

Zhiyuan Sun

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,425
citations

394286

19
h-index

395590

33
g-index

37
all docs

37
docs citations

37
times ranked

1904
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamental limits to graphene plasmonics. <i>Nature</i> , 2018, 557, 530-533.	13.7	401
2	Imaging of Anomalous Internal Reflections of Hyperbolic Phonon-Polaritons in Hexagonal Boron Nitride. <i>Nano Letters</i> , 2016, 16, 3858-3865.	4.5	106
3	Electronic correlations in nodal-line semimetals. <i>Nature Physics</i> , 2020, 16, 636-641.	6.5	86
4	Efficiency of Launching Highly Confined Polaritons by Infrared Light Incident on a Hyperbolic Material. <i>Nano Letters</i> , 2017, 17, 5285-5290.	4.5	79
5	Optical signatures of Dirac nodal lines in NbAs ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1168-1173.	3.3	60
6	Fizeau drag in graphene plasmonics. <i>Nature</i> , 2021, 594, 513-516.	13.7	57
7	Nanoscale Mapping and Spectroscopy of Nonradiative Hyperbolic Modes in Hexagonal Boron Nitride Nanostructures. <i>Nano Letters</i> , 2018, 18, 1628-1636.	4.5	55
8	Charge-Transfer Plasmon Polaritons at Graphene/ $\sqrt{3}\times\sqrt{3}$ -RuCl ₃ Interfaces. <i>Nano Letters</i> , 2020, 20, 8438-8445.	4.5	53
9	Photoenhanced metastable c-axis electrodynamics in stripe-ordered cuprate La _{1.885} Ba _{0.115} CuO ₄ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19875-19879.	3.3	51
10	Long-Lived Phonon Polaritons in Hyperbolic Materials. <i>Nano Letters</i> , 2021, 21, 5767-5773.	4.5	38
11	Collective modes and terahertz near-field response of superconductors. <i>Physical Review Research</i> , 2020, 2, .	1.3	38
12	Universal linear and nonlinear electrodynamics of a Dirac fluid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3285-3289.	3.3	37
13	Hamiltonian Optics of Hyperbolic Polaritons in Nanogranules. <i>Nano Letters</i> , 2015, 15, 4455-4460.	4.5	32
14	Femtosecond exciton dynamics in WSe ₂ optical waveguides. <i>Nature Communications</i> , 2020, 11, 3567.	5.8	31
15	Transient Trapping into Metastable States in Systems with Competing Orders. <i>Physical Review X</i> , 2020, 10, .	2.8	30
16	Surface plasmons induce topological transition in graphene/ $\sqrt{3}\times\sqrt{3}$ -MoO ₃ heterostructures. <i>Nature Communications</i> , 2022, 13, .	5.8	30
17	Terahertz response of monolayer and few-layer WTe ₂ at the nanoscale. <i>Nature Communications</i> , 2021, 12, 5594.	5.8	29
18	Adiabatic Amplification of Plasmons and Demons in 2D Systems. <i>Physical Review Letters</i> , 2016, 117, 076805.	2.9	26

#	ARTICLE	IF	CITATIONS
19	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides. Nature Communications, 2022, 13, 542.	5.8	23
20	Third-order optical conductivity of an electron fluid. Physical Review B, 2018, 97, .	1.1	16
21	Bulk Photovoltaic Effect Driven by Collective Excitations in a Correlated Insulator. Physical Review Letters, 2021, 127, 127402.	2.9	16
22	Bardasis-Schrieffer polaritons in excitonic insulators. Physical Review B, 2020, 102, .	1.1	15
23	Nonlinear nanoelectrodynamics of a Weyl metal. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
24	Nonlinear Spectroscopy of Collective Modes in an Excitonic Insulator. Physical Review Letters, 2020, 125, 257601.	2.9	13
25	Hyperbolic Cooper-Pair Polaritons in Planar Graphene/Cuprate Plasmonic Cavities. Nano Letters, 2021, 21, 308-316.	4.5	13
26	Polaritonic Vortices with a Half-Integer Charge. Nano Letters, 2021, 21, 9256-9261.	4.5	13
27	Second-Order Josephson Effect in Excitonic Insulators. Physical Review Letters, 2021, 127, 127702.	2.9	12
28	Rapid simulations of hyperspectral near-field images of three-dimensional heterogeneous surfaces “ part II. Optics Express, 2022, 30, 11228.	1.7	12
29	Topological Charge Pumping in Excitonic Insulators. Physical Review Letters, 2021, 126, 027601.	2.9	10
30	Deep Learning Analysis of Polaritonic Wave Images. ACS Nano, 2021, 15, 18182-18191.	7.3	10
31	Exploring nonequilibrium phases of photo-doped Mott insulators with generalized Gibbs ensembles. Communications Physics, 2022, 5, .	2.0	10
32	Graphene as a source of entangled plasmons. Physical Review Research, 2022, 4, .	1.3	4
33	Pump-induced motion of an interface between competing orders. Physical Review B, 2020, 101, .	1.1	3
34	A compact device sustains a fluid of bosons. Nature, 2021, 598, 571-572.	18.7	0