

Kaustuv Manna

List of Publications by Year in descending order

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69
papers

3,356
citations

201385

27
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143772

57
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71
all docs

71
docs citations

71
times ranked

3518
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant Chern number of a Weyl nodal surface without upper limit. <i>Physical Review B</i> , 2022, 105, .	1.1	4
2	Second-harmonic generation in the topological multifold semimetal RhSi. <i>Physical Review Research</i> , 2022, 4, .	1.3	10
3	Observation of a linked-loop quantum state in a topological magnet. <i>Nature</i> , 2022, 604, 647-652.	13.7	18
4	Quasi-symmetry-protected topology in a semi-metal. <i>Nature Physics</i> , 2022, 18, 813-818.	6.5	15
5	Observation of a phase transition within the domain walls of ferromagnetic Co ₃ Sn ₂ S ₂ . <i>Nature Communications</i> , 2022, 13, .	5.8	17
6	Topological Quantum Materials from the Viewpoint of Chemistry. <i>Chemical Reviews</i> , 2021, 121, 2780-2815.	23.0	70
7	Tunable <i>e</i> <i>g</i> Orbital Occupancy in Heusler Compounds for Oxygen Evolution Reaction**. <i>Angewandte Chemie</i> , 2021, 133, 5864-5869.	1.6	12
8	Tunable <i>e</i> <i>g</i> Orbital Occupancy in Heusler Compounds for Oxygen Evolution Reaction**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5800-5805.	7.2	45
9	Giant topological longitudinal circular photo-galvanic effect in the chiral multifold semimetal CoSi. <i>Nature Communications</i> , 2021, 12, 154.	5.8	89
10	Broadband optical conductivity of the chiral multifold semimetal PdGa. <i>Physical Review B</i> , 2021, 103, .	1.1	8
11	2D Berry Curvature Driven Large Anomalous Hall Effect in Layered Topological Nodal Line MnAlGe. <i>Advanced Materials</i> , 2021, 33, e2006301.	11.1	28
12	Evidence for a percolative Mott insulator-metal transition in doped $\text{Sr}_{2-x}\text{La}_x\text{MnO}_7$. <i>Physical Review Research</i> , 2021, 3, .	2.3	17
13	Observation of a singular Weyl point surrounded by charged nodal walls in PtGa. <i>Nature Communications</i> , 2021, 12, 3994.	5.8	15
14	Laser-Assisted Floating Zone Growth of BaFe ₂ S ₃ Large-Sized Ferromagnetic-Impurity-Free Single Crystals. <i>Crystals</i> , 2021, 11, 758.	1.0	3
15	Large Anomalous Hall and Nernst Effects in High Curie Temperature Iron-Based Heusler Compounds. <i>Advanced Science</i> , 2021, 8, e2100782.	5.6	20
16	Magnetocatalysis: The Interplay between the Magnetic Field and Electrocatalysis. <i>CCS Chemistry</i> , 2021, 3, 2259-2267.	4.6	13
17	Direct Measurement of Helicoid Surface States in RhSi Using Nonlinear Optics. <i>Physical Review Letters</i> , 2021, 127, 157405.	2.9	16
18	Non-linear Shubnikov-de Haas oscillations in the self-heating regime. <i>Applied Physics Letters</i> , 2021, 119, 224101.	1.5	0

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19	Optical signatures of multifold fermions in the chiral topological semimetal CoSi. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27104-27110.	3.3	37
20	A New Highly Anisotropic Rhâ€Based Heusler Compound for Magnetic Recording. Advanced Materials, 2020, 32, 2004331.	11.1	18
21	Helicity-dependent photocurrents in the chiral Weyl semimetal RhSi. Science Advances, 2020, 6, eaba0509.	4.7	129
22	Handedness-dependent quasiparticle interference in the two enantiomers of the topological chiral semimetal PdGa. Nature Communications, 2020, 11, 3507.	5.8	27
23	Observation and control of maximal Chern numbers in a chiral topological semimetal. Science, 2020, 369, 179-183.	6.0	103
24	Topological Engineering of Ptâ€Groupâ€Metalâ€Based Chiral Crystals toward Highâ€Efficiency Hydrogen Evolution Catalysts. Advanced Materials, 2020, 32, e1908518.	11.1	81
25	Observation of giant spin-split Fermi-arc with maximal Chern number in the chiral topological semimetal PtGa. Nature Communications, 2020, 11, 2033.	5.8	46
26	Flux growth of Sr+1Ir O3+1 (n=1, 2, 3) crystals. Journal of Crystal Growth, 2020, 540, 125657.	0.7	4
27	Linear and nonlinear optical responses in the chiral multifold semimetal RhSi. Npj Quantum Materials, 2020, 5, .	1.8	50
28	Pressure tuning of the anomalous Hall effect in the chiral antiferromagnet Mn_3Sn . Physical Review Materials, 2020, 4, .	0.9	17
29	Optical conductivity of multifold fermions: The case of RhSi. Physical Review Research, 2020, 2, .	1.3	21
30	Correlated paramagnetism and interplay of magnetic and phononic degrees of freedom in 3d-5d coupled La ₂ CuO ₆ . Journal of Physics Condensed Matter, 2019, 31, 485803.	0.7	5
31	Berry curvature unravelled by the anomalous Nernst effect in Mn_3Ge . Physical Review B, 2019, 100, .	1.1	38
32	Magnon-polaron excitations in the noncollinear antiferromagnet Mn ₃ Ge. Physical Review B, 2019, 99, .	1.1	18
33	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. Science, 2019, 365, 1278-1281.	6.0	374
34	Pronounced magnetization plateau in a frustrated isolated spin-triangle compound: Interplay between Heisenberg and biquadratic exchange interactions. Physical Review B, 2019, 100, .	1.1	7
35	Optimization of catalytic active sites in non-collinear antiferromagnetic Mn ₃ Pt bulk single-crystal. Materials Today Physics, 2019, 10, 100137.	2.9	5
36	Extremely high conductivity observed in the triple point topological metal MoP. Nature Communications, 2019, 10, 2475.	5.8	54

