

P F S Rosa

List of Publications by Year in descending order

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99
papers

1,219
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394421

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104
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104
docs citations

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times ranked

1517
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Microscopic probe of magnetic polarons in antiferromagnetic Eu ₅ In ₂ Sb ₆ . Physical Review B, 2022, 105, . | 3.2 | 4 |
| 2 | Possible routes for the synthesis of nanowires of intermetallic compounds: The case of CeIn ₃ . Journal of Physics: Conference Series, 2022, 2164, 012041. | 0.4 | 1 |
| 3 | Effects of external pressure on the narrow-gap semiconductor $\text{Ce}_{3\text{Zr}}\text{Mn}_6$. Physical Review B, 2022, 105, . | | |
| 4 | Slow crystalline electric field fluctuations in the Kondo lattice SmB_6 . Physical Review B, 2022, 105, . | | |
| 5 | Single thermodynamic transition at 2 K in superconducting UTe ₂ single crystals. Communications Materials, 2022, 3, . | 6.9 | 39 |
| 6 | Persistence of correlation-driven surface states in SmB_6 under pressure. Physical Review B, 2022, 105, . | | |
| 7 | Colossal piezoresistance in narrow-gap $\text{Eu}_5\text{In}_2\text{Sb}_6$. Physical Review B, 2022, 106, . | | |
| 8 | Surface and electronic structure at atomic length scales of the nonsymmorphic antiferromagnet $\text{Eu}_5\text{In}_2\text{Sb}_6$. Physical Review B, 2022, 106, . | 3.2 | 2 |
| 9 | Comparative Scanning Tunneling Microscopy Study on Hexaborides. Physica Status Solidi (B): Basic Research, 2021, 258, 2000022. | 1.5 | 5 |
| 10 | Spin-texture-driven electrical transport in multi-Q antiferromagnets. Communications Physics, 2021, 4, . | 5.3 | 19 |
| 11 | Phase stability in SmB_6 . Physical Review Materials, 2021, 5, . | | |
| 12 | Robust Narrow-Gap Semiconducting Behavior in Square-Net La ₃ Cd ₂ As ₆ . Chemistry of Materials, 2021, 33, 4122-4127. | 6.7 | 6 |
| 13 | Electron-beam floating-zone refined UCoGe. Physical Review Materials, 2021, 5, . | 2.4 | 1 |
| 14 | Bulk transport paths through defects in floating zone and Al flux grown SmB_6 . Physical Review Materials, 2021, 5, . | | |
| 15 | Systematic manipulation of the surface conductivity of SmB ₆ . Physical Review Research, 2021, 3, . | 3.6 | 4 |
| 16 | Surface excitations relaxation in the Kondo insulator SmB_6 . Physical Review Research, 2021, 3, . | 3.6 | 3 |
| 17 | Narrow-gap semiconducting behavior in antiferromagnetic Eu ₁₁ InSb ₉ . Physical Review Materials, 2021, 5, . | 2.4 | 1 |
| 18 | Spatially inhomogeneous superconductivity in UTe_2 . Physical Review B, 2021, 104, . | 3.2 | 31 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Imaging emergent heavy Dirac fermions of a topological Kondo insulator. Nature Physics, 2020, 16, 52-56. | 16.7 | 47 |
| 20 | Evidence for a pressure-induced antiferromagnetic quantum critical point in intermediate-valence UTe ₂ . Science Advances, 2020, 6, . | 10.3 | 69 |
| 21 | Colossal magnetoresistance in a nonsymmorphic antiferromagnetic insulator. Npj Quantum Materials, 2020, 5, . | 5.2 | 38 |
| 22 | Exploring itinerant states in divalent hexaborides using rare-earth L edge resonant inelastic x-ray scattering. Journal of Physics Condensed Matter, 2020, 32, 135601. | 1.8 | 2 |
| 23 | Magnetic structure and crystalline electric field effects in the triangular antiferromagnet $CePtA$. Physical Review B, 2020, 101, . | 3.2 | 4 |
| 24 | Visualization of localized perturbations on a (001) surface of the ferromagnetic semimetal G . Physical Review B, 2020, 101, . | 3.2 | 5 |
| 25 | Electronic and magnetic properties of stoichiometric $CeAuBi_2$. Physical Review B, 2020, 101, . | 3.2 | 5 |
| 26 | Revisiting the Possible $4f_7 5d_1$ Ground State of Gd Impurities in SmB_6 by Electron Spin Resonance. , 2020, , . | | 1 |
| 27 | Hall-coefficient diagnostics of the surface state in pressurized SmB_6 . Physical Review B, 2020, 101, . | 3.2 | 3 |
| 28 | Thermal and magnetoelastic properties of SmB_6 in the field-induced low-temperature states. Physical Review B, 2020, 102, . | 3.2 | 6 |
| 29 | Metallic islands in the Kondo insulator SmB_6 . Physical Review Research, 2020, 2, . | | 1 |
| 30 | Crystalline electric field study in a putative topologically trivial rare-earth doped YPdBi compound. Journal of Physics Condensed Matter, 2019, 31, 465701. | 1.8 | 6 |
| 31 | Putative hybridization gap in $CaMn_2$ under applied pressure. Physical Review B, 2019, 100, . | 3.2 | 11 |
| 32 | Comparing the anomalous Hall effect and the magneto-optical Kerr effect through antiferromagnetic phase transitions in Mn_3Sn . Applied Physics Letters, 2019, 114, . | 3.3 | 29 |
| 33 | Physical properties of SmB_6 single crystals. Physical Review B, 2019, 99, . | 3.2 | 11 |
| 34 | Orientation of the ground-state orbital in $CeCoIn_5$ and $CeRhIn_5$. Physical Review B, 2019, 99, . | 3.2 | 9 |
| 35 | Transport gap in SmB_6 protected against disorder. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12638-12641. | 7.1 | 35 |
| 36 | Quantum Oscillations in Flux-Grown SmB_6 with Embedded Aluminum. Physical Review Letters, 2019, 122, 166401. | 7.1 | 37 |

