# Stuart Parkin

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 620 papers | 59,973 citations | 1981 104 h-index | 1371 228 g-index |
| 648 all docs | 648 docs citations | 648 times ranked | 29449 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Integrated Hybrid VO<sub>2</sub>â€“Silicon Optical Memory. ACS Photonics, 2022, 9, 217-223. | 3.2 | 36 |
| 2 | Anomalous excitations of atomically crafted quantum magnets. Science Advances, 2022, 8, eabi7291. | 4.7 | 8 |
| 3 | Direct observation of the spinâ€“orbit coupling effect in magnetic Weyl semimetal Co3Sn2S2. Npj Quantum Materials, 2022, 7, . | 1.8 | 16 |
| 4 | Magnetic Skyrmions in a Thickness Tunable 2D Ferromagnet from a Defect Driven Dzyaloshinskiiâ€“Moriya Interaction. Advanced Materials, 2022, 34, e2108637. | 11.1 | 33 |
| 5 | Heusler-based synthetic antiferrimagnets. Science Advances, 2022, 8, eabg2469. | 4.7 | 6 |
| 6 | 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, . | 1.1 | 8 |
| 7 | Ultrafast Subâ€100 fs Allâ€Optical Modulation and Efficient Thirdâ€Harmonic Generation in Weyl Semimetal Niobium Phosphide Thin Films. Advanced Materials, 2022, 34, e2106733. | 11.1 | 4 |
| 8 | Catalogue of flat-band stoichiometric materials. Nature, 2022, 603, 824-828. | 13.7 | 65 |
| 9 | Giant Spin Hall Effect and Spinâ€“Orbit Torques in 5d Transition Metalâ€“Aluminum Alloys from Extrinsic Scattering. Advanced Materials, 2022, 34, e2109406. | 11.1 | 10 |
| 10 | Control of Oxygen Vacancy Ordering in Brownmillerite Thin Films via Ionic Liquid Gating. ACS Nano, 2022, , . | 7.3 | 14 |
| 11 | Atomic Scale Control of Spin Current Transmission at Interfaces. Nano Letters, 2022, 22, 3539-3544. | 4.5 | 14 |
| 12 | The Magnetic Genome of Two-Dimensional van der Waals Materials. ACS Nano, 2022, 16, 6960-7079. | 7.3 | 149 |
| 13 | Obstructed Surface States as the Descriptor for Predicting Catalytic Active Sites in Inorganic Crystalline Materials. Advanced Materials, 2022, 34, e2201328. | 11.1 | 18 |
| 14 | The field-free Josephson diode in a van der Waals heterostructure. Nature, 2022, 604, 653-656. | 13.7 | 131 |
| 15 | Observation of fractional spin textures in a Heusler material. Nature Communications, 2022, 13, 2348. | 5.8 | 9 |
| 16 | Crystallographic dependence of the spin Hall angle in epitaxial Pt films: Comparison of optical and electrical detection of spin-torque ferromagnetic resonance techniques. Applied Physics Letters, 2022, 120, . | 1.5 | 5 |
| 17 | Fermi surface chirality induced in a TaSe2 monosheet formed by a Ta/Bi2Se3 interface reaction. Nature Communications, 2022, 13, 2472. | 5.8 | 2 |
| 18 | All topological bands of all nonmagnetic stoichiometric materials. Science, 2022, 376, eabg9094. | 6.0 | 84 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Racetrack Memory: a high capacity, high performance, non-volatile spintronic memory. , 2022, , . | | 4 |
| 20 | Setting of the magnetic structure of chiral kagome antiferromagnets by a seeded spin-orbit torque. Science Advances, 2022, 8, . | 4.7 | 25 |
| 21 | Observation of NÃ©el-type skyrmions in acentric self-intercalated Cr1+ÎTe2. Nature Communications, 2022, 13, . | 5.8 | 18 |
| 22 | Zero-field polarity-reversible Josephson supercurrent diodes enabled by a proximity-magnetized Pt barrier. Nature Materials, 2022, 21, 1008-1013. | 13.3 | 38 |
| 23 | Structure and Magnetism of EuS on Bi<sub>2</sub>Se<sub>3</sub>(0001). Physica Status Solidi (B): Basic Research, 2021, 258, 2000290. | 0.7 | 8 |
