

P F S Rosa

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

1,219
citations

394421

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477307

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104
all docs

104
docs citations

104
times ranked

1517
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for a pressure-induced antiferromagnetic quantum critical point in intermediate-valence UTe_2 . Science Advances, 2020, 6, .	10.3	69
2	Co-Substitution Effects on the Fe Valence in the BaFe_2As_2 Superconducting Compound: A Study of Hard X-Ray Absorption Spectroscopy. Physical Review Letters, 2011, 107, 267402.	7.8	51
3	Imaging emergent heavy Dirac fermions of a topological Kondo insulator. Nature Physics, 2020, 16, 52-56.	16.7	47
4	Anomalous three-dimensional bulk ac conduction within the Kondo gap of SmB_6 single crystals. Physical Review B, 2016, 94, .	3.2	14
5	Single thermodynamic transition at 2 K in superconducting UTe_2 single crystals. Communications Materials, 2022, 3, .	6.9	39
6	Low-temperature conducting state in two candidate topological Kondo insulators: SmB_6 and Ce_3B_2 . Physical Review B, 2016, 94, .	3.2	38
7	Colossal magnetoresistance in a nonsymmorphic antiferromagnetic insulator. Npj Quantum Materials, 2020, 5, .	5.2	38
8	Pressure and chemical substitution effects in the local atomic structure of BaFe_2As_2 . Physical Review B, 2011, 83, .	3.2	37
9	Quantum Oscillations in Flux-Grown SmB_6 with Embedded Aluminum. Physical Review Letters, 2019, 122, 166401.	7.1	37
10	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
11	Breakdown of the Kondo insulating state in SmB_6 introducing Sm vacancies. Physical Review B, 2016, 94, .	3.2	34
12	Spatially inhomogeneous superconductivity in UTe_2 . Physical Review B, 2021, 104, .	3.2	31
13	Magnetic and defect probes of the SmB_6 surface state. Science Advances, 2018, 4, eaau4886.	10.3	29
14	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
15	Pressure-induced quantum phase transitions in a YbB_6 single crystal. Physical Review B, 2015, 92, .	3.2	26
16	Fiber Bragg Grating Dilatometry in Extreme Magnetic Field and Cryogenic Conditions. Sensors, 2017, 17, 2572.	3.8	24
17	Physical properties and magnetic structure of the intermetallic CeCuBi_2 compound. Physical Review B, 2014, 90, .	3.2	22
18	Electron spin resonance of the intermetallic antiferromagnet EuIn_2As_2 . Physical Review B, 2012, 86, .	3.2	20

#	ARTICLE	IF	CITATIONS
19	Hall effect anomaly and low-temperature metamagnetism in the Kondo compound CeAgBi . Physical Review B, 2016, 93, .	3.2	10
20	Enhanced Hybridization Sets the Stage for Electronic Nematicity in CeRhIn_5 . Physical Review Letters, 2019, 122, 016402.	7.8	19
21	Spin-texture-driven electrical transport in multi-Q antiferromagnets. Communications Physics, 2021, 4, .	5.3	19
22	Superconducting Properties in Arrays of Nanostructured $\text{In}_2\text{-Gallium}$. Scientific Reports, 2017, 7, 15306.	3.3	18
23	Magnetic field-tuned Fermi liquid in a Kondo insulator. Nature Communications, 2019, 10, 5487.	12.8	18
24	Synthesis and Characterization of BaFe_2As_2 Single Crystals Grown by In-flux Technique. Brazilian Journal of Physics, 2013, 43, 223-229.	1.4	17
25	Effects of spin excitons on the surface states of SmB_6 : A photoemission study. Physical Review B, 2016, 94, .	2.5	16
26	Magnetic properties of nearly stoichiometric CeAuBi_2 heavy fermion compound. Journal of Applied Physics, 2015, 117, .	2.5	16
27	Evolution of ground-state wave function in CeCoIn_5 upon Cd or Sn doping. Physical Review B, 2018, 97, .	3.2	16
28	Thermal and magnetoelastic properties of In_2 in the field-induced low-temperature states. Physical Review B, 2020, 102, .	3.2	16
29	spin dynamics in BaFe_2As_2 . Physical Review B, 2015, 92, .	3.2	15
30	Role of dimensionality in the Kondo effect: The case of CeCd . Physical Review B, 2015, 92, .	3.2	14
31	Possible unconventional superconductivity in substituted BaFe_2As_2 revealed by magnetic pair-breaking studies. Scientific Reports, 2014, 4, 6252.	3.3	14
32	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
33	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
34	Evolution of the magnetic properties along the RCuBi_2 ($\text{R} = \text{Ce, Pr, Nd, Gd, Sm}$) series of intermetallic compounds. Journal of Applied Physics, 2014, 115, 17E115.	2.5	12
35	Suppression of dense Kondo state in CeB_6 under pressure. Physica B: Condensed Matter, 2015, 457, 12-16.	2.7	11
36	Electrical transport properties of single-crystal $\text{CaB}_6, \text{SrB}_6$, and BaB_6 . Physical Review B, 2016, 94, .	3.2	11

