

Yonatan Dubi

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,199
citations

201674

27
h-index

149698

56
g-index

63
all docs

63
docs citations

63
times ranked

3258
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Colloquium</i> : Heat flow and thermoelectricity in atomic and molecular junctions. <i>Reviews of Modern Physics</i> , 2011, 83, 131-155.	45.6	708
2	Nature of the superconductor-insulator transition in disordered superconductors. <i>Nature</i> , 2007, 449, 876-880.	27.8	301
3	Thermospin effects in a quantum dot connected to ferromagnetic leads. <i>Physical Review B</i> , 2009, 79, .	3.2	164
4	Molecular rectifier composed of DNA with high rectification ratio enabled by intercalation. <i>Nature Chemistry</i> , 2016, 8, 484-490.	13.6	156
5	Thermoelectric Effects in Nanoscale Junctions. <i>Nano Letters</i> , 2009, 9, 97-101.	9.1	153
6	Hot electrons in metallic nanostructures non-thermal carriers or heating?. <i>Light: Science and Applications</i> , 2019, 8, 89.	16.6	135
7	Thermal effects an alternative mechanism for plasmon-assisted photocatalysis. <i>Chemical Science</i> , 2020, 11, 5017-5027.	7.4	135
8	Comment on Quantifying hot carrier and thermal contributions in plasmonic photocatalysis. <i>Science</i> , 2019, 364, .	12.6	108
9	Size Matters: Cocatalyst Size Effect on Charge Transfer and Photocatalytic Activity. <i>Nano Letters</i> , 2018, 18, 357-364.	9.1	91
10	Hybridization Wave as the Hidden Order in URu_2Si_2 Physical Review Letters, 2011, 106, 086401.	7.8	67
11	Negative differential conductance in molecular junctions: an overview of experiment and theory. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 263202.	1.8	67
12	Assistance of metal nanoparticles in photocatalysis nothing more than a classical heat source. <i>Faraday Discussions</i> , 2019, 214, 215-233.	3.2	67
13	Mechanical tuning of conductance and thermopower in helicene molecular junctions. <i>Nanoscale</i> , 2015, 7, 8793-8802.	5.6	66
14	Photoconductance from Exciton Binding in Molecular Junctions. <i>Journal of the American Chemical Society</i> , 2018, 140, 70-73.	13.7	64
15	Spinterface Origin for the Chirality-Induced Spin-Selectivity Effect. <i>Journal of the American Chemical Society</i> , 2021, 143, 14235-14241.	13.7	60
16	Theory of the magnetoresistance of disordered superconducting films. <i>Physical Review B</i> , 2006, 73, .	3.2	50
17	Tunneling into Clean Heavy Fermion Compounds: Origin of the Fano Line Shape. <i>Physical Review Letters</i> , 2010, 105, 246401.	7.8	49
18	How Kondo-holes create intense nanoscale heavy-fermion hybridization disorder. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18233-18237.	7.1	45

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19	Experimental practices required to isolate thermal effects in plasmonic photo-catalysis: lessons from recent experiments. <i>OSA Continuum</i> , 2020, 3, 483.	1.8	38
20	Driving denaturation: Nanoscale thermal transport as a probe of DNA melting. <i>Physical Review E</i> , 2011, 83, 050906.	2.1	37
21	Transport Through Self-Assembled Monolayer Molecular Junctions: Role of In-Plane Dephasing. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21119-21127.	3.1	37
22	Ramp-Reverse Memory and Phase Boundary Scarring in Transition Metal Oxides. <i>Advanced Materials</i> , 2017, 29, 1605029.	21.0	32
23	Recent developments in plasmon-assisted photocatalysis—A personal Perspective. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	32
24	Universal Origin for Environment-Assisted Quantum Transport in Exciton Transfer Networks. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1689-1695.	4.6	31
25	The Molecular Photo-Cell: Quantum Transport and Energy Conversion at Strong Non-Equilibrium. <i>Scientific Reports</i> , 2015, 5, 8312.	3.3	30
26	Enhanced Thermoelectric Performance of Hybrid Nanoparticle-Single-Molecule Junctions. <i>Physical Review Applied</i> , 2015, 3, .	3.8	30
27	Crossover behavior of the thermal conductance and Kramers™ transition rate theory. <i>Scientific Reports</i> , 2015, 5, 17506.	3.3	28
28	Unifying Model for Several Classes of Two-Dimensional Phase Transition. <i>Physical Review Letters</i> , 2005, 94, 156406.	7.8	27
29	Tunable thermal switching via DNA-based nano-devices. <i>Nanotechnology</i> , 2013, 24, 095704.	2.6	23
30	Island formation in disordered superconducting thin films at finite magnetic fields. <i>Physical Review B</i> , 2008, 78, .	3.2	21
31	Effects of disorder and interactions in environment assisted quantum transport. <i>Physical Review Research</i> , 2020, 2, .	3.6	21
32	Microwave-mediated heat transport in a quantum dot attached to leads. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 145301.	1.8	20
33	Topological quantization of energy transport in micromechanical and nanomechanical lattices. <i>Physical Review B</i> , 2018, 97, .	3.2	20
34	Local Electronic Structure and Fano Interference in Tunneling into a Kondo Hole System. <i>Physical Review Letters</i> , 2012, 108, 186401.	7.8	19
35	Do photosynthetic complexes use quantum coherence to increase their efficiency? Probably not. <i>Science Advances</i> , 2021, 7, .	10.3	19
36	Possible origin of thermoelectric response fluctuations in single-molecule junctions. <i>New Journal of Physics</i> , 2013, 15, 105004.	2.9	17

