

Satoru Nakatsuji

List of Publications by Year in descending order

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308
papers

14,564
citations

19657

61
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114
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317
all docs

317
docs citations

317
times ranked

7336
citing authors

#	ARTICLE	IF	CITATIONS
1	Large anomalous Hall effect in a non-collinear antiferromagnet at room temperature. Nature, 2015, 527, 212-215.	27.8	1,009
2	Spin Disorder on a Triangular Lattice. Science, 2005, 309, 1697-1700.	12.6	457
3	Evidence for magnetic Weyl fermions in a correlated metal. Nature Materials, 2017, 16, 1090-1095.	27.5	450
4	Large anomalous Nernst effect at room temperature in a chiral antiferromagnet. Nature Physics, 2017, 13, 1085-1090.	16.7	432
5	Giant anomalous Nernst effect and quantum-critical scaling in a ferromagnetic semimetal. Nature Physics, 2018, 14, 1119-1124.	16.7	366
6	Time-reversal symmetry breaking and spontaneous Hall effect without magnetic dipole order. Nature, 2010, 463, 210-213.	27.8	352
7	Quasi-Two-Dimensional Mott Transition System $\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4$. Physical Review Letters, 2000, 84, 2666-2669.	7.8	347
8	Metallic Spin-Liquid Behavior of the Geometrically Frustrated Kondo Lattice $\text{Pr}_2\text{Ir}_2\text{O}_7$. Physical Review Letters, 2006, 96, 087204.	7.8	312
9	Superconductivity and quantum criticality in the heavy-fermion system $\text{U}^2\text{-YbAlB}_4$. Nature Physics, 2008, 4, 603-607.	16.7	307
10	Metamagnetism and Critical Fluctuations in High Quality Single Crystals of the Bilayer Ruthenate $\text{Sr}_3\text{Ru}_2\text{O}_7$. Physical Review Letters, 2001, 86, 2661-2664.	7.8	272
11	Large magneto-optical Kerr effect and imaging of magnetic octupole domains in an antiferromagnetic metal. Nature Photonics, 2018, 12, 73-78.	31.4	260
12	Magnetic and magnetic inverse spin Hall effects in a non-collinear antiferromagnet. Nature, 2019, 565, 627-630.	27.8	252
13	Giant Anomalous Hall Effect in the Chiral Antiferromagnet Mn_3Ge . Physical Review Applied, 2016, 5, .	3.8	249
14	Crystal and magnetic structure of Ca_2RuO_4 : Magnetoelastic coupling and the metal-insulator transition. Physical Review B, 1998, 58, 847-861.	3.2	241
15	Ground state in $\text{Sr}_3\text{Ru}_2\text{O}_7$: Fermi liquid close to a ferromagnetic instability. Physical Review B, 2000, 62, R6089-R6092.	3.2	226
16	Structural and magnetic aspects of the metal-insulator transition in $\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4$. Physical Review B, 2001, 63, .	3.2	225
17	Unconventional Anomalous Hall Effect Enhanced by a Noncoplanar Spin Texture in the Frustrated Kondo Lattice $\text{Pr}_2\text{Ir}_2\text{O}_7$. Physical Review Letters, 2007, 98, 057203.	7.8	223
18	Ca_2RuO_4 : New Mott Insulators of Layered Ruthenate. Journal of the Physical Society of Japan, 1997, 66, 1868-1871.	1.6	217

