

Kefeng Wang

List of Publications by Year in descending order

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70
papers

3,706
citations

159585

30
h-index

128289

60
g-index

72
all docs

72
docs citations

72
times ranked

4730
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiferroicity: the coupling between magnetic and polarization orders. <i>Advances in Physics</i> , 2009, 58, 321-448.	14.4	1,333
2	Topological R PdBi half-Heusler semimetals: A new family of noncentrosymmetric magnetic superconductors. <i>Science Advances</i> , 2015, 1, e1500242.	10.3	166
3	Anisotropic giant magnetoresistance in NbSb ₂ . <i>Scientific Reports</i> , 2014, 4, 7328.	3.3	158
4	Beyond triplet: Unconventional superconductivity in a spin-3/2 topological semimetal. <i>Science Advances</i> , 2018, 4, eaao4513.	10.3	130
5	Quantum transport of two-dimensional Dirac fermions in SrMnBi $\langle \mathbf{m} \rangle$. <i>Physical Review B</i> , 2011, 84, .	3.2	127
6	Magnetocapacitance of polycrystalline Bi ₅ Ti ₃ FeO ₁₅ prepared by sol-gel method. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	121
7	Two-dimensional Dirac fermions and quantum magnetoresistance in CaMnBi $\langle \mathbf{m} \rangle$. <i>Physical Review B</i> , 2012, 85, .	3.2	114
8	New Layered Fluorosulfide SrFBiS ₂ . <i>Inorganic Chemistry</i> , 2013, 52, 10685-10689.	4.0	83
9	Cluster-glass state in manganites induced by A-site cation-size disorder. <i>Physical Review B</i> , 2006, 73, .	3.2	70
10	Phase Diagram of $KxFe_2Se_2$. <i>Physical Review B</i> , 2011, 84, .	3.2	65
11	Electron-hole asymmetry, Dirac fermions, and quantum magnetoresistance in $BaMnBi_2$. <i>Physical Review B</i> , 2016, 93, .	3.2	58
12	Multiband effects and possible Dirac states in LaAgSb $\langle \mathbf{m} \rangle$. <i>Physical Review B</i> , 2012, 86, .	3.2	55
13	Breakdown of compensation and persistence of nonsaturating magnetoresistance in gated WT_e flakes. <i>Physical Review B</i> , 2016, 93, .	3.2	49
14	Characterization of oxygen vacancies and their migration in Ba-doped Pb(Zr _{0.52} Ti _{0.48})O ₃ ferroelectrics. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	48
15	Superconductivity and Charge Density Wave in ZrTe ₃ . <i>Scientific Reports</i> , 2016, 6, 26974.	3.3	47
16	Two-step magnetization in a spin-chain system on the triangular lattice: Wang-Landau simulation. <i>Physical Review B</i> , 2009, 79, .	3.2	46
17	Ca ₃ Ir ₄ Sn ₁₃ : A weakly correlated nodeless superconductor. <i>Physical Review B</i> , 2012, 86, .	3.2	46
18	Ultra-sensitive detection of magnetic field and its direction using bilayer PVDF/Metglas laminate. <i>Sensors and Actuators A: Physical</i> , 2009, 153, 64-68.	4.1	42

