

# Alexandre Pourret

## List of Publications by Year in descending order

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50  
papers

1,591  
citations

304743

22  
h-index

302126

39  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1611  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unconventional Superconductivity in Heavy Fermion $\text{UTe}_2$ . Journal of the Physical Society of Japan, 2019, 88, 043702.	1.6	173
2	Mott and Efros-Shklovskii Variable Range Hopping in CdSe Quantum Dots Films. ACS Nano, 2010, 4, 5211-5216.	14.6	113
3	Field-Reentrant Superconductivity Close to a Metamagnetic Transition in the Heavy-Fermion Superconductor $\text{UTe}_2$ . Journal of the Physical Society of Japan, 2019, 88, 063707.	1.6	111
4	Observation of the Nernst signal generated by fluctuating Cooper pairs. Nature Physics, 2006, 2, 683-686.	16.7	109
5	Atomic Layer Deposition of ZnO in Quantum Dot Thin Films. Advanced Materials, 2009, 21, 232-235.	21.0	91
6	Multiple superconducting phases in a nearly ferromagnetic system. Communications Physics, 2019, 2, .	5.3	87
7	Localization of 4 f State in $\text{YbRh}_2\text{Si}_2$ under Magnetic Field and High Pressure: Comparison with $\text{CeRh}_2\text{Si}_2$ . Journal of the Physical Society of Japan, 2006, 75, 114709.	1.6	80
8	Magnetic-field-induced quantum superconductor-insulator transition in $\text{Nb}_{0.15}\text{Si}_{0.85}$ . Physical Review B, 2006, 73, .	3.2	59
9	Length scale for the superconducting Nernst signal above $\text{Nb}_{0.15}\text{Si}_{0.85}$ . Physical Review B, 2007, 76, .	3.2	48
10	Magnetic-Field-Induced Phenomena in the Paramagnetic Superconductor $\text{UTe}_2$ . Journal of the Physical Society of Japan, 2019, 88, 063705.	1.6	46
11	Strong correlation and low carrier density in $\text{FeTe}_{0.6}\text{Se}_{0.4}$ seen from its ther. Physical Review B, 2011, 83, .	4.2	42
12	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
13	Nernst effect as a probe of superconducting fluctuations in disordered thin films. New Journal of Physics, 2009, 11, 055071.	2.9	36
14	Field-Induced Lifshitz Transition without Metamagnetism in $\text{CeIrIn}_5$ . Physical Review Letters, 2016, 116, 037202.	7.8	35
15	Collapse of Ferromagnetism and Fermi Surface Instability near Reentrant Superconductivity of $\text{URhGe}$ . Physical Review Letters, 2016, 117, 046401.	7.8	33
16	Anisotropy of the Upper Critical Field in the Heavy-Fermion Superconductor $\text{UTe}_2$ under Pressure. Journal of the Physical Society of Japan, 2020, 89, 053707.	1.6	32
17	Magnetic Polarization and Fermi Surface Instability: Case of $\text{YbRh}_2\text{Si}_2$ . Journal of the Physical Society of Japan, 2013, 82, 053704.	1.6	31
18	Multiple nodeless superconducting gaps in optimally doped $\text{Nb}_3\text{O}_3$ . Physical Review B, 2014, 90, .	3.2	30

