

# Yan Sun

## 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.

222  
papers

15,707  
citations

61  
h-index

122  
g-index

237  
ext. papers

20,539  
ext. citations

10  
avg, IF

7.04  
L-index

| #   | Paper                                                                                                                                                                                              | IF   | Citations |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 222 | Direct observation of the spin-orbit coupling effect in magnetic Weyl semimetal Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . <i>Npj Quantum Materials</i> , <b>2022</b> , 7,                   | 5    | 1         |
| 221 | Quasi-quantized Hall response in bulk InAs.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2153                                                                                                    | 4.9  | 0         |
| 220 | Exchange-biased topological transverse thermoelectric effects in a Kagome ferrimagnet.. <i>Nature Communications</i> , <b>2022</b> , 13, 1091                                                      | 17.4 | 0         |
| 219 | Obstructed surface states as the descriptor for predicting catalytic active sites in inorganic crystalline materials.. <i>Advanced Materials</i> , <b>2022</b> , e2201328                          | 24   | 0         |
| 218 | Spin and Charge Interconversion in Dirac-Semimetal Thin Films. <i>Physical Review Applied</i> , <b>2021</b> , 16,                                                                                  | 4.3  | 4         |
| 217 | Giant anomalous Nernst signal in the antiferromagnet YbMnBi. <i>Nature Materials</i> , <b>2021</b> ,                                                                                               | 27   | 6         |
| 216 | Topological phase transition in a magnetic Weyl semimetal. <i>Physical Review B</i> , <b>2021</b> , 104,                                                                                           | 3.3  | 1         |
| 215 | Temperature dependence of quantum oscillations from non-parabolic dispersions. <i>Nature Communications</i> , <b>2021</b> , 12, 6213                                                               | 17.4 | 1         |
| 214 | First-principles calculations for topological quantum materials. <i>Nature Reviews Physics</i> , <b>2021</b> , 3, 283-297                                                                          | 23.6 | 10        |
| 213 | Enhancement of basal plane electrocatalytic hydrogen evolution activity via joint utilization of trivial and non-trivial surface states. <i>Applied Materials Today</i> , <b>2021</b> , 22, 100921 | 6.6  | 5         |
| 212 | 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         |
| 211 | Giant c-axis nonlinear anomalous Hall effect in T-MoTe and WTe. <i>Nature Communications</i> , <b>2021</b> , 12, 2049                                                                              | 17.4 | 8         |
| 210 | Large anomalous Hall effect in the kagome ferromagnet LiMn <sub>6</sub> Sn <sub>6</sub> . <i>Physical Review B</i> , <b>2021</b> , 103,                                                            | 3.3  | 5         |
| 209 | Induced anomalous Hall effect of massive Dirac fermions in ZrTe <sub>5</sub> and HfTe <sub>5</sub> thin flakes. <i>Physical Review B</i> , <b>2021</b> , 103,                                      | 3.3  | 4         |
| 208 | Hard magnet topological semimetals in XPt <sub>3</sub> compounds with the harmony of Berry curvature. <i>Communications Physics</i> , <b>2021</b> , 4,                                             | 5.4  | 3         |
| 207 | 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         |
| 206 | Pressure-induced superconductivity and modification of Fermi surface in type-II Weyl semimetal NbIrTe <sub>4</sub> . <i>Npj Quantum Materials</i> , <b>2021</b> , 6,                               | 5    | 3         |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 205 | 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  |
| 204 | Large linear non-saturating magnetoresistance and high mobility in ferromagnetic MnBi. <i>Nature Communications</i> , <b>2021</b> , 12, 4576                                                               | 17.4 | 4  |
| 203 | Charge Density Waves and Electronic Properties of Superconducting Kagome Metals. <i>Physical Review Letters</i> , <b>2021</b> , 127, 046401                                                                | 7.4  | 55 |
| 202 | Thermoelectric Properties of Novel Semimetals: A Case Study of YbMnSb. <i>Advanced Materials</i> , <b>2021</b> , 33, e2003168                                                                              | 24   | 15 |
| 201 | Role of Magnetic Exchange Interactions in Chiral-Type Hall Effects of Epitaxial Mn <sub>x</sub> PtSn Films. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 1323-1333                           | 4    | 4  |
| 200 | Thermoelectric Materials: Thermoelectric Properties of Novel Semimetals: A Case Study of YbMnSb <sub>2</sub> (Adv. Mater. 7/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170051                   | 24   | 0  |
| 199 | The Berry phase rectification tensor and the solar rectification vector. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 404001                                                              | 3    | 1  |
| 198 | Quantum Oscillations in Ferromagnetic (Sb, V) Te Topological Insulator Thin Films. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102107                                                                  | 24   | 2  |
| 197 | Sondheimer oscillations as a probe of non-ohmic flow in WP crystals. <i>Nature Communications</i> , <b>2021</b> , 12, 4799                                                                                 | 17.4 | 0  |
