

Luis Balicas

List of Publications by Year in descending order

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papers

16,031
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22099

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269
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269
docs citations

269
times ranked

17164
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Atomic layers of hybridized boron nitride and graphene domains. Nature Materials, 2010, 9, 430-435. | 13.3 | 2,002 |
| 2 | Superconductivity at 250 K in lanthanum hydride under high pressures. Nature, 2019, 569, 528-531. | 13.7 | 960 |
| 3 | Controlled Synthesis and Transfer of Large-Area WS ₂ Sheets: From Single Layer to Few Layers. ACS Nano, 2013, 7, 5235-5242. | 7.3 | 534 |
| 4 | Electron pockets in the Fermi surface of hole-doped high-Tc superconductors. Nature, 2007, 450, 533-536. | 13.7 | 443 |
| 5 | One-pot growth of two-dimensional lateral heterostructures via sequential edge-epitaxy. Nature, 2018, 553, 63-67. | 13.7 | 394 |
| 6 | New First Order Raman-active Modes in Few Layered Transition Metal Dichalcogenides. Scientific Reports, 2014, 4, 4215. | 1.6 | 367 |
| 7 | Small anisotropy, weak thermal fluctuations, and high field superconductivity in Co-doped iron pnictide Ba(Fe _{1-x} Co _x) ₂ As ₂ . Applied Physics Letters, 2009, 94, . | 1.5 | 337 |
| 8 | Field-Effect Transistors Based on Few-Layered \pm -MoTe ₂ . ACS Nano, 2014, 8, 5911-5920. | 7.3 | 333 |
| 9 | Metallic Spin-Liquid Behavior of the Geometrically Frustrated Kondo Lattice Pr ₂ Ir ₂ O ₇ . Physical Review Letters, 2006, 96, 087204. | 2.9 | 312 |
| 10 | Surface electronic structure of the topological Kondo-insulator candidate correlated electron system SmB ₆ . Nature Communications, 2013, 4, 2991. | 5.8 | 308 |
| 11 | Superconductivity and quantum criticality in the heavy-fermion system \hat{I}^2 -YbAlB ₄ . Nature Physics, 2008, 4, 603-607. | 6.5 | 307 |
| 12 | An ultrafast symmetry switch in a Weyl semimetal. Nature, 2019, 565, 61-66. | 13.7 | 307 |
| 13 | Upper critical fields and thermally-activated transport of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">NdFeAsO \rangle$ crystal. Physical Review B. 2008, 78, . | 1.1 | 303 |
| 14 | A coherent three-dimensional Fermi surface in a high-transition-temperature superconductor. Nature, 2003, 425, 814-817. | 13.7 | 267 |
| 15 | Unconventional Fermi surface in an insulating state. Science, 2015, 349, 287-290. | 6.0 | 229 |
| 16 | Dimensional reduction at a quantum critical point. Nature, 2006, 441, 617-620. | 13.7 | 211 |
| 17 | Artificially Stacked Atomic Layers: Toward New van der Waals Solids. Nano Letters, 2012, 12, 3518-3525. | 4.5 | 211 |
| 18 | Superconductivity up to 243 K in the yttrium-hydrogen system under high pressure. Nature Communications, 2021, 12, 5075. | 5.8 | 202 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Superconductivity in an Organic Insulator at Very High Magnetic Fields. <i>Physical Review Letters</i> , 2001, 87, 067002. | 2.9 | 195 |
| 20 | CVD-grown monolayered MoS ₂ as an effective photosensor operating at low-voltage. <i>2D Materials</i> , 2014, 1, 011004. | 2.0 | 195 |
| 21 | YBaCuO ₂ critical point in the cuprate superconductor from high-field Hall effect measurements. <i>Physical Review B</i> , 2011, 83. | 1.1 | 189 |
| 22 | Linear temperature dependence of resistivity and change in the Fermi surface at the pseudogap critical point of a high-T _c superconductor. <i>Nature Physics</i> , 2009, 5, 31-34. | 6.5 | 185 |
| 23 | Gapped itinerant spin excitations account for missing entropy in the hidden-order state of URu ₂ Si ₂ . <i>Nature Physics</i> , 2007, 3, 96-99. | 6.5 | 162 |