#	ARTICLE	IF	CITATIONS
19	Coexistence of magnetic and ferroelectric behaviors of pyrochlore Ho ₂ Ti ₂ O ₇ . Journal of Applied Physics, 2009, 106, .	2.5	38
20	Quasi-two-dimensional Dirac fermions and quantum magnetoresistance in LaAgBi ₂ . Physical Review B, 2013, 87, .	3.2	38
21	Optical signatures of multifold fermions in the chiral topological semimetal CoSi. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27104-27110.	7.1	37
22	Specific heat anomalies and possible Griffiths-like phase in La _{0.4} Ca _{0.6} MnO ₃ nanoparticles. Journal of Applied Physics, 2008, 103, 07F714.	2.5	36
23	Synthesis and characterization of La _{0.825} Sr _{0.175} MnO ₃ nanowires. Journal of Physics Condensed Matter, 2005, 17, L467-L475.	1.8	34
24	Iron chalcogenide superconductors at high magnetic fields. Science and Technology of Advanced Materials, 2012, 13, 054305.	6.1	34
25	A-site disorder induced collapse of charge-ordered state and phase separated phase in manganites. Applied Physics Letters, 2006, 89, 222505.	3.3	33
26	Ru-doping-induced ferromagnetism in charge-ordered La _{0.4} Ca _{0.6} MnO ₃ . Physical Review B, 2009, 79, .	3.2	33
27	Charge order suppression and weak ferromagnetism in La _{1-x} Sr _{2x} FeO ₃ nanoparticles. Applied Physics Letters, 2007, 91, .	3.3	31
28	Mean-field theory for ferroelectricity in Ca ₃ Mn ₂ Si ₂ O ₁₂ . Physical Review B, 2009, 79, .	3.2	31
29	Anharmonic phonons and magnons in BiFeO ₃ . Physical Review B, 2012, 85, .	3.2	31
30	Observation of Dirac-like band dispersion in LaAgSb ₂ . Physical Review B, 2016, 93, .	3.2	31
31	Large magnetothermopower effect in Dirac materials (Sr/Ca)MnBi ₂ . Applied Physics Letters, 2012, 100, 112111.	3.3	30
32	Superconducting and magnetic properties of Sr ₂ Mn ₂ Si ₂ O ₁₂ . Physical Review B, 2014, 90, .	3.2	29
33	Strong enhancement of s-wave superconductivity near a quantum critical point of Ca ₃ Mn ₂ Si ₂ O ₁₂ . Physical Review B, 2015, 92, .	3.2	27
34	Thermoelectric studies of KxFe ₂ Se ₂ indicating a weakly correlated superconductor. Physical Review B, 2011, 83, .	3.2	25
35	Polarization fatigue of ferroelectric Pb(Zr _{0.1} Ti _{0.9})O ₃ thin films: Temperature dependence. Journal of Applied Physics, 2006, 99, 044109.	2.5	23
36	Large magnetothermopower and Fermi surface reconstruction in Sb ₂ . Physical Review B, 2014, 89, .	3.2	23

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37	Influence of A-site codoping on ferroelectricity of quantum paraelectric SrTiO ₃ . Journal of Applied Physics, 2008, 103, 124104.	2.5	21
38	Antiferromagnetism in semiconducting KFe _{0.85} Ag _{0.15} Te. Journal of Applied Physics, 2012, 112, 013703.	3.2	21
39	Enhancement of the thermoelectric properties in doped FeSb ₂ bulk crystals. Journal of Applied Physics, 2012, 112, 013703.	2.5	21
40	Fatigue suppression of ferroelectric Pb _{1-x} Bax(Zr _{0.52} Ti _{0.48})O ₃ thin films prepared by sol-gel method. Journal of Applied Physics, 2007, 101, 046104.	2.5	20
41	Nonmagnetic B-site impurity-induced ferromagnetic tendency in CE-type manganites. Physical Review B, 2009, 79, .	3.2	20
42	Interlayer electronic transport in CaMnBi ₂ . Physical Review B, 2016, 94, .	3.2	19
43	Electric field induced collapse of the charge-ordered phase in manganites. Journal of Physics Condensed Matter, 2007, 19, 266202.	1.8	18
44	Synthesis and magnetic properties of Pr _{0.57} Ca _{0.43} MnO ₃ nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 136, 96-100.	3.5	18
45	Ferromagnetic metal to cluster-glass insulator transition induced by A-site disorder in manganites. Applied Physics Letters, 2006, 88, 152505.	3.3	17
46	Evolution of correlation strength in K ₂ Fe ₂ Se ₂ super. Physical Review B, 2011, 84, .	3.2	17
47	Preparation of epitaxial orthorhombic YMnO ₃ thin films and the voltage rectifying effect. Applied Physics A: Materials Science and Processing, 2009, 94, 975-980.	2.3	16
48	Large linear magnetoresistance and magnetothermopower in layered SrZnSb ₂ . Applied Physics Letters, 2012, 101, .	3.3	15
49	Electronic Griffiths Phase in the Te-Doped Semiconductor FeSb ₂ . Physical Review Letters, 2012, 109, 256401.	7.8	11
50	Enhanced thermoelectric power and electronic correlations in RuSe ₂ . APL Materials, 2015, 3, .	5.1	11
51	Identification of interfacial and bulk effects in modulating fatigue behaviors of Pb(Zr _{0.52} Ti _{0.48})O ₃ thin films. Journal of Applied Physics, 2007, 101, 016101.	2.5	10
52	Hydrostatic pressure induced structural instability and dielectric property of cubic BaZrO ₃ . Journal of Applied Physics, 2009, 105, 044110.	2.5	10
53	Creating nanostructured superconductors on demand by local current annealing. Physical Review B, 2015, 92, .	3.2	10
54	Stairlike magnetocapacitance and dielectric relaxation in spin frustrated Ca ₃ Co ₂ O ₆ . Journal of Applied Physics, 2008, 104, 054111.	2.5	9