| 24 | Material Preparation/Thin Film Growth. , 2021, , 1-50. | | 0 |
| 25 | Increased Efficiency of Currentâ€Induced Motion of Chiral Domain Walls by Interface Engineering. Advanced Materials, 2021, 33, 2007991. | 11.1 | 13 |
| 26 | Correlating Josephson supercurrents and Shiba states in quantum spins unconventionally coupled to superconductors. Nature Communications, 2021, 12, 1108. | 5.8 | 21 |
| 27 | Colloquium : Physical properties of group-IV monochalcogenide monolayers. Reviews of Modern Physics, 2021, 93, . | 16.4 | 87 |
| 28 | Interplay between superconductivity and the Kondo effect on magnetic nanodots. Applied Physics Letters, 2021, 118, 152407. | 1.5 | 3 |
| 29 | Competing Energy Scales in Topological Superconducting Heterostructures. Nano Letters, 2021, 21, 2758-2765. | 4.5 | 3 |
| 30 | Chiral spintronics. Nature Reviews Physics, 2021, 3, 328-343. | 11.9 | 191 |
| 31 | Large Fermiâ€Energy Shift and Suppression of Trivial Surface States in NbP Weyl Semimetal Thin Films. Advanced Materials, 2021, 33, e2008634. | 11.1 | 7 |
| 32 | Origin of the quasi-quantized Hall effect in ZrTe5. Nature Communications, 2021, 12, 3197. | 5.8 | 31 |
| 33 | Observation of the critical state to multiple-type Dirac semimetal phases in KMgBi. Journal of Applied Physics, 2021, 129, . | 1.1 | 1 |
| 34 | Observation of Optically Addressable Nonvolatile Memory in VO<sub>2</sub> at Room Temperature. Advanced Electronic Materials, 2021, 7, 2001142. | 2.6 | 20 |
| 35 | Nanoscale Noncollinear Spin Textures in Thin Films of a D<sub>2d</sub> Heusler Compound. Advanced Materials, 2021, 33, e2101323. | 11.1 | 8 |
| 36 | Determination of the spin Hall angle by the inverse spin Hall effect, device level ferromagnetic resonance, and spin torque ferromagnetic resonance: A comparison of methods. Applied Physics Letters, 2021, 119, . | 1.5 | 2 |

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| 37 | Vortexâ€Oriented Ferroelectric Domains in SnTe/PbTe Monolayer Lateral Heterostructures. Advanced Materials, 2021, 33, e2102267. | 11.1 | 11 |
| 38 | Ionitronic manipulation of current-induced domain wall motion in synthetic antiferromagnets. Nature Communications, 2021, 12, 5002. | 5.8 | 18 |
| 39 | Long-range supercurrents through a chiral non-collinear antiferromagnet in lateral Josephson junctions. Nature Materials, 2021, 20, 1358-1363. | 13.3 | 25 |
| 40 | Molecular Dopantâ€Dependent Charge Transport in Surfaceâ€Chargeâ€Transferâ€Doped Tungsten Diselenide Field Effect Transistors. Advanced Materials, 2021, 33, e2101598. | 11.1 | 20 |
| 41 | Role of Two-Dimensional Ising Superconductivity in the Nonequilibrium Quasiparticle Spin-to-Charge Conversion Efficiency. ACS Nano, 2021, 15, 16819-16827. | 7.3 | 2 |
| 42 | MoS2 on topological insulator Bi2Te3 thin films: Activation of the basal plane for hydrogen reduction. Journal of Energy Chemistry, 2021, 62, 516-522. | 7.1 | 24 |
| 43 | A charge-density-wave topological semimetal. Nature Physics, 2021, 17, 381-387. | 6.5 | 76 |
| 44 | Energy-efficient memcapacitor devices for neuromorphic computing. Nature Electronics, 2021, 4, 748-756. | 13.1 | 66 |
| 45 | Introduction to Molecular Interface Engineering of Transition Metal Dichalcogenide-based Devices. , 2021, , 43-91. | | 0 |
| 46 | Intrinsic 2D-XY ferromagnetism in a van der Waals monolayer. Science, 2021, 374, 616-620. | 6.0 | 116 |
