Sheng Ran

List of Publications by Year
in descending order

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26	1,311	567144 15	552653 26
papers	citations	h-index	g-index

26	26	26	852
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nearly ferromagnetic spin-triplet superconductivity. Science, 2019, 365, 684-687.	6.0	351
2	Chiral superconductivity in heavy-fermion metal UTe2. Nature, 2020, 579, 523-527.	13.7	193
3	Extreme magnetic field-boosted superconductivity. Nature Physics, 2019, 15, 1250-1254.	6.5	138
4	Coexistence of ferromagnetic fluctuations and superconductivity in the actinide superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>UTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2019, 100, .	1.1	87
5	Multicomponent superconducting order parameter in UTe ₂. Science, 2021, 373, 797-801.	6.0	83
6	Point-node gap structure of the spin-triplet superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>UTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2019, 100, .	1.1	69
7	Low Energy Band Structure and Symmetries of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>UTe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2020, 124, 076401.	2.9	59
8	Enhancement and reentrance of spin triplet superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">UTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> under pressure. Physical Review B, 2020, 101, .	1.1	48
9	Anomalous normal fluid response in a chiral superconductor UTe2. Nature Communications, 2021, 12, 2644.	5.8	38
10	Tuning magnetic confinement of spin-triplet superconductivity. Npj Quantum Materials, 2020, 5, .	1.8	31
11	Analogy Between the â€œHidden Orderâ€•and the Orbital Antiferromagnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>URu</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Physical Review Letters, 2016, 117, 227601.	2.9	28
12	Low-temperature crystal structure of the unconventional spin-triplet superconductor UTe₂from single-crystal neutron diffraction. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 137-143.	0.5	26
13	From antiferromagnetic and hidden order to Pauli paramagnetism in U M ₂ Si ₂ compounds with 5 f electron duality. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30220-30227.	3.3	25
14	Orbital-selective Kondo lattice and enigmatic f electrons emerging from inside the antiferromagnetic phase of a heavy fermion. Science Advances, 2019, 5, eaaw9061.	4.7	22
15	Interplay between magnetism and superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>UTe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2022, 105, .	1.1	20
16	Expansion of the high field-boosted superconductivity in UTe2 under pressure. Npj Quantum Materials, 2021, 6, .	1.8	15
17	Distinct magnetic spectra in the hidden order and antiferromagnetic phases in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>URu</mml:mi><mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2016, 94, .	1.1	14
18	High temperature singlet-based magnetism from Hundâ€™s rule correlations. Nature Communications, 2019, 10, 644.	5.8	12

#	Article	IF	Citations
19	Symmetry of magnetic correlations in spin-triplet superconductor UTe2. Npj Quantum Materials, 2022, 7, .	1.8	11
20	Possible coexistence of antiferromagnetic and ferromagnetic spin fluctuations in the spin-triplet superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">UTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> revealed by <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Te</mml:mi><mml:mprescripts /><mml:none /><mml:mn>125</mml:mn></mml:mmultiscripts></mml:math> NMR under pressure. Physical Review	1.1	10
21	Isoelectronic perturbations to f - d -electron hybridization and the enhancement of hidden order in URu ₂ Si ₂. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	8
22	Nitrogen plasma passivated niobium resonators for superconducting quantum circuits. Applied Physics Letters, 2022, 120, .	1.5	7
23	Coupled spin waves and crystalline electric field levels in candidate multiferroic ErFeO3. Journal of Applied Physics, 2021, 130, .	1.1	6
24	From hidden order to antiferromagnetism: Electronic structure changes in Fe-doped URu ₂ Si ₂. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	5
25	Comparison of Two Different Synthesis Methods of Single Crystals of Superconducting Uranium Ditelluride. Journal of Visualized Experiments, 2021, , .	0.2	4
26	Quasiparticle relaxation dynamics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>URu</mml:mi><mml:mrow><mml:mn>2</mml:m single crystals. Physical Review B, 2019, 99, .	1.1	1