

Alexandre Pourret

List of Publications by Year in descending order

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50
papers

1,591
citations

304743

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302126

39
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51
all docs

51
docs citations

51
times ranked

1611
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous anisotropy of the lower critical field and Meissner effect in UTe_2 . Physical Review B, 2021, 103, .		
2	Field-Induced Superconductivity near the Superconducting Critical Pressure in UTe_2 . Journal of the Physical Society of Japan, 2021, 90, 074705.	1.6	18
3	Driving multiphase superconductivity. Science, 2021, 373, 962-963.	12.6	6
4	Analysis of the ghost and mirror fields in the Nernst signal induced by superconducting fluctuations. Physical Review B, 2020, 102, .	3.2	2
5	Anisotropy of the Upper Critical Field in the Heavy-Fermion Superconductor UTe_2 under Pressure. Journal of the Physical Society of Japan, 2020, 89, 053707.	1.6	32
6	Fermi-Surface Instability in the Heavy-Fermion Superconductor UTe_2 . Physical Review Letters, 2020, 124, 086601.	7.8	27
7	Evidence of Fermi surface reconstruction at the metamagnetic transition of the strongly correlated superconductor UTe_2 . Physical Review Research, 2020, 2, .	3.6	20
8	Field-Reentrant Superconductivity Close to a Metamagnetic Transition in the Heavy-Fermion Superconductor UTe_2 . Journal of the Physical Society of Japan, 2019, 88, 063707.	1.6	111
9	Magnetic-Field-Induced Phenomena in the Paramagnetic Superconductor UTe_2 . Journal of the Physical Society of Japan, 2019, 88, 063705.	1.6	46
10	Transport Spectroscopy of the Field Induced Cascade of Lifshitz Transitions in YbRh_2Si_2 . Journal of the Physical Society of Japan, 2019, 88, 104702.	1.6	5
11	Unconventional Superconductivity in Heavy Fermion UTe_2 . Journal of the Physical Society of Japan, 2019, 88, 043702.	1.6	173
12	Multiple superconducting phases in a nearly ferromagnetic system. Communications Physics, 2019, 2, .	5.3	87
13	Dimensionality Driven Enhancement of Ferromagnetic Superconductivity in URhGe . Physical Review Letters, 2018, 120, 037001.	7.8	26
14	Anisotropic B - T Phase Diagram of Non-Kramers System $\text{PrRh}_2\text{Zn}_{20}$. Journal of the Physical Society of Japan, 2017, 86, 044711.	1.6	19
15	Microscopic Magnetic Properties of the Itinerant Metamagnet UCoAl by X-ray Magnetic Circular Dichroism. Journal of the Physical Society of Japan, 2017, 86, 024712.	1.6	8
16	Fermi Surfaces in the Antiferromagnetic, Paramagnetic and Polarized Paramagnetic States of CeRh_2Si_2 Compared with Quantum Oscillation Experiments. Journal of the Physical Society of Japan, 2017, 86, 084702.	1.6	5
17	Collapse of Ferromagnetism and Fermi Surface Instability near Reentrant Superconductivity of URhGe . Physical Review Letters, 2016, 117, 046401.	7.8	33
18	Field-Induced Lifshitz Transition without Metamagnetism in CeIrIn_5 . Physical Review Letters, 2016, 116, 037202.	7.8	35

