

Michael A Sentef

List of Publications by Year in descending order

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74
papers

2,935
citations

159585

30
h-index

168389

53
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74
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74
docs citations

74
times ranked

2131
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent Modulation of Quasiparticle Scattering Rates in a Photoexcited Charge-Density-Wave System. <i>Physical Review Letters</i> , 2022, 128, 026406.	7.8	5
2	Cavity quantum materials. <i>Applied Physics Reviews</i> , 2022, 9, .	11.3	65
3	Cavity engineering of Hubbard U via phonon polaritons. <i>JPhys Materials</i> , 2022, 5, 024006.	4.2	5
4	Nonequilibrium phase transition in a driven-dissipative quantum antiferromagnet. <i>Physical Review Research</i> , 2022, 4, .	3.6	1
5	Role of stochastic noise and generalization error in the time propagation of neural-network quantum states. <i>SciPost Physics</i> , 2022, 12, .	4.9	9
6	Polaritonic Hofstadter butterfly and cavity control of the quantized Hall conductance. <i>Physical Review B</i> , 2022, 105, .	3.2	20
7	Quantum Floquet engineering with an exactly solvable tight-binding chain in a cavity. <i>Communications Physics</i> , 2022, 5, .	5.3	16
8	Analytical solution for the steady states of the driven Hubbard model. <i>Physical Review B</i> , 2021, 103, .	3.2	9
9	Spin-Wave Doppler Shift by Magnon Drag in Magnetic Insulators. <i>Physical Review Letters</i> , 2021, 126, 137202.	7.8	7
10	Optical manipulation of domains in chiral topological superconductors. <i>Physical Review Research</i> , 2021, 3, .	3.6	9
11	Ultrafast dynamical Lifshitz transition. <i>Science Advances</i> , 2021, 7, .	10.3	38
12	The 2021 ultrafast spectroscopic probes of condensed matter roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 353001.	1.8	55
13	Light-matter coupling and quantum geometry in moiré materials. <i>Physical Review B</i> , 2021, 104, .	3.2	29
14	Nematicity Arising from a Chiral Superconducting Ground State in Magic-Angle Twisted Bilayer Graphene under In-Plane Magnetic Fields. <i>Physical Review Letters</i> , 2021, 127, 127001.	7.8	13
15	All-optical generation of antiferromagnetic magnon currents via the magnon circular photogalvanic effect. <i>Physical Review B</i> , 2021, 104, .	3.2	10
16	Theory of subcycle time-resolved photoemission: Application to terahertz photodressing in graphene. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021, 253, 147121.	1.7	7
17	<i>Colloquium:</i> Nonthermal pathways to ultrafast control in quantum materials. <i>Reviews of Modern Physics</i> , 2021, 93, .	45.6	175
18	Direct detection of odd-frequency superconductivity via time- and angle-resolved photoelectron fluctuation spectroscopy. <i>Physical Review Research</i> , 2021, 3, .	3.6	4

