

Zhe Wang

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,808
citations

304602

22
h-index

276775

41
g-index

59
all docs

59
docs citations

59
times ranked

2541
citing authors

#	ARTICLE	IF	CITATIONS
1	Extremely efficient terahertz high-harmonic generation in graphene by hot Dirac fermions. Nature, 2018, 561, 507-511.	13.7	365
2	Magnetic Excitations and Continuum of a Possibly Field-Induced Quantum Spin Liquid in $\hat{\mu}_{\pm}$ RuCl ₃ . Physical Review Letters, 2017, 119, 227202.	2.9	135
3	Robust zero resistance in a superconducting high-entropy alloy at pressures up to 190 GPa. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13144-13147.	3.3	121
4	Experimental observation of Bethe strings. Nature, 2018, 554, 219-223.	13.7	84
5	Phase-resolved Higgs response in superconducting cuprates. Nature Communications, 2020, 11, 1793.	5.8	79
6	Non-perturbative terahertz high-harmonic generation in the three-dimensional Dirac semimetal Cd ₃ As ₂ . Nature Communications, 2020, 11, 2451.	5.8	69
7	High-field quantum disordered state in $\hat{\mu}_{\pm}$ RuCl ₃ : Spin flips, bound states, and multiparticle continuum. Physical Review B, 2020, 101, .	1.1	49
8	Spinon confinement in the one-dimensional Ising-like antiferromagnet $\hat{\mu}_{\pm}$ SrCo ₂ V ₈ O ₂₀ . Physical Review B, 2015, 91, .	1.1	49
9	Quantum Criticality of an Ising-like Spin-Antiferromagnetic Chain in a Transverse Magnetic Field. Physical Review Letters, 2018, 120, 207205.	2.9	43
10	Pressure-induced melting of magnetic order and emergence of a new quantum state in $\hat{\mu}_{\pm}$ RuCl ₃ . Physical Review B, 2018, 97, .	1.1	43
11	Polar Dynamics at the Jahn-Teller Transition in Ferroelectric GaV_4S_8 . Physical Review Letters, 2015, 115, 207401.	2.9	39
12	Impact of annealing atmosphere on the multiferroic and dielectric properties of BiFeO ₃ /Bi ₃ .25La _{0.75} Ti ₃ O ₁₂ thin films. Applied Physics A: Materials Science and Processing, 2009, 97, 699-704.	1.1	37
13	Electronic and phonon excitations in $\hat{\mu}_{\pm}$ RuCl ₃ . Physical Review B, 2017, 96, .	1.1	37
14	Orbital-selective metal-insulator transition and gap formation above TC in superconducting Rb _{1-x} Fe _{2x} Se ₂ . Nature Communications, 2014, 5, 3202.	5.8	36
15	From confined spinons to emergent fermions: Observation of elementary magnetic excitations in a transverse-field Ising chain. Physical Review B, 2016, 94, .	1.1	35
16	Quantum Critical Dynamics of a Heisenberg-Ising Chain in a Longitudinal Field: Many-Body Strings versus Fractional Excitations. Physical Review Letters, 2019, 123, 067202.	2.9	33
17	Selective THz control of magnetic order: new opportunities from superradiant undulator sources. Journal Physics D: Applied Physics, 2018, 51, 114007.	1.3	30
18	Dispersions of many-body Bethe strings. Nature Physics, 2020, 16, 625-630.	6.5	29

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19	Thickness-dependent structural and magnetic properties of BiFeO ₃ films prepared by metal organic decomposition method. Applied Physics Letters, 2010, 97, .	1.5	27
20	Magnetic field dependence of antiferromagnetic resonance in NiO. Applied Physics Letters, 2018, 112, .	1.5	27
21	Universal Exchange-Driven Phonon Splitting in Antiferromagnets. Physical Review Letters, 2012, 108, 177203.	2.9	26
22	Pressure-induced quantum phase transitions in a YbB_6 single crystal. Physical Review B, 2015, 92, .	1.1	26
23	Spin-orbital and quantum criticality in FeSc_2S_4 . Physical Review B, 2015, 91, .	1.1	22
24	Ultra-robust high-field magnetization plateau and supersolidity in bond-frustrated MnCr_2S_4 . Science Advances, 2017, 3, e1601982.	4.7	22
25	Sub-gap optical response in the Kitaev spin-liquid candidate RuCl_3 . Journal of Physics Condensed Matter, 2018, 30, 475604.	0.7	21
26	One-dimensional quantum spin dynamics of Bethe string states. Physical Review B, 2019, 100, .	1.1	21
27	Experimental observation of quantum many-body excitations of $\text{E}_{8\text{Mn}}$ symmetry in the Ising chain ferromagnet CoNb_2O_6 . Physical Review B, 2020, 102, .	1.1	21
28	Observation of $\text{E}_{8\text{Mn}}$ particles in an Ising chain antiferromagnet. Physical Review B, 2020, 101, .	1.1	21
29	Orbital fluctuations and orbital order below the Jahn-Teller transition in $\text{Sr}_3\text{Cr}_2\text{O}_8$. Physical Review B, 2011, 83, .	1.1	20
30	Superconductivity in pressurized CeRhG_3 and related noncentrosymmetric compounds. Physical Review B, 2018, 97, .	1.1	18
31	$\text{S}_{8\text{Mn}}$ excitations in GeV_4 and GeV_4 . Physical Review B, 2019, 100, .	1.1	16
32	Terahertz excitations in RuCl_3 : Majorana fermions and rigid-plane shear and compression modes. Physical Review B, 2019, 100, .	1.1	16
33	Band-selective third-harmonic generation in superconducting MgB_2 : Possible evidence for the Higgs amplitude mode in the dirty limit. Physical Review B, 2021, 104, .	1.1	16
34	Electron spin resonance and exchange paths in the orthorhombic dimer system Sr_2VO_4 . Physical Review B, 2012, 86, .	1.1	13
35	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 Cr_2O_8 . Physical Review B, 2014, 89, .		
36	Field-Induced Magnonic Liquid in the 3D Spin-Dimerized Antiferromagnet $\text{Sr}_3\text{Cr}_2\text{O}_8$. Physical Review Letters, 2016, 116, 147201.	2.9	13