| 24 | Approaching the Intrinsic Limit in Transition Metal Diselenides via Point Defect Control. <i>Nano Letters</i> , 2019, 19, 4371-4379. | 4.5 | 161 |
| 25 | The Magnetic Genome of Two-Dimensional van der Waals Materials. <i>ACS Nano</i> , 2022, 16, 6960-7079. | 7.3 | 149 |
| 26 | Anisotropic scattering and anomalous normal-state transport in a high-temperature superconductor. <i>Nature Physics</i> , 2006, 2, 821-825. | 6.5 | 148 |
| 27 | Signatures of Electron Fractionalization in Ultraquantum Bismuth. <i>Science</i> , 2007, 317, 1729-1731. | 6.0 | 144 |
| 28 | Heavy-Mass Fermi Liquid near a Ferromagnetic Instability in Layered Ruthenates. <i>Physical Review Letters</i> , 2003, 90, 137202. | 2.9 | 134 |
| 29 | High-Pressure Sequence of Structural Phases: New Spin-Liquid State in the Cu ₂ YBaCuO ₉ Lattice. <i>Physical Review Letters</i> , 2011, 106, 147204. | 2.9 | 133 |
| 30 | Quantum Engineering the Structural and Electronic Phases of MoTe ₂ through W Substitution. <i>Nano Letters</i> , 2017, 17, 1616-1622. | 2.8 | 128 |
| 31 | Ambipolar Molybdenum Diselenide Field-Effect Transistors: Field-Effect and Hall Mobilities. <i>ACS Nano</i> , 2014, 8, 7923-7929. | 4.5 | 128 |
| 32 | Atypical Exciton-Phonon Interactions in WS ₂ and WSe ₂ Monolayers Revealed by Resonance Raman Spectroscopy. <i>Nano Letters</i> , 2016, 16, 2363-2368. | 4.5 | 118 |
| 33 | High Photoresponsivity and Short Photoresponse Times in Few-Layered WSe ₂ Transistors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12080-12088. | 4.0 | 111 |
| 34 | Intersite Coupling Effects in a Kondo Lattice. <i>Physical Review Letters</i> , 2002, 89, 106402. | 2.9 | 109 |
| 35 | Intrinsic carrier mobility of multi-layered MoS ₂ field-effect transistors on SiO ₂ . <i>Applied Physics Letters</i> , 2013, 102, 123105. | 1.5 | 108 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Hall and field-effect mobilities in few layered p-WSe ₂ field-effect transistors. Scientific Reports, 2015, 5, 8979. | 1.6 | 107 |
| 38 | Metal to Insulator Quantum-Phase Transition in Few-Layered ReS ₂ . Nano Letters, 2015, 15, 8377-8384. | 4.5 | 101 |
| 39 | Pronounced Photovoltaic Response from Multilayered Transition-Metal Dichalcogenides PN-Junctions. Nano Letters, 2015, 15, 7532-7538. | 4.5 | 98 |
| 40 | Dynamic Spin Ice: $\langle \text{PrO}_7 \rangle$. Physical Review Letters, 2008, 101, 227204. | 2.9 | 92 |
| 41 | Electronic in-plane symmetry breaking at field-tuned quantum criticality in CeRhIn ₅ . Nature, 2017, 548, 313-317. | 13.7 | 89 |
| 42 | Bilayer Lateral Heterostructures of Transition-Metal Dichalcogenides and Their Optoelectronic Response. ACS Nano, 2019, 13, 12372-12384. | 7.3 | 89 |
| 43 | Composite fermions and broken symmetries in graphene. Nature Communications, 2015, 6, 5838. | 5.8 | 84 |
| 44 | Fermi surface in the absence of a Fermi liquid in the Kondo insulator SmB ₆ . Nature Physics, 2018, 14, 166-172. | 6.5 | 81 |
| 45 | Correlation between the Superconducting Transition Temperature and Anisotropic Quasiparticle Scattering in $\langle \text{Tl}_2\text{BaCuO}_7 \rangle$. Physical Review Letters, 2007, 99, 107002. | 2.9 | 78 |
| 46 | Characteristic Bose-Einstein condensation scaling close to a quantum critical point in BaCuSi ₂ O ₆ . Physical Review B, 2005, 72, . | 1.1 | 76 |
| 47 | Role of spin-orbit coupling and evolution of the electronic structure of $\langle \text{WTe}_2 \rangle$ an external magnetic field. Physical Review B, 2015, 92, . | 1.1 | 75 |
| 48 | Bulk Fermi surface of the Weyl type-II semimetallic candidate $\langle \text{Ir}_3 \rangle$. Physical Review B, 2017, 96, . | 1.1 | 74 |
