

# Madhab Neupane

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

10,275  
citations

172457

29  
h-index

175258

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

7422  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of a Weyl fermion semimetal and topological Fermi arcs. <i>Science</i> , 2015, 349, 613-617.	12.6	2,753
2	A Weyl Fermion semimetal with surface Fermi arcs in the transition metal monopnictide TaAs class. <i>Nature Communications</i> , 2015, 6, 7373.	12.8	1,336
3	Observation of a three-dimensional topological Dirac semimetal phase in high-mobility Cd <sub>3</sub> As <sub>2</sub> . <i>Nature Communications</i> , 2014, 5, 3786.	12.8	1,166
4	Topological nodal-line fermions in spin-orbit metal PbTaSe <sub>2</sub> . <i>Nature Communications</i> , 2016, 7, 10556.	12.8	688
5	Observation of Fermi arc surface states in a topological metal. <i>Science</i> , 2015, 347, 294-298.	12.6	603
6	Signatures of the Adler-Bell-Jackiw chiral anomaly in a Weyl fermion semimetal. <i>Nature Communications</i> , 2016, 7, 10735.	12.8	603
7	Hedgehog spin texture and Berry's phase tuning in a magnetic topological insulator. <i>Nature Physics</i> , 2012, 8, 616-622.	16.7	353
8	Observation of topological nodal fermion semimetal phase in ZrSiS. <i>Physical Review B</i> , 2016, 93, .	3.2	309
9	New type of Weyl semimetal with quadratic double Weyl fermions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1180-1185.	7.1	291
10	Prediction of an arc-tunable Weyl Fermion metallic state in Mo <sub>x</sub> W <sub>1-x</sub> Te <sub>2</sub> . <i>Nature Communications</i> , 2016, 7, 10639.	12.8	249
11	Discovery of a new type of topological Weyl fermion semimetal state in Mo <sub>x</sub> W <sub>1-x</sub> Te <sub>2</sub> . <i>Nature Communications</i> , 2016, 7, 13643.	12.8	163
12	Momentum-space imaging of Cooper pairing in a half-Dirac-gas topological superconductor. <i>Nature Physics</i> , 2014, 10, 943-950.	16.7	134
13	Criteria for Directly Detecting Topological Fermi Arcs in Weyl Semimetals. <i>Physical Review Letters</i> , 2016, 116, 066802.	7.8	134
14	Fermi surface interconnectivity and topology in Weyl fermion semimetals TaAs, TaP, NbAs, and NbP. <i>Physical Review B</i> , 2015, 92, .	3.2	127
15	Observation of the topological nodal-line semimetal phase in ZrSiX.		

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19	Gigantic Surface Lifetime of an Intrinsic Topological Insulator. Physical Review Letters, 2015, 115, 116801.	7.8	84
20	Discovery of topological nodal-line fermionic phase in a magnetic material GdSbTe. Scientific Reports, 2018, 8, 13283.	3.3	70
21	Crystal growth of Dirac semimetal ZrSiS with high magnetoresistance and mobility. Scientific Reports, 2017, 7, 40603.	3.3	62
22	Optical evidence of surface state suppression in Bi-based topological insulators. Physical Review B, 2014, 89, .	3.2	56
23	A novel artificial condensed matter lattice and a new platform for one-dimensional topological phases. Science Advances, 2017, 3, e1501692.	10.3	48
24	Non-Kondo-like Electronic Structure in the Correlated Rare-Earth Hexaboride $Yb_{1-x}B_6$	7.8	46
25	Physical Review Letters, 2015, 114, 016403. Observation of the spin-polarized surface state in a noncentrosymmetric superconductor BiPd. Nature Communications, 2016, 7, 13315.	12.8	42
26	Observation of Dirac-like semi-metallic phase in NdSb. Journal of Physics Condensed Matter, 2016, 28, 23LT02.	1.8	35
27	Unconventional transformation of spin Dirac phase across a topological quantum phase transition. Nature Communications, 2015, 6, 6870.	12.8	34
28	Observation of gapless Dirac surface states in ZrGeTe. Physical Review B, 2018, 97, . Fermi-surface topology and low-lying electronic structure of the iron-based superconductor	3.2	34
29	$Ca_{1-x}Fe_x$		

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37	Surface versus bulk Dirac state tuning in a three-dimensional topological Dirac semimetal. Physical Review B, 2015, 91, .	3.2	16
38	Observation of metallic surface states in the strongly correlated Kitaev-Heisenberg candidate $\text{Na}_2\text{Zr}_2\text{P}_2\text{O}_{14}$ . Physical Review B, 2016, 93, .	3.2	16
39	Distinct multiple fermionic states in a single topological metal. Nature Communications, 2018, 9, 3002.	12.8	16
40	Experimental observation of drumhead surface states in SrAs <sub>3</sub> . Scientific Reports, 2020, 10, 2776.	3.3	16
41	Observation of gapped state in rare-earth monpnictide HoSb. Scientific Reports, 2020, 10, 12961.	3.3	14
42	Observation of multiple nodal lines in SmSbTe. Physical Review Materials, 2022, 6, .	2.4	14
43	Dirac state in a centrosymmetric superconductor $\text{Hg}_2\text{BaCuO}_4$ . Physical Review B, 2018, 97, .	3.2	14
44	Topological crystalline insulator state with type-II Dirac fermions in transition metal dipnictides. Physical Review B, 2019, 100, .	3.2	13
45	Extreme ultraviolet time- and angle-resolved photoemission setup with 21.5 meV resolution using high-order harmonic generation from a turn-key Yb:KGW amplifier. Review of Scientific Instruments, 2020, 91, 013102.	1.3	13
46	Observation of Dirac state in half-Heusler material YPtBi. Scientific Reports, 2020, 10, 12343.	3.3	13
47	Electronic structure of the quantum spin Hall parent compound CdTe and related topological issues. Physical Review B, 2014, 90, .	3.2	11
48	Spin-correlated electronic state on the surface of a spin-orbit Mott system. Physical Review B, 2014, 90, .	3.2	11
49	Termination-dependent topological surface states in nodal-loop semimetal $\text{HfP}_2$ . Physical Review Materials, 2020, 4, .	2.4	11
50	Unusual magnetic and transport properties in kagome magnet $\text{HoMn}_2\text{O}_6$ . Physical Review Materials, 2022, 6, .	2.4	11
51	Low-energy surface states in the normal state of $\text{PdBi}_2$ superconductor. Physical Review Materials, 2017, 1, .	2.4	5
52	Cleaving plane-dependent electronic structures of transition metal diarsenides. Physical Review Research, 2021, 3, .	3.6	2
53	Effect of Dilute Magnetism in a Topological Insulator. Frontiers in Materials, 2021, 8, .	2.4	0
54	Energy relaxation dynamics in a nodal-line semimetal. Physical Review B, 2022, 105, .	3.2	0