| 196 | Quantum oscillations, magnetic breakdown and thermal Hall effect in Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 454003                  | 3    | 4  |
| 195 | Design strong anomalous Hall effect via spin canting in antiferromagnetic nodal line materials. <i>Physical Review B</i> , <b>2021</b> , 104,                                                              | 3.3  | 1  |
| 194 | Roton pair density wave in a strong-coupling kagome superconductor. <i>Nature</i> , <b>2021</b> , 599, 222-228                                                                                             | 50.4 | 47 |
| 193 | Anisotropic Nodal-Line-Derived Large Anomalous Hall Conductivity in ZrMnP and HfMnP. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104126                                                                | 24   | 0  |
| 192 | MoS <sub>2</sub> on topological insulator Bi <sub>2</sub> Te <sub>3</sub> thin films: Activation of the basal plane for hydrogen reduction. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 62, 516-522 | 12   | 6  |
| 191 | A charge-density-wave topological semimetal. <i>Nature Physics</i> , <b>2021</b> , 17, 381-387                                                                                                             | 16.2 | 22 |
| 190 | Magnetic asymmetry induced anomalous spin-orbit torque in IrMn. <i>Physical Review B</i> , <b>2020</b> , 101,                                                                                              | 3.3  | 11 |
| 189 | Finite-temperature violation of the anomalous transverse Wiedemann-Franz law. <i>Science Advances</i> , <b>2020</b> , 6, eaaz3522                                                                          | 14.3 | 25 |
| 188 | Mode-resolved reciprocal space mapping of electron-phonon interaction in the Weyl semimetal candidate Td-WTe. <i>Nature Communications</i> , <b>2020</b> , 11, 2613                                        | 17.4 | 25 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 187 | Emerging chiral edge states from the confinement of a magnetic Weyl semimetal in Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . <i>Physical Review B</i> , <b>2020</b> , 101,                                 | 3.3  | 25 |
| 186 | Visualizing coexisting surface states in the weak and crystalline topological insulator BiTeI. <i>Nature Materials</i> , <b>2020</b> , 19, 610-616                                                              | 27   | 9  |
| 185 | Anisotropic electrical and thermal magnetotransport in the magnetic semimetal GdPtBi. <i>Physical Review B</i> , <b>2020</b> , 101,                                                                             | 3.3  | 7  |
| 184 | Effect of magnetic field on the hydrogen evolution activity using non-magnetic Weyl semimetal catalysts. <i>Dalton Transactions</i> , <b>2020</b> , 49, 3398-3402                                               | 4.3  | 6  |
| 183 | Giant anomalous Hall and Nernst effect in magnetic cubic Heusler compounds. <i>Npj Computational Materials</i> , <b>2020</b> , 6,                                                                               | 10.9 | 17 |
| 182 | Exploiting Two-Dimensional Bi <sub>2</sub> O <sub>3</sub> Se for Trace Oxygen Detection. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 17938-17943                                       | 16.4 | 14 |
| 181 | Giant room temperature anomalous Hall effect and tunable topology in a ferromagnetic topological semimetal CoMnAl. <i>Nature Communications</i> , <b>2020</b> , 11, 3476                                        | 17.4 | 42 |
| 180 | Signatures of Sixfold Degenerate Exotic Fermions in a Superconducting Metal PdSb. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906046                                                                        | 24   | 15 |
| 179 | Thickness dependence of the anomalous Nernst effect and the Mott relation of Weyl semimetal Co <sub>2</sub> MnGa thin films. <i>Physical Review B</i> , <b>2020</b> , 101,                                      | 3.3  | 16 |
| 178 | Topological Engineering of Pt-Group-Metal-Based Chiral Crystals toward High-Efficiency Hydrogen Evolution Catalysts. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908518                                     | 24   | 35 |
| 177 | Magnetic Semimetals and Quantized Anomalous Hall Effect in EuB <sub>6</sub> . <i>Physical Review Letters</i> , <b>2020</b> , 124, 076403                                                                        | 7.4  | 25 |
| 176 | In Situ Induction of Strain in Iron Phosphide (FeP <sub>2</sub> ) Catalyst for Enhanced Hydroxide Adsorption and Water Oxidation. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907791              | 15.6 | 30 |
| 175 | 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 |
| 174 | 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 |
| 173 | Descriptor for Hydrogen Evolution Catalysts Based on the Bulk Band Structure Effect. <i>ACS Catalysis</i> , <b>2020</b> , 10, 5042-5048                                                                         | 13.1 | 21 |
| 172 | A combined laser-based angle-resolved photoemission spectroscopy and two-photon photoemission spectroscopy study of Td-WTe <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 345503 | 1.8  | 2  |
| 171 | Comprehensive scan for nonmagnetic Weyl semimetals with nonlinear optical response. <i>Npj Computational Materials</i> , <b>2020</b> , 6,                                                                       | 10.9 | 12 |
| 170 | Pressure tuning of the anomalous Hall effect in the chiral antiferromagnet Mn <sub>3</sub> Ge. <i>Physical Review Materials</i> , <b>2020</b> , 4,                                                              | 3.2  | 7  |

