# Tian Shang

List of Publications by Year
in descending order

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Version: 2024-02-01

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

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Giant magnetoresistance and topological Hall effect in the EuGa<sub>4</sub> antiferromagnet. Journal of Physics Condensed Matter, 2022, 34, 034005. | 1.8 | 14 |
| 2 | Facile synthesis of Î²-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 |
| 3 | 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></mml 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 |
| 4 | 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 |
| 5 | Multiple mobile excitons manifested as sidebands in quasi-one-dimensional metallic TaSe3. Nature Materials, 2022, 21, 423-429. | 27.5 | 8 |
| 6 | s-wave superconductivity in the noncentrosymmetric W<sub>3</sub>Al<sub>2</sub>C superconductor: an NMR study. Journal of Physics Condensed Matter, 2022, 34, 194005. | 1.8 | 2 |
| 7 | Spin-triplet superconductivity in Weyl nodal-line semimetals. Npj Quantum Materials, 2022, 7, . | 5.2 | 14 |
| 8 | 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></mml:mrow><mml:mrow><mml:mn Physical Review Research, 2022, 4, . | 3.6 | 2 |
| 9 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e303" altimg="si40.svg"><mml:mi>Î¼</mml:mi></mml:math>SR investigation of the Fe-doped Ca3Ru2O7 polar metal. Journal of Magnetism and Magnetic Materials, 2022, 551, 169138. | 2.3 | 1 |
| 10 | Evidence of fully gapped superconductivity in NbReSi: A combined <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î¼</mml:mi><mml:mi>SR</mml:mi></mml:math> and NMR study. Physical Review B, 2022, 105, . | 3.2 | 7 |
| 11 | Magnetocrystalline anisotropy of epitaxially grown FeRh/MgO(001) films. Journal of Alloys and Compounds, 2022, 917, 165566. | 5.5 | 1 |
| 12 | 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>22 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>22< Fully gapped superconducting state in interstitial-carbon-doped cubic Mo3Al2C. Physical Review Materials, 2022, 6, . | 2.4 | 0 |
| 13 | Fully gapped superconducting state in the intermetallic <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 |
| 14 | 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></mml antiferromagnet. Physical Review B, 2021, 103, . | 3.2 | 48 |
| 15 | 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></mml Physical Review Letters, 2021, 126, 076602. | 7.8 | 40 |
| 16 | Time-Reversal Symmetry Breaking in Re-Based Superconductors: Recent Developments. Frontiers in Physics, 2021, 9, . | 2.1 | 13 |
| 17 | Multigap superconductivity in centrosymmetric and noncentrosymmetric rhenium-boron superconductors. Physical Review B, 2021, 103, . | 3.2 | 8 |
| 18 | Spontaneous magnetization in unitary superconductors with time reversal symmetry breaking. Physical Review B, 2021, 104, . | 3.2 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Recent progress on superconductors with time-reversal symmetry breaking. Journal of Physics Condensed Matter, 2021, 33, 033001. | 1.8 | 67 |
| 20 | NbReSi: A noncentrosymetric superconductor with large upper critical field. Physical Review Materials, 2021, 5, . | 2.4 | 11 |
| 21 | 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:mn>3</mml:mn> superconductor. Physical Review B, 2020, 102, . | 3.2 | 25 |
| 22 | Re1âˆ’xMox as an ideal test case of time-reversal symmetry breaking in unconventional superconductors. Npj Quantum Materials, 2020, 5, . | 5.2 | 14 |
| 23 | Simultaneous Nodal Superconductivity and Time-Reversal Symmetry Breaking in the Noncentrosymmetric Superconductor CaPtAs. Physical Review Letters, 2020, 124, 207001. | 7.8 | 42 |
| 24 | Magnetic structure and crystalline electric field effects in the triangular antiferromagnet <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 mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physi | 3.2 | 4 |
| 25 | Superconductivity and topological aspects of the rocksalt carbides NbC and TaC. Physical Review B, 2020, 101, . | 3.2 | 30 |
| 26 | 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:mn> : From magnetic topology to spin glass. Physical Review B, 2020, 101, . | 3.2 | 9 |
| 27 | CaPtAs: A new noncentrosymmetric superconductor. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1. | 5.1 | 26 |
| 28 | 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 |
| 29 | Crossover from multiple- to single-gap superconductivity in Nb5Ir3âˆ’xPtxO alloys. Physical Review B, 2020, 101, . | 3.2 | 10 |
| 30 | Multigap superconductivity in the Mo5PB2 boronâ€“phosphorus compound. New Journal of Physics, 2020, 22, 093016. | 2.9 | 10 |
| 31 | 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 |
| 32 | Spin fluctuation induced Weyl semimetal state in the paramagnetic phase of EuCd <sub>2</sub> As <sub>2</sub>. Science Advances, 2019, 5, eaaw4718. | 10.3 | 122 |
| 33 | 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 |
| 34 | Enhanced T<sub>c</sub> and multiband superconductivity in the fully-gapped ReBe<sub>22</sub> superconductor. New Journal of Physics, 2019, 21, 073034. | 2.9 | 29 |
| 35 | 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 |
| 36 | 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>3</mml:mn></mml:msub><mml:mi mathvariant="normal">P</mml:mi></mml:mrow></mml:math> superconductor. Physical Review B, 2019, 99, . | 3.2 | 28 |

