

Zhe Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

1,074
citations

19
h-index

31
g-index

59
ext. papers

1,538
ext. citations

6.5
avg, IF

3.97
L-index

#	Paper	IF	Citations
53	Nonperturbative topological current in Weyl and Dirac semimetals in laser fields. <i>Physical Review B</i> , 2021 , 103,	3.3	2
52	Non-perturbative terahertz high-harmonic generation in the three-dimensional Dirac semimetal CdAs. <i>Nature Communications</i> , 2020 , 11, 2451	17.4	33
51	Dispersions of many-body Bethe strings. <i>Nature Physics</i> , 2020 , 16, 625-630	16.2	8
50	Observation of E8 particles in an Ising chain antiferromagnet. <i>Physical Review B</i> , 2020 , 101,	3.3	8
49	High-field quantum disordered state in RuCl_3 : Spin flips, bound states, and multiparticle continuum. <i>Physical Review B</i> , 2020 , 101,	3.3	27
48	Phase-resolved Higgs response in superconducting cuprates. <i>Nature Communications</i> , 2020 , 11, 1793	17.4	25
47	Relaxation dynamics of the optically driven nonequilibrium states in the electron- and hole-doped topological-insulator materials $(\text{Bi}_{1-x}\text{Sb}_x)_2\text{Te}_3$. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
46	Experimental observation of quantum many-body excitations of E8 symmetry in the Ising chain ferromagnet CoNb_2O_6 . <i>Physical Review B</i> , 2020 , 102,	3.3	5
45	Terahertz excitations in RuCl_3 : Majorana fermions and rigid-plane shear and compression modes. <i>Physical Review B</i> , 2019 , 100,	3.3	6
44	Anomalous connection between antiferromagnetic and superconducting phases in the pressurized noncentrosymmetric heavy-fermion compound CeRhGe_3 . <i>Physical Review B</i> , 2019 , 99,	3.3	3
43	Quantum Critical Dynamics of a Heisenberg-Ising Chain in a Longitudinal Field: Many-Body Strings versus Fractional Excitations. <i>Physical Review Letters</i> , 2019 , 123, 067202	7.4	11
42	One-dimensional quantum spin dynamics of Bethe string states. <i>Physical Review B</i> , 2019 , 100,	3.3	7
41	Pulse- and field-resolved THz-diagnostics at 4 generation lightsources. <i>Optics Express</i> , 2019 , 27, 32360-32369	3.3	1
40	Superconductivity in pressurized CeRhGe_3 and related noncentrosymmetric compounds. <i>Physical Review B</i> , 2018 , 97,	3.3	14
39	Selective THz control of magnetic order: new opportunities from superradiant undulator sources. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 114007	3	16
38	Intrinsic Charge Dynamics in High- T_c AFeAs(O,F) Superconductors. <i>Physical Review Letters</i> , 2018 , 120, 087001	7.4	5
37	Experimental observation of Bethe strings. <i>Nature</i> , 2018 , 554, 219-223	50.4	47

36	Bethe-Strings: Exotische Anregungen in Spinsystemen. <i>Physik in Unserer Zeit</i> , 2018 , 49, 111-112	0.1	
35	Magnetic field dependence of antiferromagnetic resonance in NiO. <i>Applied Physics Letters</i> , 2018 , 112, 252404	3.4	14
34	Towards femtosecond-level intrinsic laser synchronization at fourth generation light sources. <i>Optics Letters</i> , 2018 , 43, 2213-2216	3	0
33	Sub-gap optical response in the Kitaev spin-liquid candidate URuCl_3 . <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 475604	1.8	13
32	Extremely efficient terahertz high-harmonic generation in graphene by hot Dirac fermions. <i>Nature</i> , 2018 , 561, 507-511	50.4	205
31	Quantum Criticality of an Ising-like Spin-1/2 Antiferromagnetic Chain in a Transverse Magnetic Field. <i>Physical Review Letters</i> , 2018 , 120, 207205	7.4	21
30	Pressure-induced melting of magnetic order and emergence of a new quantum state in URuCl_3 . <i>Physical Review B</i> , 2018 , 97,	3.3	27
29	Ultra-robust high-field magnetization plateau and supersolidity in bond-frustrated MnCr_2S_4 . <i>Science Advances</i> , 2017 , 3, e1601982	14.3	17
28	Optical conductivity in multiferroic GaV_4S_8 and GeV_4S_8 : Phonons and electronic transitions. <i>Physical Review B</i> , 2017 , 96,	3.3	13
27	Electronic and phonon excitations in URuCl_3 . <i>Physical Review B</i> , 2017 , 96,	3.3	25
26	Excitations and relaxation dynamics in multiferroic GeV_4S_8 studied by terahertz and dielectric spectroscopy. <i>Physical Review B</i> , 2017 , 96,	3.3	5
25	Robust zero resistance in a superconducting high-entropy alloy at pressures up to 190 GPa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 13144-13147	11.5	72
24	Magnetic Excitations and Continuum of a Possibly Field-Induced Quantum Spin Liquid in URuCl_3 . <i>Physical Review Letters</i> , 2017 , 119, 227202	7.4	94
23	From confined spinons to emergent fermions: Observation of elementary magnetic excitations in a transverse-field Ising chain. <i>Physical Review B</i> , 2016 , 94,	3.3	20
22	Electromagnons, magnons, and phonons in $\text{Eu}_1-x\text{Ho}_x\text{MnO}_3$. <i>Physical Review B</i> , 2016 , 93,	3.3	2
21	Field-Induced Magnonic Liquid in the 3D Spin-Dimerized Antiferromagnet $\text{Sr}_3\text{Cr}_2\text{O}_8$. <i>Physical Review Letters</i> , 2016 , 116, 147201	7.4	9
20	Tuning orbital-selective correlations in superconducting $\text{Rb}_{0.75}\text{Fe}_{1.6}\text{Se}_2$. <i>Physical Review B</i> , 2016 , 93,	3.3	5
19	Spin-orbiton and quantum criticality in FeSc_2S_4 . <i>Physical Review B</i> , 2015 , 91,	3.3	22

