

Xueyun Wang

List of Publications by Year in descending order

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257450

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77
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docs citations

77
times ranked

4138
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Anomalous suppressed thermal conductivity in CuInTe ₂ under pressure. Applied Physics Letters, 2021, 119, . | 3.3 | 11 |
| 20 | The Spacer Cations Interplay for Efficient and Stable Layered 2D Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1901566. | 19.5 | 89 |
| 21 | Thickness-Dependent In-Plane Polarization and Structural Phase Transition in van der Waals Ferroelectric CuInP ₂ S ₆ . Small, 2020, 16, e1904529. | 10.0 | 50 |
| 22 | Anomalous lattice thermal conductivity in layered MNCl (M = Zr, Hf) materials driven by lanthanide contraction. Journal of Materials Chemistry A, 2020, 8, 3128-3134. | 10.3 | 14 |
| 23 | An <i>in situ</i> cross-linked 1D/3D perovskite heterostructure improves the stability of hybrid perovskite solar cells for over 3000 h operation. Energy and Environmental Science, 2020, 13, 4344-4352. | 30.8 | 142 |
| 24 | Data-driven computational prediction and experimental realization of exotic perovskite-related polar magnets. Npj Quantum Materials, 2020, 5, . | 5.2 | 14 |
| 25 | Encapsulated X-Ray Detector Enabled by All-Inorganic Lead-Free Perovskite Film With High Sensitivity and Low Detection Limit. IEEE Transactions on Electron Devices, 2020, 67, 3191-3198. | 3.0 | 40 |
| 26 | Bifunctional Photoelectrode Driven by Charged Domain Walls in Ferroelectric Bi ₂ WO ₆ . ACS Applied Energy Materials, 2020, 3, 4149-4154. | 5.1 | 19 |
| 27 | Domain evolution in bended freestanding BaTiO ₃ ultrathin films: A phase-field simulation. Applied Physics Letters, 2020, 116, . | 3.3 | 15 |
| 28 | Spin Liquid State and Topological Structural Defects in Hexagonal $TbInO_3$. Physical Review X, 2019, 9, . | 8.9 | 14 |
| 29 | Emerging ferromagnetic phase in self-assembled mixed valence manganite nanowires. Applied Physics Letters, 2019, 115, 162405. | 3.3 | 0 |
| 30 | Coexistence of Magnetism and Ferroelectricity in 3d Transition-Metal-Doped SnTe Monolayer. Journal of Physical Chemistry C, 2019, 123, 28919-28924. | 3.1 | 12 |
| 31 | Local stress enhanced photocurrent of visible light photo-detection in Cs ₂ AgBiBr ₆ single crystal. Applied Physics Letters, 2019, 115, . | 3.3 | 17 |
| 32 | Two-dimensional spin liquid behaviour in the triangular-honeycomb antiferromagnet TbInO ₃ . Nature Physics, 2019, 15, 262-268. | 16.7 | 47 |
| 33 | Controllable Ferroelastic Switching in Epitaxial Self-Assembled Aurivillius Nanobricks. ACS Applied Materials & Interfaces, 2019, 11, 7296-7302. | 8.0 | 9 |
| 34 | Cation and anion immobilization through chemical bonding enhancement with fluorides for stable halide perovskite solar cells. Nature Energy, 2019, 4, 408-415. | 39.5 | 831 |
| 35 | Low-temperature anharmonicity and the thermal conductivity of cesium iodide. Physical Review B, 2019, 99, . | 3.2 | 11 |
| 36 | Weak exchange striction between the 4f and 3d ions in the multiferroic GdMn ₂ O ₅ . Physical Review B, 2019, 99, . | 3.2 | 3 |

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| 37 | X-Ray Detector Based on All-Inorganic Lead-Free Cs ₂ AgBiBr ₆ Perovskite Single Crystal. IEEE Transactions on Electron Devices, 2019, 66, 2224-2229. | 3.0 | 57 |
| 38 | Anisotropic resistance switching in hexagonal manganites. Physical Review B, 2019, 99, . | 3.2 | 13 |
| 39 | Topological dynamics of vortex-line networks in hexagonal manganites. Physical Review B, 2018, 97, . | 3.2 | 10 |
| 40 | Topological Phase Transition with Nanoscale Inhomogeneity in (Bi _{1-x} In _x) ₂ Se ₃ . Nano Letters, 2018, 18, 2677-2682. | 9.1 | 7 |
| 41 | The direct observation of ferromagnetic domain of single crystal CrSiTe ₃ . AIP Advances, 2018, 8, . | 1.3 | 10 |
| 42 | Non-monotonic thickness dependence of Curie temperature and ferroelectricity in two-dimensional SnTe film. Applied Physics Letters, 2018, 113, . | 3.3 | 7 |
| 43 | Half-metallicity in two-dimensional Co ₂ Se ₃ monolayer with superior mechanical flexibility. 2D Materials, 2018, 5, 045026. | 4.4 | 29 |
| 44 | Linearly aligned single-chiral vortices in hexagonal manganites by in situ electric arc heating. Physical Review Materials, 2018, 2, . | 2.4 | 4 |
| 45 | Spin wave and spin flip in hexagonal LuMnO ₃ single crystal. Applied Physics Letters, 2017, 110, 122405. | 3.3 | 4 |
| 46 | Phase-field simulation of strain-induced ferroelectric domain evolution in hexagonal manganites. Journal of Alloys and Compounds, 2017, 719, 455-459. | 5.5 | 3 |
| 47 | Strain-induced incommensurate phases in hexagonal manganites. Physical Review B, 2017, 96, . | 3.2 | 13 |
| 48 | Chiral Spin Mode on the Surface of a Topological Insulator. Physical Review Letters, 2017, 119, 136802. | 7.8 | 33 |
| 49 | Micromagnetic simulation of electric field-modulation on precession dynamics of spin torque nano-oscillator. Applied Physics Letters, 2017, 111, . | 3.3 | 4 |
| 50 | Surface vibrational modes of the topological insulator Bi_2Te_3 observed by Raman spectroscopy. Physical Review B, 2017, 95, . | 2.2 | 18 |
| 51 | Solid state reaction for the formation of spinel MgFe ₂ O ₄ across perovskite oxide interface. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1. | 5.1 | 11 |
| 52 | A comparison study of solving diffusion equations with different algorithm methods. AIP Advances, 2016, 6, 125043. | 1.3 | 3 |
| 53 | Magnetoelectric phase diagrams of multiferroic GdMn ₂ O ₅ . Physical Review B, 2016, 94, . | 3.2 | 23 |
| 54 | Directly probing spin dynamics in insulating antiferromagnets using ultrashort terahertz pulses. Physical Review B, 2016, 94, . | 3.2 | 8 |