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| 37 | Magnetic field-tuned Fermi liquid in a Kondo insulator. Nature Communications, 2019, 10, 5487. | 12.8 | 18 |
| 38 | Enhanced Hybridization Sets the Stage for Electronic Nematicity in CeRhIn_5 . Physical Review Letters, 2019, 122, 016402. | 7.8 | 19 |
| 39 | Localized magnetic moments in metallic SrB_6 single crystals. Journal of Physics Condensed Matter, 2019, 31, 065602. | 1.8 | 2 |
| 40 | Raman spectroscopy of f-electron metals: An example of CeB_6 . Physical Review Materials, 2019, 3, . | 2.4 | 11 |
| 41 | CeAu_2 : A new nonsymmorphic antiferromagnetic compound. Physical Review Materials, 2019, 3, . | 2.4 | 11 |
| 42 | Magnetotransport properties in the magnetic phase of $\text{BaFe}_2\text{xTxA}_2$ (T=Co,Ni) : A magnetic excitations approach. Physical Review B, 2018, 97, . | 3.2 | 1 |
| 43 | Evolution of ground-state wave function in CeCoIn_5 upon Cd or Sn doping. Physical Review B, 2018, 97, . | 3.2 | 16 |
| 44 | Synthesis and characterization of the heavy-fermion compound $\text{CePtAl}_4\text{Ge}_2$. Journal of Alloys and Compounds, 2018, 738, 550-555. | 5.5 | 5 |
| 45 | Tuning the Pairing Interaction in a d -Wave Superconductor by Paramagnons Injected through Interfaces. Physical Review Letters, 2018, 120, 187002. | 7.8 | 10 |
| 46 | Flux methods for growth of intermetallic single crystals. , 2018, , 49-60. | | 2 |
| 47 | Magnetic and defect probes of the SmB_6 surface state. Science Advances, 2018, 4, eaau4886. | 10.3 | 29 |
| 48 | High-pressure studies on heavy-fermion antiferromagnet CeCuBi_2 . Journal of Physics Condensed Matter, 2018, 30, 375601. | 1.8 | 3 |
| 49 | Multiple phases with intertwined magnetic and superconducting orders in Nd-doped CeCoIn_5 . Physical Review B, 2018, 97, . | 3.2 | 12 |
| 50 | Crystal Growth of Intermetallics. , 2018, , . | | 10 |
| 51 | Anomalous remnant magnetization in dilute antiferromagnetic $\text{Gd}_x\text{Y}_{1-x}\text{B}_4$. Physical Review Materials, 2018, 2, . | 2.4 | 2 |
| 52 | Competing magnetic orders in the superconducting state of heavy-fermion CeRhIn_5 . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5384-5388. | 7.1 | 14 |
| 53 | Superconducting Properties in Arrays of Nanostructured $\hat{\Gamma}^2$ -Gallium. Scientific Reports, 2017, 7, 15306. | 3.3 | 18 |
| 54 | Tuning of superconductivity by Ni substitution into noncentrosymmetric $\text{ThC}_x\text{Ni}_y\text{O}_z$. Physical Review B, 2017, 95, 020402. | 3.2 | 7 |

