

# Satya N Guin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35  
papers

1,275  
citations

18  
h-index

35  
g-index

37  
ext. papers

1,599  
ext. citations

12.2  
avg, IF

4.87  
L-index

#	Paper	IF	Citations
35	Giant Topological Hall Effect in the Noncollinear Phase of Two-Dimensional Antiferromagnetic Topological Insulator MnBiTe. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 8343-8350	9.6	2
34	2D-Berry-Curvature-Driven Large Anomalous Hall Effect in Layered Topological Nodal-Line MnAlGe. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006301	24	3
33	Giant Anomalous Hall Conductivity in the Itinerant Ferromagnet LaCrSb <sub>3</sub> and the Effect of f-Electrons. <i>Advanced Quantum Technologies</i> , <b>2021</b> , 4, 2100023	4.3	2
32	Large Anomalous Hall and Nernst Effects in High Curie-Temperature Iron-Based Heusler Compounds. <i>Advanced Science</i> , <b>2021</b> , 8, e2100782	13.6	8
31	Topological Quantum Materials from the Viewpoint of Chemistry. <i>Chemical Reviews</i> , <b>2021</b> , 121, 2780-2815	15.1	19
30	Enhancement of thermoelectric performance of n-type AgBi <sub>1+x</sub> Se <sub>2</sub> via improvement of the carrier mobility by modulation doping. <i>Bulletin of Materials Science</i> , <b>2020</b> , 43, 1	1.7	5
29	Anisotropic electrical and thermal magnetotransport in the magnetic semimetal GdPtBi. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	7
28	Intrinsic Anomalous Hall Effect in Ni-Substituted Magnetic Weyl Semimetal CoSnS. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1612-1617	9.6	19
27	Observation of giant spin-split Fermi-arc with maximal Chern number in the chiral topological semimetal PtGa. <i>Nature Communications</i> , <b>2020</b> , 11, 2033	17.4	19
26	Largely Suppressed Magneto-Thermal Conductivity and Enhanced Magneto-Thermoelectric Properties in PtSn. <i>Research</i> , <b>2020</b> , 2020, 4643507	7.8	11
25	Extremely high conductivity observed in the triple point topological metal MoP. <i>Nature Communications</i> , <b>2019</b> , 10, 2475	17.4	28
24	Zero-Field Nernst Effect in a Ferromagnetic Kagome-Lattice Weyl-Semimetal Co Sn S. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806622	24	84
23	Anomalous Nernst effect beyond the magnetization scaling relation in the ferromagnetic Heusler compound Co <sub>2</sub> MnGa. <i>NPG Asia Materials</i> , <b>2019</b> , 11,	10.3	93
22	Soft Phonon Modes Leading to Ultralow Thermal Conductivity and High Thermoelectric Performance in AgCuTe. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4043-4047	16.4	55
21	Soft Phonon Modes Leading to Ultralow Thermal Conductivity and High Thermoelectric Performance in AgCuTe. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 4107-4111	3.6	10
20	Planar Hall effect in the Weyl semimetal GdPtBi. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	87
19	Large Nernst power factor over a broad temperature range in polycrystalline Weyl semimetal NbP. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2813-2820	35.4	34

18	Nanoscale Stabilization of Nonequilibrium Rock Salt BiAgSeS: Colloidal Synthesis and Temperature Driven Unusual Phase Transition. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 3769-3777	9.6	13
17	Thermoelectric Energy Conversion in Layered Metal Chalcogenides <b>2017</b> , 239-274		3
16	Ultrathin few layer oxychalcogenide BiCuSeO nanosheets. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 84-90	6.8	15
15	Origin of the Order-Disorder Transition and the Associated Anomalous Change of Thermopower in AgBiS <sub>2</sub> Nanocrystals: A Combined Experimental and Theoretical Study. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 6323-31	5.1	36
14	Low frequency noise and photo-enhanced field emission from ultrathin PbBi <sub>2</sub> Se <sub>4</sub> nanosheets. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 1096-1103	7.1	9
13	The effect of order-disorder phase transitions and band gap evolution on the thermoelectric properties of AgCuS nanocrystals. <i>Chemical Science</i> , <b>2016</b> , 7, 534-543	9.4	50
12	Large linear magnetoresistance in topological crystalline insulator Pb <sub>0.6</sub> Sn <sub>0.4</sub> Te. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 233, 199-204	3.3	13
11	Pressure induced structural, electronic topological, and semiconductor to metal transition in AgBiSe <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2016</b> , 109, 171903	3.4	17
10	Sb deficiencies control hole transport and boost the thermoelectric performance of p-type AgSbSe <sub>2</sub> . <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10415-10421	7.1	18
9	Temperature driven p-n-p type conduction switching materials: current trends and future directions. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 10316-25	3.6	18
8	Promising thermoelectric performance in n-type AgBiSe <sub>2</sub> : effect of aliovalent anion doping. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 648-655	13	93
7	Nanostructuring, carrier engineering and bond anharmonicity synergistically boost the thermoelectric performance of p-type AgSbSe <sub>2</sub> /nSe. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 4324	13	62
6	Ultrathin septuple layered PbBi <sub>2</sub> Se <sub>4</sub> nanosheets. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 14635-9	3.6	19
5	Temperature dependent reversible p-n-p type conduction switching with colossal change in thermopower of semiconducting AgCuS. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 12712-20	16.4	104
4	Direct evidence of strong local ferroelectric ordering in a thermoelectric semiconductor. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 113903	3.4	10
3	Enhanced thermoelectric performance in p-type AgSbSe <sub>2</sub> by Cd-doping. <i>RSC Advances</i> , <b>2014</b> , 4, 11811	3.7	35
2	High thermoelectric performance in tellurium free p-type AgSbSe <sub>2</sub> . <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 2603	35.4	185
1	Cation Disorder and Bond Anharmonicity Optimize the Thermoelectric Properties in Kinetically Stabilized Rocksalt AgBiS <sub>2</sub> Nanocrystals. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3225-3231	9.6	89