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19	Electrical manipulation of a topological antiferromagnetic state. Nature, 2020, 580, 608-613.	27.8	212
20	Quantum Criticality Without Tuning in the Mixed Valence Compound $\text{Pr}_2\text{-YbAlB}_4$. Science, 2011, 331, 316-319.	12.6	199
21	Kondo Effects and Multipolar Order in the Cubic $\text{Pr}_2\text{Tr}_2\text{Al}_{20}$ ($\text{Tr}=\text{Ti, V}$). Journal of the Physical Society of Japan, 2011, 80, 063701.	1.6	198
22	Spin-Orbit Coupling in the Mott Insulator Ca_2RuO_4 . Physical Review Letters, 2001, 87, 077202.	7.8	171
23	Iron-based binary ferromagnets for transverse thermoelectric conversion. Nature, 2020, 581, 53-57.	27.8	162
24	Heavy-Fermion Superconductivity in the Quadrupole Ordered State of PrV_2 . Physical Review Letters, 2014, 113, 267001.	7.8	157
25	Quantum fluctuations in spin-ice-like $\text{Pr}_2\text{Zr}_2\text{O}_7$. Nature Communications, 2013, 4, 1934.	12.8	153
26	Enhancement of Superconductivity of Sr_2RuO_4 to 3 K by Embedded Metallic Microdomains. Physical Review Letters, 1998, 81, 3765-3768.	7.8	152
27	Optical evidence for a Weyl semimetal state in pyrochlore Eu_2O_7 . Physical Review B, 2015, 92, ...	3.2	151
28	Pressure-Induced Heavy Fermion Superconductivity in the Nonmagnetic Quadrupolar System PrTi_2As_4 . Physical Review Letters, 2012, 109, 187004.	7.8	150
29	Quadratic Fermi node in a 3D strongly correlated semimetal. Nature Communications, 2015, 6, 10042.	12.8	145
30	Switching of magnetic coupling by a structural symmetry change near the Mott transition in $\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4$. Physical Review B, 2000, 62, 6458-6466.	3.2	144
31	Heavy-Mass Fermi Liquid near a Ferromagnetic Instability in Layered Ruthenates. Physical Review Letters, 2003, 90, 137202.	7.8	134
32	Possible Multiple Gap Superconductivity with Line Nodes in Heavily Hole-Doped Superconductor KFe_2As_2 Studied by ^{75}As Nuclear Quadrupole Resonance and Specific Heat. Journal of the Physical Society of Japan, 2009, 78, 083712.	1.6	131
33	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
34	Determination of long-range all-in-all-out ordering of Ir moments in a pyrochlore iridate $\text{Eu}_4\text{Ir}_2\text{O}_{14}$. Physical Review B, 2012, 86, 040408.	3.2	131
35	Energy-harvesting materials based on the anomalous Nernst effect. Science and Technology of Advanced Materials, 2019, 20, 262-275.	6.1	122
36	Spin-Orbital Short-Range Order on a Honeycomb-Based Lattice. Science, 2012, 336, 559-563.	12.6	116

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37	From Mott insulator to ferromagnetic metal: A pressure study of Ca ₂ RuO ₄ . Physical Review B, 2002, 65, .	3.2	113
38	Intersite Coupling Effects in a Kondo Lattice. Physical Review Letters, 2002, 89, 106402.	7.8	109
39	Field-induced quantum metal-insulator transition in the pyrochlore iridate Nd ₂ Ir ₂ O ₇ . Nature Physics, 2016, 12, 134-138.	16.7	109
40	Strong Valence Fluctuation in the Quantum Critical Heavy Fermion Superconductor YbAlB_4 : A Hard X-Ray Photoemission Study. Physical Review Letters, 2010, 104, 247201.	7.8	104
41	pyrochlore iridate $\text{Eu}_2\text{Ir}_2\text{O}_7$. Physical Review Letters, 2010, 104, 247201.	3.2	99
42	Crystal Structure and Physical Properties of Polymorphs of LnAlB_4 (Ln = Yb, Lu). Chemistry of Materials, 2007, 19, 1918-1922.	6.7	98
43	Anomalous Hall effect in thin films of the Weyl antiferromagnet Mn_3Sn . Applied Physics Letters, 2018, 113, .	3.3	97
44	Quantum criticality in a metallic spin liquid. Nature Materials, 2014, 13, 356-359.	27.5	96
45	Anomalous Hall antiferromagnets. Nature Reviews Materials, 2022, 7, 482-496.	48.7	93
46	Electronic structures of layered perovskite Sr_2MO_4 (M=Ru, Rh, and Ir). Physical Review B, 2006, 74, .	3.2	91
47	Pressure-tuned insulator to metal transition in $\text{Eu}_2\text{Ir}_2\text{O}_7$. Physical Review Letters, 2010, 104, 247201.	3.2	91
48	Anomalous transport due to Weyl fermions in the chiral antiferromagnets Mn_3X , $\text{X}=\text{Sn, Ge}$. Nature Communications, 2021, 12, 572.	12.8	90
49	Ferroquadrupolar ordering in PrTiAl_2 . Physical Review B, 2006, 74, .	3.2	85
50	Disordered Route to the Coulomb Quantum Spin Liquid? Random Transverse Fields on Spin Ice. Physical Review Letters, 2017, 118, 107206.	7.8	83
51	Eu ₂ Ir ₂ O ₇ . Physical Review Letters, 2010, 104, 247201.	3.2	78
52	Crystal growth and structure of $\text{R}_2\text{Ir}_2\text{O}_7$ (R=Pr, Eu) using molten KF. Materials Research Bulletin, 2007, 42, 928-934.	5.2	75
53	Roles of High-Frequency Optical Phonons in the Physical Properties of the Conductive Delafossite PdCoO_2 . Journal of the Physical Society of Japan, 2007, 76, 104701.	1.6	74
54	Slater to Mott Crossover in the Metal to Insulator Transition of $\text{Nd}_2\text{Ir}_2\text{O}_7$. Physical Review Letters, 2016, 117, 056403.	7.8	72