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| 55 | Anharmonic rattling vibrations effects in the ESR of Er ³⁺ -doped SmB ₆ Kondo insulator. AIP Advances, 2017, 7, 055709. | 1.3 | 5 |
| 56 | Tuning the magnetic anisotropy in CeRhIn_5 via Gd substitution. Physical Review B, 2017, 96, . | 3.2 | 3 |
| 57 | Nuclear magnetic resonance investigation of the heavy fermion system Ce ₂ CoAl ₇ Ge ₄ . Physical Review B, 2017, 96, . | 3.2 | 3 |
| 58 | Fiber Bragg Grating Dilatometry in Extreme Magnetic Field and Cryogenic Conditions. Sensors, 2017, 17, 2572. | 3.8 | 24 |
| 59 | An FBG Optical Approach to Thermal Expansion Measurements under Hydrostatic Pressure. Sensors, 2017, 17, 2543. | 3.8 | 9 |
| 60 | Filling the holes in the CaFe ₄ As ₃ structure: Synthesis and magnetism of CaCo ₅ As ₃ . Physical Review Materials, 2017, 1, . | 2.4 | 1 |
| 61 | Unusual diffusive effects on the ESR of Nd ³⁺ ions in the tunable topologically nontrivial semimetal YBiPt. Journal of Physics Condensed Matter, 2016, 28, 125601. | 1.8 | 13 |
| 62 | Quantum Critical Scaling in the Disordered Itinerant Ferromagnet UCo _{1-x} Fe _x Ge. Physical Review Letters, 2016, 117, 237202. | 7.8 | 10 |
| 63 | Effects of spin excitons on the surface states of SmB_6 : A photoemission study. Physical Review B, 2016, 94, . | 3.2 | 11 |
| 64 | Electrical transport properties of single-crystal CaB ₆ , SrB ₆ , and BaB ₆ . Physical Review B, 2016, 94, . | 3.2 | 11 |
| 65 | Breakdown of the Kondo insulating state in SmB_6 introducing Sm vacancies. Physical Review B, 2016, 94, . | 3.2 | 11 |
| 66 | Dimensionality tuning of the electronic structure in Fe ₃ Ga ₄ magnetic materials. Scientific Reports, 2016, 6, 28364. | 3.3 | 10 |
| 67 | Hall effect anomaly and low-temperature metamagnetism in the Kondo compound CeAgBi_2 . Physical Review B, 2016, 93, . | 3.2 | 11 |
| 68 | Physical properties of the Ce ₂ MAl ₇ Ge ₄ heavy-fermion compounds (M=Co, Ir, Ni, Pd). Physical Review B, 2016, 93, . | 3.2 | 8 |
| 69 | Low-temperature conducting state in two candidate topological Kondo insulators: SmB_6 and Ce_3Bi_3 . Physical Review B, 2016, 94, . | 3.2 | 11 |
| 70 | Anomalous three-dimensional bulk ac conduction within the Kondo gap of SmB_6 single crystals. Physical Review B, 2016, 94, . | 3.2 | 11 |
| 71 | Unusual Kondo-hole effect and crystal-field frustration in Nd-doped CeRhIn_5 . Physical Review B, 2016, 94, . | 3.2 | 6 |
| 72 | Ferromagnetic Kondo behavior in UAuBi ₂ single crystals. Physical Review B, 2015, 92, . | 3.2 | 8 |

