# Claudia Felser

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 840 papers | 55,383 citations | 1371 108 h-index | 2243 201 g-index |
| 893 all docs | 893 docs citations | 893 times ranked | 26199 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Topological materials discovery from crystal symmetry. Nature Reviews Materials, 2022, 7, 196-216. | 48.7 | 65 |
| 2 | Giant anomalous Nernst signal in the antiferromagnet YbMnBi2. Nature Materials, 2022, 21, 203-209. | 27.5 | 72 |
| 3 | Grain boundary in NbCo(Pt)Sn half-Heusler compounds: Segregation and solute drag on grain boundary migration. Acta Materialia, 2022, 226, 117604. | 7.9 | 5 |
| 4 | Topological Hall effect arising from the mesoscopic and microscopic non-coplanar magnetic structure in MnBi. Acta Materialia, 2022, 226, 117619. | 7.9 | 11 |
| 5 | Direct observation of the spinâ€“orbit coupling effect in magnetic Weyl semimetal Co3Sn2S2. Npj Quantum Materials, 2022, 7, . | 5.2 | 16 |
| 6 | Quasi-quantized Hall response in bulk InAs. Scientific Reports, 2022, 12, 2153. | 3.3 | 3 |
| 7 | Pressureâ€Driven Magnetoâ€Topological Phase Transition in a Magnetic Weyl Semimetal. Advanced Quantum Technologies, 2022, 5, . | 3.9 | 7 |
| 8 | Spin-voltage-driven efficient terahertz spin currents from the magnetic Weyl semimetals Co2MnGa and Co2MnAl. Applied Physics Letters, 2022, 120, . | 3.3 | 11 |
| 9 | Nanoscale magnetic bubbles in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi><mml:mn>2</mml:mn></mml:mathvariant="normal">B</mml:mi></mml:mrow></mml:math> at room temperature. Physical Review B, 2022, 105, . | 3.2 | 8 |
| 10 | Spintronic THz emitters based on transition metals and semi-metals/Pt multilayers. Applied Physics Letters, 2022, 120, . | 3.3 | 10 |
| 11 | Ultrafast Subâ€100 fs Allâ€Optical Modulation and Efficient Thirdâ€Harmonic Generation in Weyl Semimetal Niobium Phosphide Thin Films. Advanced Materials, 2022, 34, e2106733. | 21.0 | 4 |
| 12 | Progress and prospects in magnetic topological materials. Nature, 2022, 603, 41-51. | 27.8 | 133 |
| 13 | Giant Chern number of a Weyl nodal surface without upper limit. Physical Review B, 2022, 105, . | 3.2 | 4 |
| 14 | Catalogue of flat-band stoichiometric materials. Nature, 2022, 603, 824-828. | 27.8 | 65 |
| 15 | Anisotropic large diamagnetism in Dirac semimetals ZrTe<sub>5</sub> and HfTe<sub>5</sub>. Journal of Physics Condensed Matter, 2022, 34, 225802. | 1.8 | 5 |
| 16 | Obstructed Surface States as the Descriptor for Predicting Catalytic Active Sites in Inorganic Crystalline Materials. Advanced Materials, 2022, 34, e2201328. | 21.0 | 18 |
| 17 | Structural, Thermodynamic, and Transport Properties of the Small-Gap Two-Dimensional Metalâ€“Organic KagomÃ© Materials Cu<sub>3</sub>(hexaiminobenzene)<sub>2</sub> and Ni<sub>3</sub>(hexaiminobenzene)<sub>2</sub>. Inorganic Chemistry, 2022, 61, 6480-6487. | 4.0 | 4 |
| 18 | Identification of Interface Structure for a Topological CoS<sub>2</sub> Single Crystal in Oxygen Evolution Reaction with High Intrinsic Reactivity. ACS Applied Materials & Interfaces, 2022, 14, 19324-19331. | 8.0 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Noncollinear magnetic order in epitaxial thin films of the centrosymmetric MnPtGa hard magnet. Applied Physics Letters, 2022, 120, 172403. | 3.3 | 2 |