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| 37 | Laue three dimensional neutron diffraction. Scientific Reports, 2019, 9, 4798. | 3.3 | 13 |
| 38 | Electronic localization in CaVO3 films via bandwidth control. Npj Quantum Materials, 2019, 4, . | 5.2 | 16 |
| 39 | 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 |
| 40 | 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></mm ( <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 |
| 41 | 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:mn> alloys. Physical Review Materials, 2019, 3, . | 2.4 | 14 |
| 42 | 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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|---|---|---|---|
| 55 | Ising-type Magnetic Anisotropy in CePd2As2. Scientific Reports, 2017, 7, 7338. | 3.3 | 5 |
| 56 | Effect of NiO inserted layer on spin-Hall magnetoresistance in Pt/NiO/YIG heterostructures. Applied Physics Letters, 2016, 109, . | 3.3 | 55 |
| 57 | 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 |
| 58 | Stretchable Spin Valve with Stable Magnetic Field Sensitivity by Ribbon-Patterned Periodic Wrinkles. ACS Nano, 2016, 10, 4403-4409. | 14.6 | 57 |
| 59 | <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, 037001. | 7.8 | 16 |
| 60 | Momentum-Resolved Electronic Structure of the High-<mml:math 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:n 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></ Physical Review Letters, 2016, 117, 037002. | 7.8 | 48 |
| 61 | 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 | 46 |
| 62 | Magnetocrystalline anisotropic effect inGdCo1â^'xFexAsO(x=0,0.05). Physical Review B, 2015, 91, . | 3.2 | 0 |
| 63 | 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 | 64 |
| 64 | Pure spin-Hall magnetoresistance in Rh/Y3Fe5O12 hybrid. Scientific Reports, 2015, 5, 17734. | 3.3 | 25 |
| 65 | Crossover from a heavy fermion to intermediate valence state in noncentrosymmetric Yb2Ni12(P,As)7. Scientific Reports, 2015, 5, 17608. | 3.3 | 16 |
| 66 | 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 |
| 67 | Superconductivity and structural distortion in BaPt<sub>2</sub>As<sub>2</sub>. Journal of Physics Condensed Matter, 2015, 27, 022202. | 1.8 | 13 |
| 68 | Fermi surface reconstruction and multiple quantum phase transitions in the antiferromagnet CeRhIn <sub>5</sub>. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 673-678. | 7.1 | 67 |
| 69 | 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 |
| 70 | Tunable magnetic orders in CePd<sub>2</sub>As<sub>2â^'x</sub>P<sub>x</sub>. Journal of Physics Condensed Matter, 2014, 26, 045601. | 1.8 | 7 |
| 71 | 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 |
| 72 | Anisotropic in-plane resistivity and magnetoresistance of the detwinned BaFe2As2. Journal of the Korean Physical Society, 2013, 63, 453-455. | 0.7 | 1 |

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| 73 | 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 |
| 74 | Local moment ferromagnetism in CeRu<sub>2</sub>Ga<sub>2</sub>B. Journal of Physics Condensed Matter, 2012, 24, 185702. | 1.8 | 10 |
| 75 | Upper critical field and thermally activated flux flow in single-crystalline<mml:math 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 mathvariant="bold">Pb</mml:mi><mml:mrow><mml:mn mathvariant="bold">0</mml:mn><mml:mo>.</m | 3.2 | 30 |