Saicharan Aswartham

List of Publications by Year
in descending order

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		394421	414414
80	1,296	19	32
papers	citations	h-index	g-index

82	82	82	1737
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis and Physical Properties of Iridium-Based Sulfide Ca1â^'xIr4S6(S2) [x = 0.23â€“0.33]. Electronic Materials, 2022, 3, 41-52.	1.9	0
2	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">P</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>31</mml:mn></mml:mrow></mml:mmultiscripts></mml:math> NMR investigation of quasi-two-dimensional magnetic correlations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:m	3.2	8
3	<mml:msub><mml:mi mathvariant="normal">P</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant Frustration model and spin excitations in the helimagnet FeP. Physical Review B, 2022, 105, .	3.2	7
4	Elastoresistivity of Heavily Hole-Doped 122 Iron Pnictide Superconductors. Frontiers in Physics, 2022, 10, .	2.1	0
5	Strong effects of uniaxial pressure and short-range correlations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review Research, 2022, 4, .	3.2	8
6	Low-energy excitations and magnetic anisotropy of the layered van der Waals antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ni</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">P</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2022, 105, .	3.2	6
7	Fermi surface tomography. Nature Communications, 2022, 13, .	12.8	6
8	Mechanical control of physical properties in the van der Waals ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> via application of electric current. Physical Review B, 2022, 106, .	3.2	2
9	Pressure control of the magnetic anisotropy of the quasi-two-dimensional van der Waals ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Cr</mml:mi></mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2021, 103, .	3.2	16
10	Sixfold fermion near the Fermi level in cubic PtBi2. SciPost Physics, 2021, 10, .	4.9	8
11	Magnetically induced local lattice anomalies and low-frequency fluctuations in the Mott insulator La2O3Fe2Se2. Physical Review B, 2021, 103, .	3.2	1
12	Strain derivative of thermoelectric properties as a sensitive probe for nematicity. Npj Quantum Materials, 2021, 6, .	5.2	5
13	Linkage between scattering rates and superconductivity in doped ferropnictides. Physical Review B, 2021, 103, .	3.2	9
14	Mapping out the spin fluctuations in Co-doped LaFeAsO single crystals by NMR. Physical Review B, 2021, 103, .	3.2	2
15	Revisiting the phase diagram of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">LaFe</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">Co</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi>AsO</mml:mi></mml:math> In single crystals by thermodynamic methods. Physical Review B, 2021, 103, .	3.2	7
16	Crystal Growth of the Quasi-2D Quarternary Compound AgCrP2S6 by Chemical Vapor Transport. Crystals, 2021, 11, 500.	2.2	8
17	Anomalous band renormalization due to a high-energy kink in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">K</mml:mi><mml:mn>0.65</mml:mn></mml:msub><mml:msub><mml:mi>RhO</mml:mi> with colossal thermoelectric power factor. Physical Review Materials, 2021, 5, .	2.4	0
18	Crystal growth and anisotropic magnetic properties of quasi-two-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mi>Fe</mml:mi> mathvariant="normal". Physical Review Materials, 2021, 5, .	2.4	22