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55	Competition between quantum fluctuations and antiferroelectric order in Ru-doped $\text{Sr}_{0.8}\text{Ca}_{0.2}\text{Ti}_{1-x}\text{Ru}_x\text{O}_3$. Journal of Physics Condensed Matter, 2009, 21, 375901.	1.8	9
56	Enhanced ferroelectricity in orthorhombic manganites $\text{Gd}_{1-x}\text{HoxMnO}_3$. Journal of Applied Physics, 2011, 109, 07D901.	2.5	9
57	^{119}Sn -NMR investigations on superconducting $\text{Ca}_3\text{Ir}_4\text{Sn}_{13}$: Evidence for multigap superconductivity. Physica B: Condensed Matter, 2015, 479, 51-53.	2.7	8
58	Large thermopower in the antiferromagnetic semiconductor BaMn_2Bi_2 . Applied Physics Letters, 2013, 103, .	3.3	7
59	Insulating and metallic spin glass in Ni-doped $\text{K}_{1-x}\text{Ni}_x\text{Mn}_2\text{O}_7$ crystals. Physical Review B, 2015, 91, .	1.2	4
60	Crystalline symmetry-protected non-trivial topology in prototype compound BaAl_4 . Npj Quantum Materials, 2021, 6, .	5.2	7
61	A-site disorder effects in electron-doped manganite $\text{La}_{0.4}\text{Ca}_{0.6}\text{MnO}_3$. Applied Physics A: Materials Science and Processing, 2011, 103, 485-491.	2.3	6
62	Physical properties of $\text{K}_x\text{Ni}_{2-x}\text{Se}_2$ single crystals. Journal of Physics Condensed Matter, 2014, 26, 015701.	1.8	6
63	Superconducting properties of $\text{Ca}_3\text{Ir}_4\text{Sn}_{13}$: a ^{135}Sr study. Journal of Physics: Conference Series, 2014, 551, 012029.	0.4	6
64	Coupled spin waves and crystalline electric field levels in candidate multiferroic ErFeO_3 . Journal of Applied Physics, 2021, 130, .	2.5	6
65	Electric current-induced relaxations of conductivity in phase-separated $\text{La}_{0.5}\text{Ca}_{0.5}\text{Mn}_{0.95}\text{Fe}_{0.05}\text{O}_3$. Journal of Applied Physics, 2008, 104, 013916.	2.5	5
66	Nonmetallic Low-Temperature Normal State of $\text{K}_{0.7}\text{Fe}_{1.46}\text{Se}_{1.85}\text{Te}_{0.15}$. Physical Review X, 2014, 4, .	8.9	4
67	Sustained phase separation and spin glass in Co-doped $\text{K}_{1-x}\text{Ni}_x\text{Mn}_2\text{O}_7$ single crystals. Physical Review B, 2015, 92, .	3.2	4
68	Quantum oscillations in the anomalous spin density wave state of FeAs . Physical Review B, 2017, 96, .	3.2	3
69	Campbell penetration depth in low carrier density superconductor YPtBi . Physical Review B, 2021, 104, .	3.2	3
70	Observation of a Flat and Extended Surface State in a Topological Semimetal. Materials, 2022, 15, 2744.	2.9	1