

Saicharan Aswartham

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,296
citations

394421

19
h-index

414414

32
g-index

82
all docs

82
docs citations

82
times ranked

1737
citing authors

#	ARTICLE	IF	CITATIONS
1	Specific heat and upper critical fields in KFe_2As_2 . Physical Review B, 2012, 85, .	3.2	80
2	Spin reorientation in $Ba_{0.65}Na_{0.35}Fe_2As_2$ by single-crystal neutron diffraction. Physical Review B, 2015, 91, .	3.2	65
3	Superconductivity with broken time-reversal symmetry inside a superconducting s-wave state. Nature Physics, 2020, 16, 789-794.	16.7	59
4	Magnetic anisotropy and spin-polarized two-dimensional electron gas in the van der Waals ferromagnet Cr_2 . Physical Review B, 2019, 99, .	3.2	56
5	As_2 : A polarized inelastic neutron scattering study. Physical Review B, 2012, 86, .	3.2	50
6	Three-dimensional superconducting gap in FeSe from angle-resolved photoemission spectroscopy. Physical Review B, 2018, 97, .	3.2	49
7	Strong electron pairing at the iron d -wave superconductivity in hole-doped $BaFe_2$. Physical Review B, 2019, 99, .	3.2	44
8	Hole doping in $BaFe_2$. Physical Review B, 2019, 99, .	3.2	42
9	The case of $Ba_{0.65}Na_{0.35}Fe_2$. Evidence of d -wave superconductivity in K . Physical Review B, 2010, 82, .	3.2	40
10	d -wave superconductivity in K . Physical Review B, 2010, 82, .	3.2	37
11	Critical current and vortex dynamics in single crystals of $Ba_{0.65}Na_{0.35}Fe_2$. Physical Review B, 2010, 82, .	3.2	32
12	Superconducting specific-heat jump in K . Physical Review B, 2014, 89, .	3.2	32
13	Single crystal growth and physical properties of superconducting ferro-pnictides $Ba(Fe, Co)_2As_2$ grown using self-flux and Bridgman techniques. Journal of Crystal Growth, 2011, 314, 341-348.	1.5	27
14	Surface superconductivity in the Weyl semimetal $MoTe_2$ detected by point contact spectroscopy. 2D Materials, 2018, 5, 045014.	4.4	26
15	Probing the reconstructed Fermi surface of antiferromagnetic $BaFe_2As_2$ in one domain. Npj Quantum Materials, 2019, 4, .	5.2	26
16	Magnetic anisotropy and low-field magnetic phase diagram of the quasi-two-dimensional ferromagnet $Cr_2Ge_2Te_6$. Physical Review B, 2020, 101, .	3.2	26
17	Flux dynamics and avalanches in the 122 pnictide superconductor $Ba_{0.65}Na_{0.35}Fe_2As_2$. Journal of Physics Condensed Matter, 2013, 25, 495701.	1.8	24
18	Possible origin of linear magnetoresistance: Observation of Dirac surface states in layered $PtBi_2$. Physical Review B, 2018, 97, .	3.2	23

#	ARTICLE	IF	CITATIONS
19	Crystal growth and anisotropic magnetic properties of quasi-two-dimensional $\text{Fe}_2\text{Te}_2\text{S}_5$. Physical Review Materials, 2021, 5, .		
20	Solid state single crystal growth of three-dimensional faceted LaFeAsO crystals. Journal of Crystal Growth, 2018, 483, 9-15.	1.5	20
21	Evidence of hot and cold spots on the Fermi surface of LiFeAs. Physical Review B, 2019, 99, .	3.2	20
22	Tuning Magnetic and Transport Properties in Quasi-2D $(\text{Mn}_{1-x}\text{Ni}_x)\text{P}_2\text{S}_6$ Single Crystals. Electronic Materials, 2021, 2, 284-298.	1.9	19
23	Crystal growth and electronic phase diagram of $\text{Na}_2\text{Fe}_2\text{S}_3$. Physical Review B, 2015, 91, .	3.2	18
24	Bandwidth controlled insulator-metal transition in BaFe_2S_3 : A Mössbauer study under pressure. Physical Review B, 2019, 99, .	3.2	18
25	Separate tuning of nematicity and spin fluctuations to unravel the origin of superconductivity in FeSe. Npj Quantum Materials, 2020, 5, .	5.2	18
26	Interplay of d - and s -sublattice magnetism in the double perovskite substitution series $\text{La}_{1-x}\text{Sr}_x\text{Fe}_2\text{S}_4$. Polymorphic PtBi_2 . Physical Review Materials, 2020, 4, .	3.2	17
27	Identical spin fluctuations in Cu- and Co-doped BaFe_2S_3 independent of electron doping. Physical Review B, 2014, 90, .	3.2	16
28	Pressure control of the magnetic anisotropy of the quasi-two-dimensional van der Waals ferromagnet Cr_2S_3 . Physical Review B, 2021, 103, .	3.2	16
29	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
30	Evolution of the Nematic Susceptibility in LaFeAsO . Physical Review Letters, 2020, 125, 067001, .	7.8	15
31	Electronic structure studies of FeSi: A chiral topological system. Physical Review B, 2020, 101, .	3.2	15
32	Kitney magnetism and fractionalized excitations in double perovskite $\text{Sr}_2\text{FeMoO}_6$. Superconducting properties of KNaFe_2S_4 . Physical Review B, 2019, 99, .	3.6	15
33	Superconducting properties of KNaFe_2S_4 . Physical Review B, 2019, 99, .	3.2	13
34	Charge and nematic orders in $\text{A}_2\text{Fe}_2\text{S}_3$. Quasi-two-dimensional magnetic correlations in $\text{Ni}_2\text{P}_2\text{S}_6$. Physical Review B, 2020	3.2	13