#	Article	IF	Citations
19	Tuning Magnetic and Transport Properties in Quasi-2D (Mn1âˆ’xNix)2P2S6 Single Crystals. Electronic Materials, 2021, 2, 284-298.	1.9	19
20	Layered van der Waals Topological Metals of TaTMTe4 (TM = Ir, Rh, Ru) Family. Journal of Physical Chemistry Letters, 2021, 12, 6730-6735.	4.6	8
21	Switchable domains in point contacts based on transition metal tellurides. Physical Review Materials, 2021, 5, .	2.4	3
22	Fractional spin fluctuations and quantum liquid signature in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Gd</mml:mi><mml:mn>2</mml:mn></mml: Physical Review B, 2021, 104, .	3.2	2
23	Evolution of the Nematic Susceptibility in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>LaFe</mml:mi></mml:mrow><mml:mrow><mml:mn> Physical Review Letters, 2020, 125, 067001.	7.8	15
24	Strongly correlated superconductor with polytypic 3D Dirac points. Npj Quantum Materials, 2020, 5, .	5.2	10
25	Quasi-two-dimensional magnetic correlations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ni</mml:mi><mml:mn>2</mml:mn></mml:mr mathvariant="normal">P</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>probed by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">P</mml:mi><mml:mprescripts /><mml:none /><mml:mn>. Physical Review B, 2020	3.2	13
26	Momentum dependent $$d_{xz/yz}$$ band splitting in LaFeAsO. Scientific Reports, 2020, 10, 19377.	3.3	3
27	Superconductivity with broken time-reversal symmetry inside a superconducting s-wave state. Nature Physics, 2020, 16, 789-794.	16.7	59
28	Electronic structure studies of FeSi: A chiral topological system. Physical Review B, 2020, 101, .	3.2	15
29	Magnetic anisotropy and low-field magnetic phase diagram of the quasi-two-dimensional ferromagnet Cr2Ge2Te6. Physical Review B, 2020, 101, .	3.2	26
30	Separate tuning of nematicity and spin fluctuations to unravel the origin of superconductivity in FeSe. Npj Quantum Materials, 2020, 5, .	5.2	18
31	Unified phase diagram of F-doped LaFeAsO by means of NMR and NQR parameters. Physical Review B, 2020, 101, .	3.2	7
32	Complex magnetic properties in the mixed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:mi mathvariant="italic">f</mml:mi><mml:mo>â^’</mml:mo><mml:mn>5</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math> double perovskite iridates <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>X</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:m mathvariant="normal">ZnIrO</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:mo		

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37	Disorder-induced coupling of Weyl nodes in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Research, 2020, 2, .	3.6	4
38	Coupling of lattice, spin, and intraconfigurational excitations of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Eu</mml:mi></mml:mrow><mml:mrow><mml:mi in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Eu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Research, 2020, 2, .	3.6	11
39	Lattice dynamics in the double-helix antiferromagnet FeP. Physical Review Research, 2020, 2, .	3.6	4
40	NMR study of magnetic structure and hyperfine interactions in the binary helimagnet FeP. Physical Review B, 2020, 102, .	3.2	1
41	Energy scale of nematic ordering in the parent iron-based superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 100, .	3.2	10
42	Probing the reconstructed Fermi surface of antiferromagnetic BaFe2As2 in one domain. Npj Quantum Materials, 2019, 4, .	5.2	26
43	Yanson point-contact spectroscopy of Weyl semimetal WTe ₂. 2D Materials, 2019, 6, 045012.	4.4	4
44	Evidence of hot and cold spots on the Fermi surface of LiFeAs. Physical Review B, 2019, 99, .	3.2	20
45	Bandwidth controlled insulator-metal transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> : A MÃ¶ssbauer study under pressure. Physical Review B, 2019, 99, .	3.2	18
46	Charge and nematic orders in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:msub><mml:mi>Fe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> superconductors. Physical Review B, 2019, 99, .	3.2	13
47	Magnetic anisotropy and spin-polarized two-dimensional electron gas in the van der Waals ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 99, .	3.2	56
48	Nematicity and structure in LaFe1-xCoxAsO. Journal of Magnetism and Magnetic Materials, 2019, 482, 50-53.	2.3	5
49	Strong spin resonance mode associated with suppression of soft magnetic ordering in hole-doped Ba1-xNaxFe2As2. Npj Quantum Materials, 2019, 4, .	5.2	7
50	Absence of Dirac fermions in layered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaZnBi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Materials, 2019, 3, .	2.4	6
51	Possible origin of linear magnetoresistance: Observation of Dirac surface states in layered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PtBi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2018, 97, .	3.2	23
52	Mass Enhancements and Band Shifts in Strongly Hole-Overdoped Fe-Based Pnictide Superconductors: KFe2As2 and CsFe2As2. Journal of Superconductivity and Novel Magnetism, 2018, 31, 777-783.	1.8	6
53	Three-dimensional electronic structure of the nematic and antiferromagnetic phases of NaFeAs from detwinned angle-resolved photoemission spectroscopy. Physical Review B, 2018, 97, .	3.2	15
54	Interplay of <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:math> - and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>5</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:math> -sublattice magnetism in the double perovskite substitution series <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mn>2</mml:mn></mml:math>	3.2	17