| 47 | Long range and highly tunable interaction between local spins coupled to a superconducting condensate. Nature Communications, 2021, 12, 6722. | 5.8 | 23 |
| 48 | Topological phase transition in a magnetic Weyl semimetal. Physical Review B, 2021, 104, . | 1.1 | 7 |
| 49 | Domain wall dynamics in two-dimensional van der Waals ferromagnets. Applied Physics Reviews, 2021, 8, . | 5.5 | 16 |
| 50 | Observation of Robust NÃ©el Skyrmions in Metallic PtMnGa. Advanced Materials, 2020, 32, e1904327. | 11.1 | 33 |
| 51 | 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. | 4.5 | 51 |
| 52 | 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. | 4.5 | 27 |
| 53 | A New Highly Anisotropic Rhâ€Based Heusler Compound for Magnetic Recording. Advanced Materials, 2020, 32, 2004331. | 11.1 | 18 |
| 54 | Topological Hall Signatures of Two Chiral Spin Textures Hosted in a Single Tetragonal Inverse Heusler Thin Film. ACS Nano, 2020, 14, 13463-13469. | 7.3 | 19 |

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|---|---|---|---|
| 55 | Plasmonic Skyrmion Lattice Based on the Magnetoelectric Effect. Physical Review Letters, 2020, 125, 227201. | 2.9 | 15 |
| 56 | Giant Transition-State Quasiparticle Spin-Hall Effect in an Exchange-Spin-Split Superconductor Detected by Nonlocal Magnon Spin Transport. ACS Nano, 2020, 14, 15874-15883. | 7.3 | 20 |
| 57 | Handedness-dependent quasiparticle interference in the two enantiomers of the topological chiral semimetal PdGa. Nature Communications, 2020, 11, 3507. | 5.8 | 27 |
| 58 | Giant, unconventional anomalous Hall effect in the metallic frustrated magnet candidate, KV <sub>3</sub> Sb <sub>5</sub>. Science Advances, 2020, 6, eabb6003. | 4.7 | 295 |
| 59 | Efficient Chiral-Domain-Wall Motion Driven by Spin-Orbit Torque in Metastable Platinum Films. Physical Review Applied, 2020, 14, . | 1.5 | 3 |
| 60 | Microscopic Manipulation of Ferroelectric Domains in SnSe Monolayers at Room Temperature. Nano Letters, 2020, 20, 6590-6597. | 4.5 | 136 |
| 61 | ac susceptibility study of magnetic relaxation phenomena in the antiskyrmion-hosting tetragonal Mn-Pt(Pd)-Sn system. Physical Review B, 2020, 102, . | 1.1 | 6 |
| 62 | Evolution and competition between chiral spin textures in nanostripes with D <sub>2d</sub> symmetry. Science Advances, 2020, 6, . | 4.7 | 24 |
| 63 | Tunable Magnetic Antiskyrmion Size and Helical Period from Nanometers to Micrometers in a D<sub>2d</sub> Heusler Compound. Advanced Materials, 2020, 32, e2002043. | 11.1 | 37 |
| 64 | Atomic Layer Deposition of Cobalt Phosphide for Efficient Water Splitting. Angewandte Chemie - International Edition, 2020, 59, 17172-17176. | 7.2 | 47 |
| 65 | Die Atomlagenabscheidung von Cobaltphosphid zum Zwecke einer effizienten Wasserspaltung. Angewandte Chemie, 2020, 132, 17324-17329. | 1.6 | 2 |
| 66 | Ionic Liquid Gate-Induced Modifications of Step Edges at SrCoO<sub>2.5</sub> Surfaces. ACS Nano, 2020, 14, 8562-8569. | 7.3 | 4 |
| 67 | Experimental formation of monolayer group-IV monochalcogenides. Journal of Applied Physics, 2020, 127, . | 1.1 | 29 |
| 68 | Signatures of Sixfold Degenerate Exotic Fermions in a Superconducting Metal PdSb<sub>2</sub>. Advanced Materials, 2020, 32, e1906046. | 11.1 | 36 |
| 69 | Elliptical Bloch skyrmion chiral twins in an antiskyrmion system. Nature Communications, 2020, 11, 1115. | 5.8 | 92 |
