

P F S Rosa

List of Publications by Year in descending order

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99
papers

1,219
citations

393982

19
h-index

476904

29
g-index

104
all docs

104
docs citations

104
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, .	1.1	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.	0.3	1
3	Effects of external pressure on the narrow-gap semiconductor $\text{Ce}_{1-x}\text{Th}_x\text{In}_2\text{Sb}_6$. 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, .	2.9	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, .	1.1	2
9	Comparative Scanning Tunneling Microscopy Study on Hexaborides. Physica Status Solidi (B): Basic Research, 2021, 258, 2000022.	0.7	5
10	Spin-texture-driven electrical transport in multi-Q antiferromagnets. Communications Physics, 2021, 4, .	2.0	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.	3.2	6
13	Electron-beam floating-zone refined UCoGe. Physical Review Materials, 2021, 5, .	0.9	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, .	1.3	4
16	Surface excitations relaxation in the Kondo insulator SmB_6 . Physical Review Research, 2021, 3, .	1.3	3
17	Narrow-gap semiconducting behavior in antiferromagnetic Eu ₁₁ InSb ₉ . Physical Review Materials, 2021, 5, .	0.9	1
18	Spatially inhomogeneous superconductivity in UTe_2 . Physical Review B, 2021, 104, .	1.1	31

#	ARTICLE	IF	CITATIONS
19	Imaging emergent heavy Dirac fermions of a topological Kondo insulator. Nature Physics, 2020, 16, 52-56.	6.5	47
20	Evidence for a pressure-induced antiferromagnetic quantum critical point in intermediate-valence UTe ₂ . Science Advances, 2020, 6, .	4.7	69
21	Colossal magnetoresistance in a nonsymmorphic antiferromagnetic insulator. Npj Quantum Materials, 2020, 5, .	1.8	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.	0.7	2
23	Magnetic structure and crystalline electric field effects in the triangular antiferromagnet $CePtA_4$. Physical Review B, 2020, 101, .	1.1	4
24	Visualization of localized perturbations on a (001) surface of the ferromagnetic semimetal EuB_6 . Physical Review B, 2020, 101, .	1.1	5
25	Electronic and magnetic properties of stoichiometric CeAuBi ₂ . Physical Review B, 2020, 101, .	1.1	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, .	1.1	3
28	Thermal and magnetoelastic properties of SmB_6 in the field-induced low-temperature states. Physical Review B, 2020, 102, .	1.1	3
29	Metallic islands in the Kondo insulator SmB_6 . Physical Review Research, 2020, 2, .	1.1	3
30	Crystalline electric field study in a putative topologically trivial rare-earth doped YPdBi compound. Journal of Physics Condensed Matter, 2019, 31, 465701.	0.7	6
31	Putative hybridization gap in $CaMn_2$ under applied pressure. Physical Review B, 2019, 100, .	1.1	3
32	Comparing the anomalous Hall effect and the magneto-optical Kerr effect through antiferromagnetic phase transitions in Mn ₃ Sn. Applied Physics Letters, 2019, 114, .	1.5	29
33	Physical properties of SmB_6 single crystals. Physical Review B, 2019, 99, .	1.1	11
34	Orientation of the ground-state orbital in $CeCoIn_5$ and $CeRhIn_5$. Physical Review B, 2019, 99, .	1.1	11
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.	3.3	35
36	Quantum Oscillations in Flux-Grown SmB_6 with Embedded Aluminum. Physical Review Letters, 2019, 122, 166401.	3.3	35

