

D Mck Paul

List of Publications by Year in descending order

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113
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4,749
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2973
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| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Direct observation of magnetic flux lattice melting and decomposition in the high-Tc superconductor Bi ₂ 1.5Sr _{1.95} CuCu ₂ O _{8+x} . Nature, 1993, 365, 407-411. | 27.8 | 458 |
| 2 | Er ₂ Ti ₂ O ₇ : Evidence of quantum order by disorder in a frustrated antiferromagnet. Physical Review B, 2003, 68, . | 3.2 | 208 |
| 3 | Surface and bulk electronic structure of the strongly correlated system SmB ₆ and implications for a topological Kondo insulator. Physical Review B, 2013, 88, . | 3.2 | 179 |
| 4 | Observation of a square flux-line lattice in the unconventional superconductor Sr ₂ RuO ₄ . Nature, 1998, 396, 242-245. | 27.8 | 173 |
| 5 | Temperature and time dependence of the field-driven magnetization steps in Ca ₃ Co ₂ O ₆ single crystals. Physical Review B, 2004, 70, . | 3.2 | 161 |
| 6 | Field-induced magnetization steps in intermetallic compounds and manganese oxides: The martensitic scenario. Physical Review B, 2004, 69, . | 3.2 | 157 |
| 7 | Anomalous Structural Behavior of the Superconducting Compound La _{1.85} Ba _{0.15} CuO ₄ . Physical Review Letters, 1987, 58, 1976-1978. | 7.8 | 151 |
| 8 | Detection of Time-Reversal Symmetry Breaking in the Noncentrosymmetric Superconductor Re ₆ by Muon-Spin Spectroscopy. Physical Review Letters, 2014, 112, 107002. | 7.8 | 142 |
| 9 | Magnetic ordering in the high-temperature superconductor GdBa ₂ Cu ₃ O ₇ . Physical Review B, 1988, 37, 2341-2344. | 3.2 | 141 |
| 10 | Neutron-Scattering Measurement of the Spin-Wave Spectra for Nickel. Physical Review Letters, 1985, 54, 227-229. | 7.8 | 114 |
| 11 | Nonlocal Effects and Vortex Lattice Transitions in YNi ₂ B ₂ C. Physical Review Letters, 1998, 80, 1517-1520. | 7.8 | 112 |
| 12 | Unconventional Superconductivity in La ₇ by Muon Spin Relaxation: Introducing a New Family of Noncentrosymmetric Superconductor That Breaks Time-Reversal Symmetry. Physical Review Letters, 2015, 115, 267001. | 7.8 | 100 |
| 13 | Specific heat of Pr _{0.6} (Ca _{1-x} Sr _x) _{0.4} MnO ₃ (0 < x < 1). Physical Review B, 1999, 59, 1298-1303. | 3.2 | 94 |
| 14 | Investigation of the Low-Temperature Spin-Liquid Behavior of the Frustrated Magnet Gadolinium Gallium Garnet. Physical Review Letters, 1998, 80, 4570-4573. | 7.8 | 93 |
| 15 | Reentrant Peak Effect and Melting of a Flux Line Lattice in 2H-NbSe ₂ . Physical Review Letters, 1996, 76, 4600-4603. | 7.8 | 88 |
| 16 | Neutron Scattering Study of the Flux Lattice in YNi ₂ B ₂ C. Physical Review Letters, 1997, 78, 4849-4852. | 7.8 | 84 |
| 17 | High-magnetic-field behavior of the triangular-lattice antiferromagnet CuFeO ₂ . Physical Review B, 2000, 62, 8983-8988. | 3.2 | 71 |
| 18 | Disorder, metastability, and history dependence in transformations of a vortex lattice. Physical Review B, 1999, 59, 6043-6046. | 3.2 | 69 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Magnetic excitations in Ni ₃ Al at low energies and long wavelengths. Physical Review B, 1983, 28, 422-424. | 3.2 | 68 |
| 20 | Time-Reversal Symmetry Breaking in Re-Based Superconductors. Physical Review Letters, 2018, 121, 257002. | 7.8 | 67 |
| 21 | Reconstruction from Small-Angle Neutron Scattering Measurements of the Real Space Magnetic Field Distribution in the Mixed State of Sr ₂ RuO ₄ . Physical Review Letters, 2000, 84, 6094-6097. | 7.8 | 65 |
| 22 | Time-reversal symmetry breaking in the noncentrosymmetric superconductor ReRe_6W_3 : Further evidence for unconventional behavior in the Re_6W_3 -Mn family of materials. Physical Review B, 2017, 96, . | 3.2 | 62 |
| 23 | Insulator-metal transitions in Pr _{0.7} Ca _{0.3} MnO ₃ induced by a magnetic field. Applied Physics Letters, 1996, 68, 424-426. | 3.3 | 58 |
| 24 | Observation of the Neel state in doped CuGeO ₃ . Journal of Physics Condensed Matter, 1995, 7, L325-L330. | 1.8 | 56 |
| 25 | Superconducting and normal-state properties of the noncentrosymmetric superconductor ReRe_6W_3 . Physical Review B, 2018, 98, . | 3.2 | 54 |
| 26 | Time-reversal symmetry breaking in the noncentrosymmetric superconductor ReRe_6Ti_3 . Physical Review B, 2018, 97, . | 3.2 | 50 |
| 27 | Flux-Line Lattice Structures in Untwinned YBa ₂ Cu ₃ O _{7-δ} . Physical Review Letters, 1999, 82, 2792-2795. | 7.8 | 49 |
| 28 | Flux Lattice Symmetry in V ₃ Si: Nonlocal Effects in a High-T _c Superconductor. Physical Review Letters, 1999, 82, 5112-5115. | 7.8 | 48 |
| 29 | Peak effect, plateau effect, and fishtail anomaly: The reentrant amorphization of vortex matter in 2H-NbSe ₂ . Physical Review B, 2000, 62, 11838-11845. | 3.2 | 48 |
| 30 | Magnetic ordering in GdBa ₂ Cu ₃ O _{6.14} . Physical Review B, 1988, 38, 12008-12010. | 3.2 | 45 |
| 31 | Role of electronic correlations on the phonon modes of MnO and NiO. Physical Review B, 2003, 68, . | 3.2 | 42 |
| 32 | Structure and superconductivity of two different phases of ReRe_6W_3 . Physical Review B, 2011, 84, . | 3.2 | 42 |
| 33 | Large, high quality single-crystals of the new Topological Kondo Insulator, SmB ₆ . Scientific Reports, 2013, 3, 3071. | 3.3 | 42 |
| 34 | Superconducting and normal-state properties of the noncentrosymmetric superconductor ReRe_6W_3 . Physical Review B, 2017, 96, . | 3.2 | 40 |
| 35 | Synchrotron x-ray-scattering study of magnetic-field-induced transitions in Cu _{1-x} (Zn, Ni) _x GeO ₃ . Physical Review B, 1996, 54, 7269-7278. | 3.2 | 39 |
| 36 | Comparative study of the centrosymmetric and noncentrosymmetric superconducting phases of ReRe_6W_3 using muon spin spectroscopy and heat capacity measurements. Physical Review B, 2012, 85, . | 3.2 | 39 |