| 70 | Anomalous and topological Hall effects in epitaxial thin films of the noncollinear antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mn>3</mml:mn></mml: Physical Review B, 2020, 101, . | 1.1 | 68 |
| 71 | Realization of Epitaxial NbP and TaP Weyl Semimetal Thin Films. ACS Nano, 2020, 14, 4405-4413. | 7.3 | 31 |
| 72 | Emerging materials in neuromorphic computing: Guest editorial. APL Materials, 2020, 8, . | 2.2 | 16 |

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|---|---|---|---|
| 73 | The 2020 skyrmionics roadmap. Journal Physics D: Applied Physics, 2020, 53, 363001. | 1.3 | 245 |
| 74 | Magnetic Racetrack Memory: From Physics to the Cusp of Applications Within a Decade. Proceedings of the IEEE, 2020, 108, 1303-1321. | 16.4 | 72 |
| 75 | Anomalous thickness-dependent electrical conductivity in van der Waals layered transition metal halide, Nb<sub>3</sub>Cl<sub>8</sub>. Journal of Physics Condensed Matter, 2020, 32, 304004. | 0.7 | 15 |
| 76 | Large planar Hall effect in bismuth thin films. Physical Review Research, 2020, 2, . | 1.3 | 17 |
| 77 | Largely Suppressed Magneto-Thermal Conductivity and Enhanced Magneto-Thermoelectric Properties in PtSn <sub>4</sub>. Research, 2020, 2020, 4643507. | 2.8 | 26 |
| 78 | Doping-induced spin Hall ratio enhancement in A15-phase, Ta-doped Î²-W thin films. JPhys Materials, 2020, 3, 044001. | 1.8 | 7 |
| 79 | Magnetic and electrical transport signatures of uncompensated moments in epitaxial thin films of the noncollinear antiferromagnet Mn3Ir. Applied Physics Letters, 2019, 115, 062403. | 1.5 | 12 |
| 80 | Localized Triggering of the Insulator-Metal Transition in VO<sub>2</sub> Using a Single Carbon Nanotube. ACS Nano, 2019, 13, 11070-11077. | 7.3 | 25 |
| 81 | In Situ Modification of a Delafossite-Type PdCoO<sub>2</sub> Bulk Single Crystal for Reversible Hydrogen Sorption and Fast Hydrogen Evolution. ACS Energy Letters, 2019, 4, 2185-2191. | 8.8 | 34 |
| 82 | Surface states in bulk single crystal of topological semimetal Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> toward water oxidation. Science Advances, 2019, 5, eaaw9867. | 4.7 | 118 |
| 83 | Electrical writing, deleting, reading, and moving of magnetic skyrmioniums in a racetrack device. Scientific Reports, 2019, 9, 12119. | 1.6 | 70 |
| 84 | Dirac Nodal Arc Semimetal PtSn<sub>4</sub>: An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. Angewandte Chemie - International Edition, 2019, 58, 13107-13112. | 7.2 | 59 |
| 85 | Dirac Nodal Arc Semimetal PtSn<sub>4</sub>: An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. Angewandte Chemie, 2019, 131, 13241-13246. | 1.6 | 28 |
| 86 | Currentâ€induced Magnetization Switching by the High Spin Hall Conductivity Î±â€W. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900408. | 1.2 | 13 |
| 87 | Nonlinear Magnetization Dynamics Driven by Strong Terahertz Fields. Physical Review Letters, 2019, 123, 197204. | 2.9 | 26 |
| 88 | Magnetic Weyl semimetal phase in a KagomÃ© crystal. Science, 2019, 365, 1282-1285. | 6.0 | 518 |
| 89 | Electric Field Control of Phase Transition and Tunable Resistive Switching in SrFeO<sub>2.5</sub>. ACS Applied Materials & Interfaces, 2019, 11, 6581-6588. | 4.0 | 45 |
| 90 | Effect of interfacial insertion layers on the spinâ€“orbit torque in W(O)âˆ£CoFeB heterostructures. Applied Physics Express, 2019, 12, 033001. | 1.1 | 2 |

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|---|---|---|---|