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| 169 | Difference frequency generation in topological semimetals. <i>Physical Review Research</i> , <b>2020</b> , 2,                                                                             | 3.9  | 27 |
| 168 | Observation of charge to spin conversion in Weyl semimetal WTe <sub>2</sub> at room temperature. <i>Physical Review Research</i> , <b>2020</b> , 2,                                       | 3.9  | 39 |
| 167 | Active learning algorithm for computational physics. <i>Physical Review Research</i> , <b>2020</b> , 2,                                                                                   | 3.9  | 5  |
| 166 | Consequences of time-reversal-symmetry breaking in the light-matter interaction: Berry curvature, quantum metric, and diabatic motion. <i>Physical Review Research</i> , <b>2020</b> , 2, | 3.9  | 21 |
| 165 | Recent Advances in Two-Dimensional Magnets: Physics and Devices towards Spintronic Applications. <i>Research</i> , <b>2020</b> , 2020, 1768918                                            | 7.8  | 17 |
| 164 | Largely Suppressed Magneto-Thermal Conductivity and Enhanced Magneto-Thermoelectric Properties in PtSn. <i>Research</i> , <b>2020</b> , 2020, 4643507                                     | 7.8  | 11 |
| 163 | The giant planar Hall effect and anisotropic magnetoresistance in Dirac node arcs semimetal PtSn. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 315702                   | 1.8  | 4  |
| 162 | Spin Nernst effect in a p-band semimetal InBi. <i>New Journal of Physics</i> , <b>2020</b> , 22, 093003                                                                                   | 2.9  | 3  |
| 161 | Surface superconductivity in the type II Weyl semimetal TaIrTe <sub>5</sub> . <i>National Science Review</i> , <b>2020</b> , 7, 579-587                                                   | 10.8 | 16 |
| 160 | Ab initio study of quantized circular photogalvanic effect in chiral multifold semimetals. <i>Physical Review B</i> , <b>2020</b> , 102,                                                  | 3.3  | 6  |
| 159 | Dirac fermions in antiferromagnetic FeSn kagome lattices with combined space inversion and time-reversal symmetry. <i>Physical Review B</i> , <b>2020</b> , 102,                          | 3.3  | 14 |
| 158 | Field-Modulated Anomalous Hall Conductivity and Planar Hall Effect in CoSnS Nanoflakes. <i>Nano Letters</i> , <b>2020</b> , 20, 7860-7867                                                 | 11.5 | 9  |
| 157 | Eightfold fermionic excitation in a charge density wave compound. <i>Physical Review B</i> , <b>2020</b> , 102,                                                                           | 3.3  | 7  |
| 156 | Exploiting Two-Dimensional Bi <sub>2</sub> O <sub>2</sub> Se for Trace Oxygen Detection. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 18094-18099                                        | 11.5 | 9  |
| 155 | Handedness-dependent quasiparticle interference in the two enantiomers of the topological chiral semimetal PdGa. <i>Nature Communications</i> , <b>2020</b> , 11, 3507                    | 17.4 | 8  |
| 154 | A native oxide high- $\kappa$ gate dielectric for two-dimensional electronics. <i>Nature Electronics</i> , <b>2020</b> , 3, 473-478                                                       | 28.4 | 58 |
| 153 | Topological Lifshitz transition of the intersurface Fermi-arc loop in NbIrTe <sub>4</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,                                                 | 3.3  | 4  |
| 152 | Topological thermoelectrics. <i>APL Materials</i> , <b>2020</b> , 8, 040913                                                                                                               | 5.7  | 34 |