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37	Physical properties of B_6 single crystals. Physical Review B, 2019, 99, .	3.2	11
38	Raman spectroscopy of f-electron metals: An example of CeB ₆ . Physical Review Materials, 2019, 3, .	2.4	11
39	Quantum Critical Scaling in the Disordered Itinerant Ferromagnet UCo _{1-x} FexGe. Physical Review Letters, 2016, 117, 237202.	7.8	10
40	Dimensionality tuning of the electronic structure in Fe ₃ Ga ₄ magnetic materials. Scientific Reports, 2016, 6, 28364.	3.3	10
41	Tuning the Pairing Interaction in a d -Wave Superconductor by Paramagnons Injected through Interfaces. Physical Review Letters, 2018, 120, 187002.	7.8	10
42	Metallic islands in the Kondo insulator SmB_6 . Physical Review Research, 2020, 2, .	1.9	10
43	Crystal Growth of Intermetallics. , 2018, , . Magnetic polaron effect in Sr Eu_8As_8 . Physical Review B, 2019, 99, .		10
44	Orientation of the ground-state orbital in CeCoIn_5 . Physical Review B, 2019, 99, .	3.2	9
45	Exploring the effects of dimensionality on the magnetic properties of intermetallic nanowires. Solid State Communications, 2014, 191, 14-18.	1.9	9
46	An FBG Optical Approach to Thermal Expansion Measurements under Hydrostatic Pressure. Sensors, 2017, 17, 2543.	3.8	9
47	Orientation of the ground-state orbital in CeRhIn_5 . Physical Review B, 2019, 99, .	3.2	9
48	Bulk transport paths through defects in floating zone and Al flux grown SmB_6 . Physical Review Materials, 2021, 5, .	1.9	9
49	Ferromagnetic Kondo behavior in UAuBi_2 single crystals. Physical Review B, 2015, 92, .	3.2	8
50	Physical properties of the $\text{Ce}_2\text{MAl}_7\text{Ge}_4$ heavy-fermion compounds (M=Co, Ir, Ni, Pd). Physical Review B, 2016, 93, .	3.2	8
51	Physical properties of EuPtIn_4 intermetallic antiferromagnet. Journal of Magnetism and Magnetic Materials, 2014, 371, 5-9.	2.3	7
52	The role of Ni vacancies on the physical properties of CeNi_2Bi_2 single crystals. Journal of Physics: Conference Series, 2015, 592, 012063.	0.4	7
53	Activity by Ni substitution into noncentrosymmetric ThC_2N_2 . Physical Review B, 2019, 99, .	3.2	7
54	Electron spin resonance of the half-Heusler antiferromagnet GdPdBi . Solid State Communications, 2014, 177, 95-97.	1.9	6

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55	Site specific spin dynamics in BaFe ₂ As ₂ : tuning the ground state by orbital differentiation. Scientific Reports, 2015, 4, 6543.	3.3	6
56	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.	2.1	6
57	Unusual Kondo-hole effect and crystal-field frustration in Nd-doped CeRhIn ₅ . Physical Review B, 2016, 94, .	3.2	6
58	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
59	Robust Narrow-Gap Semiconducting Behavior in Square-Net La ₃ Cd ₂ As ₆ . Chemistry of Materials, 2021, 33, 4122-4127.	6.7	6
60	Anharmonic rattling vibrations effects in the ESR of Er ³⁺ -doped SmB ₆ Kondo insulator. AIP Advances, 2017, 7, 055709.	1.3	5
61	Synthesis and characterization of the heavy-fermion compound CePtAl ₄ Ge ₂ . Journal of Alloys and Compounds, 2018, 738, 550-555.	5.5	5
62	Visualization of localized perturbations on a (001) surface of the ferromagnetic semimetal EuB_6 . Physical Review B, 2020, 101, .	3.2	5
63	Electronic and magnetic properties of stoichiometric CeAuBi ₂ . Physical Review B, 2020, 101, .	3.2	5
64	Comparative Scanning Tunneling Microscopy Study on Hexaborides. Physica Status Solidi (B): Basic Research, 2021, 258, 2000022.	1.5	5
65	Quantum oscillations in EuFeAs_2 single crystals. Physical Review B, 2014, 90, .	3.2	4
66	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
67	High field nuclear magnetic resonance in transition metal substituted BaFe ₂ As ₂ . Journal of Applied Physics, 2014, 115, 17D711.	2.5	4
68	Ta ^x Hf ^x B: a new FeB-prototype superconductor. Superconductor Science and Technology, 2015, 28, 095016.	3.5	4
69	Systematic manipulation of the surface conductivity of CePtA_4G_2 . Physical Review B, 2021, 103, .	3.2	4
70	Systematic manipulation of the surface conductivity of SmB ₆ . Physical Review Research, 2021, 3, .	3.6	4
71	Microscopic probe of magnetic polarons in antiferromagnetic Eu ₅ In ₂ Sb ₆ . Physical Review B, 2022, 105, .	3.2	4
72	Nuclear magnetic resonance investigation of the heavy fermion system Ce ₂ CoAl ₇ Ge ₄ . Physical Review B, 2017, 96, .	3.2	3

