Kefeng Wang

List of Publications by Year
in descending order

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70	3,706	159585 30	128289 60
papers	citations	h-index	g-index

72	72	72	4730
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Observation of a Flat and Extended Surface State in a Topological Semimetal. Materials, 2022, 15, 2744.	2.9	1
2	Crystalline symmetry-protected non-trivial topology in prototype compound BaAl4. Npj Quantum Materials, 2021, 6, .	5.2	7
3	Campbell penetration depth in low carrier density superconductor YPtBi. Physical Review B, 2021, 104, .	3.2	3
4	Coupled spin waves and crystalline electric field levels in candidate multiferroic ErFeO3. Journal of Applied Physics, 2021, 130, .	2.5	6
5	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
6	Beyond triplet: Unconventional superconductivity in a spin-3/2 topological semimetal. Science Advances, 2018, 4, eaao4513.	10.3	130
7	Quantum oscillations in the anomalous spin density wave state of FeAs. Physical Review B, 2017, 96, .	3.2	3
8	Superconductivity and Charge Density Wave in ZrTe3âˆ’xSex. Scientific Reports, 2016, 6, 26974.	3.3	47
9	Interlayer electronic transport in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CaMnBi</mml:mi><mml:mn>2</mml:mn></mml:msub></ Physical Review B, 2016, 94, .	3.2	10
10	Observation of Dirac-like band dispersion in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaAgSb</mml:mi><mml:mn>2</mml:mn></mml:msub></ Physical Review B, 2016, 93, .	3.2	31
11	Electron-hole asymmetry, Dirac fermions, and quantum magnetoresistance in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaMnBi</mml:mi><mml:mn>2</mml:mn></mml:msub></ Physical Review B, 2016, 93, .	3.2	50
12	Breakdown of compensation and persistence of nonsaturating magnetoresistance in gated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>WT</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>thin flakes. Physical Review B, 2016, 93, .	3.2	49
13	Insulating and metallic spin glass in Ni-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mtext>K</mml:mtext><mml:mi>x</mml:mi></ crystals. Physical Review B, 2015, 91, .	3.2	7
14	Creating nanostructured superconductors on demand by local current annealing. Physical Review B, 2015, 92, .	3.2	10
15	Sustained phase separation and spin glass in Co-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">K</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>2 single crystals. Physical Review B, 2015, 92, .	3.2	4
16	Strong enhancement of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>s</mml:mi></mml:math>-wave superconductivity near a quantum critical point of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mtext>Ca</mml:mtext><mml:mn>3</mml:mn> Physical Review B, 2015, 92, .	3.2	27
17	Enhanced thermoelectric power and electronic correlations in RuSe2. APL Materials, 2015, 3, .	5.1	11
18	Topological R PdBi half-Heusler semimetals: A new family of noncentrosymmetric magnetic superconductors. Science Advances, 2015, 1, e1500242.	10.3	166

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19	119Sn-NMR investigations on superconducting Ca3Ir4Sn13: Evidence for multigap superconductivity. Physica B: Condensed Matter, 2015, 479, 51-53.	2.7	8
20	Physical properties of KxNi2â^'ySe2single crystals. Journal of Physics Condensed Matter, 2014, 26, 015701.	1.8	6
21	Large magnetothermopower and Fermi surface reconstruction in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Sb</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:m Physical Review B, 2014, 89, .	3.2	20
22	Superconducting and magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:m Physical Review B, 2014, 90, .	3.2	29
23	Nonmetallic Low-Temperature Normal State ofK0.7Fe1.46Se1.85Te0.15. Physical Review X, 2014, 4, .	8.9	4
24	Superconducting properties of Ca₃Ir₄Sn₁₃: aÎ¼SR study. Journal of Physics: Conference Series, 2014, 551, 012029.	0.4	6
25	Anisotropic giant magnetoresistance in NbSb2. Scientific Reports, 2014, 4, 7328.	3.3	158
26	New Layered Fluorosulfide SrFBiS₂. Inorganic Chemistry, 2013, 52, 10685-10689.	4.0	83
27	Quasi-two-dimensional Dirac fermions and quantum magnetoresistance in LaAgBi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 87, .	3.2	38
28	Large thermopower in the antiferromagnetic semiconductor BaMn2Bi2. Applied Physics Letters, 2013, 103, .	3.3	7
29	Enhancement of the thermoelectric properties in doped FeSb2 bulk crystals. Journal of Applied Physics, 2012, 112, 013703.	2.5	21
30	Large magnetothermopower effect in Dirac materials (Sr/Ca)MnBi₂. Applied Physics Letters, 2012, 100, 112111.	3.3	30
31	Multiband effects and possible Dirac states in LaAgSb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 86, .	3.2	55
32	Ca3Ir4Sn13: A weakly correlated nodeless superconductor. Physical Review B, 2012, 86, .	3.2	46
33	Electronic Griffiths Phase in the Te-Doped SemiconductorFeSb2. Physical Review Letters, 2012, 109, 256401.	7.8	11
34	Large linear magnetoresistance and magnetothermopower in layered SrZnSb2. Applied Physics Letters, 2012, 101, .	3.3	15
35	Two-dimensional Dirac fermions and quantum magnetoresistance in CaMnBi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 85, .	3.2	114
36	Iron chalcogenide superconductors at high magnetic fields. Science and Technology of Advanced Materials, 2012, 13, 054305.	6.1	34