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| 73 | Role of dimensionality in the Kondo The case of Pressure-induced quantum phase transitions in a Site specific spin dynamics in BaFe ₂ As ₂ : tuning the ground state by orbital differentiation. Scientific Reports, 2015, 4, 6543. | 3.2 | 14 |
| 74 | High pressure and high magnetic field studies of the electronic transport properties of the antiferromagnet Eu ₃ Ir ₄ Sn ₁₃ . Journal of Physics: Conference Series, 2015, 592, 012046. | 3.2 | 26 |
| 75 | 3d magnetism in ThCo ₂ Sn ₂ single crystals. Journal of Physics: Conference Series, 2015, 592, 012053. | 3.3 | 6 |
| 76 | The role of Ni vacancies on the physical properties of CeNi ₂ Bi ₂ single crystals. Journal of Physics: Conference Series, 2015, 592, 012063. | 0.4 | 2 |
| 77 | Magnetic properties of nearly stoichiometric CeAuBi ₂ heavy fermion compound. Journal of Applied Physics, 2015, 117, . | 0.4 | 1 |
| 78 | Combined external pressure and Cu-substitution studies on BaFe ₂ As ₂ single crystals. Journal of Physics Condensed Matter, 2015, 27, 145701. | 0.4 | 7 |
| 79 | Ta _{1-x} Hf _x B: a new FeB-prototype superconductor. Superconductor Science and Technology, 2015, 28, 095016. | 2.5 | 16 |
| 80 | Superconductivity in the Th _{0.93} Zr _{0.07} B ₁₂ compound with UB ₁₂ prototype structure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2498-2501. | 1.8 | 2 |
| 81 | Suppression of dense Kondo state in CeB ₆ under pressure. Physica B: Condensed Matter, 2015, 457, 12-16. | 3.5 | 4 |
| 82 | Evolution of the magnetic properties along the R ₂ CuBi ₂ (R = Ce, Pr, Nd, Gd, Sm) series of intermetallic compounds. Journal of Applied Physics, 2014, 115, 17E115. | 2.1 | 6 |
| 83 | Quantum oscillations in Physical properties and magnetic structure of the intermetallic Electron spin resonance of the half-Heusler antiferromagnet GdPdBi. Solid State Communications, 2014, 177, 95-97. | 2.7 | 11 |
| 84 | Transport critical current measurements on a Cu-substituted BaFe ₂ As ₂ superconductor. Journal of Applied Physics, 2014, 115, 17D704. | 2.5 | 12 |
| 85 | Physical properties of EuPtIn ₄ intermetallic antiferromagnet. Journal of Magnetism and Magnetic Materials, 2014, 371, 5-9. | 3.2 | 4 |
| 86 | Exploring the effects of dimensionality on the magnetic properties of intermetallic nanowires. Solid State Communications, 2014, 191, 14-18. | 3.2 | 22 |
| 87 | | 1.9 | 6 |
| 88 | | 2.5 | 2 |
| 89 | | 2.3 | 7 |
| 90 | | 1.9 | 9 |

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|----|---|-----|-----------|
| 91 | Pressure effects on magnetic pair-breaking in Mn- and Eu-substituted BaFe ₂ As ₂ . Journal of Applied Physics, 2014, 115, 17D702. | 2.5 | 4 |
| 92 | High field nuclear magnetic resonance in transition metal substituted BaFe ₂ As ₂ . Journal of Applied Physics, 2014, 115, 17D711. | 2.5 | 4 |
| 93 | Possible unconventional superconductivity in substituted BaFe ₂ As ₂ revealed by magnetic pair-breaking studies. Scientific Reports, 2014, 4, 6252. | 3.3 | 14 |
| 94 | Synthesis and Characterization of BaFe ₂ As ₂ Single Crystals Grown by In-flux Technique. Brazilian Journal of Physics, 2013, 43, 223-229. | 1.4 | 17 |
| 95 | Magnetic polaron effect in Sr _{1-x} Ca _x Eu _{1-x} Fe ₂ As ₂ . Physical Review B, 2012, 86, . | 3.2 | 9 |
| 96 | Evolution of Eu ²⁺ spin dynamics in Ba _{1-x} Ca _x Fe ₂ As ₂ . Physical Review B, 2012, 86, . | 3.2 | 15 |
| 97 | Electron spin resonance of the intermetallic antiferromagnet EuIn ₂ As ₂ . Physical Review B, 2012, 86, . | 3.2 | 20 |
| 98 | Pressure and chemical substitution effects in the local atomic structure of BaFe ₂ As ₂ . Physical Review B, 2011, 83, . | 3.2 | 37 |
| 99 | Co-Substitution Effects on the Fe Valence in the BaFe ₂ As ₂ Superconducting Compound: A Study of Hard X-Ray Absorption Spectroscopy. Physical Review Letters, 2011, 107, 267402. | 7.8 | 51 |