Satya N Guin

List of Publications by Year
in descending order

35 papers	1,958 citations	304368 22 h-index	377514 34 g-index
37 all docs	37 docs citations	37 times ranked	2493 citing authors

#	Article	IF	Citations
1	High thermoelectric performance in tellurium free p-type AgSbSe2. Energy and Environmental Science, 2013, 6, 2603.	15.6	226
2	Anomalous Nernst effect beyond the magnetization scaling relation in the ferromagnetic Heusler compound Co2MnGa. NPG Asia Materials, 2019, 11, .	3.8	190
3	Zeroâ€Field Nernst Effect in a Ferromagnetic Kagomeâ€Lattice Weylâ€Semimetal Co₃Sn₂S₂. Advanced Materials, 2019, 31, e1806622.	11.1	180
4	Planar Hall effect in the Weyl semimetal GdPtBi. Physical Review B, 2018, 98, .	1.1	141
5	Cation Disorder and Bond Anharmonicity Optimize the Thermoelectric Properties in Kinetically Stabilized Rocksalt AgBiS₂ Nanocrystals. Chemistry of Materials, 2013, 25, 3225-3231.	3.2	115
6	Promising thermoelectric performance in n-type AgBiSe₂: effect of aliovalent anion doping. Journal of Materials Chemistry A, 2015, 3, 648-655.	5.2	115
7	Temperature Dependent Reversible pâ€“nâ€“p Type Conduction Switching with Colossal Change in Thermopower of Semiconducting AgCuS. Journal of the American Chemical Society, 2014, 136, 12712-12720.	6.6	112
8	Nanostructuring, carrier engineering and bond anharmonicity synergistically boost the thermoelectric performance of p-type AgSbSe2â€“ZnSe. Journal of Materials Chemistry A, 2014, 2, 4324.	5.2	76
9	Soft Phonon Modes Leading to Ultralow Thermal Conductivity and High Thermoelectric Performance in AgCuTe. Angewandte Chemie - International Edition, 2018, 57, 4043-4047.	7.2	70
10	Topological Quantum Materials from the Viewpoint of Chemistry. Chemical Reviews, 2021, 121, 2780-2815.	23.0	70
11	The effect of orderâ€“disorder phase transitions and band gap evolution on the thermoelectric properties of AgCuS nanocrystals. Chemical Science, 2016, 7, 534-543.	3.7	58
12	Large Nernst power factor over a broad temperature range in polycrystalline Weyl semimetal NbP. Energy and Environmental Science, 2018, 11, 2813-2820.	15.6	57
13	Extremely high conductivity observed in the triple point topological metal MoP. Nature Communications, 2019, 10, 2475.	5.8	54
14	Intrinsic Anomalous Hall Effect in Ni-Substituted Magnetic Weyl Semimetal Co₃Sn₂S₂. Chemistry of Materials, 2020, 32, 1612-1617.	3.2	51
15	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
16	Origin of the Orderâ€“Disorder Transition and the Associated Anomalous Change of Thermopower in AgBiS₂ Nanocrystals: A Combined Experimental and Theoretical Study. Inorganic Chemistry, 2016, 55, 6323-6331.	1.9	45
17	Enhanced thermoelectric performance in p-type AgSbSe2 by Cd-doping. RSC Advances, 2014, 4, 11811.	1.7	43
18	2Dâ€Berryâ€Curvatureâ€Driven Large Anomalous Hall Effect in Layered Topological Nodalâ€Line MnAlGe. Advanced Materials, 2021, 33, e2006301.	11.1	28

#	Article	IF	Citations
19	Largely Suppressed Magneto-Thermal Conductivity and Enhanced Magneto-Thermoelectric Properties in PtSn ₄. Research, 2020, 2020, 4643507.	2.8	26
20	Pressure induced structural, electronic topological, and semiconductor to metal transition in AgBiSe2. Applied Physics Letters, 2016, 109, .	1.5	25
21	Anisotropic electrical and thermal magnetotransport in the magnetic semimetal GdPtBi. Physical Review B, 2020, 101, .	1.1	24
22	Ultrathin septuple layered PbBi2Se4 nanosheets. Physical Chemistry Chemical Physics, 2014, 16, 14635.	1.3	23
23	Sb deficiencies control hole transport and boost the thermoelectric performance of p-type AgSbSe₂. Journal of Materials Chemistry C, 2015, 3, 10415-10421.	2.7	23
24	Soft Phonon Modes Leading to Ultralow Thermal Conductivity and High Thermoelectric Performance in AgCuTe. Angewandte Chemie, 2018, 130, 4107-4111.	1.6	21
25	Large Anomalous Hall and Nernst Effects in High Curieâ€Temperature Ironâ€Based Heusler Compounds. Advanced Science, 2021, 8, e2100782.	5.6	20
26	Temperature driven pâ€“nâ€“p type conduction switching materials: current trends and future directions. Physical Chemistry Chemical Physics, 2015, 17, 10316-10325.	1.3	19
27	Ultrathin few layer oxychalcogenide BiCuSeO nanosheets. Inorganic Chemistry Frontiers, 2017, 4, 84-90.	3.0	19
28	Large linear magnetoresistance in topological crystalline insulator Pb0.6Sn0.4Te. Journal of Solid State Chemistry, 2016, 233, 199-204.	1.4	16
29	Nanoscale Stabilization of Nonequilibrium Rock Salt BiAgSeS: Colloidal Synthesis and Temperature Driven Unusual Phase Transition. Chemistry of Materials, 2017, 29, 3769-3777.	3.2	16
30	Low frequency noise and photo-enhanced field emission from ultrathin PbBi₂Se₄ nanosheets. Journal of Materials Chemistry C, 2016, 4, 1096-1103.	2.7	14
31	Giant Topological Hall Effect in the Noncollinear Phase of Two-Dimensional Antiferromagnetic Topological Insulator MnBi₄Te₇. Chemistry of Materials, 2021, 33, 8343-8350.	3.2	13
32	Direct evidence of strong local ferroelectric ordering in a thermoelectric semiconductor. Applied Physics Letters, 2014, 105, 113903.	1.5	11
33	Enhancement of thermoelectric performance of n-type AgBi1+xSe2 via improvement of the carrier mobility by modulation doping. Bulletin of Materials Science, 2020, 43, 1.	0.8	5
34	Thermoelectric Energy Conversion in Layered Metal Chalcogenides. , 2017, , 239-274.		3
35	Giant Anomalous Hall Conductivity in the Itinerant Ferromagnet LaCrSb₃ and the Effect of fâ€Electrons. Advanced Quantum Technologies, 2021, 4, 2100023.	1.8	3