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37	Anharmonic phonons and magnons in BiFeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 85, .	3.2	31
38	Quantum transport of two-dimensional Dirac fermions in SrMnBi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2011, 84, .	3.2	127
39	A-site disorder effects in electron-doped manganite La0.4Ca0.6MnO3. Applied Physics A: Materials Science and Processing, 2011, 103, 485-491.	2.3	6
40	Enhanced ferroelectricity in orthorhombic manganites Gd1âˆ’xHoxMnO3. Journal of Applied Physics, 2011, 109, 07D901.	2.5	9
41	Phase Diagram of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="normal">K</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>2</mml:mn> mathvariant="bold">â€²</mml:mo><mml:mi>y</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi>Se</mml:mi><mml:mi></mml:mi><mml:mrow mathvariant="bold">â€²</mml:mo><mml:mi	7.8	65
42	Thermoelectric studies ofKxFe2âˆ’ySe2indicating a weakly correlated superconductor. Physical Review B, 2011, 83, .	3.2	25
43	Antiferromagnetism in semiconducting KFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.85</mml:mn></mml:mrow></mml:msub></mml:math>Ag<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.15</mml:mn></mml:mrow></mml:msub></mml:math>Te<mml:math	3.2	21
44	Evolution of correlation strength in K<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>â€“</mml:mo><mml:mi>y</mml:mi></mml:mrow></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>superPhysical Review B, 2011, 84, .	3.2	17
45	Nonmagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>B</mml:mi></mml:math>-site impurity-induced ferromagnetic tendency in CE-type manganites. Physical Review B, 2009, 79, .	3.2	20
46	Ru-doping-induced ferromagnetism in charge-ordered<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.4</mml:mn> Physical Review B, 2009, 79, .	3.2	33
47	Hydrostatic pressure induced structural instability and dielectric property of cubic BaZrO3. Journal of Applied Physics, 2009, 105, 044110.	2.5	10
48	Coexistence of magnetic and ferroelectric behaviors of pyrochlore Ho2Ti2O7. Journal of Applied Physics, 2009, 106, .	2.5	38
49	Competition between quantum fluctuations and antiferroelectric order in Ru-doped Sr_{0.8}Ca_{0.2}Ti_{1âˆ’x}Ru_xO₃. Journal of Physics Condensed Matter, 2009, 21, 375901.	1.8	9
50	Ultra-sensitive detection of magnetic field and its direction using bilayer PVDF/Metglas laminate. Sensors and Actuators A: Physical, 2009, 153, 64-68.	4.1	42
51	Two-step magnetization in a spin-chain system on the triangular lattice: Wang-Landau simulation. Physical Review B, 2009, 79, .	3.2	46
52	Multiferroicity: the coupling between magnetic and polarization orders. Advances in Physics, 2009, 58, 321-448.	14.4	1,333
53	Preparation of epitaxial orthorhombic YMnO3 thin films andÂtheÂcurrentâ€“voltage rectifying effect. Applied Physics A: Materials Science and Processing, 2009, 94, 975-980.	2.3	16
54	Mean-field theory for ferroelectricity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ca</mml:mtext></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:msu Physical Review B, 2009, 79, .	3.2	31

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55	Characterization of oxygen vacancies and their migration in Ba-doped Pb(Zr0.52Ti0.48)O3 ferroelectrics. Journal of Applied Physics, 2009, 105, .	2.5	48
56	Specific heat anomalies and possible Griffiths-like phase in La0.4Ca0.6MnO3 nanoparticles. Journal of Applied Physics, 2008, 103, 07F714.	2.5	36
57	Magnetocapacitance of polycrystalline Bi5Ti3FeO15 prepared by sol-gel method. Journal of Applied Physics, 2008, 103, .	2.5	121
58	Influence of A-site codoping on ferroelectricity of quantum paraelectric SrTiO3. Journal of Applied Physics, 2008, 103, 124104.	2.5	21
59	Electric current-induced relaxations of conductivity in phase-separated La0.5Ca0.5Mn0.95Fe0.05O3. Journal of Applied Physics, 2008, 104, 013916.	2.5	5
60	Steplike magnetocapacitance and dielectric relaxation in spin frustrated Ca3Co2O6. Journal of Applied Physics, 2008, 104, 054111.	2.5	9
61	Identification of interfacial and bulk effects in modulating fatigue behaviors of Pb(Zr0.52Ti0.48)O3 thin films. Journal of Applied Physics, 2007, 101, 016101.	2.5	10
62	Charge order suppression and weak ferromagnetism in La1âˆ•3Sr2âˆ•3FeO3 nanoparticles. Applied Physics Letters, 2007, 91, .	3.3	31
63	Fatigue suppression of ferroelectric Pb1â^'xBax(Zr0.52Ti0.48)O3 thin films prepared by sol-gel method. Journal of Applied Physics, 2007, 101, 046104.	2.5	20
64	Electric field induced collapse of the charge-ordered phase in manganites. Journal of Physics Condensed Matter, 2007, 19, 266202.	1.8	18
65	Synthesis and magnetic properties of Pr0.57Ca0.43MnO3 nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 136, 96-100.	3.5	18
66	A-site disorder induced collapse of charge-ordered state and phase separated phase in manganites. Applied Physics Letters, 2006, 89, 222505.	3.3	33
67	Cluster-glass state in manganites induced byA-site cation-size disorder. Physical Review B, 2006, 73, .	3.2	70
68	Ferromagnetic metal to cluster-glass insulator transition induced by A-site disorder in manganites. Applied Physics Letters, 2006, 88, 152505.	3.3	17
69	Polarization fatigue of ferroelectric Pb(Zr0.1Ti0.9)O3 thin films: Temperature dependence. Journal of Applied Physics, 2006, 99, 044109.	2.5	23
70	Synthesis and characterization of La0.825Sr0.175MnO3nanowires. Journal of Physics Condensed Matter, 2005, 17, L467-L475.	1.8	34