| 20 | Second-harmonic generation in the topological multifold semimetal RhSi. Physical Review Research, 2022, 4, . | 3.6 | 10 |
| 21 | FAIR data enabling new horizons for materials research. Nature, 2022, 604, 635-642. | 27.8 | 81 |
| 22 | Observation of fractional spin textures in a Heusler material. Nature Communications, 2022, 13, 2348. | 12.8 | 9 |
| 23 | Observation of a linked-loop quantum state in a topological magnet. Nature, 2022, 604, 647-652. | 27.8 | 18 |
| 24 | Buckled Honeycomb Lattice Compound Sr<sub>3</sub>CaOs<sub>2</sub>O<sub>9</sub> Exhibiting Antiferromagnetism above Room Temperature. Chemistry of Materials, 2022, 34, 4741-4750. | 6.7 | 3 |
| 25 | Giant intrinsic anomalous terahertz Faraday rotation in the magnetic Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> at room temperature. Physical Review B, 2022, 105, . | 3.2 | 16 |
| 26 | Anomalous thermoelectric effects and quantum oscillations in the kagome metal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CsV</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2022, 105, . | 3.2 | 27 |
| 27 | Quasi-symmetry-protected topology in a semi-metal. Nature Physics, 2022, 18, 813-818. | 16.7 | 15 |
| 28 | All topological bands of all nonmagnetic stoichiometric materials. Science, 2022, 376, eabg9094. | 12.6 | 84 |
| 29 | Temperature-driven reorganization of electronic order in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>CsV</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> Physical Review B, 2022, 105, . | 3.2 | 11 |
| 30 | Long-lifetime spin excitations near domain walls in 1T-TaS <sub>2</sub>. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 4 |
| 31 | Observation of a phase transition within the domain walls of ferromagnetic Co3Sn2S2. Nature Communications, 2022, 13, . | 12.8 | 17 |
| 32 | Ultrahigh transverse thermoelectric power factor in flexible Weyl semimetal WTe2. Nature Communications, 2022, 13, . | 12.8 | 26 |
| 33 | Fully Two-Dimensional Incommensurate Charge Modulation on the Pd-Terminated Polar Surface of PdCoO<sub>2</sub>. Nano Letters, 2022, 22, 5635-5640. | 9.1 | 3 |
| 34 | Topological Quantum Materials from the Viewpoint of Chemistry. Chemical Reviews, 2021, 121, 2780-2815. | 47.7 | 70 |
| 35 | Structure and magnetism of new A- and B-site ordered double perovskites ALaCuOsO6 (A = Ba and Sr). Journal of Solid State Chemistry, 2021, 293, 121784. | 2.9 | 9 |
| 36 | Thermoelectric Properties of Novel Semimetals: A Case Study of YbMnSb<sub>2</sub>. Advanced Materials, 2021, 33, e2003168. | 21.0 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Tunable e g Orbital Occupancy in Heusler Compounds for Oxygen Evolution Reaction**. Angewandte Chemie, 2021, 133, 5864-5869. | 2.0 | 12 |
| 38 | Tunablee<sub>g</sub>Orbital Occupancy in Heusler Compounds for Oxygen Evolution Reaction**. Angewandte Chemie - International Edition, 2021, 60, 5800-5805. | 13.8 | 45 |
| 39 | The topology of electronic band structures. Nature Materials, 2021, 20, 293-300. | 27.5 | 81 |
| 40 | Evidence for Dominant Phonon-Electron Scattering in Weyl Semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WP</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m Physical Review X, 2021, 11, . | 8.9 | 28 |