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|----|---|-----|-----------|
| 37 | Electron spin resonance in the doped spin-Peierls compound. Journal of Physics Condensed Matter, 1998, 10, 7879-7896. | 1.8 | 36 |
| 38 | Interaction between Magnetic Order and the Vortex Lattice in HoNi ₂ B ₂ C. Physical Review Letters, 1999, 82, 827-830. | 7.8 | 36 |
| 39 | Dispersive Magnetic Density Fluctuations in Ni ₃ Ga. Physical Review Letters, 1989, 62, 657-660. | 7.8 | 35 |
| 40 | Vortex-lattice transitions in YNi ₂ B ₂ C: Nature of the 45-degree reorientation. Physical Review B, 2002, 66, . | 3.2 | 35 |
| 41 | Observation of the peak effect in the superconductor Ca ₃ Rh ₄ Sn ₁₃ . Physical Review B, 1997, 56, 8346-8350. | 3.2 | 33 |
| 42 | Observation of Electron-Phonon Interaction with Soft Phonons in Superconducting RNi ₂ B ₂ C. Physical Review Letters, 1997, 78, 935-938. | 7.8 | 33 |
| 43 | Magnetic excitations in ZrZn ₂ at low energies and long wavelengths. Physica Scripta, 1988, 38, 191-193. | 2.5 | 32 |
| 44 | Generic phase diagram for vortex matter via a study of peak effect phenomenon in crystals of 2H-NbSe ₂ . Physica C: Superconductivity and Its Applications, 1998, 308, 25-32. | 1.2 | 32 |
| 45 | Growth, transport, and magnetic properties of Pr _{0.67} Ca _{0.33} MnO ₃ thin films. Applied Physics Letters, 1996, 69, 263-265. | 3.3 | 30 |
| 46 | Single-crystal neutron-diffraction study of a structural phase transition induced by a magnetic field in La _{1-x} Sr _x MnO ₃ . Physical Review B, 1997, 55, R8622-R8625. | 3.2 | 30 |
| 47 | Classical Heisenberg antiferromagnet on a garnet lattice: A Monte Carlo simulation. Physical Review B, 2000, 63, . | 3.2 | 30 |
| 48 | Neutron-powder-diffraction study of the magnetic and structural properties of Pr _{0.6} (Ca _{1-x} Sr _x) _{0.4} MnO ₃ (0 < x < 1). Physical Review B, 1998, 58, 8694-8703. | 3.2 | 29 |
| 49 | Fourfold Basal Plane Anisotropy of the Nonlocal Magnetization of YNi ₂ B ₂ C. Physical Review Letters, 1999, 83, 3920-3923. | 7.8 | 29 |
| 50 | Oxygen moment formation and canting in Li ₂ CuO ₂ . Physical Review B, 2003, 68, . | 3.2 | 29 |
| 51 | Low-temperature spin-wave excitations in nickel, by neutron triple-axis spectroscopy. Physical Review B, 1985, 32, 3272-3278. | 3.2 | 28 |
| 52 | Magnetic ordering in the high-temperature superconductor ErBa ₂ Cu ₃ O _{7-δ} . Physical Review B, 1989, 39, 4291-4294. | 3.2 | 28 |
| 53 | Nonlocal current-field relation and the vortex-state magnetic properties of YNi ₂ B ₂ C. Physical Review B, 1999, 59, R6620-R6623. | 3.2 | 27 |
| 54 | Low-temperature magnetic fluctuations in the Kondo insulator SmB_6 . Physical Review B, 2014, 89, . | 3.2 | 27 |