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55	Room-temperature terahertz anomalous Hall effect in Weyl antiferromagnet Mn ₃ Sn thin films. Nature Communications, 2020, 11, 909.	12.8	70
56	Strange metal without magnetic criticality. Science, 2015, 349, 506-509.	12.6	69
57	Spin dynamics and spin freezing behavior in the two-dimensional antiferromagnet NiGa_2S_4 revealed by Ga-NMR, NQR and μSR .	3.2	68
58	Mechanism of Hopping Transport in Disordered Mott Insulators. Physical Review Letters, 2004, 93, 146401.	7.8	65
59	Universal geometric frustration in pyrochlores. Nature Communications, 2018, 9, 2619.	12.8	64
60	High-pressure diffraction studies on Ca ₂ RuO ₄ . Physical Review B, 2005, 72, .	3.2	61
61	Structure and physical properties of single crystal PrCr ₂ Al ₂₀ and CeM ₂ Al ₂₀ (M=V, Cr): A comparison of compounds adopting the CeCr ₂ Al ₂₀ structure type. Journal of Solid State Chemistry, 2012, 196, 274-281.	2.9	61
62	Experimental realization of a quantum breathing pyrochlore antiferromagnet. Physical Review B, 2014, 90, .	3.2	61
63	Magnetic field-tuned quantum critical point in CeAuSb ₂ . Physical Review B, 2005, 72, .	3.2	60
64	Strong valence fluctuation effects in SmT ₂ Cr ₂ .		