#	ARTICLE	IF	CITATIONS
19	How Circular Dichroism in Time- and Angle-Resolved Photoemission Can Be Used to Spectroscopically Detect Transient Topological States in Graphene. <i>Physical Review X</i> , 2020, 10, .	8.9	29
20	Quantum walk versus classical wave: Distinguishing ground states of quantum magnets by spacetime dynamics. <i>Physical Review B</i> , 2020, 102, .	3.2	4
21	Photomolecular High-Temperature Superconductivity. <i>Physical Review X</i> , 2020, 10, .	8.9	59
22	Dynamical Order and Superconductivity in a Frustrated Many-Body System. <i>Physical Review Letters</i> , 2020, 125, 137001.	7.8	29
23	Magnon trap by chiral spin pumping. <i>Physical Review B</i> , 2020, 102, .	3.2	18
24	Ultrafast transient absorption spectroscopy of the charge-transfer insulator NiO: Beyond the dynamical Franz-Keldysh effect. <i>Physical Review B</i> , 2020, 102, .	3.2	12
25	Electron-phonon-driven three-dimensional metallicity in an insulating cuprate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6409-6416.	7.1	18
26	Local Berry curvature signatures in dichroic angle-resolved photoelectron spectroscopy from two-dimensional materials. <i>Science Advances</i> , 2020, 6, eaay2730.	10.3	57
27	Atomic forces mapped out by lasers. <i>Nature</i> , 2020, 583, 35-36.	27.8	2
28	Comparing the generalized Kadanoff-Baym ansatz with the full Kadanoff-Baym equations for an excitonic insulator out of equilibrium. <i>Physical Review B</i> , 2020, 102, .	3.2	22
29	Quantum to classical crossover of Floquet engineering in correlated quantum systems. <i>Physical Review Research</i> , 2020, 2, .	3.6	37
30	Light-induced topological magnons in two-dimensional van der Waals magnets. <i>SciPost Physics</i> , 2020, 9, .	4.9	18
31	Resonant laser excitation and time-domain imaging of chiral topological polariton edge states. <i>Physical Review Research</i> , 2020, 2, .	3.6	3
32	Light-induced d -wave superconductivity through Floquet-engineered Fermi surfaces in cuprates. <i>Physical Review B</i> , 2019, 100, .	3.2	20
33	Charge Density Wave Melting in One-Dimensional Wires with Femtosecond Subgap Excitation. <i>Physical Review Letters</i> , 2019, 123, 036405.	7.8	13
34	Quantum Electrodynamical Bloch Theory with Homogeneous Magnetic Fields. <i>Physical Review Letters</i> , 2019, 123, 047202.	7.8	30
35	Electron Traversal Times in Disordered Graphene Nanoribbons. <i>Entropy</i> , 2019, 21, 737.	2.2	8
36	Cavity quantum electrodynamical Chern insulator: Towards light-induced quantized anomalous Hall effect in graphene. <i>Physical Review B</i> , 2019, 99, .	3.2	46

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37	Distinguishing Majorana zero modes from impurity states through time-resolved transport. <i>New Journal of Physics</i> , 2019, 21, 103038.	2.9	19
38	Floquet-engineered light-cone spreading of correlations in a driven quantum chain. <i>Physical Review B</i> , 2019, 100, .	3.2	6
39	Light-induced anomalous Hall effect in massless Dirac fermion systems and topological insulators with dissipation. <i>New Journal of Physics</i> , 2019, 21, 093005.	2.9	34
40	Universal optical control of chiral superconductors and Majorana modes. <i>Nature Physics</i> , 2019, 15, 766-770.	16.7	48
41	Time-resolved impurity-invisibility in graphene nanoribbons. <i>Nanoscale</i> , 2019, 11, 12296-12304.	5.6	7
42	Microscopic theory for the light-induced anomalous Hall effect in graphene. <i>Physical Review B</i> , 2019, 99, .	3.2	117
43	Density-Matrix Embedding Theory Study of the One-Dimensional Hubbard-Holstein Model. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2221-2232.	5.3	22
44	Efficient computation of the second-Born self-energy using tensor-contraction operations. <i>Journal of Chemical Physics</i> , 2019, 151, 174110.	3.0	7
45	Adiabatic Preparation of a Correlated Symmetry-Broken Initial State with the Generalized Kadanoff-Baym Ansatz. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800469.	1.5	17
46	Topological Floquet engineering of twisted bilayer graphene. <i>Physical Review Research</i> , 2019, 1, .	3.6	56
47	Transient Charge and Energy Flow in the Wide-Band Limit. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2495-2504.	5.3	34
48	All-optical nonequilibrium pathway to stabilising magnetic Weyl semimetals in pyrochlore iridates. <i>Nature Communications</i> , 2018, 9, 4452.	12.8	38
49	Cavity quantum-electrodynamical polaritonically enhanced electron-phonon coupling and its influence on superconductivity. <i>Science Advances</i> , 2018, 4, eaau6969.	10.3	140
50	Quantum nonlinear phononics route towards nonequilibrium materials engineering: Melting dynamics of a ferroelectric charge density wave. <i>Physical Review B</i> , 2018, 98, .	3.2	6
51	Ultrafast Modification of Hubbard U in a Strongly Correlated Material: Ab Initio High-Harmonic Generation in NiO. <i>Physical Review Letters</i> , 2018, 121, 097402.	7.8	118
52	Creating stable Floquet Weyl semimetals by laser-driving of 3D Dirac materials. <i>Nature Communications</i> , 2017, 8, 13940.	12.8	255
53	Theory of Laser-Controlled Competing Superconducting and Charge Orders. <i>Physical Review Letters</i> , 2017, 118, 087002.	7.8	74
54	Enhanced electron-phonon coupling in graphene with periodically distorted lattice. <i>Physical Review B</i> , 2017, 95, .	3.2	45