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37	Thermal transport in dimerized harmonic lattices: Exact solution, crossover behavior, and extended reservoirs. <i>Physical Review E</i> , 2017, 95, 012137.	2.1	17
38	Nonmonotonic thermoelectric currents and energy harvesting in interacting double quantum dots. <i>Physical Review B</i> , 2019, 99, .	3.2	16
39	Theory of "Hot" Photoluminescence from Drude Metals. <i>ACS Nano</i> , 2021, 15, 8724-8732.	14.6	15
40	Quantum Hall criticality, superconductor-insulator transition, and quantum percolation. <i>Physical Review B</i> , 2005, 71, .	3.2	14
41	Quantum transport under ac drive from the leads: A Redfield quantum master equation approach. <i>Physical Review B</i> , 2017, 96, .	3.2	14
42	Signatures of discrete time-crystallinity in transport through an open Fermionic chain. <i>Communications Physics</i> , 2022, 5, .	5.3	14
43	Interplay between Dephasing and Geometry and Directed Heat Flow in Exciton Transfer Complexes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25252-25259.	3.1	13
44	Distinguishing thermal from non-thermal contributions to plasmonic hydrodefluorination. <i>Nature Catalysis</i> , 2022, 5, 244-246.	34.4	13
45	The effect of fluctuations, thermal and otherwise, on the temperature dependence of thermopower in aromatic chain single-molecule junctions. <i>Journal of Chemical Physics</i> , 2013, 138, 114706.	3.0	11
46	A charge density wave in the hidden order state of URu ₂ Si ₂ . <i>Journal of Physics Condensed Matter</i> , 2011, 23, 094214.	1.8	10
47	Dynamical coupling and negative differential resistance from interactions across the molecule-electrode interface in molecular junctions. <i>Journal of Chemical Physics</i> , 2013, 139, 154710.	3.0	10
48	Large Tunable Thermophase in Superconductor "Quantum Dot" Superconductor Josephson Junctions. <i>Scientific Reports</i> , 2016, 6, 35116.	3.3	10
49	Distinguishing Thermal from Nonthermal ("Hot") Carriers in Illuminated Molecular Junctions. <i>Nano Letters</i> , 2022, 22, 2127-2133.	9.1	10
50	Information compressibility, entropy variation and approach to steady state in open systems. <i>Europhysics Letters</i> , 2009, 85, 40004.	2.0	9
51	Vibration-Assisted and Vibration-Hampered Excitonic Quantum Transport. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3143-3148.	4.6	9
52	Local current distribution and hot spots in the integer quantum Hall regime. <i>Physical Review B</i> , 2006, 74, .	3.2	7
53	Reply to the "Comment on "Thermal effects" an alternative mechanism for plasmon-assisted photocatalysis" by P. Jain, <i>Chem. Sci.</i> , 2020, 11, DOI: 10.1039/D0SC02914A. <i>Chemical Science</i> , 2020, 11, 9024-9025.		7
54	Photothermal nonlinearity in plasmon-assisted photocatalysis. <i>Nanoscale</i> , 2022, 14, 5022-5032.	5.6	7

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55	Emergence and Dynamical Stability of a Charge Time-Crystal in a Current-Carrying Quantum Dot Simulator. Nano Letters, 2022, , .	9.1	6
56	Impurity-Induced Bound States and Proximity Effect in a Bilayer Exciton Condensate. Physical Review Letters, 2010, 104, 166802.	7.8	5
57	Pair correlations and the survival of superconductivity in and around a superconducting impurity. Physical Review B, 2007, 75, .	3.2	3
58	Superconducting islands, phase fluctuations and the superconductor-insulator transition. Physica C: Superconductivity and Its Applications, 2008, 468, 354-357.	1.2	1
59	Environment-Assisted and Environment-Hampered Efficiency at Maximum Power in a Molecular Photocell. Journal of Physical Chemistry C, 2020, 124, 15115-15122.	3.1	1
60	A two phase harmonic model for left ventricular function. Medical Engineering and Physics, 2007, 29, 984-988.	1.7	0