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| 73 | Multigap superconductivity in chiral noncentrosymmetric TaRh_2B . Physical Review B, 2018, 98, . | 3.2 | 16 |
| 74 | Square flux lines in $\text{YNi}_2\text{B}_2\text{C}$. Physical Review B, 1998, 58, R14767-R14770. | 3.2 | 15 |
| 75 | Transverse-field components of the flux-line lattice in the anisotropic superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Physical Review B, 2001, 64, . | 3.2 | 15 |
| 76 | Field-induced transitions in the highly frustrated magnet gadolinium gallium garnet - long- or short-range order?. Applied Physics A: Materials Science and Processing, 2002, 74, s760-s762. | 2.3 | 15 |
| 77 | Suppression of magnetic excitations near the surface of the topological Kondo insulator Sb_2Te_3 . Physical Review B, 2017, 95, . | 3.2 | 15 |
| 78 | Heat capacity and magnetic properties of a EuVO_3 single crystal. Physical Review B, 2007, 76, . | 3.2 | 13 |
| 79 | Vortex pinning by magnetic order in $\text{ErNi}_2\text{B}_2\text{C}$. Physical Review B, 2000, 63, . | 3.2 | 12 |
| 80 | Pressure-Enhanced 3D Antiferromagnetic Correlations in $\text{La}_{1.4}\text{Sr}_{1.6}\text{Mn}_2\text{O}_7$. Physical Review Letters, 2001, 87, 167203. | 7.8 | 12 |
| 81 | Small-angle neutron scattering study of the vortex lattice in superconducting $\text{LuNi}_2\text{B}_2\text{C}$. Physical Review B, 2009, 79, . | 3.2 | 12 |
| 82 | X-ray study of $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ manganite structure above and below the ferromagnetic metal-antiferromagnetic insulator spontaneous phase transition. Low Temperature Physics, 2001, 27, 930-934. | 0.6 | 11 |
| 83 | Small-angle neutron scattering measurements of the vortex lattice in CaC_6 . Physical Review B, 2007, 75, . | 3.2 | 11 |
| 84 | Crossover from paramagnetic compressed flux regime to diamagnetic pinned vortex lattice in a single crystal of cubic CaRh_3Sn_4 . Physical Review B, 2010, 82, . | 3.2 | 11 |
| 85 | The temperature dependence of the spin - Peierls energy gap in CaSn_4 . Journal of Physics Condensed Matter, 1996, 8, L59-L64. | 1.8 | 10 |
| 86 | Influence of nonlocal electrodynamics on the anisotropic vortex pinning in $\text{YNi}_2\text{B}_2\text{C}$. Physical Review B, 2001, 64, . | 3.2 | 10 |
| 87 | Kagome staircase compound Co_3B an applied magnetic field: Single-crystal neutron diffraction study. Physical Review B, 2010, 82, . | 3.2 | 10 |
| 88 | Probing the superconducting ground state of the rare-earth ternary boride superconductors RRu_2B ($\text{R} = \text{Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu}$). Physical Review B, 2009, 79, . | 3.2 | 10 |
| 89 | Elastic Properties of Superconducting Stannides: $\text{Yb}_3\text{Rh}_4\text{Sn}_{13}$ and $\text{Ca}_3\text{Rh}_4\text{Sn}_{13}$. Journal of Low Temperature Physics, 1999, 114, 285-296. | 1.4 | 7 |
| 90 | Equilibrium basal-plane magnetization of superconductive $\text{YNi}_2\text{B}_2\text{C}$: The influence of nonlocal electrodynamics. Physical Review B, 2001, 64, . | 3.2 | 7 |

