

Akito Sakai

List of Publications by Year in descending order

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34
papers

1,746
citations

516710

16
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477307

29
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36
all docs

36
docs citations

36
times ranked

1367
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant anomalous Nernst effect and quantum-critical scaling in a ferromagnetic semimetal. Nature Physics, 2018, 14, 1119-1124.	16.7	366
2	Electrical manipulation of a topological antiferromagnetic state. Nature, 2020, 580, 608-613.	27.8	212
3	Kondo Effects and Multipolar Order in the Cubic $\text{PrTi}_2\text{Al}_{20}$ ($\text{Ti} = \text{Ti}, \text{V}$). Journal of the Physical Society of Japan, 2011, 80, 063701.	1.6	198
4	Iron-based binary ferromagnets for transverse thermoelectric conversion. Nature, 2020, 581, 53-57.	27.8	162
5	Heavy-Fermion Superconductivity in the Quadrupole Ordered State of PrV_2 . Physical Review Letters, 2014, 113, 267001.	7.8	157
6	Superconductivity in the Ferroquadrupolar State in the Quadrupolar Kondo Lattice $\text{PrTi}_2\text{Al}_{20}$. Journal of the Physical Society of Japan, 2012, 81, 083702.	1.6	131
7	Ferroquadrupolar ordering in $\text{PrTi}_2\text{Al}_{20}$. Physical Review B, 2012, 86, 080401.	3.2	85
8	Structure and physical properties of single crystal $\text{PrCr}_2\text{Al}_{20}$ and $\text{CeM}_2\text{Al}_{20}$ ($M = \text{V}, \text{Cr}$): A comparison of compounds adopting the $\text{CeCr}_2\text{Al}_{20}$ structure type. Journal of Solid State Chemistry, 2012, 196, 274-281.	2.9	61
9	Anomalous transverse response of Co_2 and universality of the room-temperature Co_2 . Physical Review B, 2020, 101, 080401.	3.2	59
10	μSR Evidence of Nonmagnetic Order and ^{141}Pr Hyperfine-Enhanced Nuclear Magnetism in the Cubic PrTi_3 Ground Doublet System $\text{PrTi}_2\text{Al}_{20}$. Journal of the Physical Society of Japan, 2011, 80, 113703.	1.6	35
11	Hybridization effect in $\text{PrTi}_2\text{Al}_{20}$. Physical Review B, 2012, 86, 080401.	3.2	35
12	Large anomalous Nernst effect and nodal plane in an iron-based kagome ferromagnet. Science Advances, 2022, 8, eabk1480.	10.3	35
13	Unveiling hidden multipolar orders with magnetostriction. Nature Communications, 2019, 10, 4092.	12.8	33
14	Field-induced quadrupolar quantum criticality in PrV_2 . Physical Review B, 2015, 91, .	2.2	30
15	NMR Observation of Ferro-Quadrupole Order in $\text{PrTi}_2\text{Al}_{20}$. Journal of the Physical Society of Japan, 2016, 85, 113703.	1.6	23
16	Evidence of a High-Field Phase in $\text{PrV}_2\text{Al}_{20}$ in a [100] Magnetic Field. Journal of the Physical Society of Japan, 2013, 82, 043705.	1.6	22
17	Superconducting gap structure of CeIrIn_5 from field-angle-resolved measurements of its specific heat. Physical Review B, 2012, 85, .	3.2	16
18	Heavy Fermion Superconductivity under Pressure in the Quadrupole System $\text{PrTi}_2\text{Al}_{20}$. , 2014, . , .		16

#	ARTICLE	IF	CITATIONS
19	Field-Induced Switching of Ferro-Quadrupole Order Parameter in PrTi ₂ Al ₂₀ . Journal of the Physical Society of Japan, 2019, 88, 084707.	1.6	15
20	Unveiling Quadrupolar Kondo Effect in the Heavy Fermion Superconductor PrV ₂ Al ₂₀ . Journal of the Physical Society of Japan, 2020, 89, 013704.	1.6	9
21	Giant Anisotropic Magnetoresistance due to Purely Orbital Rearrangement in the Quadrupolar Heavy Fermion Superconductor $\langle \mathbf{m} \rangle = \langle \mathbf{m}_x \rangle \langle \mathbf{m}_y \rangle \langle \mathbf{m}_z \rangle$ PrV ₂ Al ₂₀ . Physical Review Letters, 2019, 122, 256601.	7.8	8
22	Crystal Structure in Quadrupolar Kondo Candidate Pr <i>Tr</i> ₂ Al ₂₀ (i = Ti and V). Journal of the Physical Society of Japan, 2019, 88, 015001.	1.6	7
23	Field-Orientation Effect on Ferro-Quadrupole Order in PrTi ₂ Al ₂₀ . Journal of the Physical Society of Japan, 2020, 89, 043701.	1.6	6
24	Low temperature transport properties of the quadrupolar Kondo lattice system PrTi ₂ Al ₂₀ . Journal of the Korean Physical Society, 2013, 63, 398-400.	0.7	5
25	Heavy Fermion Superconductivity in Non-magnetic Cage Compound PrV ₂ Al ₂₀ . Journal of Physics: Conference Series, 2016, 683, 012013.	0.4	5
26	Low Temperature Properties of the Cubic Kondo Lattice Systems SmTr ₂ Al ₂₀ (Tr = Ti, V, Cr). Journal of the Physical Society of Japan, 2012, 81, SB049.	1.6	4
27	Shubnikov-de Haas Oscillation in the cubic $\hat{\Gamma}_3$ -based heavy fermion superconductor PrV ₂ Al ₂₀ . Journal of Physics: Conference Series, 2015, 592, 012026.	0.4	4
28	Strong orbital fluctuations in multipolar ordered states of PrV ₂ Al ₂₀ . Journal of Magnetism and Magnetic Materials, 2016, 400, 66-69.	2.3	3
29	Magnetization and Thermal Expansion Properties of Quantum Spin Ice Candidate Pr ₂ Zr ₂ O ₇ . , 2020, , .		2
30	Field Dependence of the Specific Heat in a Heavy-Fermion Superconductor CeIrIn ₅ . Journal of the Physical Society of Japan, 2012, 81, SB014.	1.6	1
31	Microscopic Evidence for Long-Range Magnetic Ordering in the $\hat{\Gamma}_8$ Ground Quartet Systems SmTr ₂ Al ₂₀ (Tr: Ti, V, Cr). Journal of the Physical Society of Japan, 2012, 81, SB050.	1.6	1
32	Superconducting Properties of the Ferroquadrupolar Cubic $\hat{\Gamma}_3$ Compound PrTi ₂ Al ₂₀ . , 2014, , .		0
33	Crystal Structure and Magnetic Properties of Non-Stoichiometric Co ₂ MnGa Heusler Alloy. Materials Science Forum, 2019, 966, 319-324.	0.3	0
34	Sample Dependence of the Quadrupolar Transition in the Nonmagnetic Cubic $\hat{\Gamma}_3$ Compound PrV ₂ Al ₂₀ . , 2014, , .		0