

Satya N Guin

List of Publications by Citations

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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 | High thermoelectric performance in tellurium free p-type AgSbSe ₂ . <i>Energy and Environmental Science</i> , 2013 , 6, 2603 | 35.4 | 185 |
| 34 | 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> , 2014 , 136, 12712-20 | 16.4 | 104 |
| 33 | Anomalous Nernst effect beyond the magnetization scaling relation in the ferromagnetic Heusler compound Co ₂ MnGa. <i>NPG Asia Materials</i> , 2019 , 11, | 10.3 | 93 |
| 32 | Promising thermoelectric performance in n-type AgBiSe ₂ : effect of aliovalent anion doping. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 648-655 | 13 | 93 |
| 31 | Cation Disorder and Bond Anharmonicity Optimize the Thermoelectric Properties in Kinetically Stabilized Rocksalt AgBiS ₂ Nanocrystals. <i>Chemistry of Materials</i> , 2013 , 25, 3225-3231 | 9.6 | 89 |
| 30 | Planar Hall effect in the Weyl semimetal GdPtBi. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 87 |
| 29 | Zero-Field Nernst Effect in a Ferromagnetic Kagome-Lattice Weyl-Semimetal Co Sn S. <i>Advanced Materials</i> , 2019 , 31, e1806622 | 24 | 84 |
| 28 | Nanostructuring, carrier engineering and bond anharmonicity synergistically boost the thermoelectric performance of p-type AgSbSe ₂ /nSe. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4324 | 13 | 62 |
| 27 | Soft Phonon Modes Leading to Ultralow Thermal Conductivity and High Thermoelectric Performance in AgCuTe. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4043-4047 | 16.4 | 55 |
| 26 | The effect of order-disorder phase transitions and band gap evolution on the thermoelectric properties of AgCuS nanocrystals. <i>Chemical Science</i> , 2016 , 7, 534-543 | 9.4 | 50 |
| 25 | Origin of the Order-Disorder Transition and the Associated Anomalous Change of Thermopower in AgBiS ₂ Nanocrystals: A Combined Experimental and Theoretical Study. <i>Inorganic Chemistry</i> , 2016 , 55, 6323-31 | 5.1 | 36 |
| 24 | Enhanced thermoelectric performance in p-type AgSbSe ₂ by Cd-doping. <i>RSC Advances</i> , 2014 , 4, 11811 | 3.7 | 35 |
| 23 | Large Nernst power factor over a broad temperature range in polycrystalline Weyl semimetal NbP. <i>Energy and Environmental Science</i> , 2018 , 11, 2813-2820 | 35.4 | 34 |
| 22 | Extremely high conductivity observed in the triple point topological metal MoP. <i>Nature Communications</i> , 2019 , 10, 2475 | 17.4 | 28 |
| 21 | Intrinsic Anomalous Hall Effect in Ni-Substituted Magnetic Weyl Semimetal CoSnS. <i>Chemistry of Materials</i> , 2020 , 32, 1612-1617 | 9.6 | 19 |
| 20 | Observation of giant spin-split Fermi-arc with maximal Chern number in the chiral topological semimetal PtGa. <i>Nature Communications</i> , 2020 , 11, 2033 | 17.4 | 19 |
| 19 | Ultrathin septuple layered PbBi ₂ Se ₄ nanosheets. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 14635-9 | 3.6 | 19 |

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| 18 | Topological Quantum Materials from the Viewpoint of Chemistry. <i>Chemical Reviews</i> , 2021 , 121, 2780-2815.1 | 19 |
| 17 | Sb deficiencies control hole transport and boost the thermoelectric performance of p-type AgSbSe ₂ . <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10415-10421 | 7.1 18 |
| 16 | Temperature driven p-n-p type conduction switching materials: current trends and future directions. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 10316-25 | 3.6 18 |
| 15 | Pressure induced structural, electronic topological, and semiconductor to metal transition in AgBiSe ₂ . <i>Applied Physics Letters</i> , 2016 , 109, 171903 | 3.4 17 |
| 14 | Ultrathin few layer oxychalcogenide BiCuSeO nanosheets. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 84-90 | 6.8 15 |
| 13 | Nanoscale Stabilization of Nonequilibrium Rock Salt BiAgSeS: Colloidal Synthesis and Temperature Driven Unusual Phase Transition. <i>Chemistry of Materials</i> , 2017 , 29, 3769-3777 | 9.6 13 |
| 12 | Large linear magnetoresistance in topological crystalline insulator Pb _{0.6} Sn _{0.4} Te. <i>Journal of Solid State Chemistry</i> , 2016 , 233, 199-204 | 3.3 13 |
| 11 | Largely Suppressed Magneto-Thermal Conductivity and Enhanced Magneto-Thermoelectric Properties in PtSn. <i>Research</i> , 2020 , 2020, 4643507 | 7.8 11 |
| 10 | Soft Phonon Modes Leading to Ultralow Thermal Conductivity and High Thermoelectric Performance in AgCuTe. <i>Angewandte Chemie</i> , 2018 , 130, 4107-4111 | 3.6 10 |
| 9 | Direct evidence of strong local ferroelectric ordering in a thermoelectric semiconductor. <i>Applied Physics Letters</i> , 2014 , 105, 113903 | 3.4 10 |
| 8 | Low frequency noise and photo-enhanced field emission from ultrathin PbBi ₂ Se ₄ nanosheets. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1096-1103 | 7.1 9 |
| 7 | Large Anomalous Hall and Nernst Effects in High Curie-Temperature Iron-Based Heusler Compounds. <i>Advanced Science</i> , 2021 , 8, e2100782 | 13.6 8 |
| 6 | Anisotropic electrical and thermal magnetotransport in the magnetic semimetal GdPtBi. <i>Physical Review B</i> , 2020 , 101, | 3.3 7 |
| 5 | Enhancement of thermoelectric performance of n-type AgBi _{1+x} Se ₂ via improvement of the carrier mobility by modulation doping. <i>Bulletin of Materials Science</i> , 2020 , 43, 1 | 1.7 5 |
| 4 | Thermoelectric Energy Conversion in Layered Metal Chalcogenides 2017 , 239-274 | 3 |
| 3 | 2D-Berry-Curvature-Driven Large Anomalous Hall Effect in Layered Topological Nodal-Line MnAlGe. <i>Advanced Materials</i> , 2021 , 33, e2006301 | 24 3 |
| 2 | Giant Topological Hall Effect in the Noncollinear Phase of Two-Dimensional Antiferromagnetic Topological Insulator MnBiTe. <i>Chemistry of Materials</i> , 2021 , 33, 8343-8350 | 9.6 2 |
| 1 | Giant Anomalous Hall Conductivity in the Itinerant Ferromagnet LaCrSb ₃ and the Effect of f-Electrons. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2100023 | 4.3 2 |

