: quantifying the potential for energy-efficient lighting to reduce peaks in electricity demand. <i>Energy Efficiency</i> , 2020, 13, 1105-1118.	1.3	15
25	Detailed comparison of energy-related time-use diaries and monitored residential electricity demand. <i>Energy and Buildings</i> , 2019, 183, 418-427.	3.1	13
26	Sizing domestic batteries for load smoothing and peak shaving based on real-world demand data. <i>Energy and Buildings</i> , 2021, 247, 111109.	3.1	13
27	A non-Markovian quantum trajectory approach to radiation into structured continuum. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 1999, 1, 452-458.	1.4	12
28	Efficiency improvements by geothermal heat integration in a lignocellulosic biorefinery. <i>Bioresource Technology</i> , 2010, 101, 9342-9347.	4.8	12
29	Signatures of the quantum fluctuations of cold atoms in an optical lattice in the three-body loss rate. <i>Physical Review A</i> , 2003, 67, .	1.0	11
30	Maximal entanglement of two spinor Bose-Einstein condensates. <i>Physical Review A</i> , 2005, 71, .	1.0	11
31	Does sugar yield drive lignocellulosic sugar cost? Case study for enzymatic hydrolysis of softwood with added polyethylene glycol. <i>Process Biochemistry</i> , 2019, 80, 103-111.	1.8	11
32	Effect of atom loss on collapse and revivals of phase coherence in small atomic samples. <i>Physical Review A</i> , 2003, 67, .	1.0	10
33	Thermodynamic analysis of a high-yield biochemical process for biofuel production. <i>Bioresource Technology</i> , 2012, 124, 406-412.	4.8	10
34	Intrinsic irreversibility limits the efficiency of multidimensional molecular motors. <i>Physical Review E</i> , 2016, 93, 052109.	0.8	10
35	Enhanced diffusion and the eigenvalue band structure of Brownian motion in tilted periodic potentials. <i>Physical Review E</i> , 2020, 102, 042405.	0.8	9
36	Thermodynamic uncertainty relations and molecular-scale energy conversion. <i>Physical Review E</i> , 2020, 101, 062123.	0.8	9

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37	Quantifying the trade-off between percentage of renewable supply and affordability in Pacific island countries: Case study of Samoa. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111468.	8.2	9
38	Analysing single-molecule trajectories to reconstruct free-energy landscapes of cyclic motor proteins. <i>Journal of Theoretical Biology</i> , 2019, 462, 321-328.	0.8	8
39	Dominant factors for targeted demand side management—An alternate approach for residential demand profiling in developing countries. <i>Sustainable Cities and Society</i> , 2021, 67, 102693.	5.1	8
40	Mott-insulator shells in the three-dimensional Bose-Hubbard model with harmonic confinement. <i>Physical Review A</i> , 2009, 79, .	1.0	7
41	Thermal fluctuation statistics in a molecular motor described by a multidimensional master equation. <i>Physical Review E</i> , 2013, 88, 062136.	0.8	6
42	Reconstructing free-energy landscapes for nonequilibrium periodic potentials. <i>Physical Review E</i> , 2018, 97, 032419.	0.8	5
43	Reducing electricity demand peaks on large-scale dairy farms. <i>Sustainable Production and Consumption</i> , 2021, 25, 248-258.	5.7	5
44	Enhanced squeezing due to the influence of two instabilities. <i>Physical Review A</i> , 1995, 51, 3318-3327.	1.0	4
45	On-demand single-photon state generation via nonlinear absorption. <i>Physical Review A</i> , 2004, 70, .	1.0	4
46	Tight-binding approach to overdamped Brownian motion on a bichromatic periodic potential. <i>Physical Review E</i> , 2016, 93, 022124.	0.8	4
47	Local discretization method for overdamped Brownian motion on a potential with multiple deep wells. <i>Physical Review E</i> , 2016, 94, 052127.	0.8	4
48	Reconstructing free-energy landscapes for cyclic molecular motors using full multidimensional or partial one-dimensional dynamic information. <i>Physical Review E</i> , 2019, 100, 012404.	0.8	4
49	The role of highly energy-efficient dwellings in enabling 100% renewable electricity. <i>Energy Policy</i> , 2021, 158, 112565.	4.2	4
50	Use of time-varying carbon intensity estimation to evaluate GHG emission reduction opportunities in electricity sector. , 2017, , .		2
51	Nonequilibrium master equation for interacting Brownian particles in a deep-well periodic potential. <i>Physical Review E</i> , 2022, 105, .	0.8	2
52	Self-induced temperature gradients in Brownian dynamics. <i>Physical Review E</i> , 2017, 96, 062130.	0.8	1
53	Molecular probe of the BCS/BEC crossover in ^6Li . , 0, , .		0
54	Conversion of a Degenerate Fermi Gas of ^6Li Atoms to a Molecular BEC. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0

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55	Magnetization process of spin-one bose gas in an optical lattice. , 2005, , .		0
56	Comparative analysis of monitored and self-reported data on electricity use. , 2017, , .		0
57	Thermodynamic Analysis and Potential Efficiency Improvements of a Biochemical Process for Lignocellulosic Biofuel Production. , 2011, , .		0