

# 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	Evidence for a pressure-induced antiferromagnetic quantum critical point in intermediate-valence UTe <sub>2</sub> . Science Advances, 2020, 6, .	4.7	69
2	Co-Substitution Effects on the Fe Valence in the BaFe <sub>2</sub> As <sub>2</sub> Superconducting Compound: A Study of Hard X-Ray Absorption Spectroscopy. Physical Review Letters, 2011, 107, 267402.	2.9	51
3	Imaging emergent heavy Dirac fermions of a topological Kondo insulator. Nature Physics, 2020, 16, 52-56.	6.5	47
4	Anomalous three-dimensional bulk ac conduction within the Kondo gap of SmB <sub>6</sub> single crystals. Physical Review B, 2016, 94, .	1.1	14
5	Single thermodynamic transition at 2 K in superconducting UTe <sub>2</sub> single crystals. Communications Materials, 2022, 3, .	2.9	39
6	Low-temperature conducting state in two candidate topological Kondo insulators: Ce <sub>3</sub> Bi <sub>4</sub> and Ce <sub>3</sub> Bi <sub>3</sub> . Physical Review B, 2016, 94, .	1.4	38
7	Colossal magnetoresistance in a nonsymmorphic antiferromagnetic insulator. Npj Quantum Materials, 2020, 5, .	1.8	38
8	Pressure and chemical substitution effects in the local atomic structure of BaFe <sub>2</sub> As <sub>2</sub> . Physical Review B, 2011, 83, .	1.1	37
9	Quantum Oscillations in Flux-Grown SmB <sub>6</sub> with Embedded Aluminum. Physical Review Letters, 2019, 122, 166401.	2.9	37
10	Transport gap in SmB <sub>6</sub> protected against disorder. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12638-12641.	3.3	35
11	Breakdown of the Kondo insulating state in SmB <sub>6</sub> introducing Sm vacancies. Physical Review B, 2016, 94, .	1.1	34
12	Spatially inhomogeneous superconductivity in UTe <sub>2</sub> . Physical Review B, 2021, 104, .	1.1	31
13	Magnetic and defect probes of the SmB <sub>6</sub> surface state. Science Advances, 2018, 4, eaau4886.	4.7	29
14	Comparing the anomalous Hall effect and the magneto-optical Kerr effect through antiferromagnetic phase transitions in Mn <sub>3</sub> Sn. Applied Physics Letters, 2019, 114, .	1.5	29
15	Pressure-induced quantum phase transitions in a YbB <sub>6</sub> single crystal. Physical Review B, 2015, 92, .	1.1	26
16	Fiber Bragg Grating Dilatometry in Extreme Magnetic Field and Cryogenic Conditions. Sensors, 2017, 17, 2572.	2.1	24
17	Physical properties and magnetic structure of the intermetallic CeCuBi <sub>2</sub> compound. Physical Review B, 2014, 90, .	1.1	22
18	Electron spin resonance of the intermetallic antiferromagnet EuIn <sub>2</sub> As <sub>2</sub> . Physical Review B, 2012, 86, .	1.1	20

#	ARTICLE	IF	CITATIONS
19	Hall effect anomaly and low-temperature metamagnetism in the Kondo compound $\text{CeAgBi}$ . Physical Review B, 2016, 93, .	1.1	11
20	Enhanced Hybridization Sets the Stage for Electronic Nematicity in $\text{CeRhIn}_5$ . Physical Review Letters, 2019, 122, 016402.	2.9	19
21	Spin-texture-driven electrical transport in multi-Q antiferromagnets. Communications Physics, 2021, 4, .	2.0	19
22	Superconducting Properties in Arrays of Nanostructured $\text{In}_2\text{-Gallium}$ . Scientific Reports, 2017, 7, 15306.	1.6	18
23	Magnetic field-tuned Fermi liquid in a Kondo insulator. Nature Communications, 2019, 10, 5487.	5.8	18
24	Synthesis and Characterization of $\text{BaFe}_2\text{As}_2$ Single Crystals Grown by In-flux Technique. Brazilian Journal of Physics, 2013, 43, 223-229.	0.7	17
25	Effects of spin excitons on the surface states of $\text{SmB}_6$ : A photoemission study. Physical Review B, 2016, 94, .	1.1	17
26	Magnetic properties of nearly stoichiometric $\text{CeAuBi}_2$ heavy fermion compound. Journal of Applied Physics, 2015, 117, .	1.1	16
27	Evolution of ground-state wave function in $\text{CeCoIn}_5$ upon Cd or Sn doping. Physical Review B, 2018, 97, .	1.1	16
28	Thermal and magnetoelastic properties of $\text{In}_2$ in the field-induced low-temperature states. Physical Review B, 2020, 102, .	1.1	16
29	spin dynamics in $\text{BaFe}_2\text{As}_2$ . Physical Review B, 2015, 92, .	1.1	15
30	Role of dimensionality in the Kondo state of $\text{CeT}$ . Physical Review B, 2015, 92, .	1.1	14
31	The case of $\text{CeCd}$ . Physical Review B, 2015, 92, .	1.1	14
31	Possible unconventional superconductivity in substituted $\text{BaFe}_2\text{As}_2$ revealed by magnetic pair-breaking studies. Scientific Reports, 2014, 4, 6252.	1.6	14
32	Competing magnetic orders in the superconducting state of heavy-fermion $\text{CeRhIn}_5$ . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5384-5388.	3.3	14
33	Unusual diffusive effects on the ESR of $\text{Nd}^{3+}$ ions in the tunable topologically nontrivial semimetal $\text{YBiPt}$ . Journal of Physics Condensed Matter, 2016, 28, 125601.	0.7	13
34	Evolution of the magnetic properties along the $\text{RCuBi}_2$ ( $\text{R} = \text{Ce, Pr, Nd, Gd, Sm}$ ) series of intermetallic compounds. Journal of Applied Physics, 2014, 115, 17E115.	1.1	12
35	Suppression of dense Kondo state in $\text{CeB}_6$ under pressure. Physica B: Condensed Matter, 2015, 457, 12-16.	1.3	11
36	Electrical transport properties of single-crystal $\text{CaB}_6, \text{SrB}_6$ , and $\text{BaB}_6$ . Physical Review B, 2016, 94, .	1.1	11

