

Jason Robinson

List of Publications by Year in descending order

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84
papers

3,668
citations

186265

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128289

60
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all docs

85
docs citations

85
times ranked

2849
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Measurement of Josephson Critical Currents in Ferromagnetic $\text{Co}/\text{Fe}/\text{Co}$ Junctions. Physical Review Letters, 2021, 126, . | 3.8 | 1 |
| 2 | Challenges in identifying chiral spin textures via the topological Hall effect. Communications Materials, 2022, 3, . | 6.9 | 32 |
| 3 | Parametric Amplifiers Based on Quantum Dots. Physical Review Letters, 2022, 128, . | 7.8 | 7 |
| 4 | Growth, strain, and spin-orbit torques in epitaxial Ni-Mn-Sb films sputtered on GaAs. Physical Review Materials, 2021, 5, . | 2.4 | 3 |
| 5 | Spin-orbit coupling suppression and singlet-state blocking of spin-triplet Cooper pairs. Science Advances, 2021, 7, . | 10.3 | 14 |
| 6 | Nanoscale Domain Wall Engineered Spin-Triplet Josephson Junctions and SQUID. Nano Letters, 2021, 21, 3092-3097. | 9.1 | 13 |
| 7 | Large Dispersive Interaction between a CMOS Double Quantum Dot and Microwave Photons. PRX Quantum, 2021, 2, . | 9.2 | 25 |
| 8 | Superconducting Sr_2RuO_4 Thin Films without Out-of-Phase Boundaries by Higher-Order Ruddlesden-Popper Intergrowth. Nano Letters, 2021, 21, 4185-4192. | 9.1 | 13 |
| 9 | Boosting spintronics with superconductivity. APL Materials, 2021, 9, . | 5.1 | 23 |
| 10 | Pure Spin Currents Driven by Colossal Spin-Orbit Coupling on Two-Dimensional Surface Conducting SrTiO_3 . Nano Letters, 2021, 21, 6511-6517. | 9.1 | 5 |
| 11 | Temperature dependence of the picosecond spin Seebeck effect. Applied Physics Letters, 2021, 119, . | 3.3 | 11 |
| 12 | Superconductivity in $\text{Ti}_{67}\text{Zr}_{19}\text{Nb}_{11.5}\text{Sn}_{2.5}$ shape memory alloy. Physical Review Materials, 2021, 5, . | 2.4 | 0 |
| 13 | A Review of Electronic Transport in Superconducting Sr_2RuO_4 Junctions. Coatings, 2021, 11, 1110. | 2.6 | 2 |
| 14 | Tunable critical field in Rashba superconductor thin films. Physical Review B, 2021, 103, . | 3.2 | 5 |
| 15 | Unveiling unconventional magnetism at the surface of Sr_2RuO_4 . Nature Communications, 2021, 12, 5792. | 12.8 | 11 |
| 16 | Role of disorder in the superconducting proximity effect in a/NdNiO_2 bilayers. Physical Review B, 2021, 104, . | 3.2 | 0 |
| 17 | Controllable Enhancement of p -Wave Superconductivity via Magnetic Coupling to a Conventional Superconductor. Physical Review Letters, 2021, 127, 267001. | 7.8 | 3 |
| 18 | Tunable Pure Spin Supercurrents and the Demonstration of Their Gateability in a Spin-Wave Device. Physical Review X, 2020, 10, . | 8.9 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Magnetotransport and magnetic properties of amorphous NdNi_5 thin films. Scientific Reports, 2020, 10, 13693. | 3.3 | 9 |
| 20 | Topological valley currents via ballistic edge modes in graphene superlattices near the primary Dirac point. Communications Physics, 2020, 3, . | 5.3 | 11 |
| 21 | Spin Quintet in a Silicon Double Quantum Dot: Spin Blockade and Relaxation. Physical Review X, 2020, 10, . | 8.9 | 15 |
| 22 | Pair suppression caused by mosaic-twist defects in superconducting Sr ₂ RuO ₄ thin-films prepared using pulsed laser deposition. Communications Materials, 2020, 1, . | 6.9 | 6 |
| 23 | Transition between canted antiferromagnetic and spin-polarized ferromagnetic quantum Hall states in graphene on a ferrimagnetic insulator. Physical Review B, 2020, 101, . | 3.2 | 8 |
| 24 | Magnetic field tunable superconducting transition in Nb/Co/Py/Nb exchange spring multilayers. Applied Physics Letters, 2020, 116, 112601. | 3.3 | 2 |
| 25 | Spin-transport in superconductors. Applied Physics Letters, 2020, 116, . | 3.3 | 23 |
| 26 | Fast Gate-Based Readout of Silicon Quantum Dots Using Josephson Parametric Amplification. Physical Review Letters, 2020, 124, 067701. | 7.8 | 42 |
| 27 | Two-channel anomalous Hall effect in SrRuO_3 tunnel junctions. Physical Review Materials, 2020, 4, . | 3.2 | 3 |
| 28 | Universal proximity effects in hybrid superconductor–linker molecule–nanoparticle systems: The effect of molecular chirality. Applied Physics Letters, 2020, 117, . | 3.3 | 4 |
| 29 | Terahertz Time-Domain Spectroscopy. , 2020, 1, 1-4. | | 1 |
| 30 | Long-range triplet proximity effect in multiply connected ferromagnet-superconductor hybrids. Physical Review B, 2019, 100, . | 3.2 | 9 |
| 31 | Observation of superconducting gap spectra of long-range proximity effect in $\text{Au}/\text{SrRuO}_3/\text{SrRuO}_4$ tunnel junctions. Physical Review B, 2019, 100, . | 3.2 | 3 |
| 32 | Niobium diselenide superconducting photodetectors. Applied Physics Letters, 2019, 114, . | 3.3 | 28 |
| 33 | Anomalous anisotropic behaviour of spin-triplet proximity effect in $\text{Au}/\text{SrRuO}_3/\text{SrRuO}_4$ junctions. Scientific Reports, 2019, 9, 15827. | 3.3 | 2 |
| 34 | Nodal superconducting exchange coupling. Nature Materials, 2019, 18, 1194-1200. | 27.5 | 17 |
| 35 | Controlling spin supercurrents via nonequilibrium spin injection. Scientific Reports, 2019, 9, 12731. | 3.3 | 7 |
| 36 | Effect of Meissner Screening and Trapped Magnetic Flux on Magnetization Dynamics in Thick $\text{Nb}/\text{Ni}_{80}\text{Zr}_{20}$ Trilayers. Physical Review Applied, 2019, 11, . | 3.8 | 44 |