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73	Novel Geometrical Frustration Effects in the Two-Dimensional Triangular-Lattice Antiferromagnet NiGa ₂ S ₄ and Related Compounds. Journal of the Physical Society of Japan, 2010, 79, 011003.	1.6	49
74	Evaluation of spin diffusion length and spin Hall angle of the antiferromagnetic Weyl semimetal Mn_3Sn . Physical Review B, 2019, 99, .	3.2	47
75	Anisotropic heavy-Fermi-liquid formation in valence-fluctuating $YbAlB_4$. Low-energy excitations and ground-state selection in the quantum breathing pyrochlore antiferromagnet $Yb_2Ti_2O_7$. Physical Review B, 2016, 93, .	3.2	44
76	Low-energy excitations and ground-state selection in the quantum breathing pyrochlore antiferromagnet $Yb_2Ti_2O_7$. Physical Review B, 2016, 93, .	3.2	44
77	Giant field-like torque by the out-of-plane magnetic spin Hall effect in a topological antiferromagnet. Nature Communications, 2021, 12, 6491.	12.8	41
78	Unusual Superexchange Pathways in an NiS_2 Triangular Lattice with Negative Charge-Transfer Energy. Physical Review Letters, 2007, 99, 037203.	7.8	40
79	Dielectric anomalies and interactions in the three-dimensional quadratic band touching Luttinger semimetal Pr ₂ Ir ₂ O ₇ . Nature Communications, 2017, 8, 2097.	12.8	40
80	Observation of Bose-Einstein Condensation of Triplons in Quasi 1D Spin-Gap System Pb ₂ V ₃ O ₉ . Journal of the Physical Society of Japan, 2004, 73, 3435-3438.	1.6	39
81	Short-Range Order in Single Crystals of the $Sr_2Ni_2Mo_2O_{11}$ Triangular Antiferromagnet. Physical Review Letters, 2013, 111, 077201.	7.8	39
82	Dynamical spin-orbital correlation in the frustrated magnet Ba ₃ CuSb ₂ O ₉ . Nature Communications, 2013, 4, 2022.	12.8	39
83	Anomalous Nernst effect in a microfabricated thermoelectric element made of chiral antiferromagnet Mn ₃ Sn. Applied Physics Letters, 2017, 111, .	3.3	38
84	Strain-induced spontaneous Hall effect in an epitaxial thin film of a Luttinger semimetal. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8803-8808.	7.1	37
85	Nodeless kagome superconductivity in $LaRu_4S_{13}$. Physical Review Materials, 2021, 5, .	2.4	37
86	Ultrasonic Investigation on a Cage Structure Compound PrTi ₂ Al ₂₀ . Journal of the Physical Society of Japan, 2011, 80, SA049.	1.6	36
87	Anomalous Spin-Density Distribution on Oxygen and Ru in Ca _{1.5} Sr _{0.5} RuO ₄ : Polarized Neutron Diffraction Study. Physical Review Letters, 2002, 89, 087202.	7.8	35
88	Crystalline electric field levels and magnetic properties of the metallic pyrochlore compound Pr ₂ Ir ₂ O ₇ . Journal of Physics and Chemistry of Solids, 2005, 66, 1435-1437.	4.0	35
89	Coherent Behavior and Nonmagnetic Impurity Effects of Spin Disordered State in NiGa ₂ S ₄ . Journal of the Physical Society of Japan, 2006, 75, 043711.	1.6	35
90	^{141}Pr Evidence of Nonmagnetic Order and ^{141}Pr Hyperfine-Enhanced Nuclear Magnetism in the Cubic $\text{PrTi}_2\text{Al}_{20}$ Ground Doublet System PrTi ₂ Al ₂₀ . Journal of the Physical Society of Japan, 2011, 80, 113703.	1.6	35

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91	Hybridization effect in PrTi AlMn_2O_7 . Physical Review B, 2008, 78, .	3.2	35
92	Large anomalous Nernst effect and nodal plane in an iron-based kagome ferromagnet. Science Advances, 2022, 8, eabk1480.	10.3	35
93	Unconventional spin freezing and fluctuations in the frustrated antiferromagnet NiGa 2S_4 . Physical Review B, 2008, 78, .	3.2	34
94	Strongly Enhanced Magnetic Fluctuations in a Large-Mass Layered Ruthenate. Physical Review Letters, 2004, 93, 147404.	7.8	33
95	Unveiling hidden multipolar orders with magnetostriction. Nature Communications, 2019, 10, 4092.	12.8	33
96	Magneto-optical Kerr effect in a non-collinear antiferromagnet Mn 3Ge . Applied Physics Letters, 2020, 116, .	3.3	31
97	Topological Magnets: Functions Based on Berry Phase and Multipoles. Annual Review of Condensed Matter Physics, 2022, 13, 119-142.	14.5	31
98	A comparison of the structure and localized magnetism in Ce 2PdGa_{12} with the heavy fermion CePdGa 6 . Journal of Solid State Chemistry, 2005, 178, 3547-3553.	2.9	30
99	Electronic structure and evolution of the orbital state in metallic Ca $2\text{â}^\wedge\text{xSr}_\text{x}\text{RuO}_4$. Physical Review B, 2005, 72, .	3.2	30
100	Evidence of superconductivity on the border of quasi-2D ferromagnetism in Ca 2RuO_4 at high pressure. Journal of Physics Condensed Matter, 2010, 22, 052202.	1.8	30
101	Resonance in PrTi AlMn_2O_7 . Physical Review B, 2008, 78, .	3.2	30
102	Field-induced quadrupolar quantum criticality in PrV 2O_7 . Physical Review B, 2015, 91, .	3.2	30
103	Absence of Jahn-Teller transition in the hexagonal Ba $3\text{CuSb}_2\text{O}_9$ single crystal. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9305-9309.	7.1	30
104	High-field electron spin resonance in the two-dimensional triangular-lattice antiferromagnet NiGa 2S_4 . Physical Review B, 2008, 78, .	3.2	29
105	Electrons in the Fermi Surface of the Heavy Fermion Superconductor YbAlB 4 . Physical Review B, 2011, 84, .	7.8	29
106	Antichiral spin order, its soft modes, and their hybridization with phonons in the topological semimetal Mn 3Sn . Physical Review B, 2020, 102, .	3.2	29
107	Strong Mass Renormalization at a Local Momentum Space in Multiorbital Ca 1.8Sr . Physical Review Letters, 2009, 102, 086401.	7.8	28
108	Quantum valence criticality in a correlated metal. Science Advances, 2018, 4, eaao3547.	10.3	28