| 91 | Standing Waves Induced by Valley-Mismatched Domains in Ferroelectric SnTe Monolayers. Physical Review Letters, 2019, 122, 206402. | 2.9 | 27 |
| 92 | Extremely high conductivity observed in the triple point topological metal MoP. Nature Communications, 2019, 10, 2475. | 5.8 | 54 |
| 93 | From an atomic layer to the bulk: Low-temperature atomistic structure and ferroelectric and electronic properties of SnTe films. Physical Review B, 2019, 99, . | 1.1 | 39 |
| 94 | Robust Antiskyrmion Phase in Bulk Tetragonal Mnâ€“Pt(Pd)â€“Sn Heusler System Probed by Magnetic Entropy Change and ACâ€Susceptibility Measurements. Advanced Functional Materials, 2019, 29, 1901776. | 7.8 | 27 |
| 95 | Chiral exchange drag and chirality oscillations in synthetic antiferromagnets. Nature Physics, 2019, 15, 543-548. | 6.5 | 23 |
| 96 | Tetragonal Mn3Sn Heusler films with large perpendicular magnetic anisotropy deposited on metallic MnN underlayers using amorphous substrates. APL Materials, 2019, 7, . | 2.2 | 9 |
| 97 | Lattice strain-enhanced exsolution of nanoparticles in thin films. Nature Communications, 2019, 10, 1471. | 5.8 | 114 |
| 98 | Giant intrinsic spin Hall effect in W <sub>3</sub> Ta and other A15 superconductors. Science Advances, 2019, 5, eaav8575. | 4.7 | 52 |
| 99 | The growth and phase distribution of ultrathin SnTe on graphene. APL Materials, 2019, 7, . | 2.2 | 11 |
| 100 | RTSim: A Cycle-Accurate Simulator for Racetrack Memories. IEEE Computer Architecture Letters, 2019, 18, 43-46. | 1.0 | 27 |
| 101 | Intrinsic stability of magnetic anti-skyrmions in the tetragonal inverse Heusler compound Mn1.4Pt0.9Pd0.1Sn. Nature Communications, 2019, 10, 5305. | 5.8 | 37 |
| 102 | Enhanced Spontaneous Polarization in Ultrathin SnTe Films with Layered Antipolar Structure. Advanced Materials, 2019, 31, e1804428. | 11.1 | 88 |
| 103 | Epitaxial growth, structural characterization, and exchange bias of noncollinear antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi>Ir</mml:mi></mml:mrow></mml:math> thin films. Physical Review Materials, 2019, 3, . | 0.9 | 10 |
| 104 | ShiftsReduce. Transactions on Architecture and Code Optimization, 2019, 16, 1-23. | 1.6 | 28 |
| 105 | Emerging Spintronic Memories. , 2019, , 443-470. | | 0 |
| 106 | Synthetic antiferromagnetic spintronics. Nature Physics, 2018, 14, 217-219. | 6.5 | 280 |
| 107 | Quantum oscillations in the type-II Dirac semi-metal candidate PtSe<sub>2</sub>. New Journal of Physics, 2018, 20, 043008. | 1.2 | 28 |
| 108 | Pressure-induced superconductivity and topological quantum phase transitions in a quasi-one-dimensional topological insulator: Bi4I4. Npj Quantum Materials, 2018, 3, . | 1.8 | 34 |

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| 109 | Symmetry demanded topological nodal-line materials. Advances in Physics: X, 2018, 3, 1414631. | 1.5 | 146 |
| 110 | Highly Asymmetric Chiral Domain-Wall Velocities in Y-Shaped Junctions. Nano Letters, 2018, 18, 1826-1830. | 4.5 | 21 |
| 111 | Chiral domain wall motion in unit-cell thick perpendicularly magnetized Heusler films prepared by chemical templating. Nature Communications, 2018, 9, 4653. | 5.8 | 35 |
| 112 | The Role of Ionic Liquid Breakdown in the Electrochemical Metallization of VO<sub>2</sub>: An NMR Study of Gating Mechanisms and VO<sub>2</sub> Reduction. Journal of the American Chemical Society, 2018, 140, 16685-16696. | 6.6 | 32 |