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|----|--|------|-----------|
| 37 | Low-impedance superconducting microwave resonators for strong coupling to small magnetic mode volumes. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 32 |
| 38 | Chirality-controlled spontaneous currents in spin-orbit coupled superconducting rings. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 14 |
| 39 | 3D strain-induced superconductivity in La ₂ CuO ₄ using a simple vertically aligned nanocomposite approach. <i>Science Advances</i> , 2019, 5, eaav5532. | 10.3 | 31 |
| 40 | Abrikosov vortex nucleation and its detrimental effect on superconducting spin pumping in $Pt/Nb/Ni$ | 3.2 | 25 |
| 41 | Fraunhofer patterns in magnetic Josephson junctions with non-uniform magnetic susceptibility. <i>Scientific Reports</i> , 2019, 9, 5616. | 3.3 | 12 |
| 42 | Superconducting vortices generated via spin-orbit coupling at superconductor/ferromagnet interfaces. <i>Physical Review B</i> , 2019, 100, . | 3.2 | 9 |
| 43 | Exchange-field enhancement of superconducting spin pumping. <i>Physical Review B</i> , 2019, 99, . | 3.2 | 31 |
| 44 | Spin transport parameters of NbN thin films characterized by spin pumping experiments. <i>Physical Review Materials</i> , 2019, 3, . | 2.4 | 30 |
| 45 | Enhanced spin pumping into superconductors provides evidence for superconducting pure spin currents. <i>Nature Materials</i> , 2018, 17, 499-503. | 27.5 | 107 |
| 46 | Synthetic Antiferromagnetic Coupling Between Ultrathin Insulating Garnets. <i>Physical Review Applied</i> , 2018, 10, . | 3.8 | 34 |
| 47 | Highly Bi-doped Cu thin films with large spin-mixing conductance. <i>APL Materials</i> , 2018, 6, . | 5.1 | 5 |
| 48 | Spin-Pumping-Induced Inverse Spin Hall Effect in $Nb/Ni_{80}Fe_{20}$ Bilayers and its Strong Decay Across the Superconducting Transition Temperature. <i>Physical Review Applied</i> , 2018, 10, . | 3.8 | 38 |
| 49 | Radio-Frequency Capacitive Gate-Based Sensing. <i>Physical Review Applied</i> , 2018, 10, . | 3.8 | 50 |
| 50 | Magnetic Exchange Fields and Domain Wall Superconductivity at an All-Oxide Superconductor-Ferromagnet Insulator Interface. <i>Physical Review Letters</i> , 2018, 121, 077003. | 7.8 | 11 |
| 51 | p-wave triggered superconductivity in single-layer graphene on an electron-doped oxide superconductor. <i>Nature Communications</i> , 2017, 8, 14024. | 12.8 | 79 |
| 52 | Andreev bound states in superconductor/ferromagnet point contact Andreev reflection spectra. <i>Physical Review B</i> , 2017, 95, . | 3.2 | 5 |
| 53 | Tm ₃ Fe ₅ O ₁₂ /Pt Heterostructures with Perpendicular Magnetic Anisotropy for Spintronic Applications. <i>Advanced Electronic Materials</i> , 2017, 3, 1600376. | 5.1 | 112 |
| 54 | Photonic Sorting of Aligned, Crystalline Carbon Nanotube Textiles. <i>Scientific Reports</i> , 2017, 7, 12977. | 3.3 | 13 |