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109	Orthogonal magnetization and symmetry breaking in pyrochlore iridate $\text{Eu}_2\text{Ir}_2\text{O}_7$. Nature Physics, 2017, 13, 599-603. Magnetic excitations in the metallic single-layer ruthenates $\text{CaMn}_2\text{Ru}_2\text{O}_{10}$. Physical Review Letters, 2017, 118, 127202.	16.7	27
110	Terahertz conductivity of the magnetic Weyl semimetal Mn_3Sn films. Applied Physics Letters, 2019, 115, .	3.3	26
111	Omnidirectional Control of Large Electrical Output in a Topological Antiferromagnet. Advanced Functional Materials, 2021, 31, 2008971.	14.9	26
112	Coherent behaviour without magnetic order of the triangular lattice antiferromagnet NiGa_2S_4 . Journal of Physics Condensed Matter, 2007, 19, 145232.	1.8	25
113	Weak quasistatic magnetism in the frustrated Kondo lattice $\text{Pr}_2\text{Ir}_2\text{O}_7$. Physica B: Condensed Matter, 2009, 404, 667-670.	2.7	25
114	NMR/NQR and Specific Heat Studies of Iron Pnictide Superconductor KFeAs_2 . Journal of the Physical Society of Japan, 2011, 80, SA118.	1.6	25
115	Quantum Critical Kondo Quasiparticles Probed by ESR in YbAlB_4 . Physical Review Letters, 2011, 107, 026402.	7.8	25
116	Many-Body Resonance in a Correlated Topological Kagome Antiferromagnet. Physical Review Letters, 2020, 125, 046401.	7.8	24
117	Severe Fermi Surface Reconstruction at a Metamagnetic Transition in $\text{Ca}_2\text{SrxRuO}_4$ (for $0.2 \leq x \leq 0.5$). Physical Review Letters, 2005, 95, 196407.	7.8	23
118	Orbital-Selective Mass Enhancements in Multiband $\text{Ca}_2\text{SrxRuO}_4$ Systems Analyzed by the Extended Drude Model. Physical Review Letters, 2006, 96, 057401.	7.8	23
119	Unstable spin-ice order in the stuffed metallic pyrochlore Pr_2O_7 . Physical Review B, 2015, 92, .	7.8	23
120	NMR Observation of Ferro-Quadrupole Order in PrTiAl_{20} . Journal of the Physical Society of Japan, 2016, 85, 113703.	1.6	23
121	Spin Dependent Impurity Effects on the 2D Frustrated Magnetism of NiGa_2S_4 . Physical Review Letters, 2008, 101, 207204.	7.8	22
122	Evidence of a High-Field Phase in PrVAl_{20} in a [100] Magnetic Field. Journal of the Physical Society of Japan, 2013, 82, 043705.	1.6	22
123	Large trigonal-field effect on spin-orbit coupled states in a pyrochlore iridate. Physical Review B, 2015, 92, .	3.2	22
124	Irreversible Dynamics of the Phase Boundary in $\text{U}(\text{Ru}_{0.96}\text{Rh}_{0.04})_2\text{Si}_2$ and Implications for Ordering. Physical Review Letters, 2006, 96, 136403.	7.8	21
125	Thermoelectric Response Near a Quantum Critical Point of YbAlB_4 and YbRh_2Si_2 . Physical Review Letters, 2012, 109, 156405.	7.8	21