| 49 | Sequential Spin Polarization of the Fermi Surface Pockets in $\langle \text{URu}_2\text{Si}_2 \rangle$. Physical Review Letters, 2011, 106, 146403. | 2.9 | 70 |
| 50 | Hall effect within the colossal magnetoresistive semimetallic state of $\langle \text{MoTe}_2 \rangle$. Physical Review B, 2016, 94, . | 1.1 | 69 |
| 51 | Chemical Pressure Effects on Pyrochlore Spin Ice. Physical Review Letters, 2012, 108, 207206. | 2.9 | 67 |
| 52 | Field-Induced Fermi Surface Reconstruction and Adiabatic Continuity between Antiferromagnetism and the Hidden-Order State in URu ₂ Si ₂ . Physical Review Letters, 2007, 98, 166404. | 2.9 | 66 |
| 53 | Intricate Resonant Raman Response in Anisotropic ReS ₂ . Nano Letters, 2017, 17, 5897-5907. | 4.5 | 66 |
| 54 | High pressure route to generate magnetic monopole dimers in spin ice. Nature Communications, 2011, 2, 478. | 5.8 | 65 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Tunable Electronics in Large-Area Atomic Layers of Boron-Nitrogen-Carbon. Nano Letters, 2013, 13, 3476-3481. | 4.5 | 65 |
| 56 | Superconductivity with extremely large upper critical fields in Nb ₂ Pd _{0.81} S ₅ . Scientific Reports, 2013, 3, 1446. | 1.6 | 64 |
| 57 | Competing ground states in triple-layered Sr ₄ Ru ₃ O ₁₀ : Verging on itinerant ferromagnetism with critical fluctuations. Physical Review B, 2003, 68, . | 1.1 | 62 |
| 58 | Ba ₃ NbFe ₃ Si ₂ O ₁₄ : A New Multiferroic with a 2D Triangular Fe ³⁺ Motif. Chemistry of Materials, 2009, 21, 156-159. | 3.2 | 62 |
| 59 | Superconducting phase diagram of H ₃ S under high magnetic fields. Nature Communications, 2019, 10, 2522. | 5.8 | 62 |
| 60 | Magnetic field-tuned quantum critical point in CeAuSb ₂ . Physical Review B, 2005, 72, . | 1.1 | 60 |
| 61 | Determination of the Fermi Surface of MgB ₂ by the de Haas-van Alphen Effect. Physical Review Letters, 2003, 91, 037003. | 2.9 | 58 |
| 62 | First-Order Transition from a Kondo Insulator to a Ferromagnetic Metal in Single Crystalline FeSi _{1-x} Gex. Physical Review Letters, 2003, 91, 046401. | 2.9 | 56 |
| 63 | Evolution of the Fermi Surface and Quasiparticle Renormalization through a van Hove Singularity in Sr ₂ Y ₂ Fe ₄ O ₁₄ . Physical Review Letters, 2007, 99, 187001. | 2.9 | 56 |
| 64 | Sign Reversal of the Quantum Hall Number in (TMTSF) ₂ PF ₆ . Physical Review Letters, 1995, 75, 2000-2003. | 2.9 | 55 |
| 65 | Bose-Einstein condensation of triplons in Ba ₃ Bi ₂ Fe ₂ O ₁₄ . Physical Review B, 2009, 79, . | 1.1 | 55 |
| 66 | Sr ₂ RhO ₄ : a new, clean correlated electron metal. New Journal of Physics, 2006, 8, 175-175. | 1.2 | 54 |
| 67 | Anisotropic Hysteretic Hall Effect and Magnetic Control of Chiral Domains in the Chiral Spin States of Pr ₂ Ir ₂ O ₇ . Physical Review Letters, 2013, 106, 217204. | 1.9 | 53 |
| 68 | Confinement in Bechgaard Salts: Anomalous Magnetoresistance and Nuclear Relaxation. Physical Review Letters, 1995, 74, 5272-5275. | 2.9 | 52 |
| 69 | 4f-Electron Localization in CexLa _{1-x} Mn ₅ with M=Co, Rh, or Ir. Physical Review Letters, 2004, 93, 186405. | 2.9 | 50 |
| 70 | 3:1 magnetization plateau and suppression of ferroelectric polarization in an Ising chain multiferroic. Physical Review B, 2009, 79, . | 1.1 | 49 |
| 71 | Detailed study of the Fermi surfaces of the type-II Dirac semimetallic candidates X ₂ Te ₃ (X=Pt, Pd). Physical Review B, 2018, 97, . | 1.1 | 49 |
| 72 | Enhanced Superconductivity in Monolayer Td-MoTe ₂ . Nano Letters, 2021, 21, 2505-2511. | 4.5 | 49 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 73 | Global Phase Diagram of the Magnetic Field-Induced Organic Superconductors $\hat{\nu}$ -(BETS) $_2$ FexGa $_{1-x}$ Cl $_4$. Journal of the Physical Society of Japan, 2003, 72, 369-373. | 0.7 | 48 |