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37	Magnetic field-tuned Fermi liquid in a Kondo insulator. Nature Communications, 2019, 10, 5487.	5.8	18
38	Enhanced Hybridization Sets the Stage for Electronic Nematicity in CeRhIn_5 . Physical Review Letters, 2019, 122, 016402.	2.9	19
39	Localized magnetic moments in metallic SrB_6 single crystals. Journal of Physics Condensed Matter, 2019, 31, 065602.	0.7	2
40	Raman spectroscopy of f -electron metals: An example of CeB_6 . Physical Review Materials, 2019, 3, .	0.9	11
41	CeAu_2 : A new nonsymmorphic antiferromagnetic compound. Physical Review Materials, 2019, 3, .	0.9	11
42	Magnetotransport properties in the magnetic phase of $\text{BaFe}_2\text{TxAs}_2$ (T=Co,Ni) : A magnetic excitations approach. Physical Review B, 2018, 97, .	1.1	1
43	Evolution of ground-state wave function in CeCoIn_5 upon Cd or Sn doping. Physical Review B, 2018, 97, .	1.1	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.	2.8	5
45	Tuning the Pairing Interaction in a d -Wave Superconductor by Paramagnons Injected through Interfaces. Physical Review Letters, 2018, 120, 187002.	2.9	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.	4.7	29
48	High-pressure studies on heavy-fermion antiferromagnet CeCuBi_2 . Journal of Physics Condensed Matter, 2018, 30, 375601.	0.7	3
49	Multiple phases with intertwined magnetic and superconducting orders in Nd-doped CeCoIn_5 . Physical Review B, 2018, 97, .	1.1	11
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, .	0.9	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.	3.3	14
53	Superconducting Properties in Arrays of Nanostructured $\hat{\Gamma}^2$ -Gallium. Scientific Reports, 2017, 7, 15306.	1.6	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.	1.1	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.	0.6	5
56	Tuning the magnetic anisotropy in CeRhIn_5 via Gd substitution. Physical Review B, 2017, 96, .	1.1	1
57	Nuclear magnetic resonance investigation of the heavy fermion system Ce ₂ CoAl ₇ Ge ₄ . Physical Review B, 2017, 96, .	1.1	3
58	Fiber Bragg Grating Dilatometry in Extreme Magnetic Field and Cryogenic Conditions. Sensors, 2017, 17, 2572.	2.1	24
59	An FBG Optical Approach to Thermal Expansion Measurements under Hydrostatic Pressure. Sensors, 2017, 17, 2543.	2.1	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, .	0.9	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.	0.7	13
62	Quantum Critical Scaling in the Disordered Itinerant Ferromagnet UCo _{1-x} Fe _x Ge. Physical Review Letters, 2016, 117, 237202.	2.9	10
63	Effects of spin excitons on the surface states of SmB_6 : A photoemission study. Physical Review B, 2016, 94, .	1.1	11
64	Electrical transport properties of single-crystal CaB ₆ , SrB ₆ , and BaB ₆ . Physical Review B, 2016, 94, .	1.1	11
65	Breakdown of the Kondo insulating state in SmB_6 introducing Sm vacancies. Physical Review B, 2016, 94, .	1.1	11
66	Dimensionality tuning of the electronic structure in Fe ₃ Ga ₄ magnetic materials. Scientific Reports, 2016, 6, 28364.	1.6	10
67	Hall effect anomaly and low-temperature metamagnetism in the Kondo compound CeAgBi_2 . Physical Review B, 2016, 93, .	1.1	9
68	Physical properties of the Ce ₂ MAl ₇ Ge ₄ heavy-fermion compounds (M=Co, Ir, Ni, Pd). Physical Review B, 2016, 93, .	1.1	8
69	Low-temperature conducting state in two candidate topological Kondo insulators: SmB_6 and Ce_3Bi_3 . Physical Review B, 2016, 94, .	1.1	38
70	Anomalous three-dimensional bulk ac conduction within the Kondo gap of SmB_6 single crystals. Physical Review B, 2016, 94, .	1.1	14
71	Unusual Kondo-hole effect and crystal-field frustration in Nd-doped CeRhIn ₅ . Physical Review B, 2016, 94, .	1.1	6
72	Ferromagnetic Kondo behavior in UAuBi ₂ single crystals. Physical Review B, 2015, 92, .	1.1	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.	1.1	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.	1.1	26
75	3d magnetism in ThCo ₂ Sn ₂ single crystals. Journal of Physics: Conference Series, 2015, 592, 012053.	1.6	6
76	The role of Ni vacancies on the physical properties of CeNi ₃ Bi ₂ single crystals. Journal of Physics: Conference Series, 2015, 592, 012063.	0.3	2
77	Magnetic properties of nearly stoichiometric CeAuBi ₂ heavy fermion compound. Journal of Applied Physics, 2015, 117, .	0.3	1
78	Combined external pressure and Cu-substitution studies on BaFe ₂ As ₂ single crystals. Journal of Physics Condensed Matter, 2015, 27, 145701.	1.1	16
79	Ta _{1-x} Hf _x B: a new FeB-prototype superconductor. Superconductor Science and Technology, 2015, 28, 095016.	0.7	2
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	4
81	Suppression of dense Kondo state in CeB ₆ under pressure. Physica B: Condensed Matter, 2015, 457, 12-16.	0.9	6
82	Evolution of the magnetic properties along the RCuBi ₂ (R = Ce, Pr, Nd, Gd, Sm) series of intermetallic compounds. Journal of Applied Physics, 2014, 115, 17E115.	1.3	11
83	Quantum oscillations in EuFe ₂ As ₂ single crystals. Physical Review B, 2014, 90, .	1.1	4
84	Physical properties and magnetic structure of the intermetallic CeCuBi ₂ compound. Physical Review B, 2014, 90, .	1.1	22
85	Electron spin resonance of the half-Heusler antiferromagnet GdPdBi. Solid State Communications, 2014, 177, 95-97.	0.9	6
86	Transport critical current measurements on a Cu-substituted BaFe ₂ As ₂ superconductor. Journal of Applied Physics, 2014, 115, 17D704.	1.1	2
87	Physical properties of EuPtIn ₄ intermetallic antiferromagnet. Journal of Magnetism and Magnetic Materials, 2014, 371, 5-9.	1.0	7
88	Exploring the effects of dimensionality on the magnetic properties of intermetallic nanowires. Solid State Communications, 2014, 191, 14-18.	0.9	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.	1.1	4
92	High field nuclear magnetic resonance in transition metal substituted BaFe ₂ As ₂ . Journal of Applied Physics, 2014, 115, 17D711.	1.1	4
93	Possible unconventional superconductivity in substituted BaFe ₂ As ₂ revealed by magnetic pair-breaking studies. Scientific Reports, 2014, 4, 6252.	1.6	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.	0.7	17
95	Magnetic polaron effect in Sr _{1-x} Ca _x Eu _{1-x} Fe ₂ As ₂ . Physical Review B, 2012, 86, .	1.1	9
96	Evolution of Eu ²⁺ spin dynamics in Ba _{1-x} Ca _x Fe ₂ As ₂ . Physical Review B, 2012, 86, .	1.1	15
97	Electron spin resonance of the intermetallic antiferromagnet EuIn ₂ As ₂ . Physical Review B, 2012, 86, .	1.1	20
98	Pressure and chemical substitution effects in the local atomic structure of BaFe ₂ As ₂ . Physical Review B, 2011, 83, .	1.1	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.	2.9	51