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55	Light-enhanced electron-phonon coupling from nonlinear electron-phonon coupling. Physical Review B, 2017, 95, .	3.2	80
56	Review of the Theoretical Description of Time-Resolved Angle-Resolved Photoemission Spectroscopy in Electron-Phonon Mediated Superconductors. Annalen Der Physik, 2017, 529, 1600235.	2.4	41
57	Energy dissipation from a correlated system driven out of equilibrium. Nature Communications, 2016, 7, 13761.	12.8	63
58	Theory of light-enhanced phonon-mediated superconductivity. Physical Review B, 2016, 93, .	3.2	119
59	Direct observation of Higgs mode oscillations in the pump-probe photoemission spectra of electron-phonon mediated superconductors. Physical Review B, 2015, 92, .	3.2	78
60	Gauge invariance in the theoretical description of time-resolved angle-resolved pump/probe photoemission spectroscopy. Physica Scripta, 2015, T165, 014012.	2.5	17
61	Theory of Floquet band formation and local pseudospin textures in pump-probe photoemission of graphene. Nature Communications, 2015, 6, 7047.	12.8	203
62	Publisher's Note: Effect of dynamical spectral weight redistribution on effective interactions in time-resolved spectroscopy [Phys. Rev. B, 075126 (2014)]. Physical Review B, 2014, 90, .	3.2	0
63	Effect of dynamical spectral weight redistribution on effective interactions in time-resolved spectroscopy. Physical Review B, 2014, 90, .	3.2	45
64	Examining Electron-Boson Coupling Using Time-Resolved Spectroscopy. Physical Review X, 2013, 3, .	8.9	82
65	Electron-Mediated Relaxation Following Ultrafast Pumping of Strongly Correlated Materials: Model Evidence of a Correlation-Tuned Crossover between Thermal and Nonthermal States. Physical Review Letters, 2013, 111, 077401.	7.8	27
66	Mapping of unoccupied states and relevant bosonic modes via the time-dependent momentum distribution. Physical Review B, 2013, 87, .	3.2	36
67	Doping evolution of the oxygen K -edge x-ray absorption spectra of cuprate superconductors using a three-orbital Hubbard model. Physical Review B, 2013, 87, .	3.2	25
68	Charge and spin criticality for the continuous Mott transition in a two-dimensional organic conductor. Physical Review B, 2011, 84, .	3.2	14
69	Superconducting Phase and Pairing Fluctuations in the Half-Filled Two-Dimensional Hubbard Model. Physical Review Letters, 2011, 107, 126401.	7.8	28
70	Material-Specific Investigations of Correlated Electron Systems. , 2010, , 599-612.		0
71	Correlations in a band insulator. Physical Review B, 2009, 80, .	3.2	41
72	Spin transport in Heisenberg antiferromagnets in two and three dimensions. Physical Review B, 2007, 75, .	3.2	74

#	ARTICLE	IF	CITATIONS
73	Focusing quantum states on surfaces: A route towards the design of ultrasmall electronic devices. Physical Review B, 2006, 74, .	3.2	11
74	Lieb's Theorem and Maximum Entropy Condensates. Quantum - the Open Journal for Quantum Science, 0, 5, 610.	0.0	6