| 41 | Evolution of transition metal charge states in correlation with the structural and magnetic properties in disordered double perovskites Ca<sub>2â^'x</sub>La<sub>x</sub>FeRuO<sub>6</sub> (0.5 â‰¤ x â‰¤ 2). Physical Chemistry Chemical Physics, 2021, 23, 21769-21783. | 2.8 | 9 |
| 42 | Metallic Magnetic Materials. , 2021, , 1-116. | | 1 |
| 43 | Giant topological longitudinal circular photo-galvanic effect in the chiral multifold semimetal CoSi. Nature Communications, 2021, 12, 154. | 12.8 | 89 |
| 44 | Magnetic and Electronic Properties of Weyl Semimetal Co2MnGa Thin Films. Nanomaterials, 2021, 11, 251. | 4.1 | 21 |
| 45 | Role of Magnetic Exchange Interactions in Chiral-Type Hall Effects of Epitaxial Mn<sub>x</sub>PtSn Films. ACS Applied Electronic Materials, 2021, 3, 1323-1333. | 4.3 | 11 |
| 46 | Thermoelectric Materials: Thermoelectric Properties of Novel Semimetals: A Case Study of YbMnSb<sub>2</sub> (Adv. Mater. 7/2021). Advanced Materials, 2021, 33, 2170051. | 21.0 | 1 |
| 47 | Field-induced charge symmetry revealed by nuclear magnetic resonance in the topological insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mm Physical Review Research, 2021, 3, . | 3.6 | 5 |
| 48 | Broadband optical conductivity of the chiral multifold semimetal PdGa. Physical Review B, 2021, 103, . | 3.2 | 8 |
| 49 | Crystal Growth of a New 8H Perovskite Sr<sub>8</sub>Os<sub>6.3</sub>O<sub>24</sub> Exhibiting High T<sub>C</sub> Ferromagnetism. Crystal Growth and Design, 2021, 21, 2459-2464. | 3.0 | 3 |
| 50 | Enhancement of basal plane electrocatalytic hydrogen evolution activity via joint utilization of trivial and non-trivial surface states. Applied Materials Today, 2021, 22, 100921. | 4.3 | 12 |
| 51 | Martensite-austenite transition correlated twinning and symmetry breaking in single crystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ni</mml:mi><mml:mn>50</mml:mn></m Physical Review Materials, 2021, 5, . | 2.4 | 0 |
| 52 | 2Dâ€Berryâ€Curvatureâ€Driven Large Anomalous Hall Effect in Layered Topological Nodalâ€Line MnAlGe. Advanced Materials, 2021, 33, e2006301. | 21.0 | 28 |
| 53 | Linkage between scattering rates and superconductivity in doped ferropnictides. Physical Review B, 2021, 103, . | 3.2 | 9 |
| 54 | Large anomalous Hall effect in the kagome ferromagnet LiMn6Sn6. Physical Review B, 2021, 103, . | 3.2 | 35 |

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| 55 | (Quasi-)Quantization of the electrical, thermal, and thermoelectrical conductivities in two and three dimensions. Journal of Physics Communications, 2021, 5, 045007. | 1.2 | 2 |
| 56 | Extremely large magnetoresistance from electron-hole compensation in the nodal-loop semimetal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>ZrP</mml:mi><mml:mn>2</mml:mn></mml:msub></mml Physical Review B, 2021, 103, . | 3.2 | 16 |
| 57 | Magnetocrystalline anisotropies in MnxPtSn thin films. APL Materials, 2021, 9, . | 5.1 | 3 |
| 58 | Topological magnetic order and superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Eu</mml:mi><mml:mi>Rb</mml:mi><mml:mn>4</mml:mn><mml:msub><mml:m Physical Review B, 2021, 103, . | 3.2 | 10 |
| 59 | Origin of the quasi-quantized Hall effect in ZrTe5. Nature Communications, 2021, 12, 3197. | 12.8 | 31 |