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37	Spin glass behavior in the disordered half-Heusler compound IrMnGa. <i>Physical Review B</i> , 2019, 99, .	1.1	34
38	Chiral topological semimetal with multifold band crossings and long Fermi arcs. <i>Nature Physics</i> , 2019, 15, 759-765.	6.5	184
39	Zero-Field Nernst Effect in a Ferromagnetic Kagome Lattice Weyl Semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$. <i>Advanced Materials</i> , 2019, 31, e1806622.	11.1	180
40	Anomalous Nernst effect beyond the magnetization scaling relation in the ferromagnetic Heusler compound Co_2MnGa . <i>NPG Asia Materials</i> , 2019, 11, .	3.8	190
41	Topological chiral crystals with helicoid-arc quantum states. <i>Nature</i> , 2019, 567, 500-505.	13.7	249
42	Spin-polaron ladder spectrum of the spin-orbit-induced Mott insulator Sr_2IrO_4 probed by scanning tunneling spectroscopy. <i>Physical Review B</i> , 2019, 99, .	1.1	3
43	Prediction of a magnetic Weyl semimetal without spin-orbit coupling and strong anomalous Hall effect in the Heusler compensated ferrimagnet $\langle \text{Ti} \rangle_2 \langle \text{Mn} \rangle_2$. <i>Physical Review B</i> , 2018, 97, .	1.1	74
44	Size-dependent magnetic anisotropy of PEG coated Fe_3O_4 nanoparticles; comparing two magnetization methods. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 305, 012012.	0.3	14
45	From Colossal to Zero: Controlling the Anomalous Hall Effect in Magnetic Heusler Compounds via Berry Curvature Design. <i>Physical Review X</i> , 2018, 8, .	2.8	74
46	Gradual pressure-induced change in the magnetic structure of the noncollinear antiferromagnet $\langle \text{Mn} \rangle_3 \langle \text{Mn} \rangle$. <i>Physical Review B</i> , 2018, 97, .	1.1	23
47	Heusler, Weyl and Berry. <i>Nature Reviews Materials</i> , 2018, 3, 244-256.	23.3	250
48	Adaptive modulation in the $\langle \text{N} \rangle_2 \langle \text{M} \rangle$. <i>Physical Review B</i> , 2017, 95, .	1.1	18
49	Unusual magnetotransport from Si-square nets in topological semimetal HfSiS. <i>Physical Review B</i> , 2017, 95, .	1.1	55
50	Investigation of multiferroicity, spin-phonon coupling, and unusual magnetic ordering close to room temperature in $\text{LuMn}_0.5\text{Fe}_0.5\text{O}_3$. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	26
51	Iridium double perovskite $\langle \text{Sr} \rangle_2 \langle \text{Ir} \rangle$: A combined structural and specific heat study. <i>Physical Review B</i> , 2017, 95, .	1.1	19
52	Publisher's Note: Unusual magnetotransport from Si-square nets in topological semimetal HfSiS [<i>Phys. Rev. B</i> 95, 121109(R) (2017)]. <i>Physical Review B</i> , 2017, 95, .	1.1	2
53	Extremely high magnetoresistance and conductivity in the type-II Weyl semimetals WP2 and MoP2. <i>Nature Communications</i> , 2017, 8, 1642.	5.8	178
54	Investigating Size- and Temperature-Dependent Coercivity and Saturation Magnetization in PEG Coated Fe_3O_4 Nanoparticles. <i>Magnetochemistry</i> , 2017, 3, 19.	1.0	55

#	ARTICLE	IF	CITATIONS
55	Investigating Exchange Bias and Coercivity in Fe ₃ O ₄ /Fe ₂ O ₃ Core/Shell Nanoparticles of Fixed Core Diameter and Variable Shell Thicknesses. <i>Nanomaterials</i> , 2017, 7, 415.	1.9	36
56	Investigating the Role of Shell Thickness and Field Cooling on Saturation Magnetization and Its Temperature Dependence in Fe ₃ O ₄ /Fe ₂ O ₃ Core/Shell Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1269.	1.3	22
57	Anomalous re-entrant glassy magnetic phase in LaMn _{0.5} Co _{0.5} O ₃ single crystals. <i>Journal of Applied Physics</i> , 2016, 119, . Spin glass behavior in $\text{LaCo}_{1-x}\text{Mn}_x\text{O}_3$	1.1	6
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