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|----|---|------|-----------|
| 55 | Out of plane superconducting Nb/Cu/Ni/Cu/Co triplet spin-valves. Applied Physics Letters, 2017, 111, . | 3.3 | 17 |
| 56 | Structural properties of thin-film ferromagnetic topological insulators. Scientific Reports, 2017, 7, 12061. | 3.3 | 7 |
| 57 | Electric control of superconducting transition through a spin-orbit coupled interface. Scientific Reports, 2016, 6, 29312. | 3.3 | 18 |
| 58 | Enhanced localized superconductivity in Sr ₂ RuO ₄ thin film by pulsed laser deposition. Superconductor Science and Technology, 2016, 29, 095005. | 3.5 | 19 |
| 59 | Magnetic coupling at rare earth ferromagnet/transition metal ferromagnet interfaces: A comprehensive study of Gd/Ni. Scientific Reports, 2016, 6, 30092. | 3.3 | 24 |
| 60 | Inverse proximity effect at superconductor-ferromagnet interfaces: Evidence for induced triplet pairing in the superconductor. Physical Review B, 2015, 92, . | 3.2 | 54 |
| 61 | Large Superconducting Spin Valve Effect and Ultrasmall Exchange Splitting in Epitaxial Rare-Earth-Niobium Trilayers. Physical Review Letters, 2015, 115, 067201. | 7.8 | 42 |
| 62 | Strong odd-frequency correlations in fully gapped Zeeman-split superconductors. Scientific Reports, 2015, 5, 15483. | 3.3 | 21 |
| 63 | Superconducting spintronics. Nature Physics, 2015, 11, 307-315. | 16.7 | 826 |
| 64 | Signature of magnetic-dependent gapless odd frequency states at superconductor/ferromagnet interfaces. Nature Communications, 2015, 6, 8053. | 12.8 | 113 |
| 65 | Magnetic state controllable critical temperature in epitaxial Ho/Nb bilayers. APL Materials, 2014, 2, . | 5.1 | 21 |
| 66 | Triplet pair correlations and nonmonotonic supercurrent decay with Cr thickness in Nb/Cr/Fe/Nb Josephson devices. Physical Review B, 2014, 89, . | 3.2 | 22 |
| 67 | Pure second harmonic current-phase relation in spin-filter Josephson junctions. Nature Communications, 2014, 5, 3340. | 12.8 | 60 |
| 68 | Evidence for spin selectivity of triplet pairs in superconducting spin valves. Nature Communications, 2014, 5, 3048. | 12.8 | 74 |
| 69 | Reversible control of spin-polarized supercurrents in ferromagnetic Josephson junctions. Nature Communications, 2014, 5, 4771. | 12.8 | 73 |
| 70 | The interface between superconductivity and magnetism: understanding and device prospects. Journal of Physics Condensed Matter, 2014, 26, 453201. | 1.8 | 101 |
| 71 | Giant triplet proximity effect in superconducting pseudo spin valves with engineered anisotropy. Physical Review B, 2014, 89, . | 3.2 | 84 |
| 72 | Magnetic field dependence of the proximity-induced triplet superconductivity at ferromagnet/superconductor interfaces. Physical Review B, 2014, 89, . | 3.2 | 36 |