| 60 | Hard magnet topological semimetals in XPt3 compounds with the harmony of Berry curvature. Communications Physics, 2021, 4, . | 5.3 | 8 |
| 61 | Giant Anomalous Hall Conductivity in the Itinerant Ferromagnet LaCrSb<sub>3</sub> and the Effect of fâ€Electrons. Advanced Quantum Technologies, 2021, 4, 2100023. | 3.9 | 3 |
| 62 | Critical sample aspect ratio and magnetic field dependence for antiskyrmion formation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mrow><mml:mn>1.4</mml single crystals. Physical Review B, 2021, 103, . | 3.2 | 7 |
| 63 | Composition-dependent transition in the magnetocrystalline anisotropy of tetragonal Heusler alloys Rh2TSb(T=Fe,Co). Physical Review Materials, 2021, 5, . | 2.4 | 4 |
| 64 | Magnetic and electronic ordering phenomena in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ru</mml:mi><mml:mn>2</mml:mn></mml: mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math> -layer honeycomb lattice compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>AgRuO</mml:mi><mml:mn>3</mml:mn></mml:msub></ Physical Review B, 2021, 103, . | 3.2 | 10 |
| 65 | Observation of the critical state to multiple-type Dirac semimetal phases in KMgBi. Journal of Applied Physics, 2021, 129, . | 2.5 | 1 |
| 66 | Observation of a singular Weyl point surrounded by charged nodal walls in PtGa. Nature Communications, 2021, 12, 3994. | 12.8 | 15 |
| 67 | Pressure-induced superconductivity and modification of Fermi surface in type-II Weyl semimetal NbIrTe4. Npj Quantum Materials, 2021, 6, . | 5.2 | 8 |
| 68 | Anisotropic magnetization, critical temperature, and paramagnetic Curie temperature in the highly anisotropic magnetic Heusler compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Rh</mml:mi><mml:mn>2</mml:mn></mml: Physical Review B, 2021, 103, . | 3.2 | 3 |
| 69 | Evidence for one-dimensional chiral edge states in a magnetic Weyl semimetal Co3Sn2S2. Nature Communications, 2021, 12, 4269. | 12.8 | 40 |
| 70 | Nanoscale Noncollinear Spin Textures in Thin Films of a D<sub>2d</sub> Heusler Compound. Advanced Materials, 2021, 33, e2101323. | 21.0 | 8 |
| 71 | Large Anomalous Hall and Nernst Effects in High Curieâ€Temperature Ironâ€Based Heusler Compounds. Advanced Science, 2021, 8, e2100782. | 11.2 | 20 |
| 72 | Large linear non-saturating magnetoresistance and high mobility in ferromagnetic MnBi. Nature Communications, 2021, 12, 4576. | 12.8 | 22 |

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| 73 | Ganzheitliche Betrachtung in der Materialentwicklung: Wasserâ€Elektrolyse als Fallbeispiel. Angewandte Chemie, 2021, 133, 20254-20260. | 2.0 | 7 |
| 74 | On the anomalous low-resistance state and exceptional Hall component in hard-magnetic Weyl nanoflakes. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1. | 5.1 | 11 |
| 75 | Layer Hall effect in a 2D topological axion antiferromagnet. Nature, 2021, 595, 521-525. | 27.8 | 136 |
| 76 | Holistic View on Materials Development: Water Electrolysis as a Case Study. Angewandte Chemie - International Edition, 2021, 60, 20094-20100. | 13.8 | 15 |
| 77 | Magnetocatalysis: The Interplay between the Magnetic Field and Electrocatalysis. CCS Chemistry, 2021, 3, 2259-2267. | 7.8 | 13 |
| 78 | Quantum Oscillations in Ferromagnetic (Sb, V) 2 Te 3 Topological Insulator Thin Films. Advanced Materials, 2021, 33, 2102107. | 21.0 | 3 |