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| 55 | Toward the Intrinsic Limit of the Topological Insulator $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Bi} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 106401$. Physical Review Letters, 2016, 117, 106401. | 7.8 | 66 |
| 56 | Features of the low-frequency polarization response in the region of the ferroelectric phase transition in multiferroic TbMnO ₃ . Physics of the Solid State, 2016, 58, 2021-2026. | 0.6 | 2 |
| 57 | Partial glass isosymmetry transition in multiferroic hexagonalErMnO ₃ . Physical Review B, 2016, 93, . | 3.2 | 7 |
| 58 | Pressure dependent structural changes and predicted electrical polarization in perovskite $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{R} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 056005$. Journal of Physics Condensed Matter, 2016, 28, 056005. | 1.8 | 2 |
| 59 | Tracking the continuous spin-flop transition in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Ni} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 32 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 126$ infrared spectroscopy. Physical Review B, 2015, 92, . | 3.2 | 26 |
| 60 | Sudden gap closure across the topological phase transition in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Bi} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 112 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2$. Physical Review B, 2015, 92, . | 3.2 | 16 |
| 61 | Self-poling with oxygen off-stoichiometry in ferroelectric hexagonal manganites. APL Materials, 2015, 3, 041505. | 5.1 | 26 |
| 62 | Interlocked chiral/polar domain walls and large optical rotation in Ni ₃ TeO ₆ . APL Materials, 2015, 3, . | 5.1 | 18 |
| 63 | Study of spin-ordering and spin-reorientation transitions in hexagonal manganites through Raman spectroscopy. Scientific Reports, 2015, 5, 13366. | 3.3 | 16 |
| 64 | Evolution of the statistical distribution in a topological defect network. Scientific Reports, 2015, 5, 17057. | 3.3 | 17 |
| 65 | Duality of Topological Defects in Hexagonal Manganites. Physical Review Letters, 2014, 113, 267602. | 7.8 | 40 |
| 66 | Spectroscopic signatures of domain walls in hexagonalErMnO ₃ . Physical Review B, 2014, 90, . | 3.2 | 7 |
| 67 | Direct visualization of magnetoelectric domains. Nature Materials, 2014, 13, 163-167. | 27.5 | 112 |
| 68 | Topological defects as relics of emergent continuous symmetry and Higgs condensation $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{R} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Mn} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 970977$ disorder in ferroelectrics. Nature Physics, 2014, 10, 970-977. | 16.7 | 136 |
| 69 | Infrared-active optical phonons and magnetic excitations in the hexagonal manganites $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{R} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Mn} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 103784314$ ($\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Tj} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 103784314$) / Overlaid | 7.8 | 49 |
| 70 | Optical evidence of surface state suppression in Bi-based topological insulators. Physical Review B, 2014, 89, . | 3.2 | 56 |
| 71 | Unfolding of Vortices into Topological Stripes in a Multiferroic Material. Physical Review Letters, 2014, 112, 247601. | 7.8 | 47 |
| 72 | Delicate balance between ferroelectricity and antiferroelectricity in hexagonal InMnO $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 87$. Physical Review B, 2013, 87, . | 3.2 | 31 |

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|----|--|------|-----------|
| 73 | Ferroelectric Switching Dynamics of Topological Vortex Domains in a Hexagonal Manganite. <i>Advanced Materials</i> , 2013, 25, 2415-2421. | 21.0 | 91 |
| 74 | Ultrafast terahertz transmission ellipsometry of YMn ₂ O ₅ electromagnons. <i>Applied Physics Letters</i> , 2012, 101, 242911. | 3.3 | 1 |
| 75 | Stable Large-area Monodomain in As-Grown Bulk Ferroelectric Single Crystal Sn ₂ P ₂ S ₆ . <i>Journal of Advanced Dielectrics</i> , 0, , . | 2.4 | 1 |