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37	Physical properties of $B_6$ single crystals. Physical Review B, 2019, 99, .	1.1	11
38	Raman spectroscopy of f-electron metals: An example of CeB <sub>6</sub> . Physical Review Materials, 2019, 3, .	0.9	11
39	Quantum Critical Scaling in the Disordered Itinerant Ferromagnet UCo <sub>1-x</sub> FexGe. Physical Review Letters, 2016, 117, 237202.	2.9	10
40	Dimensionality tuning of the electronic structure in Fe <sub>3</sub> Ga <sub>4</sub> magnetic materials. Scientific Reports, 2016, 6, 28364.	1.6	10
41	Tuning the Pairing Interaction in a $d$ -Wave Superconductor by Paramagnons Injected through Interfaces. Physical Review Letters, 2018, 120, 187002.	2.9	10
42	Metallic islands in the Kondo insulator $Sr_2\text{SmB}_6$ . Physical Review Research, 2020, 2, .	1.1	10
43	Crystal Growth of Intermetallics. , 2018, , . Magnetic polaron effect in Sr <sub>2</sub> Eu <sub>8</sub> Bi <sub>8</sub> . Physical Review B, 2019, 99, .	1.1	9
44	Exploring the effects of dimensionality on the magnetic properties of intermetallic nanowires. Solid State Communications, 2014, 191, 14-18.	0.9	9
45	An FBG Optical Approach to Thermal Expansion Measurements under Hydrostatic Pressure. Sensors, 2017, 17, 2543.	2.1	9
46	Orientation of the ground-state orbital in $\text{CeCoIn}_5$ and $\text{CeRhIn}_5$ . Physical Review B, 2019, 99, .	1.1	8
47	Bulk transport paths through defects in floating zone and Al flux grown $\text{SmB}_6$ . Physical Review Materials, 2021, 5, .	1.1	8
48	Ferromagnetic Kondo behavior in $\text{UAuBi}_2$ single crystals. Physical Review B, 2015, 92, .	1.1	8
49	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, .	1.0	7
50	Physical properties of $\text{EuPtIn}_4$ intermetallic antiferromagnet. Journal of Magnetism and Magnetic Materials, 2014, 371, 5-9.	0.3	7
51	The role of Ni vacancies on the physical properties of $\text{CeNi}_2\text{Bi}_2$ single crystals. Journal of Physics: Conference Series, 2015, 592, 012063.	1.1	7
52	Activity by Ni substitution into noncentrosymmetric $\text{ThC}_2\text{N}_2$ . Physical Review B, 2019, 99, .	0.9	6
53	Electron spin resonance of the half-Heusler antiferromagnet $\text{GdPdBi}$ . Solid State Communications, 2014, 177, 95-97.	0.9	6