| 79 | Sondheimer oscillations as a probe of non-ohmic flow in WP2 crystals. Nature Communications, 2021, 12, 4799. | 12.8 | 7 |
| 80 | Suppression of axionic charge density wave and onset of superconductivity in the chiral Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ta</mml:mi><mml:mn>2</mml:mn></mml:r mathvariant="normal">I</mml:mi></mml:mrow></mml:math>. Physical Review Materials, 2021, 5, . | 2.4 | 12 |
| 81 | Anisotropic magnetothermal transport in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml:r thin films. Physical Review B, 2021, 104, . | 3.2 | 4 |
| 82 | Design strong anomalous Hall effect via spin canting in antiferromagnetic nodal line materials. Physical Review B, 2021, 104, . | 3.2 | 7 |
| 83 | Dopant-segregation to grain boundaries controls electrical conductivity of n-type NbCo(Pt)Sn half-Heusler alloy mediating thermoelectric performance. Acta Materialia, 2021, 217, 117147. | 7.9 | 24 |
| 84 | Demonstration of valley anisotropy utilized to enhance the thermoelectric power factor. Nature Communications, 2021, 12, 5408. | 12.8 | 66 |
| 85 | Large magnon-induced anomalous Nernst conductivity in single-crystal MnBi. Joule, 2021, 5, 3057-3067. | 24.0 | 21 |
| 86 | Imaging phonon-mediated hydrodynamic flow in WTe2. Nature Physics, 2021, 17, 1216-1220. | 16.7 | 72 |
| 87 | Direct and Indirect Determination of the Magnetocaloric Effect in the Heusler Compound Ni1.7Pt0.3MnGa. Entropy, 2021, 23, 1273. | 2.2 | 4 |
| 88 | Gradience in subjectâ€“verb number agreement: Can bilinguals tune in?. Applied Psycholinguistics, 2021, 42, 1523-1551. | 1.1 | 2 |
| 89 | Anisotropic Nodalâ€Lineâ€Derived Large Anomalous Hall Conductivity in ZrMnP and HfMnP. Advanced Materials, 2021, 33, 2104126. | 21.0 | 4 |
| 90 | MoS2 on topological insulator Bi2Te3 thin films: Activation of the basal plane for hydrogen reduction. Journal of Energy Chemistry, 2021, 62, 516-522. | 12.9 | 24 |

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| 91 | Pressure-induced a partial disorder and superconductivity in quasi-one-dimensional Weyl semimetal (NbSe4)2I. Materials Today Physics, 2021, 21, 100509. | 6.0 | 13 |
| 92 | A charge-density-wave topological semimetal. Nature Physics, 2021, 17, 381-387. | 16.7 | 76 |
| 93 | Influence of Cr substitution on the reversibility of the magnetocaloric effect in Ni-Cr-Mn-In Heusler alloys. Physical Review Materials, 2021, 5, . | 2.4 | 7 |
| 94 | Direct Measurement of Helicoid Surface States in RhSi Using Nonlinear Optics. Physical Review Letters, 2021, 127, 157405. | 7.8 | 16 |
| 95 | Temperature dependence of quantum oscillations from non-parabolic dispersions. Nature Communications, 2021, 12, 6213. | 12.8 | 14 |
| 96 | Giant Topological Hall Effect in the Noncollinear Phase of Two-Dimensional Antiferromagnetic Topological Insulator MnBi<sub>4</sub>Te<sub>7</sub>. Chemistry of Materials, 2021, 33, 8343-8350. | 6.7 | 13 |
| 97 | Metallic Magnetic Materials. , 2021, , 693-808. | | 0 |
| 98 | Topological phase transition in a magnetic Weyl semimetal. Physical Review B, 2021, 104, . | 3.2 | 7 |
| 99 | Signatures of Weyl Fermion Annihilation in a Correlated Kagome Magnet. Physical Review Letters, 2021, 127, 256403. | 7.8 | 17 |