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145	Orbital state and metal-insulator transition in $\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4$ ($x=0.0$ and 0.09) studied by x-ray absorption spectroscopy. <i>Physical Review B</i> , 2004, 69, .	3.2	15
146	Electronic structure study of triangular lattices in FeGa_2S_4 , $\text{Fe}_2\text{Ga}_2\text{S}_5$, and NiGa_2S_4 : Photoemission spectroscopy and Hartree-Fock calculations. <i>Physical Review B</i> , 2009, 79, .	3.2	15
147	Structural properties of the two-dimensional triangular antiferromagnet $\text{NiGa}_{2/3}\text{S}_4$. <i>Physical Review B</i> , 2009, 79, .	3.2	15
148	Evidence for an exotic magnetic transition in the triangular spin system FeGa_2S_4 . <i>Physical Review B</i> , 2012, 85, .	3.2	15
149	Spin Fluctuations from Hertz to Terahertz on a Triangular Lattice. <i>Physical Review Letters</i> , 2015, 115, 127202.	7.8	15
150	Field-Induced Switching of Ferro-Quadrupole Order Parameter in $\text{PrTi}_2\text{Al}_{20}$. <i>Journal of the Physical Society of Japan</i> , 2019, 88, 084707.	1.6	15
151	Effect of sample size on anomalous Nernst effect in chiral antiferromagnetic Mn_3Sn devices. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	15
152	Structural Aspects of Metamagnetism in $\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4$: Evidence for Field Tuning of Orbital Occupation. <i>Physical Review Letters</i> , 2005, 95, 267403.	7.8	14
153	Synthesis and characterization of the quasi-two-dimensional triangular antiferromagnets $\text{Ni}_{1-x}\text{M}_x\text{Ga}_2\text{S}_4$ ($M=\text{Mn}, \text{Fe}, \text{Co}, \text{Zn}$). <i>Journal of Crystal Growth</i> , 2008, 310, 1881-1885.	1.5	14
154	Field-Induced Paramagnons at the Metamagnetic Transition of $\text{Ca}_{1.8}\text{Sr}_{0.2}\text{RuO}_4$. <i>Physical Review Letters</i> , 2007, 99, 217402.	7.8	13
155	Magnetoelastic Coupling Across the Metamagnetic Transition in $\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4$. <i>Physical Review Letters</i> , 2007, 99, 217402.	7.8	13
156	Crystal Growth, Structure, and Physical Properties of $\text{Ln}(\text{Cu}, \text{Ga})_{13-x}$ ($\text{Ln} = \text{La}, \text{Nd}, \text{Eu}$; $x \leq 0.2$). <i>Chemistry of Materials</i> , 2009, 21, 3072-3078.	6.7	13
157	High-Resolution Synchrotron Studies and Magnetic Properties of Frustrated Antiferromagnets MAl_2S_4 ($M = \text{Mn}, \text{Fe}, \text{Co}$). <i>Physical Review B</i> , 2009, 79, 104407.	6.7	13
158	Spin dynamics and spin freezing in the triangular lattice antiferromagnets FeGa_2S_4 and NiGa_2S_4 . <i>Physical Review B</i> , 2012, 85, .	3.2	13
159	Correlation effects in Sr_2RuO_4 and Ca_2RuO_4 : Valence-band photoemission spectra and self-energy calculations. <i>Physical Review B</i> , 2004, 70, .	3.2	12
160	Pressure Dependence of Electrical Transport in the Triangular Antiferromagnetic Insulators FeGa_2S_4 and $\text{Fe}_2\text{Ga}_2\text{S}_5$. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 094603.	1.6	12
161	Two-dimensional magnetism and spin-size effect in the $S=1$ triangular antiferromagnet NiGa_2S_4 . <i>Journal of Physics Condensed Matter</i> , 2011, 23, 164202.	1.8	12
162	Chemical effects of high-resolution YbL_{3-x} emission spectra: a possible probe for chemical analysis. <i>X-Ray Spectrometry</i> , 2013, 42, 450-455.	1.4	12