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73	High-pressure studies on heavy-fermion antiferromagnet CeCuBi ₂ . Journal of Physics Condensed Matter, 2018, 30, 375601.	1.8	3
74	Putative hybridization gap in CaMn_2As_2 under applied pressure. Physical Review B, 2019, 100, .	3.2	3
75	Hall-coefficient diagnostics of the surface state in pressurized SmB_6 . Physical Review B, 2020, 101, .	3.6	3
76	Surface excitations relaxation in the Kondo insulator SmB_6 . Physical Review Research, 2021, 3, .	2.5	2
77	Transport critical current measurements on a Cu-substituted BaFe ₂ As ₂ superconductor. Journal of Applied Physics, 2014, 115, 17D704.	0.4	2
78	High pressure and high magnetic field studies of the electronic transport properties of the antiferromagnet $\text{Eu}_3\text{Ir}_4\text{Sn}_{13}$. Journal of Physics: Conference Series, 2015, 592, 012046.	1.8	2
79	Combined external pressure and Cu-substitution studies on BaFe ₂ As ₂ single crystals. Journal of Physics Condensed Matter, 2015, 27, 145701.		2
80	Flux methods for growth of intermetallic single crystals. , 2018, , 49-60.		2
81	Localized magnetic moments in metallic SrB ₆ single crystals. Journal of Physics Condensed Matter, 2019, 31, 065602.	1.8	2
82	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
83	Phase stability in SmB_6 . Physical Review Materials, 2021, 5, .	2.4	2
84	Anomalous remnant magnetization in dilute antiferromagnetic $\text{Gd}_x\text{Y}_{1-x}\text{B}_4$. Physical Review Materials, 2018, 2, .		2
85	Slow crystalline electric field fluctuations in the Kondo lattice SmB_6 . Physical Review B, 2022, 105, .		2
86	Colossal piezoresistance in narrow-gap Eu_5As_8 . Physical Review B, 2022, 106, .		2
87	Site and bond magnetic moments at atomic length scales of the nonsymmorphic antiferromagnet $\text{Eu}_5\text{In}_2\text{Sb}_6$. Physical Review B, 2022, 106, .	0.4	1
88	d magnetism in ThCo_2Sn_2 single crystals. Journal of Physics: Conference Series, 2015, 592, 012053.	3.2	1
89	Magnetotransport properties in the magnetic phase of BaFe_2As_2 (T=Co,Ni) : A magnetic excitations approach. Physical Review B, 2018, 97, .		1
90	Revisiting the Possible $4f^7 5d^1$ Ground State of Gd Impurities in SmB_6 by Electron Spin Resonance. , 2020, , .		1

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91	Electron-beam floating-zone refined UCoGe. Physical Review Materials, 2021, 5, .	2.4	1
92	Narrow-gap semiconducting behavior in antiferromagnetic Eu ₁₁ InSb ₉ . Physical Review Materials, 2021, 5, .	2.4	1
93	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
94	$\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{CeAu} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{ : A new nonsymmorphic antiferromagnetic compound. Physical Review Materials, 2019, 3, .$		
95	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
96	Effects of external pressure on the narrow-gap semiconductor $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Ce} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{ Physical Review B, 2022, 105, .$		
97	Persistence of correlation-driven surface states in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{SmB} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 6 \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{ under pressure. Physical Review B, 2022, 105, .$		
98	Tuning the magnetic anisotropy in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{CeRhIn} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 5 \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{ via Gd substitution. Physical Review B, 2017, 96, .$		
99	Multiple phases with intertwined magnetic and superconducting orders in Nd-doped $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{CeCoIn} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 5 \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{ Physical Review B, 2018, 97, .$		