| 113 | Exchange coupling torque in ferrimagnetic Co/Gd bilayer maximized near angular momentum compensation temperature. Nature Communications, 2018, 9, 4984. | 5.8 | 78 |
| 114 | Directly photoexcited Dirac and Weyl fermions in ZrSiS and NbAs. Applied Physics Letters, 2018, 113, . | 1.5 | 13 |
| 115 | Thermopower and Unconventional Nernst Effect in the Predicted Type-II Weyl Semimetal WTe<sub>2</sub>. Nano Letters, 2018, 18, 6591-6596. | 4.5 | 33 |
| 116 | Reply to â€œComment on â€˜Instability of the topological surface state in Bi2Se3 upon deposition of gold'â€‰â€¦ Physical Review B, 2018, 98, . | 1.1 | 1 |
| 117 | Synthesis and Morphology of Semifluorinated Polymeric Ionic Liquids. Macromolecules, 2018, 51, 8620-8628. | 2.2 | 13 |
| 118 | Higher-order topological insulators. Science Advances, 2018, 4, eaat0346. | 4.7 | 1,066 |
| 119 | Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. Physical Review B, 2018, 98, . | 1.1 | 49 |
| 120 | Carbonâ€Tailored Semimetal MoP as an Efficient Hydrogen Evolution Electrocatalyst in Both Alkaline and Acid Media. Advanced Energy Materials, 2018, 8, 1801258. | 10.2 | 111 |
| 121 | Gating effects of conductive polymeric ionic liquids. Journal of Materials Chemistry C, 2018, 6, 8242-8250. | 2.7 | 13 |
| 122 | Separation of enantiomers by their enantiospecific interaction with achiral magnetic substrates. Science, 2018, 360, 1331-1334. | 6.0 | 283 |
| 123 | Anomalous Hall effect in Weyl semimetal half-Heusler compounds RPtBi (R = Gd and Nd). Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9140-9144. | 3.3 | 126 |
| 124 | Direct imaging of structural changes induced by ionic liquid gating leading to engineered three-dimensional meso-structures. Nature Communications, 2018, 9, 3055. | 5.8 | 52 |
| 125 | Role of Micromagnetic States on Spinâ€“Orbit Torque-Switching Schemes. Nano Letters, 2018, 18, 4074-4080. | 4.5 | 4 |
| 126 | Adaptive modulation in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mrow><mml:mn>1.4</mml:mn></mml:mrow></mml:msub><mml:mi | 1.1 | 18 |

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|---|---|---|---|
| 127 | Noncollinear antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Mn</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mtext>Sn</mml:mtext></mml:math> films. Physical Review Materials, 2018, 2, . | 0.9 | 58 |
| 128 | Multiple Dirac cones at the surface of the topological metal LaBi. Nature Communications, 2017, 8, 13942. | 5.8 | 135 |
| 129 | Signature of type-II Weyl semimetal phase in MoTe2. Nature Communications, 2017, 8, 13973. | 5.8 | 358 |
| 130 | Reversible Formation of 2D Electron Gas at the LaFeO<sub>3</sub>/SrTiO<sub>3</sub> Interface via Control of Oxygen Vacancies. Advanced Materials, 2017, 29, 1604447. | 11.1 | 41 |
| 131 | 2D Electron Gas: Reversible Formation of 2D Electron Gas at the LaFeO<sub>3</sub>/SrTiO<sub>3</sub> Interface via Control of Oxygen Vacancies (Adv. Mater. 10/2017). Advanced Materials, 2017, 29, . | 11.1 | 0 |
| 132 | Investigation of non-reciprocal magnon propagation using lock-in thermography. Journal Physics D: Applied Physics, 2017, 50, 134001. | 1.3 | 4 |
| 133 | Phase-resolved detection of the spin Hall angle by optical ferromagnetic resonance in perpendicularly magnetized thin films. Physical Review B, 2017, 95, . | 1.1 | 13 |
| 134 | Dramatic influence of curvature of nanowire on chiral domain wall velocity. Science Advances, 2017, 3, e1602804. | 4.7 | 42 |
