Tian Shang

List of Publications by Year
in descending order

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75 papers	1,495 citations	257450 24 h-index	361022 35 g-index
75 all docs	75 docs citations	75 times ranked	1936 citing authors

#	Article	IF	Citations
1	Spin fluctuation induced Weyl semimetal state in the paramagnetic phase of EuCd ₂ As ₂. Science Advances, 2019, 5, eaaw4718.	10.3	122
2	Fermi surface reconstruction and multiple quantum phase transitions in the antiferromagnet CeRhIn ₅. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 673-678.	7.1	67
3	Time-Reversal Symmetry Breaking in Re-Based Superconductors. Physical Review Letters, 2018, 121, 257002.	7.8	67
4	Recent progress on superconductors with time-reversal symmetry breaking. Journal of Physics Condensed Matter, 2021, 33, 033001.	1.8	67
5	Stretchable Spin Valve with Stable Magnetic Field Sensitivity by Ribbon-Patterned Periodic Wrinkles. ACS Nano, 2016, 10, 4403-4409.	14.6	57
6	Two-Gap Superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>LaNiGa</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Nonunitary Triplet Pairing and Even Parity Gap Symmetry. Physical Review Letters, 2016, 117, 027001.	7.8	56
7	Effect of NiO inserted layer on spin-Hall magnetoresistance in Pt/NiO/YIG heterostructures. Applied Physics Letters, 2016, 109, .	3.3	55
8	Nodeless superconductivity and time-reversal symmetry breaking in the noncentrosymmetric superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Re</mml:mi><mml:mn mathvariant="bold">24</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">Ti</mml:mi><mml:mn	3.2	52
9	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>T</mml:mi></mml:mrow><mml:mrow><mml:mi>c</mml:mi></mml: Parent Compound<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>BaBiO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn>	7.8	48
10	Anomalous Hall resistivity and possible topological Hall effect in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>EuAl</mml:mi><mml:mn>4</mml:mn></mml:msub> antiferromagnet. Physical Review B, 2021, 103, .	3.2	48
11	Simultaneous Nodal Superconductivity and Time-Reversal Symmetry Breaking in the Noncentrosymmetric Superconductor CaPtAs. Physical Review Letters, 2020, 124, 207001.	7.8	42
12	Unconventional Transverse Transport above and below the Magnetic Transition Temperature in Weyl Semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>EuCd</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ Physical Review Letters, 2021, 126, 076602.	7.8	40
13	Coexistence of magnetic order and persistent spin dynamics in a quantum kagome antiferromagnet with no intersite mixing. Physical Review B, 2019, 99, .	3.2	34
14	Bulk single-crystal growth of the theoretically predicted magnetic Weyl semimetals <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>R</mml:mi><mml:mi>AlGe</mml:mi></mml:mrow> (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>R</mml:mi></mml:math> =) Tj ETQq0 0 0 rgBT /Overlock	2.4	31
15	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Tl</mml:mi><mml:mrow><mml:mn mathvariant="bold">0</mml:mn><mml:mo>.</mml:mo><mml:mn mathvariant="bold">58</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi	3.2	30
16	Superconductivity and topological aspects of the rocksalt carbides NbC and TaC. Physical Review B, 2020, 101, .	3.2	30
17	Enhanced T_c and multiband superconductivity in the fully-gapped ReBe₂₂ superconductor. New Journal of Physics, 2019, 21, 073034.	2.9	29
18	Nodeless superconductivity and preserved time-reversal symmetry in the noncentrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mo</mml:mi><mml:mn mathvariant="normal">P</mml:mi></mml:mrow></mml:math> superconductor. Physical Review B, 2019, 99, .	3.2	28