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| 91 | VORTEX LATTICE TRANSITIONS. Series on Directions in Condensed Matter Physics, 1998, , 127-149. | 0.1 | 7 |
| 92 | Evidence on the nature of superconductivity in La _{1.85} Ba _{0.15} CuO ₄ from specific heat measurements. Journal of Physics F: Metal Physics, 1987, 17, L329-L336. | 1.6 | 6 |
| 93 | Temperature dependence of the high-energy magnetic excitations for ni. Physical Review B, 1988, 38, 12058-12061. | 3.2 | 6 |
| 94 | Point-contact-spectroscopy evidence of quasi-particle interactions in RNi ₂ B ₂ C (R=Ho, Y). Low Temperature Physics, 1997, 23, 712-723. | 0.6 | 6 |
| 95 | Anomalous neutron scattering near the superconducting phase transition. Nature, 1991, 350, 690-692. | 27.8 | 5 |
| 96 | Comparison of thermomagnetic history effects in weakly pinned single crystals of R ₃ Rh ₄ Sn ₁₃ (R=Yb, Y). Tj ETQq0 0 0 ggBT /Overlock 10 T | 1.8 | 5 |
| 97 | Critical points in the Bragg glass phase of a weakly pinned crystal of Ca ₃ Rh ₄ Sn ₁₃ . Pramana - Journal of Physics, 2006, 66, 193-207. | 1.8 | 5 |
| 98 | First-Order Reorientation Transition of the Flux-Line Lattice in CaAlSi. Physical Review Letters, 2012, 108, 077001. | 7.8 | 5 |
| 99 | Visualization of the antiferromagnetic insulatorâ€“ferromagnetic metal phase transition in manganite Nd _{0.5} Sr _{0.5} MnO ₃ . Low Temperature Physics, 1999, 25, 744-746. | 0.6 | 4 |
| 100 | Separation of enhanced and residual pinning mechanisms in single-crystal Bi ₂ Sr ₂ CaCu ₂ O ₈ +Î irradiated with heavy ions. Physical Review B, 2000, 62, 14373-14379. | 3.2 | 4 |
| 101 | Pulverization of the flux line lattice, the phase coexistence and the spinodal temperature of the orderâ€“disorder transition in a weakly pinned crystal of Yb ₃ Rh ₄ Sn ₁₃ . Pramana - Journal of Physics, 2006, 66, 179-192. | 1.8 | 4 |
| 102 | Reentrant peak effect via magnetization studies in NbSe ₂ . European Physical Journal D, 1996, 46, 3105-3106. | 0.4 | 3 |
| 103 | Vortex lattice structures and pairing symmetry in Sr ₂ RuO ₄ . Physica C: Superconductivity and Its Applications, 2000, 341-348, 1643-1646. | 1.2 | 3 |
| 104 | Domain structure of the antiferromagnetic insulating state in Nd _{0.5} Sr _{0.5} MnO ₃ . Low Temperature Physics, 2001, 27, 923-929. | 0.6 | 3 |
| 105 | Paramagnetic magnetization signals and curious metastable behaviour in field-cooled magnetization of a single crystal of superconductor 2H-NbSe ₂ . Journal of Physics Condensed Matter, 2015, 27, 295701. | 1.8 | 2 |
| 106 | Singlet-triplet mixing in the order parameter of the noncentrosymmetric superconductor B_{Ru}^{Z} . Physical Review B, 2022, 105, . | 3.2 | 2 |
| 107 | Growth of nd ₂ â€“xcexcuo ₄ â€“y Singlk Crystals by a Flux Method. Materials Research Society Symposia Proceedings, 1989, 169, 169. | 0.1 | 0 |
| 108 | Point-contact spectroscopy of electron-phonon interaction in superconducting RNi ₂ B ₂ C (R=Y, Ho). European Physical Journal D, 1996, 46, 841-842. | 0.4 | 0 |

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| 109 | High resolution neutron scattering study of low energy magnetic excitations in $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$. Annalen Der Physik, 1996, 508, 197-202. | 2.4 | 0 |
| 110 | Crossover from more to less ordered vortex state on field-cooling a weakly pinned crystal of $\text{Ca}_3\text{Rh}_4\text{Sn}_{13}$. , 2013, , . | | 0 |
| 111 | High Resolution Neutron Diffraction Studies of the Flux- Line Lattice in Borocarbide Superconductors. , 2001, , 323-332. | | 0 |
| 112 | Vortex Pinning and Dynamics in Magnetic and Non- Magnetic (RE)Ni ₂ B ₂ C Superconductors. , 2001, , 347-356. | | 0 |
| 113 | Flux Pinning in (Re)Ni ₂ B ₂ C Superconductors. , 1999, , 265-280. | | 0 |