| 135 | Influence of nanoscale orderâ€“disorder transitions on the magnetic properties of Heusler compounds for spintronics. Journal of Materials Chemistry C, 2017, 5, 4388-4392. | 2.7 | 10 |
| 136 | Bias dependence of spin transfer torque in Co2MnSi Heusler alloy based magnetic tunnel junctions. Applied Physics Letters, 2017, 110, . | 1.5 | 15 |
| 137 | Novel domain wall dynamics in synthetic antiferromagnets. Journal of Physics Condensed Matter, 2017, 29, 303001. | 0.7 | 27 |
| 138 | Unified explanation of chemical ordering, the Slater-Pauling rule, and half-metallicity in full Heusler compounds. Physical Review B, 2017, 95, . | 1.1 | 49 |
| 139 | Manipulating charge ordering in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">F</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> by field cooling. Physical Review B, 2017, 95, . | 1.1 | 4 |
| 140 | Origin of the Tetragonal Ground State of Heusler Compounds. Physical Review Applied, 2017, 7, . | 1.5 | 134 |
| 141 | Evidence for Ionic Liquid Gate-Induced Metallization of Vanadium Dioxide Bars over Micron Length Scales. Nano Letters, 2017, 17, 2796-2801. | 4.5 | 11 |
| 142 | Topological Weyl semimetals in the chiral antiferromagnetic materials Mn<sub>3</sub>Ge and Mn<sub>3</sub>Sn. New Journal of Physics, 2017, 19, 015008. | 1.2 | 277 |
| 143 | Weyl Semimetals as Hydrogen Evolution Catalysts. Advanced Materials, 2017, 29, 1606202. | 11.1 | 169 |
| 144 | Prediction of Triple Point Fermions in Simple Half-Heusler Topological Insulators. Physical Review Letters, 2017, 119, 136401. | 2.9 | 75 |

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|---|---|---|---|
| 145 | Atomic structure governed diversity of exchange-driven spin helices in Fe nanoislands: Experiment and theory. Physical Review B, 2017, 96, . | 1.1 | 2 |
| 146 | Magnetic antiskyrmions above room temperature in tetragonal Heusler materials. Nature, 2017, 548, 561-566. | 13.7 | 513 |
| 147 | Geometric and electronic structure of the Cs-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>21</mml:mn></mml:msub></mml:mrow></mml:math> (0001) surface. Physical Review B, 2017, 95, . | 1.1 | 8 |
| 148 | Photochemical Water Splitting by Bismuth Chalcogenide Topological Insulators. ChemPhysChem, 2017, 18, 2322-2327. | 1.0 | 54 |
| 149 | Similar ultrafast dynamics of several dissimilar Dirac and Weyl semimetals. Journal of Applied Physics, 2017, 122, . | 1.1 | 33 |
| 150 | Influence of Magnetic Anisotropy on Inverse Spin Hall Voltage. Spin, 2017, 07, 1750007. | 0.6 | 1 |
| 151 | Heusler 4.0: Tunable Materials. Annual Review of Materials Research, 2017, 47, 247-270. | 4.3 | 132 |
| 152 | Instability of the topological surface state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>21</mml:mn></mml:msub></mml:mrow></mml:math> upon deposition of gold. Physical Review B, 2017, 95, . | 1.1 | 12 |
| 153 | Ensemble-averaged Rabi oscillations in a ferromagnetic CoFeB film. Nature Communications, 2017, 8, 16004. | 5.8 | 17 |
| 154 | Heusler compounds with perpendicular magnetic anisotropy and large tunneling magnetoresistance. Physical Review Materials, 2017, 1, . | 0.9 | 46 |
| 155 | Structural, electronic, and magnetic investigation of magnetic ordering in MBE-grown Cr x Sb 2â˜'x Te 3 thin films. Europhysics Letters, 2016, 115, 27006. | 0.7 | 24 |
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