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19	High-T c superconductivity in undoped ThFeAsN. Nature Communications, 2017, 8, 156.	12.8	26
20	CaPtAs: A new noncentrosymmetric superconductor. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	26
21	CeIrIn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>5</mml:mn></mml:msub></mml:math>: Superconductivity on a magnetic instability. Physical Review B, 2014, 89, .	3.2	25
22	Pure spin-Hall magnetoresistance in Rh/Y3Fe5O12 hybrid. Scientific Reports, 2015, 5, 17734.	3.3	25
23	Time-reversal symmetry breaking in the noncentrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Zr</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn> superconductor. Physical Review B, 2020, 102, .	3.2	25
24	Spin order and fluctuations in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>EuAl</mml:mi><mml:mn>4</mml:mn></mml:msub></mm and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">EuGa</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math> topological antiferromagnets: A <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î¼</mml:mi><mml:mi>SR</mml:mi></mml:math>	3.2	25
25	Effect of epitaxial strain and lattice mismatch on magnetic and transport behaviors in metamagnetic FeRh thin films. AIP Advances, 2017, 7, .	1.3	24
26	Design of magnetic spirals in layered perovskites: Extending the stability range far beyond room temperature. Science Advances, 2018, 4, eaau6386.	10.3	22
27	Distortion mode anomalies in bulk <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PrNiO</mml:mi><mml:mn>3</mml:mn></mml:msub><m : Illustrating the potential of symmetry-adapted distortion mode analysis for the study of phase transitions. Physical Review B, 2019, 100, .	3.2	21
28	Electric field control of magnetic properties in FeRh/PMN-PT heterostructures. AIP Advances, 2018, 8, .	1.3	19
29	Tunable interplay between<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>4</mml:mn><mml:mi>f</mml:mi></mml:mrow></mml:math>electrons in Co-doped iron pnictides. Physical Review B, 2013, 87, .	3.2	16
30	Crossover from a heavy fermion to intermediate valence state in noncentrosymmetric Yb2Ni12(P,As)7. Scientific Reports, 2015, 5, 17608.	3.3	16
31	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>NaFe</mml:mi></mml:mrow><mml:mrow><mml:mn>0.56</mml:m A Pnictide Insulating Phase Induced by On-Site Coulomb Interaction. Physical Review Letters, 2016, 117, 097001.	7.8	16
32	Electronic localization in CaVO3 films via bandwidth control. Npj Quantum Materials, 2019, 4, .	5.2	16
33	Extraordinary Hall resistance and unconventional magnetoresistance in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Pt</mml:mi><mml:mo Physical Review B, 2015, 92, .	3.2	14
34	Re1âˆ’xMox as an ideal test case of time-reversal symmetry breaking in unconventional superconductors. Npj Quantum Materials, 2020, 5, .	5.2	14
35	Structure and superconductivity in the binary <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Re</mml:mi><mml:mrow><mml:mn>1</mml:m alloys. Physical Review Materials, 2019, 3, .	2.4	14
36	Giant magnetoresistance and topological Hall effect in the EuGa₄ antiferromagnet. Journal of Physics Condensed Matter, 2022, 34, 034005.	1.8	14

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37	Spin-triplet superconductivity in Weyl nodal-line semimetals. Npj Quantum Materials, 2022, 7, .	5.2	14
38	Superconductivity and structural distortion in BaPt₂As₂. Journal of Physics Condensed Matter, 2015, 27, 022202.	1.8	13
39	Laue three dimensional neutron diffraction. Scientific Reports, 2019, 9, 4798.	3.3	13
40	Time-Reversal Symmetry Breaking in Re-Based Superconductors: Recent Developments. Frontiers in Physics, 2021, 9, .	2.1	13
41	NbReSi: A noncentrosymetric superconductor with large upper critical field. Physical Review Materials, 2021, 5, .	2.4	11
42	Local moment ferromagnetism in CeRu₂Ga₂B. Journal of Physics Condensed Matter, 2012, 24, 185702.	1.8	10
43	Multiferroic phase diagram of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>E</mml:mi></mml:math> -type <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>R</mml:mi><mml:msub><mml:mi>MnO</mml:mi><mml: films studied by neutron and x-ray diffraction. Physical Review B, 2018, 98, .	3.2	10
44	Crossover from multiple- to single-gap superconductivity in Nb5Ir3â^'xPtxO alloys. Physical Review B, 2020, 101, .	3.2	10
45	Multigap superconductivity in the Mo5PB2 boronâ€“phosphorus compound. New Journal of Physics, 2020, 22, 093016.	2.9	10
46	Magnetic phase diagram of Ca-substituted <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Eu</mml:mi><mml:msub><mml:mi>Fe</mml:mi><mml:m Physical Review B, 2018, 98, .	3.2	9
47	Development of magnetism in the solid solution of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ce</mml:mi><mml:mrow><mml:mn>1</mml: : From magnetic topology to spin glass. Physical Review B, 2020, 101, .	3.2	9
48	Pressure effects on the electronic properties of the undoped superconductor ThFeAsN. Physical Review B, 2018, 97, .	3.2	8
49	Nodeless superconductivity in the noncentrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mo</mml:mi><mml:mn>3</mml:mn></mml: mathvariant="normal">N</mml:mi></mml:mrow></mml:math> superconductor: A <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î¼</mml:mi><mml:mi>SR</mml:mi></mml:mrow></mml: study. Physical Review B, 2018, 98, .	3.2	8
50	Multigap superconductivity in centrosymmetric and noncentrosymmetric rhenium-boron superconductors. Physical Review B, 2021, 103, .	3.2	8
51	Multiple mobile excitons manifested as sidebands in quasi-one-dimensional metallic TaSe3. Nature Materials, 2022, 21, 423-429.	27.5	8
52	Tunable magnetic orders in CePd₂As_{2â^'x}P_x. Journal of Physics Condensed Matter, 2014, 26, 045601.	1.8	7
53	Structural disorder and magnetic correlations driven by oxygen doping in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">d</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Ni</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>4</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></		