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37	magnon transitions in the frustrated chromium antiferromagnets CuCrO_2 . Physical Review B, 2012, 85, .	1.1	12
38	Nonperturbative topological current in Weyl and Dirac semimetals in laser fields. Physical Review B, 2021, 103, .	1.1	12
39	Singlet-Triplet Excitations and High-Field Magnetization in CuTeO_5 . Journal of the Physical Society of Japan, 2011, 80, 124707.	0.7	11
40	Infrared phonons and specific heat in the gapped quantum magnet $\text{Ba}_3\text{Cr}_2\text{O}_8$. Physical Review B, 2012, 85, .	1.1	11
41	Weak localization in few-layer graphene grown on copper foils by chemical vapor deposition. Carbon, 2012, 50, 5242-5246.	5.4	10
42	Low-energy magnetic excitations in the quasi-one-dimensional spin-1 chain compound $\text{SrNi}_2\text{V}_2\text{O}_8$. Physical Review B, 2017, 96, .	1.1	9
43	Excitations and relaxation dynamics in multiferroic $\text{Bi}(\text{SeO})_3$. Physical Review B, 2017, 96, .	1.1	8
44	Excitations and relaxation dynamics in multiferroic GeV_4S_8 studied by terahertz and dielectric spectroscopy. Physical Review B, 2017, 96, .	1.1	8
45	Intrinsic Charge Dynamics in High- T_c $\text{AFeAs}(\text{O},\text{F})$ Superconductors. Physical Review Letters, 2018, 120, 087001.	2.9	7
46	Magneto-optical study of metamagnetic transitions in the antiferromagnetic phase of $\hat{\Gamma}_2$ - RuCl_3 . Npj Quantum Materials, 2022, 7, .	1.8	7
47	Tuning orbital-selective correlations in superconducting Rb_zS . Physical Review B, 2016, 93, .	1.1	6
48	Anomalous connection between antiferromagnetic and superconducting phases in the pressurized noncentrosymmetric heavy-fermion compound CeRhG_3 . Physical Review B, 2019, 99, .	1.1	6
49	Lattice vibrations in KCuF_3 . Annalen Der Physik, 2011, 523, 645-651.	0.9	5
50	IMPROVED ELECTRIC PROPERTIES OF Nd-DOPED BiFeO_3 THIN FILMS PREPARED BY METAL ORGANIC DECOMPOSITION METHOD. Integrated Ferroelectrics, 2008, 96, 112-119.	0.3	4
51	Nonequilibrium quasistationary spin disordered state in $\hat{\Gamma}_2$ - Bi_2Se_3 . Physical Review B, 2022, 105, .	1.1	3
52	Electromagnons, magnons, and phonons in $\text{Eu}_2\text{HoxMnO}_3$. Physical Review B, 2016, 93, .	1.1	3
53	Relaxation dynamics of the optically driven nonequilibrium states in the electron- and hole-doped topological-insulator materials Bi_2Te_3 . Physical Review Materials, 2020, 4, .	0.9	3
54	Pulse- and field-resolved THz-diagnostics at 4th generation lightsources. Optics Express, 2019, 27, 32360.	1.7	3

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55	Towards femtosecond-level intrinsic laser synchronization at fourth generation light sources. Optics Letters, 2018, 43, 2213.	1.7	2
56	Nonequilibrium dynamics of \hat{I}_{\pm} - RuCl_3 – a time-resolved magneto-optical spectroscopy study. Faraday Discussions, 0, 237, 237-258. Neutron diffraction of field-induced magnon condensation in the spin-dimerized antiferromagnet	1.6	2
57	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{Sr} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{Cr} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 8 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2021, 104, .	1.1	0