

Zhe Wang

List of Publications by Citations

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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	Extremely efficient terahertz high-harmonic generation in graphene by hot Dirac fermions. <i>Nature</i> , 2018 , 561, 507-511	50.4	205
52	Magnetic Excitations and Continuum of a Possibly Field-Induced Quantum Spin Liquid in RuCl_3 . <i>Physical Review Letters</i> , 2017 , 119, 227202	7.4	94
51	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
50	Experimental observation of Bethe strings. <i>Nature</i> , 2018 , 554, 219-223	50.4	47
49	Polar Dynamics at the Jahn-Teller Transition in Ferroelectric GaV_4S_8 . <i>Physical Review Letters</i> , 2015 , 115, 207601	7.4	36
48	Non-perturbative terahertz high-harmonic generation in the three-dimensional Dirac semimetal CdAs. <i>Nature Communications</i> , 2020 , 11, 2451	17.4	33
47	Orbital-selective metal-insulator transition and gap formation above TC in superconducting $\text{Rb}_{1-x}\text{Fe}_{2-y}\text{Se}_2$. <i>Nature Communications</i> , 2014 , 5, 3202	17.4	33
46	Spinon confinement in the one-dimensional Ising-like antiferromagnet $\text{SrCo}_2\text{V}_2\text{O}_8$. <i>Physical Review B</i> , 2015 , 91,	3.3	32
45	Impact of annealing atmosphere on the multiferroic and dielectric properties of $\text{BiFeO}_3/\text{Bi}_{3.25}\text{La}_{0.75}\text{Ti}_3\text{O}_{12}$ thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 97, 699-704	2.6	28
44	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
43	Pressure-induced melting of magnetic order and emergence of a new quantum state in RuCl_3 . <i>Physical Review B</i> , 2018 , 97,	3.3	27
42	Electronic and phonon excitations in RuCl_3 . <i>Physical Review B</i> , 2017 , 96,	3.3	25
41	Phase-resolved Higgs response in superconducting cuprates. <i>Nature Communications</i> , 2020 , 11, 1793	17.4	25
40	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
39	Universal exchange-driven phonon splitting in antiferromagnets. <i>Physical Review Letters</i> , 2012 , 108, 177203	7.0	24
38	Spin-orbiton and quantum criticality in FeSc_2S_4 . <i>Physical Review B</i> , 2015 , 91,	3.3	22
37	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

36	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
35	Pressure-induced quantum phase transitions in a YbB6 single crystal. <i>Physical Review B</i> , 2015 , 92,	3-3	19
34	Orbital fluctuations and orbital order below the Jahn-Teller transition in Sr3Cr2O8. <i>Physical Review B</i> , 2011 , 83,	3-3	18
33	Ultra-robust high-field magnetization plateau and supersolidity in bond-frustrated MnCrS. <i>Science Advances</i> , 2017 , 3, e1601982	14-3	17
32	Selective THz control of magnetic order: new opportunities from superradiant undulator sources. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 114007	3	16
31	Superconductivity in pressurized CeRhGe3 and related noncentrosymmetric compounds. <i>Physical Review B</i> , 2018 , 97,	3-3	14
30	Magnetic field dependence of antiferromagnetic resonance in NiO. <i>Applied Physics Letters</i> , 2018 , 112, 252404	3-4	14
29	Optical conductivity in multiferroic GaV4S8 and GeV4S8: Phonons and electronic transitions. <i>Physical Review B</i> , 2017 , 96,	3-3	13
28	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
27	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
26	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
25	Weak localization in few-layer graphene grown on copper foils by chemical vapor deposition. <i>Carbon</i> , 2012 , 50, 5242-5246	10-4	9
24	Exciton-magnon transitions in the frustrated chromium antiferromagnets CuCrO_2 , CaCr_2O_4 , CdCr_2O_4 , and ZnCr_2O_4 . <i>Physical Review B</i> , 2013 , 87,	3-3	9
23	Singlet-Triplet Excitations and High-Field Magnetization in CuTe_2O_5 . <i>Journal of the Physical Society of Japan</i> , 2011 , 80, 124707	1-5	9
22	Dispersions of many-body Bethe strings. <i>Nature Physics</i> , 2020 , 16, 625-630	16-2	8
21	Observation of E8 particles in an Ising chain antiferromagnet. <i>Physical Review B</i> , 2020 , 101,	3-3	8
20	Low-energy magnetic excitations in the quasi-one-dimensional spin-1 chain compound $\text{SrNi}_2\text{V}_2\text{O}_8$. <i>Physical Review B</i> , 2013 , 87,	3-3	8
19	Electron spin resonance and exchange paths in the orthorhombic dimer system Sr_2VO_4 . <i>Physical Review B</i> , 2012 , 86,	3-3	8

18	Terahertz spectroscopy in the pseudo-Kagome system $\text{Cu}_3\text{Bi}(\text{SeO}_3)_2\text{O}_2\text{Br}$. <i>Physical Review B</i> , 2012 , 86,	3.3	8
17	One-dimensional quantum spin dynamics of Bethe string states. <i>Physical Review B</i> , 2019 , 100,	3.3	7
16	High-field electron spin resonance spectroscopy of singlet-triplet transitions in the spin-dimer systems $\text{Sr}_3\text{Cr}_2\text{O}_8$ and $\text{Ba}_3\text{Cr}_2\text{O}_8$. <i>Physical Review B</i> , 2014 , 89,	3.3	7
15	Infrared phonons and specific heat in the gapped quantum magnet $\text{Ba}_3\text{Cr}_2\text{O}_8$. <i>Physical Review B</i> , 2012 , 85,	3.3	7
14	Terahertz excitations in BiUCl_3 : Majorana fermions and rigid-plane shear and compression modes. <i>Physical Review B</i> , 2019 , 100,	3.3	6
13	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
12	Intrinsic Charge Dynamics in High- T_c $\text{AFeAs}(\text{O},\text{F})$ Superconductors. <i>Physical Review Letters</i> , 2018 , 120, 087001	7.4	5
11	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
10	Lattice vibrations in KCuF_3 . <i>Annalen Der Physik</i> , 2011 , 523, 645-651	2.6	5
9	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
8	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
7	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
6	Electromagnons, magnons, and phonons in $\text{Eu}_1\text{HoxMnO}_3$. <i>Physical Review B</i> , 2016 , 93,	3.3	2
5	Nonperturbative topological current in Weyl and Dirac semimetals in laser fields. <i>Physical Review B</i> , 2021 , 103,	3.3	2
4	Relaxation dynamics of the optically driven nonequilibrium states in the electron- and hole-doped topological-insulator materials $(\text{Bi}_{1-x}\text{Sbx})_2\text{Te}_3$. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
3	Pulse- and field-resolved THz-diagnostics at 4 generation lightsources. <i>Optics Express</i> , 2019 , 27, 32360-32369	3.3	1
2	Towards femtosecond-level intrinsic laser synchronization at fourth generation light sources. <i>Optics Letters</i> , 2018 , 43, 2213-2216	3	0
1	Bethe-Strings: Exotische Anregungen in Spinsystemen. <i>Physik in Unserer Zeit</i> , 2018 , 49, 111-112	0.1	