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|----|---|------|-----------|
| 73 | Field modulation of the critical current in magnetic Josephson junctions. Superconductor Science and Technology, 2013, 26, 055017. | 3.5 | 16 |
| 74 | Strain, spin disorder, and thickness dependence of magneto-transport in $\text{Sm}_{0.55}\text{Sr}_{0.45}\text{MnO}_3$ films. Applied Physics Letters, 2012, 100, 252408. for anisotropic triplet superconductor order parameter in half-metallic ferromagnetic | 3.3 | 11 |
| 75 | $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ Band-structure-dependent nonlinear giant magnetoresistance in NiMn_2S_4 | 3.2 | 54 |
| 76 | $\text{Fe}_{1-x}\text{Co}_x$ dual spin valves. Physical Review B, 2012, 86, . | 3.2 | 6 |
| 77 | Supercurrent enhancement in Bloch domain walls. Scientific Reports, 2012, 2, 699. | 3.3 | 46 |
| 78 | Magnetic-coupling-dependent spin-triplet supercurrents in helimagnet/ferromagnet Josephson junctions. Physical Review B, 2011, 84, . | 3.2 | 41 |
| 79 | Controlled Injection of Spin-Triplet Supercurrents into a Strong Ferromagnet. Science, 2010, 329, 59-61. | 12.6 | 457 |
| 80 | Thickness dependence and the role of spin transfer torque in nonlinear giant magnetoresistance of permalloy dual spin valves. Physical Review B, 2010, 82, . | 3.2 | 6 |
| 81 | Estimating the spin diffusion length of semiconducting Indium Tin Oxide using Co/Indium Tin Oxide/Co spin valve junctions. Applied Physics Letters, 2010, 96, . | 3.3 | 7 |
| 82 | Crossover Induced by Spin-Density-Wave Interference in the Coherence of Singlet Electron Pairs in Cr. Physical Review Letters, 2009, 103, 207002. | 7.8 | 4 |
| 83 | Zero to I^2 transition in superconductor-ferromagnet-superconductor junctions. Physical Review B, 2007, 76, . | 3.2 | 99 |
| 84 | Critical Current Oscillations in Strong Ferromagnetic I^2 Junctions. Physical Review Letters, 2006, 97, 177003. | 7.8 | 201 |