Nan Xu

List of Publications by Year
in descending order

49 papers	3,047 citations	236925 25 h-index	197818 49 g-index
49 all docs	49 docs citations	49 times ranked	3922 citing authors

#	Article	IF	Citations
1	Observation of Weyl nodes in TaAs. Nature Physics, 2015, 11, 724-727.	16.7	867
2	Observation of Weyl nodes and Fermi arcs in tantalum phosphide. Nature Communications, 2016, 7, 11006.	12.8	264
3	Direct observation of the spin texture in SmB6 as evidence of the topological Kondo insulator. Nature Communications, 2014, 5, 4566.	12.8	193
4	Surface and bulk electronic structure of the strongly correlated system SmB<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>6</mml:mn></mml:msub></mml:math>and implications for a topological Kondo insulator. Physical Review B, 2013, 88, .	3.2	179
5	Extremely high magnetoresistance and conductivity in the type-II Weyl semimetals WP2 and MoP2. Nature Communications, 2017, 8, 1642.	12.8	178
6	Isotropic superconducting gaps with enhanced pairing on electron Fermi surfaces in FeTe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.55</mml:mn></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:mrow><mml:mn>0.45</mml:mn></mml:mrow></mml:msub></mml:math>. Physical Review B, 2012, 85, .	3.2	129
7	Observation of Fermi-Arc Spin Texture in TaAs. Physical Review Letters, 2015, 115, 217601.	7.8	115
8	Unconventional superconducting gap in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="bold">NaFe</mml:mi><mml:mrow><mml:mn mathvariant="bold">0</mml:mn><mml:mo>.</mml:mo><mml:mn mathvariant="bold">95</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow /><mml:mrow><mml:mn>0.1</mml:mn></mml:mrow></mml:msub></mml:math>K<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.9</mml:mn></mml:mrow></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math> Single Crystals Revealed by Penetration Depth and Nuclear Magnetic Resonance Measurements. Physical Review Letters, 2012, 109, .	3.2	75
9	Dynamical Correlations and Screened Exchange on the Experimental Bench: Spectral Properties of the Cobalt Pnictide<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BaCo</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>As</mml:mi><mml:mi> Physical Review Letters, 2014, 113, 266403.	3.2	74
10	Orbital characters determined from Fermi surface intensity patterns using angle-resolved photoemission spectroscopy. Physical Review B, 2012, 85, .	7.8	50
11	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:mrow></mml:msub></mml:mrow></mml:math> 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></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2016, 117, 037002.	3.2	48
12	Exotic Kondo crossover in a wide temperature region in the topological Kondo insulatorSmB6revealed by high-resolution ARPES. Physical Review B, 2014, 90, .	7.8	48
13	Observation of Weyl Nodes in Robust Type-II Weyl Semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WP</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2019, 122, 176402.	3.2	43
14	Electronic Band Structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BaCo</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>As</mml:mi><mml:mi> A Fully Doped Ferropnictide Analog with Reduced Electronic Correlations. Physical Review X, 2013, 3, .	7.8	42
15	Three Dimensionality and Orbital Characters of the Fermi Surface in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo stretchy="false">(</mml:mo><mml:mi>Tl</mml:mi><mml:mo>,</mml:mo><mml:mi>Rb</mml:mi><mml:msub><mml:mo> Physical Review Letters, 2012, 109, 037003.	8.6	41
16	Evolution from incoherence to coherence in electronic states and its implications for superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">FeTe</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Se</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:math>. Physical Review B, 2012,	3.2	37
17	Evidence of a Coulomb-Interaction-Induced Lifshitz Transition and Robust Hybrid Weyl Semimetal in <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>d</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2018, 121, 136401.	7.8	37

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19	Tuning the metal-insulator transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NdNiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> Effects of Ru substitution on electron correlations and Fermi surface dimensionality in Ba(Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 717 Td (display="inline">	3.2	35
20		3.2	34
21	Evolution of electronic structure upon Cu doping in the topological insulator Bi<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>Se<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	33
22	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
23	Spin-orbit-controlled metalâ€“insulator transition in Sr2IrO4. Nature Physics, 2020, 16, 290-294.	16.7	30
24	High-temperature superconductivity from fine-tuning of Fermi-surface singularities in iron oxypnictides. Scientific Reports, 2015, 5, 18273.	3.3	29
25	Distinct Evolutions of Weyl Fermion Quasiparticles and Fermi Arcs with Bulk Band Topology in Weyl Semimetals. Physical Review Letters, 2017, 118, 106406.	7.8	27
26	Quasinested Fe orbitals versus Mott-insulating V orbitals in superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Sr</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="bold">VFeAsO</mml:mi><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>as seen from angle-resolved photoemission. Physical Review B, 2011, 83, .	3.2	25
27	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CaAg</mml:mi><mml:mo>(</mml:mo><mml:msub><m Physical Review B, 2018, 97, .	3.2	25
28	Dirac states with knobs on: Interplay of external parameters and the surface electronic properties of three-dimensional topological insulators. Physical Review B, 2015, 91, .	3.2	24
29	Correlation-Induced Self-Doping in the Iron-Pnictide Superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Ti</mml:mi><mml:m mathvariant="normal">O</mml:mi></mml:math>. Physical Review Letters, 2014, 113, 266407.	7.8	21
30	Structural phase transition associated with van Hove singularity in 5d transition metal compound IrTe₂. New Journal of Physics, 2014, 16, 123038.	2.9	21
31	Spin-Resolved Electronic Response to the Phase Transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoTe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ Physical Review Letters, 2018, 121, 156401.	7.8	21
32	Directional massless Dirac fermions in a layered van der Waals material with one-dimensional long-range order. Nature Materials, 2020, 19, 27-33.	27.5	21
33	Observation of an electron band above the Fermi level in FeTe0.55Se0.45 from in-situ surface doping. Applied Physics Letters, 2014, 105, .	3.3	18
34	Universal scattering response across the type-II Weyl semimetal phase diagram. Physical Review B, 2018, 97, .	3.2	17
35	Direct spectroscopic evidence for completely filled Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaCu</mml:mi><mml:mn>2</mml:mn></ Angle-resolved photoemission observation of Mn-pnictide hybridization and negligible band structure renormalization in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaMn</mml:mi><mml:mn>2</mml:mn></m and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaMn</mml:mi><mml:mn>2</mml:mn></m Physical Review B, 2016, 94, .	3.2	16
36		3.2	16

#	ARTICLE	IF	CITATIONS
37	<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:mn A Pnictide Insulating Phase Induced by On-Site Coulomb Interaction. Physical Review Letters, 2016, 117, 097001.	7.8	16
38	Spin- and angle-resolved photoemission on the topological Kondo insulator candidate: SmB₆. Journal of Physics Condensed Matter, 2016, 28, 363001.	1.8	15
39	A tunable and unidirectional one-dimensional electronic system Nb2n+1SinTe4n+2. Npj Quantum Materials, 2020, 5, .	5.2	15
40	Growth of 2D MoP single crystals on liquid metals by chemical vapor deposition. Science China Materials, 2021, 64, 1182-1188.	6.3	15
41	Experimental Investigation of the Electronic Structure of Ca 0.83 La 0.17 Fe 2 As 2. Chinese Physics Letters, 2013, 30, 017402.	3.3	13
42	Camelback-shaped band reconciles heavy-electron behavior with weak electronic Coulomb correlations in superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">TlNi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Se</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 92, .	3.2	13
43	Inherited weak topological insulator signatures in the topological hourglass semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nb</mml:mi><mml:mn>3</mml:mn></m <mml:math		