18	Spinon confinement in the one-dimensional Ising-like antiferromagnet SrCo ₂ V ₂ O ₈ . <i>Physical Review B</i> , 2015 , 91,	3-3	32
17	Pressure-induced quantum phase transitions in a YbB ₆ single crystal. <i>Physical Review B</i> , 2015 , 92,	3-3	19
16	Polar Dynamics at the Jahn-Teller Transition in Ferroelectric GaV ₃ O ₇ . <i>Physical Review Letters</i> , 2015 , 115, 207601	7-4	36
15	Orbital-selective metal-insulator transition and gap formation above TC in superconducting Rb(1-x)Fe(2-y)Se ₂ . <i>Nature Communications</i> , 2014 , 5, 3202	17-4	33
14	High-field electron spin resonance spectroscopy of singlet-triplet transitions in the spin-dimer systems Sr ₃ Cr ₂ O ₈ and Ba ₃ Cr ₂ O ₈ . <i>Physical Review B</i> , 2014 , 89,	3-3	7
13	Low-energy magnetic excitations in the quasi-one-dimensional spin-1 chain compound SrNi ₂ V ₂ O ₈ . <i>Physical Review B</i> , 2013 , 87,	3-3	8
12	Exciton-magnon transitions in the frustrated chromium antiferromagnets CuCrO ₂ , CaCr ₂ O ₄ , CdCr ₂ O ₄ , and ZnCr ₂ O ₄ . <i>Physical Review B</i> , 2013 , 87,	3-3	9
11	Electron spin resonance and exchange paths in the orthorhombic dimer system Sr ₂ VO ₄ . <i>Physical Review B</i> , 2012 , 86,	3-3	8
10	Infrared phonons and specific heat in the gapped quantum magnet Ba ₃ Cr ₂ O ₈ . <i>Physical Review B</i> , 2012 , 85,	3-3	7
9	Weak localization in few-layer graphene grown on copper foils by chemical vapor deposition. <i>Carbon</i> , 2012 , 50, 5242-5246	10-4	9
8	Terahertz spectroscopy in the pseudo-Kagome system Cu ₃ Bi(SeO ₃) ₂ O ₂ Br. <i>Physical Review B</i> , 2012 , 86,	3-3	8
7	Universal exchange-driven phonon splitting in antiferromagnets. <i>Physical Review Letters</i> , 2012 , 108, 177203	7-3	24
6	Lattice vibrations in KCuF ₃ . <i>Annalen Der Physik</i> , 2011 , 523, 645-651	2-6	5
5	Orbital fluctuations and orbital order below the Jahn-Teller transition in Sr ₃ Cr ₂ O ₈ . <i>Physical Review B</i> , 2011 , 83,	3-3	18
4	Singlet-Triplet Excitations and High-Field Magnetization in CuTe ₂ O ₅ . <i>Journal of the Physical Society of Japan</i> , 2011 , 80, 124707	1-5	9
3	Thickness-dependent structural and magnetic properties of BiFeO ₃ films prepared by metal organic decomposition method. <i>Applied Physics Letters</i> , 2010 , 97, 222901	3-4	24
2	Impact of annealing atmosphere on the multiferroic and dielectric properties of BiFeO ₃ /Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 97, 699-704	2-6	28
1	IMPROVED ELECTRIC PROPERTIES OF Nd-DOPED BiFeO ₃ THIN FILMS PREPARED BY METAL ORGANIC DECOMPOSITION METHOD. <i>Integrated Ferroelectrics</i> , 2008 , 96, 112-119	0-8	4

