

Bahadur Singh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3359519/publications.pdf>

Version: 2024-02-01

62
papers

2,945
citations

236925

25
h-index

161849

54
g-index

64
all docs

64
docs citations

64
times ranked

4080
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological phonons and electronic structure of Li_2BaSi class of semimetals. Journal of Physics Condensed Matter, 2022, 34, 125502.	1.8	2
2	Observation of multilayer quantum Hall effect in the charge density wave material $\text{CaCu}_4\text{O}_{14}$. Physical Review Research, 2022, 4, .	1.8	1
3	Topological Antiferromagnetic Van der Waals Phase in Topological Insulator/Ferromagnet Heterostructures Synthesized by a CMOS-Compatible Sputtering Technique. Advanced Materials, 2022, 34, e2108790.	21.0	9
4	Superconductivity in Heusler compound ScAu_2Al . Journal of Physics Condensed Matter, 2022, 34, 195403.	1.8	1
5	Collective plasmonic modes in the chiral multifold fermionic material CoSi . Physical Review B, 2022, 105, .	3.2	9
6	Anomalies at the Dirac Point in Graphene and Its Hole-Doped Compositions. Physical Review Letters, 2022, 128, 166401.	7.8	3
7	Weyl semimetal in the rare-earth hexaboride family supporting a pseudonodal surface and a giant anomalous Hall effect. Physical Review B, 2022, 105, .	3.2	4
8	Observation of a smoothly tunable Dirac point in Ge_2O_3 . Physical Review Materials, 2022, 6, .	2.4	9
9	Orthorhombic charge density wave on the tetragonal lattice of EuAl_4 . IUCr, 2022, 9, 378-385.	2.2	10
10	Topological states in superlattices of HgTe class of materials for engineering three-dimensional flat bands. Physical Review Research, 2022, 4, .	3.6	11
11	Magnetically tunable Dirac and Weyl fermions in the Zintl materials family. Physical Review Materials, 2022, 6, .	2.4	9
12	Critical role of magnetic moments in heavy-fermion materials: Revisiting SmB_6 . Physical Review B, 2022, 105, .	3.6	11
13	Noncollinear ferromagnetic Weyl semimetal with anisotropic anomalous Hall effect. Physical Review B, 2021, 103, .	3.2	42
14	Fermi surface studies of the topologically nontrivial compound YSi . Physical Review B, 2021, 103, .	3.2	3
15	Magnetic and f-electron effects in LaNiO_2 and NdNiO_2 nickelates with cuprate-like $d_{x^2-y^2}$ band. Communications Physics, 2021, 4, .	5.3	38
16	Cleaving plane-dependent electronic structures of transition metal diarsenides. Physical Review Research, 2021, 3, .	3.6	2
17	Topological Hall effect in the antiferromagnetic Dirac semimetal EuAgAs . Physical Review B, 2021, 103, .	3.2	19
18	Layer Hall effect in a 2D topological axion antiferromagnet. Nature, 2021, 595, 521-525.	27.8	136

#	ARTICLE	IF	CITATIONS
19	Aspects of symmetry and topology in the charge density wave phase of $1T\text{-TiSe}_2$. New Journal of Physics, 2021, 23, 083037.	2.9	7
20	Topological theory of inversion-breaking charge-density-wave monolayer $1T\text{-TiSe}_2$. New Journal of Physics, 2021, 23, 093025.	2.9	3
21	Design of a Stable Heusler Alloy with Switchable Metal-Half-Metal Transition at Finite Temperature. Advanced Theory and Simulations, 2021, 4, 2100311.	2.8	6
22	Anomalies in the temperature evolution of Dirac states in the topological crystalline insulator SnTe. Physical Review B, 2021, 104, .	3.2	7
23	Weak antilocalization and Shubnikov-de Haas oscillations in single crystal CaCuSb. Physical Review B, 2021, 104, .	3.2	2
24	Tunable spin polarization and electronic structure of bottom-up synthesized MoSi_2N_4 materials. Physical Review B, 2021, 104, .	3.2	37
25	K_2CoS_2 : A two-dimensional in-plane antiferromagnetic insulator. Physical Review B, 2020, 102, .	3.2	12
26	Temperature-dependent electronic structure in a higher-order topological insulator candidate EuIn_2 . Physical Review B, 2020, 102, .	3.2	30
27	Realization of an intrinsic ferromagnetic topological state in $\text{MnBi}_8\text{Te}_{13}$. Science Advances, 2020, 6, eaba4275.	10.3	122
28	Magnetotransport properties of the topological nodal-line semimetal CaCdSn. Physical Review B, 2020, 102, .	3.2	29
29	Observation of gapped state in rare-earth monopnictide HoSb. Scientific Reports, 2020, 10, 12961.	3.3	14
30	Magnetotransport properties of noncentrosymmetric CaAgBi single crystal. Journal of Physics Condensed Matter, 2020, 32, 335701.	1.8	11
31	Topological Dirac Semimetal Phase in Bismuth Based Anode Materials for Sodium-Ion Batteries. Condensed Matter, 2020, 5, 39.	1.8	4
32	Ab initio description of the $\text{Bi}_2\text{O}_8^{+}$ electronic structure. Physical Review B, 2020, 101, .	3.2	11
33	Spontaneous gyrotropic electronic order in a transition-metal dichalcogenide. Nature, 2020, 578, 545-549.	27.8	80
34	Transition from intrinsic to extrinsic anomalous Hall effect in the ferromagnetic Weyl semimetal PrAlGe_3Si . APL Materials, 2020, 8, .	5.1	41
35	Exceptionally large anomalous Hall effect due to anticrossing of spin-split bands in the antiferromagnetic half-Heusler compound TbPtBi. Physical Review B, 2020, 101, .	3.2	24
36	Topological crystalline insulator state with type-II Dirac fermions in transition metal dipnictides. Physical Review B, 2019, 100, .	3.2	13

#	ARTICLE	IF	CITATIONS
55	Room-temperature magnetic topological Weyl fermion and nodal line semimetal states in half-metallic Heusler Co ₂ TiX (X=Si, Ge, or Sn). Scientific Reports, 2016, 6, 38839.	3.3	148
56	Electric-field tunable Dirac semimetal state in phosphorene thin films. Physical Review B, 2016, 94, .	3.2	36
57	Role of surface termination in realizing well-isolated topological surface states within the bulk band gap in TlBiSe_2 . Physical Review B, 2016, 93, .	3.2	12
58	Spin-Texture of the Non-Trivial Surface State of Topological Insulator Sb ₂ Te ₃ . Quantum Matter, 2016, 5, 362-364.	0.2	0
59	Orbital selective spin-texture in a topological insulator. AIP Conference Proceedings, 2015, , .	0.4	0
60	Topological phase transition and quantum spin Hall state in TlBiS ₂ . Journal of Applied Physics, 2014, 116, 033704.	2.5	12
61	Topological phase transition and two-dimensional topological insulators in Ge-based thin films. Physical Review B, 2013, 88, .	3.2	19
62	Topological electronic structure and Weyl semimetal in the TlBiSe_2 class of semiconductors. Physical Review B, 2012, 86, .	3.2	135