Zhiyuan Sun

List of Publications by Year
in descending order

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34	1,425	394286	395590
papers	citations	19 h-index	33 g-index

37	37	37	1904
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exploring nonequilibrium phases of photo-doped Mott insulators with generalized Gibbs ensembles. Communications Physics, 2022, 5, .	2.0	10
2	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides. Nature Communications, 2022, 13, 542.	5.8	23
3	Rapid simulations of hyperspectral near-field images of three-dimensional heterogeneous surfaces â€“ part II. Optics Express, 2022, 30, 11228.	1.7	12
4	Graphene as a source of entangled plasmons. Physical Review Research, 2022, 4, .	1.3	4
5	Surface plasmons induce topological transition in graphene/Î±-MoO3 heterostructures. Nature Communications, 2022, 13, .	5.8	30
6	Hyperbolic Cooper-Pair Polaritons in Planar Graphene/Cuprate Plasmonic Cavities. Nano Letters, 2021, 21, 308-316.	4.5	13
7	Topological Charge Pumping in Excitonic Insulators. Physical Review Letters, 2021, 126, 027601.	2.9	10
8	Fizeau drag in graphene plasmonics. Nature, 2021, 594, 513-516.	13.7	57
9	Long-Lived Phonon Polaritons in Hyperbolic Materials. Nano Letters, 2021, 21, 5767-5773.	4.5	38
10	Terahertz response of monolayer and few-layer WTe2 at the nanoscale. Nature Communications, 2021, 12, 5594.	5.8	29
11	Second-Order Josephson Effect in Excitonic Insulators. Physical Review Letters, 2021, 127, 127702.	2.9	12
12	Bulk Photovoltaic Effect Driven by Collective Excitations in a Correlated Insulator. Physical Review Letters, 2021, 127, 127402.	2.9	16
13	Deep Learning Analysis of Polaritonic Wave Images. ACS Nano, 2021, 15, 18182-18191.	7.3	10
14	Polaritonic Vortices with a Half-Integer Charge. Nano Letters, 2021, 21, 9256-9261.	4.5	13
15	A compact device sustains a fluid of bosons. Nature, 2021, 598, 571-572.	13.7	0
16	Nonlinear nanoelectrodynamics of a Weyl metal. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
17	Femtosecond exciton dynamics in WSe2 optical waveguides. Nature Communications, 2020, 11, 3567.	5.8	31
18	Charge-Transfer Plasmon Polaritons at Graphene/Î±-RuCl₃ Interfaces. Nano Letters, 2020, 20, 8438-8445.	4.5	53

#	Article	IF	Citations
19	Transient Trapping into Metastable States in Systems with Competing Orders. Physical Review X, 2020, 10, .	2.8	30
20	Nonlinear Spectroscopy of Collective Modes in an Excitonic Insulator. Physical Review Letters, 2020, 125, 257601.	2.9	13
21	Pump-induced motion of an interface between competing orders. Physical Review B, 2020, 101, .	1.1	3
22	Electronic correlations in nodal-line semimetals. Nature Physics, 2020, 16, 636-641.	6.5	86
23	Bardasis-Schrieffer polaritons in excitonic insulators. Physical Review B, 2020, 102, .	1.1	15
24	Collective modes and terahertz near-field response of superconductors. Physical Review Research, 2020, 2, .	1.3	38
25	Photoenhanced metastable c-axis electrodynamics in stripe-ordered cuprate La _{1.885} Ba _{0.115} CuO ₄. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19875-19879.	3.3	51
26	Optical signatures of Dirac nodal lines in NbAs ₂. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1168-1173.	3.3	60
27	Third-order optical conductivity of an electron fluid. Physical Review B, 2018, 97, .	1.1	16
28	Nanoscale Mapping and Spectroscopy of Nonradiative Hyperbolic Modes in Hexagonal Boron Nitride Nanostructures. Nano Letters, 2018, 18, 1628-1636.	4.5	55
29	Universal linear and nonlinear electrodynamics of a Dirac fluid. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3285-3289.	3.3	37
30	Fundamental limits to graphene plasmonics. Nature, 2018, 557, 530-533.	13.7	401
31	Efficiency of Launching Highly Confined Polaritons by Infrared Light Incident on a Hyperbolic Material. Nano Letters, 2017, 17, 5285-5290.	4.5	79
32	Imaging of Anomalous Internal Reflections of Hyperbolic Phonon-Polaritons in Hexagonal Boron Nitride. Nano Letters, 2016, 16, 3858-3865.	4.5	106
33	Adiabatic Amplification of Plasmons and Demons in 2D Systems. Physical Review Letters, 2016, 117, 076805.	2.9	26
34	Hamiltonian Optics of Hyperbolic Polaritons in Nanogranules. Nano Letters, 2015, 15, 4455-4460.	4.5	32