#	ARTICLE	IF	CITATIONS
19	Nernst effect in the phase-fluctuating superconductor $\text{InO}_x$ . Europhysics Letters, 2008, 83, 57005.	2.0	27
20	Fermi-Surface Instability in the Heavy-Fermion Superconductor $\text{UTe}_2$ . Physical Review Letters, 2020, 124, 086601.	7.8	27
21	Lifshitz Transitions in the Ferromagnetic Superconductor $\text{UCoGe}$ . Physical Review Letters, 2016, 117, 206401.	7.8	26
22	Dimensionality Driven Enhancement of Ferromagnetic Superconductivity in $\text{URhGe}$ . Physical Review Letters, 2018, 120, 037001.	7.8	26
23	Thickness-tuned superconductor-insulator transitions under magnetic field in $\text{a-NbSi}$ . Physical Review B, 2008, 78, .	3.2	20
24	Thermoelectricity of the ferromagnetic superconductor $\text{UCoGe}$ . Physical Review B, 2012, 85, .	3.2	20
25	Evidence of Fermi surface reconstruction at the metamagnetic transition of the strongly correlated superconductor $\text{UTe}_2$ . Physical Review Research, 2020, 2, .	3.6	20
26	Thermoelectric power quantum oscillations in the ferromagnet $\text{UGe}_2$ . Physical Review B, 2016, 93, .	3.2	19
27	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
28	Anomalous anisotropy of the lower critical field and Meissner effect in $\text{UTe}_2$ . Physical Review B, 2021, 103, .	3.2	18
29	Field-Induced Superconductivity near the Superconducting Critical Pressure in $\text{UTe}_2$ . Journal of the Physical Society of Japan, 2021, 90, 074705.	1.6	18
30	Fermi Surface Reconstruction inside the Hidden Order Phase of $\text{URu}_2\text{Si}_2$ Probed by Thermoelectric Measurements. Journal of the Physical Society of Japan, 2013, 82, 034706.	1.6	17
31	Metamagnetic Transition in $\text{UCoAl}$ Probed by Thermoelectric Measurements. Physical Review Letters, 2013, 110, 116404.	7.8	16
32	Lifshitz transition and metamagnetism: Thermoelectric studies of $\text{CeRu}_2\text{Si}_2$ . Physical Review B, 2014, 90, .	3.2	16
33	Fermi surface in the hidden-order state of $\text{URu}_2\text{Si}_2$ under intense pulsed magnetic fields up to 81 T. Physical Review B, 2014, 89, .	3.2	16
34	High-pressure phase diagram of $\text{YbRh}_2\text{Si}_2$ . Physica B: Condensed Matter, 2005, 359-361, 20-22.	2.7	10
35	Spin fluctuation and Fermi surface instability in ferromagnetic superconductors. Comptes Rendus Physique, 2014, 15, 630-639.	0.9	10
36	Quantum Criticality and Lifshitz Transition in the Ising System $\text{CeRu}_2\text{Si}_2$ : Comparison with $\text{YbRh}_2\text{Si}_2$ . Journal of the Physical Society of Japan, 2014, 83, 061002.	1.6	10

#	ARTICLE	IF	CITATIONS
37	Magnetoresistance of CdSe/CdS quantum dot films. Applied Physics Letters, 2009, 95, 142105.	3.3	9
38	Fermi surface instabilities in CeRh <sub>2</sub> Si <sub>2</sub> at high magnetic field and pressure. Physical Review B, 2015, 91, .	3.2	8
39	Non-Fermi-liquid nature and exotic thermoelectric power in the heavy-fermion superconductor UBe <sub>13</sub> . Physical Review B, 2015, 92, .	3.2	8
40	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
41	The Ground State of PrFe <sub>4</sub> P <sub>12</sub> Probed by Thermal and Thermoelectric Transport. Journal of the Physical Society of Japan, 2008, 77, 102-107.	1.6	6
42	Driving multiphase superconductivity. Science, 2021, 373, 962-963.	12.6	6
43	Giant Nernst effect in heavy-electron metals. Journal of Magnetism and Magnetic Materials, 2007, 310, 446-448.	2.3	5
44	Fermi Surfaces in the Antiferromagnetic, Paramagnetic and Polarized Paramagnetic States of CeRh <sub>2</sub> Si <sub>2</sub> Compared with Quantum Oscillation Experiments. Journal of the Physical Society of Japan, 2017, 86, 084702.	1.6	5
45	Transport Spectroscopy of the Field Induced Cascade of Lifshitz Transitions in YbRh <sub>2</sub> Si <sub>2</sub> . Journal of the Physical Society of Japan, 2019, 88, 104702.	1.6	5
46	Magnetic Field Driven Electronic Singularities through Metamagnetic Phenomena: Case of the Heavy Fermion Antiferromagnet Ce(Ru <sub>0.92</sub> Rh <sub>0.08</sub> ) <sub>2</sub> Si <sub>2</sub> . Journal of the Physical Society of Japan, 2013, 82, 054704.	1.6	4
47	Characterization of the Mysterious High Field Ordered Phase around $H \sim [111]$ and Finding of a New Phase Boundary in PrFe <sub>4</sub> P <sub>12</sub> . Journal of the Physical Society of Japan, 2012, 81, 084703.	1.6	2
48	Analysis of the ghost and mirror fields in the Nernst signal induced by superconducting fluctuations. Physical Review B, 2020, 102, .	3.2	2
49	Thickness and Magnetic Field-tuned Superconductor-Insulator Transitions in a-Nb <sub>15</sub> Si <sub>85</sub> . AIP Conference Proceedings, 2006, , .	0.4	0
50	Phase diagram of CeRh <sub>2</sub> Si <sub>2</sub> under pressure studied by thermopower measurements. Journal of Physics: Conference Series, 2015, 592, 012002.	0.4	0