| 74 | Orbital-Ordering Transition in SrVO_2 . Physical Review Letters, 2007, 99, 136403. | 2.9 | 46 |
| 75 | Competition between Pauli and orbital effects in a charge-density-wave system. Physical Review B, 2000, 62, 10008-10012. | 1.1 | 44 |
| 76 | Interplanar coupling-dependent magnetoresistivity in high-purity layered metals. Nature Communications, 2016, 7, 10903. | 5.8 | 44 |
| 77 | Superconductivity and magnetic field induced spin density waves in the (TMTTF) $_2$ X family. Journal De Physique, I, 1994, 4, 1539-1549. | 1.2 | 44 |
| 78 | Three-Dimensional Fermi-Liquid Ground State in the Quasi-One-Dimensional Cuprate PrBa $_2$ Cu $_4$ O $_8$. Physical Review Letters, 2002, 89, 086601. | 2.9 | 43 |
| 79 | Transition from slow Abrikosov to fast moving Josephson vortices in iron pnictide superconductors. Nature Materials, 2013, 12, 134-138. | 13.3 | 43 |
| 80 | Anomalous insulator-metal transition in boron nitride-graphene hybrid atomic layers. Physical Review B, 2012, 86, . | 1.1 | 42 |
| 81 | Tunneling magnetoresistance and quantum oscillations in bilayered Ca $_3$ Ru $_2$ O $_7$. Physical Review B, 2003, 67, . | 1.1 | 40 |
| 82 | Magnetoelectric Feedback among Magnetic Order, Polarization, and Lattice in Multiferroic BiFeO $_3$. Journal of the Physical Society of Japan, 2011, 80, 114714. | 0.7 | 40 |
| 83 | Superconducting Pairs with Extreme Uniaxial Anisotropy in URu_2Si_2 . Physical Review Letters, 2012, 108, 066407. | 2.9 | 40 |
| 84 | Coexistence of Weyl physics and planar defects in the semimetals TaP and TaAs. Physical Review B, 2016, 93, . | 1.1 | 40 |
| 85 | High-temperature superconductivity on the verge of a structural instability in lanthanum superhydride. Nature Communications, 2021, 12, 6863. | 5.8 | 40 |
| 86 | Quantum oscillations, colossal magnetoresistance, and the magnetoelastic interaction in bilayered Ca $_3$ Ru $_2$ O $_7$. Physical Review B, 2003, 67, . | 1.1 | 39 |
| 87 | Effect of controlled disorder on quasiparticle thermal transport in Bi $_2$ Sr $_2$ CaCu $_2$ O $_8$. Physical Review B, 2001, 63, . | 1.1 | 38 |
| 88 | Ordered magnetic phases of the frustrated spin-dimer compound $\text{BaMn}_3\text{P}_2\text{O}_{14}$. Physical Review B, 2008, 77, . | 1.1 | 38 |
| 89 | Anisotropic Cascade of Field-Induced Phase Transitions in the Frustrated Spin-Ladder System BiCu_2PO . Physical Review Letters, 2012, 109, 167204. | 2.9 | 37 |
| 90 | Field-induced density wave in the heavy-fermion compound CeRhIn $_5$. Nature Communications, 2015, 6, 6663. | 5.8 | 36 |

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|-----|--|------|-----------|
| 91 | Fermi surface of the Weyl type-II metallic candidate WP_2 . Physical Review B, 2017, 96, . | 1.3 | 33 |
| 92 | Two-dimensional Fermi surface for the organic conductor $\hat{\Gamma}_6$ -(BETS)2FeBr4. Physica B: Condensed Matter, 2001, 298, 557-561. | 1.3 | 33 |
| 93 | Suppression of the $\hat{\Gamma}_6$ structural phase transition in Ce0.8La0.1Th0.1 by large magnetic fields. Journal of Physics Condensed Matter, 2005, 17, L77-L83. | 0.7 | 33 |
| 94 | Fabrication and characterization of ultraviolet photosensors from ZnO nanowires prepared using chemical bath deposition method. Journal of Applied Physics, 2016, 119, 084306. | 1.1 | 33 |
| 95 | Critical state in a low-dimensional metal induced by strong magnetic fields. Physical Review B, 2000, 62, 14212-14223. | 1.1 | 32 |
| 96 | Extension of the temperature-magnetic field phase diagram of CeB6. Physical Review B, 2004, 69, . | 1.1 | 32 |