#	ARTICLE	IF	CITATIONS
37	Thickness dependent electronic structure of exfoliated mono- and few-layer $1T'$ TaSe_2 . Physical Review Materials, 2018, 2, .		13
38	Unusual two-dimensional behavior of iron-based superconductors with low anisotropy. Physical Review B, 2017, 96, . Coupling of lattice, spin, and intraconfigurational excitations of Eu^{2+} in EuO . Physical Review Research, 2020, 2, .	3.2	11
39	Energy scale of nematic ordering in the parent iron-based superconductor BaFe_2As_2 . Physical Review B, 2019, 100, .	3.6	11
40	Strongly correlated superconductor with polytypic 3D Dirac points. Npj Quantum Materials, 2020, 5, . Complex magnetic properties in the mixed X_2ZnIrO_6 double perovskite iridates. Physical Review B, 2020, 102, .	5.2	10
41			
42			

#	ARTICLE	IF	CITATIONS
55	Unified phase diagram of F-doped LaFeAsO by means of NMR and NQR parameters. Physical Review B, 2020, 101, .	3.2	7
56	Revisiting the phase diagram of $\text{LaFe}_{1-x}\text{Co}_x\text{AsO}$ in single crystals by thermodynamic methods. Physical Review B, 2021, 103, .	3.2	7
57	Frustration model and spin excitations in the helimagnet FeP. Physical Review B, 2022, 105, .	3.2	7
58	Mass Enhancements and Band Shifts in Strongly Hole-Overdoped Fe-Based Pnictide Superconductors: KFe_2As_2 and CsFe_2As_2 . Journal of Superconductivity and Novel Magnetism, 2018, 31, 777-783.	1.8	6
59	Absence of Dirac fermions in layered BaZnBi_2 . Physical Review Materials, 2019, 3, .	3.2	6
60	Low-energy excitations and magnetic anisotropy of the layered van der Waals antiferromagnet P_2S_6 . Physical Review B, 2022, 105, .	3.2	6
61	Fermi surface tomography. Nature Communications, 2022, 13, .	12.8	6
62	Nematicity and structure in $\text{LaFe}_{1-x}\text{Co}_x\text{AsO}$. Journal of Magnetism and Magnetic Materials, 2019, 482, 50-53.	2.3	5
63	Strain derivative of thermoelectric properties as a sensitive probe for nematicity. Npj Quantum Materials, 2021, 6, .	5.2	5
64	Incommensurate magnet iron monophosphide FeP: Crystal growth and characterization. Physical Review Materials, 2020, 4, .	2.4	5
65	Suppression of the magnetic order in CeFeAsO : Nonequivalence of hydrostatic and in-plane chemical pressure. Physical Review B, 2018, 98, .	3.2	4
66	Yanson point-contact spectroscopy of Weyl semimetal WTe_2 . 2D Materials, 2019, 6, 045012.	4.4	4
67	Disorder-induced coupling of Weyl nodes in WTe_2 . Physical Review Research, 2020, 2, .	3.6	4
68	Lattice dynamics in the double-helix antiferromagnet FeP. Physical Review Research, 2020, 2, .	3.6	4
69	Momentum dependent $d_{xz/yz}$ band splitting in LaFeAsO. Scientific Reports, 2020, 10, 19377.	3.3	3
70	Switchable domains in point contacts based on transition metal tellurides. Physical Review Materials, 2021, 5, .	2.4	3
71	Microscopic phase diagram of LaFeAsO single crystals under pressure. Physical Review B, 2018, 98, .	3.2	2
72	Mapping out the spin fluctuations in Co-doped LaFeAsO single crystals by NMR. Physical Review B, 2021, 103, .	3.2	2

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73	Fractional spin fluctuations and quantum liquid signature in GdMn_2Pn . Physical Review B, 2021, 104, .	3.2	2
74	Mechanical control of physical properties in the van der Waals ferromagnet CrMn_2Pn via application of electric current. Physical Review B, 2022, 106, .	3.2	2
75	Spin reorientation transition in Na-doped BaFe_2As_2 studied by single-crystal neutron diffraction. Physica Status Solidi (B): Basic Research, 2017, 254, 1600181.	1.5	1
76	Magnetically induced local lattice anomalies and low-frequency fluctuations in the Mott insulator $\text{La}_2\text{O}_3\text{Fe}_2\text{Se}_2$. Physical Review B, 2021, 103, .	3.2	1
77	NMR study of magnetic structure and hyperfine interactions in the binary helimagnet FeP. Physical Review B, 2020, 102, .	3.2	1
78	Anomalous band renormalization due to a high-energy kink in $\text{K}_{0.65}\text{RhO}$ with colossal thermoelectric power factor. Physical Review Materials, 2021, 5, .	2.4	0
79	Synthesis and Physical Properties of Iridium-Based Sulfide $\text{Ca}_{1-x}\text{Ir}_4\text{S}_6(\text{S}_2)$ [$x = 0.23 \sim 0.33$]. Electronic Materials, 2022, 3, 41-52.	1.9	0
80	Elastoresistivity of Heavily Hole-Doped 122 Iron Pnictide Superconductors. Frontiers in Physics, 2022, 10, .	2.1	0