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163	Magnetic Excitations across the Metal-Insulator Transition in the Pyrochlore Iridate $\text{Yb}_2\text{Ir}_2\text{O}_7$. Physical Review Letters, 2018, 120, 177203.	12.8	11
164	Synchrotron X-ray spectroscopy study on the valence state in $\hat{\Gamma}_2$ - and $\hat{\Gamma}_1$ -YbAlB ₄ at low temperatures and high magnetic fields. Journal of the Korean Physical Society, 2013, 62, 1778-1781.	0.7	11
165	Anomalous specific heat behaviour in the quadrupolar Kondo system $\text{PrV}_2\text{Al}_{20}$. Journal of Physics: Conference Series, 2015, 592, 012023.	0.4	11
166	Field Evolution of Quantum Critical and Heavy Fermi-Liquid Components in the Magnetization of the Mixed Valence Compound $\hat{\Gamma}_2$ -YbAlB ₄ . Journal of the Physical Society of Japan, 2015, 84, 024710.	1.6	11
167	High Pressure Measurements of the Resistivity of $\hat{\Gamma}_2$ -YbAlB ₄ . Journal of Physics: Conference Series, 2015, 592, 012019.	0.4	11
168	Effect of Anisotropic Hybridization in YbAlB_4 by Linear Dichroism in Core-Level Hard X-Ray Photoemission Spectroscopy. Physical Review Letters, 2019, 123, 036404.	7.8	11
169	Unconventional free charge in the correlated semimetal Nd ₂ Ir ₂ O ₇ . Nature Physics, 2020, 16, 1194-1198.	16.7	11
170	Growth of Pr ₂ Ir ₂ O ₇ thin films using solid phase epitaxy. Journal of Applied Physics, 2020, 127, .	2.5	11
171	Large enhancement of the spin Hall effect in Mn metal by Sn doping. Physical Review Materials, 2018, 2, .	2.4	11
172	New Compounds Based on Pyrochlore Structure: R ₂ Nb ₂ O ₇ (R= Dy, Yb). Journal of the Physical Society of Japan, 2004, 73, 2829-2833.	1.6	10
173	Muons and frustrated magnetism in NiGa ₂ S ₄ and Pr ₂ Ir ₂ O ₇ . Journal of Physics: Conference Series, 2010, 225, 012031.	0.4	10
174	Single-crystal study on the low-temperature magnetism of the pyrochlore magnet Pr ₂ Zr ₂ O ₇ . Journal of the Korean Physical Society, 2013, 63, 719-721.	0.7	10
175	Magnetization and Specific Heat of the Cage Compound $\text{PrV}_2\text{Al}_{20}$. , 2014, , .		10
176	Frustrated magnetism in a Mott insulator based on a transition metal chalcogenide. Journal of Physics: Conference Series, 2016, 683, 012025.	0.4	10
177	Lifetime-Broadening-Suppressed X-ray Absorption Spectrum of $\hat{\Gamma}_2$ -YbAlB ₄ Deduced from Yb $d_{3/2}$ Resonant X-ray Emission Spectroscopy. Journal of the Physical Society of Japan, 2017, 86, 014711.	1.6	10
178	Kondo hybridization and quantum criticality in $\hat{\Gamma}_2$ -YbAlB ₄ by laser ARPES. Physical Review B, 2018, 97, .	3.2	10
179	Spin-orbit torque switching of the antiferromagnetic state in polycrystalline Mn ₃ Sn/Cu/heavy metal heterostructures. AIP Advances, 2021, 11, .	1.3	10
180	X-ray study of ferroic octupole order producing anomalous Hall effect. Nature Communications, 2021, 12, 5582.	12.8	10

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181	Anisotropic giant magnetoresistance near the Mott transition in pressurized CaF_2 . Physical Review B, 2009, 80, .	8.2	9
182	T/Scaling of magnetization in the mixed valent compound YbAlB_4 . Journal of Physics: Conference Series, 2012, 391, 012041.	0.4	9
183	Dimensional Reduction in Quantum Dipolar Antiferromagnets. Physical Review Letters, 2016, 116, 197202.	7.8	9
184	Impact of the Lattice on Magnetic Properties and Possible Spin Nematicity in the Triangular Antiferromagnet NiGa_2S_4 . Physical Review Letters, 2020, 125, 197201.	7.8	9
185	Unveiling Quadrupolar Kondo Effect in the Heavy Fermion Superconductor $\text{PrV}_2\text{Al}_{20}$. Journal of the Physical Society of Japan, 2020, 89, 013704.	1.6	9
186	Low-Dimensional Structure and Magnetism of the Quantum Antiferromagnet $\text{Rb}_4\text{Cu}(\text{MoO}_4)_3$ and the Structure of $\text{Rb}_4\text{Zn}(\text{MoO}_4)_3$. Journal of the American Chemical Society, 2010, 132, 7055-7061.	13.7	8
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