| 97 | Shubnikov-de Haas Oscillations and the Magnetic-Field-Induced Suppression of the Charge Ordered State in Na0.5CoO2. Physical Review Letters, 2005, 94, 236402. | 2.9 | 32 |
| 98 | Angle-dependent magnetoresistance measurements in $\text{Ti}_2\text{Ba}_2\text{CuO}_6$ and the need for anisotropic scattering. Physical Review B, 2007, 76, . | 1.1 | 32 |
| 99 | Local Moment, Itinerant π , and Dimerization from Fermi-Liquid Behavior in Na_xCoO_2 . Physical Review Letters, 2008, 100, 126405. | 2.9 | 32 |
| 100 | Magnetism and spin dynamics in room-temperature van der Waals magnet Fe_5GeTe_2 . 2D Materials, 2021, 8, 045030. | 2.0 | 32 |
| 101 | High-Temperature Superconductivity in Hydrides: Experimental Evidence and Details. Journal of Superconductivity and Novel Magnetism, 2022, 35, 965-977. | 0.8 | 32 |
| 102 | Evidence of a room-temperature quantum spin Hall edge state in a higher-order topological insulator. Nature Materials, 2022, 21, 1111-1115. | 13.3 | 32 |
| 103 | Tracking anisotropic scattering in overdoped $\text{Ti}_2\text{Ba}_2\text{CuO}_6$ above 100 K. New Journal of Physics, 2009, 11, 055057. | 1.2 | 31 |
| 104 | High-field phase-diagram of Fe arsenide superconductors. Physica C: Superconductivity and Its Applications, 2009, 469, 566-574. | 0.6 | 30 |
| 105 | Field-induced quadrupolar quantum criticality in NaPr_2O_7 . Physical Review B, 2015, 91, . | 1.3 | 30 |
| 106 | Field-tuned collapse of an orbitally ordered and spin-polarized state: Colossal magnetoresistance in the bilayered ruthenate $\text{Ca}_3\text{Ru}_2\text{O}_7$. Physical Review B, 2004, 69, . | 1.1 | 29 |
| 107 | Shubnikov-de Haas Effect in the Metallic State of $\text{Na}_{0.3}\text{CoO}_2$. Physical Review Letters, 2006, 97, 126401. | 2.9 | 29 |
| 108 | Partial Field-Induced Magnetic Order in the Spin-Liquid Kagomé $\text{Nd}_3\text{Ga}_5\text{S}_4$. Physical Review Letters, 2007, 99, 236401. | 2.9 | 29 |

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|-----|---|-----|-----------|
| 109 | Bulk Fermi Surfaces of the Dirac Type-II Semimetallic Candidates $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Electrons in the Fermi Surface of the Heavy Fermion Superconductor $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:mtext} \text{ mathvariant="normal"} \rangle \hat{a} \langle \text{mml:mtext} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{YbAlB} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. Physical Review Letters, 2009, 102, 216402. | 2.9 | 29 |
| 110 | Gate-modulated conductance of few-layer WSe ₂ field-effect transistors in the subgap regime: Schottky barrier transistor and subgap impurity states. Applied Physics Letters, 2015, 106, 152104. | 1.5 | 29 |
| 111 | Magnetic anisotropy of the alkali iridate $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Na} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ at high magnetic fields: Evidence for strong ferromagnetic Kitaev correlations. Physical Review B, 2019, 99, . | 1.1 | 28 |
| 112 | Shubnikovâ€“de Haas effect and Yamaji oscillations in the antiferromagnetically ordered organic superconductor Î²-(BETS)2FeBr ₄ : a fermiology study. Solid State Communications, 2000, 116, 557-562. | 0.9 | 27 |
| 113 | Charge-Density Waves Survive the Pauli Paramagnetic Limit. Physical Review Letters, 2004, 93, 076405. | 2.9 | 27 |
| 114 | Anomalous metallic state and anisotropic multiband superconductivity in Nb $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ Pd $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.7 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ Se $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2014, 89, . | 1.1 | 27 |