| 100 | Transition metal on topological chiral semimetal PdGa with tailored hydrogen adsorption and reduction. Npj Computational Materials, 2021, 7, . | 8.7 | 12 |
| 101 | Revealing the Intrinsic Electronic Structure of 3D Halfâ€Heusler Thermoelectric Materials by Angleâ€Resolved Photoemission Spectroscopy. Advanced Science, 2020, 7, 1902409. | 11.2 | 49 |
| 102 | Pressure-Induced Charge Disorderâ€“Order Transition in the Cs<sub>4</sub>O<sub>6</sub> Sesquioxide. Inorganic Chemistry, 2020, 59, 1256-1264. | 4.0 | 0 |
| 103 | Co<sub>3</sub>O<sub>4</sub>-Î³-Fe<sub>2</sub>O<sub>3</sub> Nanocrystal Heterostructures with Enhanced Coercivity and Blocking Temperature. Journal of Physical Chemistry C, 2020, 124, 1623-1630. | 3.1 | 1 |
| 104 | Observation of Robust NÃ©el Skyrmions in Metallic PtMnGa. Advanced Materials, 2020, 32, e1904327. | 21.0 | 33 |
| 105 | Observation of Magnetic Antiskyrmions in the Low Magnetization Ferrimagnet Mn<sub>2</sub>Rh<sub>0.95</sub>Ir<sub>0.05</sub>Sn. Nano Letters, 2020, 20, 59-65. | 9.1 | 51 |
| 106 | Signatures of the Magnetic Entropy in the Thermopower Signals in Nanoribbons of the Magnetic Weyl Semimetal Co<sub>3</sub>Sn<sub>2</sub>S<sub>2</sub>. Nano Letters, 2020, 20, 300-305. | 9.1 | 23 |
| 107 | Ab initio study of quantized circular photogalvanic effect in chiral multifold semimetals. Physical Review B, 2020, 102, . | 3.2 | 22 |
| 108 | Optical signatures of multifold fermions in the chiral topological semimetal CoSi. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27104-27110. | 7.1 | 37 |

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|---|---|---|---|
| 109 | Optical method to detect the relationship between chirality of reciprocal space chiral multifold fermions and real space chiral crystals. Physical Review B, 2020, 102, . | 3.2 | 6 |
| 110 | Field-Modulated Anomalous Hall Conductivity and Planar Hall Effect in Co<sub>3</sub>Sn<sub>2</sub>S<sub>2</sub> Nanoflakes. Nano Letters, 2020, 20, 7860-7867. | 9.1 | 27 |
| 111 | Axion physics in condensed-matter systems. Nature Reviews Physics, 2020, 2, 682-696. | 26.6 | 74 |
| 112 | A New Highly Anisotropic Rhâ€Based Heusler Compound for Magnetic Recording. Advanced Materials, 2020, 32, 2004331. | 21.0 | 18 |
| 113 | Topological Hall Signatures of Two Chiral Spin Textures Hosted in a Single Tetragonal Inverse Heusler Thin Film. ACS Nano, 2020, 14, 13463-13469. | 14.6 | 19 |
| 114 | Effect of uniaxial stress on the electronic band structure of NbP. Physical Review B, 2020, 102, . | 3.2 | 6 |
| 115 | Thermoelectric properties of n-type half-Heusler NbCoSn with heavy-element Pt substitution. Journal of Materials Chemistry A, 2020, 8, 14822-14828. | 10.3 | 44 |
| 116 | Anisotropic fractal magnetic domain pattern in bulk <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Mn</mml:mi><mml:mrow><mml:mn>1.4</mml:mn></mml:mrow></mml:msub><mml:mi>Pt</mml:mi><mml:mi Physical Review B, 2020, 102, . | 3.2 | 11 |
| 117 | Unconventional Hall response in the quantum limit of HfTe5. Nature Communications, 2020, 11, 5926. | 12.8 | 32 |
| 118 | Helicity-dependent photocurrents in the chiral Weyl semimetal RhSi. Science Advances, 2020, 6, eaba0509. | 10.3 | 129 |
| 119 | 40 years of the quantum Hall effect. Nature Reviews Physics, 2020, 2, 397-401. | 26.6 | 84 |