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55	Effect of IrMn inserted layer on anomalous-Hall resistance and spin-Hall magnetoresistance in Pt/IrMn/YIG heterostructures. Journal of Applied Physics, 2016, 120, .	2.5	6
56	Nodeless superconductivity in the cage-type superconductor Sc₅Ru₆Sn₁₈ with preserved time-reversal symmetry. Journal of Physics Condensed Matter, 2018, 30, 315803.	1.8	6
57	Spontaneous magnetization in unitary superconductors with time reversal symmetry breaking. Physical Review B, 2021, 104, .	3.2	6
58	Ising-type Magnetic Anisotropy in CePd2As2. Scientific Reports, 2017, 7, 7338.	3.3	5
59	Multiphase competition in the quantum XY pyrochlore antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CdYb</mml:mi><mml:mn>2</mml:mn></ : Zero and applied magnetic field study. Physical Review B, 2019, 100, .	3.2	5
60	Unusual <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Al</mml:mi><mml:mprescripts /><mml:none /><mml:mn>27</mml:mn></mml:mmultiscripts></mml:math> NMR shift in the Weyl-fermion systems LaAlGe and PrAlGe. Physical Review B, 2020, 102, .	3.2	5
61	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CePtA</mml:mi><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mi mathvariant="normal">G</mml:mi><mml:msub><mml:mi	3.2	4
62	Strong- to weak-coupling superconductivity in high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:ma bismuthates: Revisiting the phase diagram via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î¼</mml:mi><mml:mi>SR</mml:mi></mml:mrow></mml Physical Review B, 2020, 101, .	3.2	4
63	Facile synthesis of Î´-Bi2O3 particles/rod-like Bi4O7 composite with enhanced visible light-driven photocatalytic performance. Journal of Materials Science: Materials in Electronics, 2022, 33, 4681-4693.	2.2	4
64	Robust magnetic order of Ce 4f-electrons coexisting with superconductivity in CeFeAsO1â^'x F x. Journal of the Korean Physical Society, 2013, 62, 2001-2003.	0.7	2
65	Recent developments on the magnetic and electrical transport properties of FeRh- and Rh-based heterostructures. Journal of Physics Condensed Matter, 2022, 34, 144004.	1.8	2
66	s-wave superconductivity in the noncentrosymmetric W₃Al₂C superconductor: an NMR study. Journal of Physics Condensed Matter, 2022, 34, 194005.	1.8	2
67	Weak ferromagnetism linked to the high-temperature spiral phase of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>YBaCuFeO</mml:mi></ Physical Review Research, 2022, 4, .	3.6	2
68	Anisotropic in-plane resistivity and magnetoresistance of the detwinned BaFe2As2. Journal of the Korean Physical Society, 2013, 63, 453-455.	0.7	1
69	Structure and Magnetic Properties of Ce3(Ni/Al/Ga)11â€"A New Phase with the La3Al11 Structure Type. Crystals, 2015, 5, 1-8.	2.2	1
70	Room-temperature structural phase transition in the quasi-2D spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml Heisenberg antiferromagnet <mml:math		

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73	Fully gapped superconducting state in interstitial-carbon-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Zr</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Pt</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2022, 106, .	3.2	1
74	Magnetocrystalline anisotropic effect inGdCo1â^'xFexAsO(x=0,0.05). Physical Review B, 2015, 91, .	3.2	0
75	Superconductivity of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>MoBe</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>WBe</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> at ambient- and under applied pressure conditions. Physical Review Materials, 2022, 6, .	2.4	0