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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 151 | Anomalous Hall effect and the role of Berry curvature in Co <sub>2</sub> TiSn Heusler films. <i>Physical Review B</i> , <b>2019</b> , 100,                                                         | 3.3  | 16  |
| 150 | Switchable magnetic bulk photovoltaic effect in the two-dimensional magnet CrI. <i>Nature Communications</i> , <b>2019</b> , 10, 3783                                                              | 17.4 | 39  |
| 149 | Room-temperature angular-dependent topological Hall effect in chiral antiferromagnetic Weyl semimetal Mn <sub>3</sub> Sn. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 102404               | 3.4  | 13  |
| 148 | Thickness dependence of the anomalous Hall effect in thin films of the topological semimetal Co <sub>2</sub> MnGa. <i>Physical Review B</i> , <b>2019</b> , 100,                                   | 3.3  | 33  |
| 147 | Fermi-arc diversity on surface terminations of the magnetic Weyl semimetal CoSnS. <i>Science</i> , <b>2019</b> , 365, 1286-1291                                                                    | 33.3 | 222 |
| 146 | Magnetic Weyl semimetal phase in a Kagomé crystal. <i>Science</i> , <b>2019</b> , 365, 1282-1285                                                                                                   | 33.3 | 238 |
| 145 | Optimization of catalytic active sites in non-collinear antiferromagnetic Mn <sub>3</sub> Pt bulk single-crystal. <i>Materials Today Physics</i> , <b>2019</b> , 10, 100137                        | 8    | 4   |
| 144 | Extremely high conductivity observed in the triple point topological metal MoP. <i>Nature Communications</i> , <b>2019</b> , 10, 2475                                                              | 17.4 | 28  |
| 143 | Large spin-orbit torque efficiency enhanced by magnetic structure of collinear antiferromagnet IrMn. <i>Science Advances</i> , <b>2019</b> , 5, eaau6696                                           | 14.3 | 37  |
| 142 | Chiral topological semimetal with multifold band crossings and long Fermi arcs. <i>Nature Physics</i> , <b>2019</b> , 15, 759-765                                                                  | 16.2 | 98  |
| 141 | Strong spin-orbit coupling and Dirac nodal lines in the three-dimensional electronic structure of metallic rutile IrO <sub>2</sub> . <i>Physical Review B</i> , <b>2019</b> , 99,                  | 3.3  | 11  |
| 140 | Synergistically creating sulfur vacancies in semimetal-supported amorphous MoS <sub>2</sub> for efficient hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 254, 1-6   | 21.8 | 42  |
| 139 | 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  |
| 138 | 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  |
| 137 | Large anomalous Hall and Nernst effects from nodal line symmetry breaking in Fe <sub>2</sub> MnX (X = P, As, Sb). <i>Physical Review B</i> , <b>2019</b> , 99,                                     | 3.3  | 18  |
| 136 | Anisotropic topological Hall effect with real and momentum space Berry curvature in the antiskyrmion-hosting Heusler compound Mn <sub>1.4</sub> PtSn. <i>Physical Review B</i> , <b>2019</b> , 99, | 3.3  | 22  |
| 135 | Giant intrinsic spin Hall effect in WTa and other A15 superconductors. <i>Science Advances</i> , <b>2019</b> , 5, eaav8571.3                                                                       | 14.3 | 34  |
| 134 | In Situ Modification of a Delafossite-Type PdCoO Bulk Single Crystal for Reversible Hydrogen Sorption and Fast Hydrogen Evolution. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2185-2191          | 20.1 | 19  |