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55	Three-dimensional superconducting gap in FeSe from angle-resolved photoemission spectroscopy. Physical Review B, 2018, 97, .	3.2	49
56	Solid state single crystal growth of three-dimensional faceted LaFeAsO crystals. Journal of Crystal Growth, 2018, 483, 9-15.	1.5	20
57	Suppression of the magnetic order in CeFeAsO: Nonequivalence of hydrostatic and in-plane chemical pressure. Physical Review B, 2018, 98, .	3.2	4
58	Microscopic phase diagram of LaFeAsO single crystals under pressure. Physical Review B, 2018, 98, .	3.2	2
59	Static and dynamic magnetism of the Ir-based double perovskites La2BIrO6 (B=Co , Zn) probed by magnetic resonance spectroscopies. Physical Review B, 2018, 98, .	3.2	9
60	Spectroscopic evidence of topological phase transition in the three-dimensional Dirac semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cd</mml:mi><mml:mn>3</mml:mn></mml: Physical Review B, 2018, 98, .	3.2	9
61	Nematicity and magnetism in LaFeAsO single crystals probed by As75 nuclear magnetic resonance. Physical Review B, 2018, 97, .	3.2	9
62	Surface superconductivity in the Weyl semimetal MoTe ₂ detected by point contact spectroscopy. 2D Materials, 2018, 5, 045014.	4.4	26
63	Thickness dependent electronic structure of exfoliated mono- and few-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:msup><mml:mrow><mml:mi mathvariant="normal">T</mml:mi></mml:mrow><mml:mo>â€²</mml:mo></mml:msup><mml:mtext>â^'</mml:mtext><mml:msub><m Physical Review Materials, 2018, 2, .	2.4	13
64	Spin reorientation transition in Naâ€doped BaFe₂As₂ studied by singleâ€crystal neutron diffraction. Physica Status Solidi (B): Basic Research, 2017, 254, 1600181.	1.5	1
65	Unusual two-dimensional behavior of iron-based superconductors with low anisotropy. Physical Review B, 2017, 96, .	3.2	11
66	High-energy electronic interaction in the <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:m band of high-temperature iron-based superconductors. Physical Review B, 2017, 96, .	3.2	7
67	Crystal growth and electronic phase diagram of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:mi>d</mml:mi><mml:mtext>â^'</m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Na</mml:mi><mml:mrow><mml:mn>1</m Physical Review B, 2015, 91, .	3.2	18
68	Spin reorientation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mrow><mml:mn>0.65</ by single-crystal neutron diffraction. Physical Review B, 2015, 91, .	3.2	65
69	Superconducting specific-heat jump<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î"</mml:mi><mml:msub><mml:mi>C</mml:mi><mml:mi xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mtext>K</mml:mtext. Physical Review B, 2014, 89, .	3.2	32
70	Superconducting properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">K</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mtext>â^'</mml:mtext><mml:mi>x</mml:mi></mml:mro mathvariant="normal">Na</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">As ... Ph	3.2	13
71	... <mml:mi>x</mml:mi><mml:mi in hole-doped BaFe<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	3.2	44
72	Identical spin fluctuations in Cu- and Co-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">As</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>independent of electron doping. Physical Review B, 2014, 90, .	3.2	16

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73	Flux dynamics and avalanches in the 122 pnictide superconductor Ba_{0.65}Na_{0.35}Fe₂As₂. Journal of Physics Condensed Matter, 2013, 25, 495701.	1.8	24
74	Evidence of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>-wave superconductivity in K<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.or. Physical	3.2	37
75	<mml:mn>2</mml:mn></mml:msub></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>: A polarized inelastic neutron scattering study.	3.2	50
76	Specific heat and upper critical fields in KFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>single crystals. Physical Review B, 2012, 85, .	3.2	80
77	<mml:mn>2</mml:mn></mml:msub></mml:math>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>: The case of Ba<mml:math	3.2	42
78	Single crystal growth and physical properties of superconducting ferro-pnictides Ba(Fe, Co)2As2 grown using self-flux and Bridgman techniques. Journal of Crystal Growth, 2011, 314, 341-348.	1.5	27
79	<mml:mrow><mml:mn>0.65</mml:mn></mml:mrow></mml:msub></mml:math>Na<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.35</mml:mn></mml:mrow></mml:msub></mml:math>Fe<mml:math	3.2	40
80	Critical current and vortex dynamics in single crystals of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Ca</mml:mtext><mml:msub><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow Physical Review B, 2010, 82, .	3.2	32