| 120 | Idiosyncratic Ag 7 Pt 2 O 7 : An Electron Imprecise yet Diamagnetic Small Band Gap Oxide. Angewandte Chemie - International Edition, 2020, 59, 19910-19913. | 13.8 | 5 |
| 121 | Handedness-dependent quasiparticle interference in the two enantiomers of the topological chiral semimetal PdGa. Nature Communications, 2020, 11, 3507. | 12.8 | 27 |
| 122 | Topological Lifshitz transition of the intersurface Fermi-arc loop in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NbIrTe</mml:mi><mml:mn>4</mml:mn></mml:msub></m Physical Review B, 2020, 102, . | 3.2 | 12 |
| 123 | Effect of topology on quasiparticle interactions in the Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WP</mml:mi><mml:mn>2</mml:mn></mml:msub></m Physical Review B, 2020, 102, . | 3.2 | 9 |
| 124 | Optical conductivity of the type-II Weyl semimetal WTe2 under pressure. Physical Review B, 2020, 102, . | 3.2 | 2 |
| 125 | High-throughput calculations of magnetic topological materials. Nature, 2020, 586, 702-707. | 27.8 | 241 |
| 126 | Large topological Hall effect in an easy-cone ferromagnet (Cr0.9B0.1)Te. Applied Physics Letters, 2020, 117, . | 3.3 | 15 |

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| 127 | Electron hydrodynamics in anisotropic materials. Nature Communications, 2020, 11, 4710. | 12.8 | 38 |
| 128 | Structure and Magnetic Properties of Sr<sub>2</sub>NaOsO<sub>6</sub>. European Journal of Inorganic Chemistry, 2020, 2020, 3991-3995. | 2.0 | 4 |
| 129 | Idiosyncratic Ag 7 Pt 2 O 7 : An Electron Imprecise yet Diamagnetic Small Band Gap Oxide. Angewandte Chemie, 2020, 132, 20082-20085. | 2.0 | 1 |
| 130 | Evolution and competition between chiral spin textures in nanostripes with D <sub>2d</sub> symmetry. Science Advances, 2020, 6, . | 10.3 | 24 |
| 131 | Robust metastable skyrmions with tunable size in the chiral magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Fe</mml:mi><mml:mi>Pt</mml:mi><mml:msub><mml mathvariant="normal">N</mml:mi></mml:mrow></mml:math>. Physical Review B, 2020, 102, . | 3.2 | 6 |
| 132 | Mg<sub>3</sub>(Bi,Sb)<sub>2</sub> single crystals towards high thermoelectric performance. Energy and Environmental Science, 2020, 13, 1717-1724. | 30.8 | 91 |
| 133 | Water structure near the surface of Weyl semimetals as catalysts in photocatalytic proton reduction. Structural Dynamics, 2020, 7, 034101. | 2.3 | 5 |
| 134 | Mode-resolved reciprocal space mapping of electron-phonon interaction in the Weyl semimetal candidate Td-WTe2. Nature Communications, 2020, 11, 2613. | 12.8 | 51 |
| 135 | Tunable Magnetic Antiskyrmion Size and Helical Period from Nanometers to Micrometers in a D<sub>2d</sub> Heusler Compound. Advanced Materials, 2020, 32, e2002043. | 21.0 | 37 |
| 136 | Establishing the carrier scattering phase diagram for ZrNiSn-based half-Heusler thermoelectric materials. Nature Communications, 2020, 11, 3142. | 12.8 | 87 |
| 137 | Emerging chiral edge states from the confinement of a magnetic Weyl semimetal in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>3</mml:mn></mml mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, . | 3.2 | 48 |
| 138 | Visualizing coexisting surface states in the weak and crystalline topological insulator Bi2TeI. Nature Materials, 2020, 19, 610-616. | 27.5 | 23 |
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