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| 133 | Magneto-thermoelectric characterization of a HfTe <sub>5</sub> micro-ribbon. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 072109                                                                        | 3.4  | 4   |
| 132 | Topological Lifshitz transitions and Fermi arc manipulation in Weyl semimetal NbAs. <i>Nature Communications</i> , <b>2019</b> , 10, 3478                                                                      | 17.4 | 20  |
| 131 | Surface states in bulk single crystal of topological semimetal CoSnS toward water oxidation. <i>Science Advances</i> , <b>2019</b> , 5, eaaw9867                                                               | 14.3 | 63  |
| 130 | Spin fluctuation induced Weyl semimetal state in the paramagnetic phase of EuCdAs. <i>Science Advances</i> , <b>2019</b> , 5, eaaw4718                                                                         | 14.3 | 48  |
| 129 | Dirac Nodal Arc Semimetal PtSn : An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13107-13112 | 16.4 | 27  |
| 128 | Dirac Nodal Arc Semimetal PtSn <sub>4</sub> : An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13241-13246           | 3.6  | 7   |
| 127 | Signatures for half-metallicity and nontrivial surface states in the kagome lattice Weyl semimetal Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . <i>Physical Review B</i> , <b>2019</b> , 99,               | 3.3  | 19  |
| 126 | Higher-Order Topology, Monopole Nodal Lines, and the Origin of Large Fermi Arcs in Transition Metal Dichalcogenides XTe <sub>2</sub> (X=Mo,W). <i>Physical Review Letters</i> , <b>2019</b> , 123, 186401      | 7.4  | 116 |
| 125 | Pressure tuning of the electrical transport properties in the Weyl semimetal TaP. <i>Physical Review Materials</i> , <b>2019</b> , 3,                                                                          | 3.2  | 4   |
| 124 | Linear Response in Topological Materials. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4832                                                                                                        | 2.6  | 7   |
| 123 | Strong bulk photovoltaic effect in chiral crystals in the visible spectrum. <i>Physical Review B</i> , <b>2019</b> , 100,                                                                                      | 3.3  | 12  |
| 122 | Intrinsic Anomalous Nernst Effect Amplified by Disorder in a Half-Metallic Semimetal. <i>Physical Review X</i> , <b>2019</b> , 9,                                                                              | 9.1  | 21  |
| 121 | Axionic charge-density wave in the Weyl semimetal (TaSe) <sub>3</sub> . <i>Nature</i> , <b>2019</b> , 575, 315-319                                                                                             | 50.4 | 75  |
| 120 | Low Residual Carrier Concentration and High Mobility in 2D Semiconducting BiOSe. <i>Nano Letters</i> , <b>2019</b> , 19, 197-202                                                                               | 11.5 | 56  |
| 119 | Prediction of a magnetic Weyl semimetal without spin-orbit coupling and strong anomalous Hall effect in the Heusler compensated ferrimagnet Ti <sub>2</sub> MnAl. <i>Physical Review B</i> , <b>2018</b> , 97, | 3.3  | 43  |
| 118 | Tunable Weyl and Dirac states in the nonsymmorphic compound CeSbTe. <i>Science Advances</i> , <b>2018</b> , 4, eaar2317                                                                                        | 23.7 | 61  |
| 117 | Topological antiferromagnetic spintronics. <i>Nature Physics</i> , <b>2018</b> , 14, 242-251                                                                                                                   | 16.2 | 248 |
| 116 | Mobility spectrum analytical approach for the type-II Weyl semimetal Td-MoTe <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2018</b> , 112, 072401                                                         | 3.4  | 3   |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----|
| 115 | Quantum oscillations in the type-II Dirac semi-metal candidate PtSe <sub>2</sub> . <i>New Journal of Physics</i> , <b>2018</b> , 20, 043008                                                                     | 2.9   | 24  |