#	ARTICLE	IF	CITATIONS
19	Thermoelectric power quantum oscillations in the ferromagnet $\text{UCeMn}_2\text{Si}_2$. Physical Review B, 2016, 93, .		
20	Lifshitz Transitions in the Ferromagnetic Superconductor UCoGe . Physical Review Letters, 2016, 117, 206401.	7.8	26
21	Fermi surface instabilities in CeRh_2Si_2 at high magnetic field and pressure. Physical Review B, 2015, 91, .	3.2	8
22	Non-Fermi-liquid nature and exotic thermoelectric power in the heavy-fermion superconductor URuSi_3 . Physical Review B, 2015, 92, .	3.2	8
23	Phase diagram of CeRh_2Si_2 under pressure studied by thermopower measurements. Journal of Physics: Conference Series, 2015, 592, 012002.	0.4	0
24	Fermi surface in the hidden-order state of URuSi_2 under intense pulsed magnetic fields up to 81 T. Physical Review B, 2014, 89, .		
25	Lifshitz transition and metamagnetism: Thermoelectric studies of CeRuSi_2 . Physical Review B, 2014, 89, .	3.2	16
26	Multiple nodeless superconducting gaps in optimally doped SrTiO_3 . Physical Review B, 2014, 90, .	3.2	30
27	Spin fluctuation and Fermi surface instability in ferromagnetic superconductors. Comptes Rendus Physique, 2014, 15, 630-639.	0.9	10
28	Quantum Criticality and Lifshitz Transition in the Ising System CeRu_2Si_2 : Comparison with YbRh_2Si_2 . Journal of the Physical Society of Japan, 2014, 83, 061002.	1.6	10
29	Metamagnetic Transition in UCoAl Probed by Thermoelectric Measurements. Physical Review Letters, 2013, 110, 116404.	7.8	16
30	Fermi Surface Reconstruction inside the Hidden Order Phase of URuSi_2 Probed by Thermoelectric Measurements. Journal of the Physical Society of Japan, 2013, 82, 034706.	1.6	17
31	Magnetic Polarization and Fermi Surface Instability: Case of YbRh_2Si_2 . Journal of the Physical Society of Japan, 2013, 82, 053704.	1.6	31
32	Magnetic Field Driven Electronic Singularities through Metamagnetic Phenomena: Case of the Heavy Fermion Antiferromagnet $\text{Ce}(\text{Ru}_{0.92}\text{Rh}_{0.08})_2\text{Si}_2$. Journal of the Physical Society of Japan, 2013, 82, 054704.	1.6	4
33	Thermoelectricity of the ferromagnetic superconductor UCoGe . Physical Review B, 2012, 85, .	3.2	20
34	Characterization of the Mysterious High Field Ordered Phase around $H \sim 111$ and Finding of a New Phase Boundary in $\text{PrFe}_4\text{P}_{12}$. Journal of the Physical Society of Japan, 2012, 81, 084703.	1.6	2
35	Strong correlation and low carrier density in FeTeSe . Physical Review B, 2011, 83, .	3.2	42
36	Mott and Efros-Shklovskii Variable Range Hopping in CdSe Quantum Dots Films. ACS Nano, 2010, 4, 5211-5216.	14.6	113

#	ARTICLE	IF	CITATIONS
37	Nernst effect as a probe of superconducting fluctuations in disordered thin films. New Journal of Physics, 2009, 11, 055071.	2.9	36
38	Magnetoresistance of CdSe/CdS quantum dot films. Applied Physics Letters, 2009, 95, 142105.	3.3	9
39	Atomic Layer Deposition of ZnO in Quantum Dot Thin Films. Advanced Materials, 2009, 21, 232-235.	21.0	91
40	Nernst effect in the phase-fluctuating superconductor InO_x . Europhysics Letters, 2008, 83, 57005.	2.0	27
41	Thickness-tuned superconductor-insulator transitions under magnetic field in NbSi . Physical Review B, 2008, 78, .	3.2	20
42	The Ground State of $\text{PrFe}_4\text{P}_{12}$ Probed by Thermal and Thermoelectric Transport. Journal of the Physical Society of Japan, 2008, 77, 102-107.	1.6	6
43	Length scale for the superconducting Nernst signal above T_c in NbSi . Physical Review B, 2007, 76, .	3.2	48
44	Giant Nernst effect in heavy-electron metals. Journal of Magnetism and Magnetic Materials, 2007, 310, 446-448.	2.3	5
45	Thickness and Magnetic Field-tuned Superconductor-Insulator Transitions in $\text{a-Nb}_{15}\text{Si}_{85}$. AIP Conference Proceedings, 2006, , .	0.4	0
46	Localization of 4 f State in YbRh_2Si_2 under Magnetic Field and High Pressure: Comparison with CeRh_2Si_2 . Journal of the Physical Society of Japan, 2006, 75, 114709.	1.6	80
47	Observation of the Nernst signal generated by fluctuating Cooper pairs. Nature Physics, 2006, 2, 683-686.	16.7	109
48	Magnetic-field-induced quantum superconductor-insulator transition in $\text{Nb}_{0.15}\text{Si}_{0.85}$. Physical Review B, 2006, 73, .	3.2	59
49	Drastic Change in Transport of Entropy with Quadrupolar Ordering in $\text{PrFe}_4\text{P}_{12}$. Physical Review Letters, 2006, 96, 176402.	7.8	36
50	High-pressure phase diagram of YbRh_2Si_2 . Physica B: Condensed Matter, 2005, 359-361, 20-22.	2.7	10