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55	Site specific spin dynamics in BaFe <sub>2</sub> As <sub>2</sub> : tuning the ground state by orbital differentiation. Scientific Reports, 2015, 4, 6543.	1.6	6
56	Superconductivity in the Th <sub>0.93</sub> Zr <sub>0.07</sub> B <sub>12</sub> compound with UB <sub>12</sub> prototype structure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2498-2501.	0.9	6
57	Unusual Kondo-hole effect and crystal-field frustration in Nd-doped CeRhIn <sub>5</sub> . Physical Review B, 2016, 94, .	1.1	6
58	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
59	Robust Narrow-Gap Semiconducting Behavior in Square-Net La <sub>3</sub> Cd <sub>2</sub> As <sub>6</sub> . Chemistry of Materials, 2021, 33, 4122-4127.	3.2	6
60	Anharmonic rattling vibrations effects in the ESR of Er <sup>3+</sup> -doped SmB <sub>6</sub> Kondo insulator. AIP Advances, 2017, 7, 055709.	0.6	5
61	Synthesis and characterization of the heavy-fermion compound CePtAl <sub>4</sub> Ge <sub>2</sub> . Journal of Alloys and Compounds, 2018, 738, 550-555.	2.8	5
62	Visualization of localized perturbations on a (001) surface of the ferromagnetic semimetal $\text{EuB}_6$ . Physical Review B, 2020, 101, .		
63	Electronic and magnetic properties of stoichiometric CeAuBi <sub>2</sub> . Physical Review B, 2020, 101, .	1.1	5
64	Comparative Scanning Tunneling Microscopy Study on Hexaborides. Physica Status Solidi (B): Basic Research, 2021, 258, 2000022.	0.7	5
65	Quantum oscillations in $\text{EuFeAs}_2$ single crystals. Physical Review B, 2014, 90, .	1.1	4
66	Pressure effects on magnetic pair-breaking in Mn- and Eu-substituted BaFe <sub>2</sub> As <sub>2</sub> . Journal of Applied Physics, 2014, 115, 17D702.	1.1	4
67	High field nuclear magnetic resonance in transition metal substituted BaFe <sub>2</sub> As <sub>2</sub> . Journal of Applied Physics, 2014, 115, 17D711.	1.1	4
68	Ta <sub>1-x</sub> Hf <sub>x</sub> B: a new FeB-prototype superconductor. Superconductor Science and Technology, 2015, 28, 095016.	1.8	4
69	Systematic manipulation of the surface conductivity of $\text{CePtA}_4\text{G}_2$ . Physical Review B, 2021, 103, .	1.1	4
70	Systematic manipulation of the surface conductivity of SmB <sub>6</sub> . Physical Review Research, 2021, 3, .	1.3	4
71	Microscopic probe of magnetic polarons in antiferromagnetic Eu <sub>5</sub> In <sub>2</sub> Sb <sub>6</sub> . Physical Review B, 2022, 105, .	1.1	4
72	Nuclear magnetic resonance investigation of the heavy fermion system Ce <sub>2</sub> CoAl <sub>7</sub> Ge <sub>4</sub> . Physical Review B, 2017, 96, .	1.1	3

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73	High-pressure studies on heavy-fermion antiferromagnet CeCuBi <sub>2</sub> . Journal of Physics Condensed Matter, 2018, 30, 375601.	0.7	3
74	Putative hybridization gap in $\text{CaMn}_2\text{P}_2$ under applied pressure. Physical Review B, 2019, 100, .		
75	Hall-coefficient diagnostics of the surface state in pressurized $\text{SmB}_6$ . Physical Review B, 2020, 101, .	1.1	3
76	Surface excitations relaxation in the Kondo insulator $\text{SmB}_6$ . Physical Review Research, 2021, 3, .	1.3	3
77	Transport critical current measurements on a Cu-substituted BaFe <sub>2</sub> As <sub>2</sub> superconductor. Journal of Applied Physics, 2014, 115, 17D704.	1.1	2
78	High pressure and high magnetic field studies of the electronic transport properties of the antiferromagnet Eu <sub>3</sub> Ir <sub>4</sub> Sn <sub>13</sub> . Journal of Physics: Conference Series, 2015, 592, 012046.	0.3	2
79	Combined external pressure and Cu-substitution studies on BaFe <sub>2</sub> As <sub>2</sub> single crystals. Journal of Physics Condensed Matter, 2015, 27, 145701.	0.7	2
80	Flux methods for growth of intermetallic single crystals. , 2018, , 49-60.		2
81	Localized magnetic moments in metallic SrB <sub>6</sub> single crystals. Journal of Physics Condensed Matter, 2019, 31, 065602.	0.7	2
82	Exploring itinerant states in divalent hexaborides using rare-earth <i>L</i> edge resonant inelastic x-ray scattering. Journal of Physics Condensed Matter, 2020, 32, 135601.	0.7	2
83	Phase stability in $\text{SmB}_6$ . Physical Review Materials, 2021, 5, .		
84	Anomalous remnant magnetization in dilute antiferromagnetic $\text{Gd}_x\text{Y}_{1-x}\text{B}_4$ . Physical Review Materials, 2018, 2, .	0.9	2
85	Slow crystalline electric field fluctuations in the Kondo lattice $\text{SmB}_6$ . Physical Review B, 2022, 105, .	1.1	
86	Colossal piezoresistance in narrow-gap $\text{Eu}_{15}\text{P}_8$ . Physical Review B, 2022, 106, .		
87	Crystal field splitting and magnetic structure at atomic length scales of the nonsymmorphic antiferromagnet $\text{Eu}_5\text{Sb}_6$ . Physical Review B, 2022, 106, .	1.1	2
88	3 <i>d</i> magnetism in ThCo <sub>2</sub> Sn <sub>2</sub> single crystals. Journal of Physics: Conference Series, 2015, 592, 012053.	0.3	1
89	Magnetotransport properties in the magnetic phase of BaFe <sub>2</sub> As <sub>2</sub> (T=Co,Ni) : A magnetic excitations approach. Physical Review B, 2018, 97, .	1.1	1
90	Revisiting the Possible 4f <sup>7</sup> 5d <sup>1</sup> Ground State of Gd Impurities in SmB <sub>6</sub> by Electron Spin Resonance. , 2020, , .		1