| 115 | Universal ac conduction in large area atomic layers of CVD-grown MoS ₂ . Physical Review B, 2014, 89, . | 1.1 | 27 |
| 116 | Raman and electrical transport properties of few-layered arsenic-doped black phosphorus. Nanoscale, 2019, 11, 18449-18463. | 2.8 | 27 |
| 117 | Orbitally driven behaviour: Mott transition, quantum oscillations and colossal magnetoresistance in bilayered Ca ₃ Ru ₂ O ₇ . New Journal of Physics, 2004, 6, 159-159. | 1.2 | 26 |
| 118 | de Haasâ€“van Alphen effect in MgB ₂ crystals. Physica C: Superconductivity and Its Applications, 2003, 385, 75-84. | 0.6 | 25 |
| 119 | Bulk Fermi Surfaces of the Dirac Type-II Semimetallic Candidates $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{M} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Al} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ (Where $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \text{Tj} \text{ETQq1} \text{1} \text{0.784314} \text{rgBT} \text{Overlock} \text{10.1156} \text{50} \text{33} \text{25} \text{d} \langle \text{mml:math} \rangle$) | | |
| 120 | Magnetic-field-dependent interplay between incoherent and Fermi liquid transport mechanisms in low-dimensional Î± ₁ -phase organic conductors. Physical Review B, 2001, 64, . | 1.1 | 24 |
| 121 | Magnetic-polaron-driven magnetoresistance in the pyrochlore $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{ mathvariant="normal"} \rangle \text{Lu} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{ mathvariant="normal"} \rangle \text{V} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{ mathvariant="normal"} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2008, 77, . | 1.1 | 24 |
| 122 | Itinerant spin excitations near the hidden order transition in URu ₂ Si ₂ . Journal of Physics Condensed Matter, 2009, 21, 192202. | 0.7 | 24 |
| 123 | Bulk evidence for a time-reversal symmetry broken superconducting state in URu ₂ Si ₂ . Physical Review B, 2013, 88, . | 1.1 | 24 |
| 124 | Severe Fermi Surface Reconstruction at a Metamagnetic Transition in Ca ₂ xSr _x RuO ₄ (for 0.2â‰‰0.5). Physical Review Letters, 2005, 95, 196407. | 2.9 | 23 |
| 125 | Chemical Pressure Induced Spin Freezing Phase Transition in Kagome Pr Langasites. Physical Review Letters, 2009, 102, 067203. | 2.9 | 22 |
| 126 | Irreversible Dynamics of the Phase Boundary in U(Ru _{0.96} Rh _{0.04}) ₂ Si ₂ and Implications for Ordering. Physical Review Letters, 2006, 96, 136403. | 2.9 | 21 |

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|-----|--|------|-----------|
| 127 | Physical Properties of Single-Crystalline CaRuO_3 Grown by a Floating-Zone Method. Journal of the Physical Society of Japan, 2009, 78, 014701. | 0.7 | 21 |
| 128 | Manifestation of magnetic quantum fluctuations in the dielectric properties of a multiferroic. Nature Communications, 2014, 5, 4419. | 5.8 | 21 |
| 129 | Photoconductivity of few-layered p-WSe_2 phototransistors via multi-terminal measurements. 2D Materials, 2016, 3, 041004. | 2.0 | 21 |
| 130 | (TMTTF) $_2$ Br: The First Organic Superconductor in the (TMTTF) $_2$ X family. Advanced Materials, 1994, 6, 762-765. | 11.1 | 20 |
| 131 | (TM) $_2$ X organic superconductors: interplay between 1-D charge localization and higher dimensionality cross-over. Synthetic Metals, 1995, 70, 719-725. | 2.1 | 20 |
| 132 | Specific heat of geometrically frustrated and multiferroic $\text{RMn}_2\text{Ga}_x\text{O}_3$ (R=Ho,Y). Physical Review B, 2006, 74, . | 1.1 | 20 |
| 133 | Possible devil's staircase in the Kondo lattice CeSbSe . Physical Review B, 2017, 96, . | 1.1 | 20 |
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