| 114 | Dirac dispersion generates unusually large Nernst effect in Weyl semimetals. <i>Physical Review B</i> , <b>2018</b> , 97,                                                                                       | 3.3   | 47  |
| 113 | Topological Weyl semimetals in Bi <sub>1-x</sub> Sb <sub>x</sub> alloys. <i>Physical Review B</i> , <b>2018</b> , 97,                                                                                           | 3.3   | 12  |
| 112 | Pressure-induced superconductivity and topological quantum phase transitions in a quasi-one-dimensional topological insulator: Bi <sub>4</sub> I <sub>4</sub> . <i>Npj Quantum Materials</i> , <b>2018</b> , 3, | 5     | 22  |
| 111 | Symmetry demanded topological nodal-line materials. <i>Advances in Physics: X</i> , <b>2018</b> , 3, 1414631                                                                                                    | 5.1   | 77  |
| 110 | Berry curvature dipole in Weyl semimetal materials: An ab initio study. <i>Physical Review B</i> , <b>2018</b> , 97,                                                                                            | 3.3   | 79  |
| 109 | Giant anomalous Hall effect in a ferromagnetic Kagomé lattice semimetal. <i>Nature Physics</i> , <b>2018</b> , 14, 1125-1131                                                                                    | 16.31 | 440 |
| 108 | Planar Hall effect in the type-II Weyl semimetal TdMoTe <sub>2</sub> . <i>Physical Review B</i> , <b>2018</b> , 98,                                                                                             | 3.3   | 29  |
| 107 | Heusler, Weyl and Berry. <i>Nature Reviews Materials</i> , <b>2018</b> , 3, 244-256                                                                                                                             | 73.3  | 123 |
| 106 | A coronene-based semiconducting two-dimensional metal-organic framework with ferromagnetic behavior. <i>Nature Communications</i> , <b>2018</b> , 9, 2637                                                       | 17.4  | 140 |
| 105 | Electrically tuneable nonlinear anomalous Hall effect in two-dimensional transition-metal dichalcogenides WTe <sub>2</sub> and MoTe <sub>2</sub> . <i>2D Materials</i> , <b>2018</b> , 5, 044001                | 5.9   | 61  |
| 104 | Anomalous Hall effect in Weyl semimetal half-Heusler compounds RPtBi (R = Gd and Nd). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 9140-9144     | 11.5  | 61  |
| 103 | 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  |
| 102 | Spin Hall effect emerging from a noncollinear magnetic lattice without spin-orbit coupling. <i>New Journal of Physics</i> , <b>2018</b> , 20, 073028                                                            | 2.9   | 37  |
| 101 | Quasiparticle Interference Studies of Quantum Materials. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707628                                                                                                 | 24    | 11  |
| 100 | Strong anomalous Nernst effect in collinear magnetic Weyl semimetals without net magnetic moments. <i>Physical Review B</i> , <b>2018</b> , 97,                                                                 | 3.3   | 22  |
| 99  | Electronic properties of topological insulator candidate CaAgAs. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 045501                                                                          | 1.8   | 10  |
| 98  | Characterization of topological band structures away from the Fermi level by the anomalous Nernst effect. <i>Physical Review B</i> , <b>2018</b> , 98,                                                          | 3.3   | 18  |



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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 97 | From Colossal to Zero: Controlling the Anomalous Hall Effect in Magnetic Heusler Compounds via Berry Curvature Design. <i>Physical Review X</i> , <b>2018</b> , 8,                               | 9.1  | 37  |
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