

K Matsuhira

List of Publications by Year in descending order

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36
papers

1,523
citations

471061

17
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377514

34
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docs citations

36
times ranked

1341
citing authors

#	ARTICLE	IF	CITATIONS
1	First Observation of Superlattice Reflections in the Hidden Order at 105 K of Spin-Orbit Coupled Iridium Oxide $\text{Ca}_5\text{Ir}_3\text{O}_{12}$. Journal of the Physical Society of Japan, 2021, 90, 063702.	0.7	18
2	^{193}Ir Synchrotron-Radiation-Based Mössbauer Spectroscopy for Ir Valence Disproportionation in $\text{Ca}_5\text{Ir}_3\text{O}_{12}$. Journal of the Physical Society of Japan, 2021, 90, 083701.	0.7	8
3	Ab initio derivation of low-energy Hamiltonians for systems with strong spin-orbit interaction: Application to $\text{Ca}_5\text{Ir}_3\text{O}_{12}$. Physical Review B, 2021, 104, .	1.1	11
4	Application of synchrotron-radiation-based Mössbauer spectroscopy to ^{193}Ir 73 keV transition. Hyperfine Interactions, 2021, 242, 1.	0.2	2
5	Universal Dynamics of Magnetic Monopoles in Two-Dimensional Kagomé Ice. Journal of the Physical Society of Japan, 2021, 90, .	0.7	1
6	Effects of uniaxial pressure on the spin ice Ho_2O_7 . Physical Review B, 2020, 102, .	1.1	5
7	Raman Scattering Investigation of Structural Transition in $\text{Ca}_5\text{Ir}_3\text{O}_{12}$. Journal of the Physical Society of Japan, 2020, 89, 054602.	0.7	14
8	Study of Phonon Dispersion of Iridium Oxide $\text{Ca}_5\text{Ir}_3\text{O}_{12}$ with Strong Spin-Orbit Interaction. Journal of the Physical Society of Japan, 2020, 89, 053601.	0.7	9
9	Nuclear spin assisted quantum tunnelling of magnetic monopoles in spin ice. Nature Communications, 2019, 10, 1509.	5.8	9
10	Nonlinear Conductivity of Geometrically Frustrated Iridate $\text{Ca}_5\text{Ir}_3\text{O}_{12}$. Journal of the Physical Society of Japan, 2018, 87, 013703.	0.7	19
11	A new mathematical approach to finding global solutions of the magnetic structure determination problem. Scientific Reports, 2018, 8, 16228.	1.6	1
12	Magnetic Moments and Ordered States in Pyrochlore Iridates $\text{Nd}_2\text{Ir}_2\text{O}_7$ and $\text{Sm}_2\text{Ir}_2\text{O}_7$ Studied by Muon-Spin Relaxation. Journal of the Physical Society of Japan, 2017, 86, 024705.	0.7	15
13	Experimental signature of the attractive Coulomb force between positive and negative magnetic monopoles in spin ice. Nature Physics, 2016, 12, 661-666.	6.5	32
14	Dynamic behavior of magnetic avalanches in the spin-ice compound $\text{Dy}_2\text{Ti}_2\text{O}_7$. Physical Review B, 2014, 90, .	1.1	12
15	Far-from-equilibrium monopole dynamics in spin ice. Nature Physics, 2014, 10, 135-139.	6.5	47
16	Metal-Insulator Transition in Pyrochlore Oxide $(\text{Nd}_{1-x}\text{Pr}_x)_2\text{Ir}_2\text{O}_7$ (0.7 % x), 2014, .		4
17	Giant Magnetoresistance Effect in the Metal-Insulator Transition of Pyrochlore Oxide $\text{Nd}_2\text{Ir}_2\text{O}_7$. Journal of the Physical Society of Japan, 2013, 82, 023706.	0.7	38
18	Magnetic order in the pyrochlore iridate $\text{Nd}_2\text{Ir}_2\text{O}_7$ probed by muon spin relaxation. Physical Review B, 2013, 88, .	1.1	38

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19	Emergence of Magnetic Long-range Order in Frustrated Pyrochlore $\text{Nd}_2\text{Ir}_2\text{O}_7$ with Metal-Insulator Transition. Journal of the Physical Society of Japan, 2012, 81, 034709.	0.7	139
20	Different High-Temperature Spin Dynamics of Ising Pyrochlore $\text{Dy}_2\text{Sn}_2\text{O}_7$ and Heisenberg Pyrochlore $\text{Gd}_2\text{Sn}_2\text{O}_7$. Journal of the Physical Society of Japan, 2012, 81, 054701.	0.7	3
21	Metal-Insulator Transitions in Pyrochlore Oxides $\text{Ln}_2\text{Ir}_2\text{O}_7$. Journal of the Physical Society of Japan, 2011, 80, 094701.	0.7	210
22	Thermal Properties of Filled Skutterudite $\text{PrO}_4\text{P}_{12}$. Journal of the Physical Society of Japan, 2011, 80, SA025.	0.7	1
23	A Magnetic Transition Probed by the Ce Ion in Square-Lattice Antiferromagnet CeMnAsO . Journal of the Physical Society of Japan, 2011, 80, 094708.	0.7	23
24	Ferrimagnetism of New Filled Skutterudite $\text{SmFe}_4\text{As}_{12}$ Synthesized at High Pressure. Journal of the Physical Society of Japan, 2010, 79, 074714.	0.7	8
25	Temperature-dependent studies of the geometrically frustrated pyrochlores $\text{Ho}_2\text{Ti}_2\text{O}_7$. Physical Review B, 2009, 79, 040407.	1.1	78
26	Observation of Magnetic Monopoles in Spin Ice. Journal of the Physical Society of Japan, 2009, 78, 103706.	0.7	146
27	Systematic Study of Lattice Specific Heat of Filled Skutterudites. Journal of the Physical Society of Japan, 2009, 78, 124601.	0.7	68
28	Temperature-dependent Raman scattering studies of the geometrically frustrated pyrochlores $\text{Dy}_2\text{Ti}_2\text{O}_7$, $\text{Gd}_2\text{Ti}_2\text{O}_7$ and $\text{Er}_2\text{Ti}_2\text{O}_7$. Journal of Raman Spectroscopy, 2008, 39, 537-544.	1.2	78
29	Ultrasonic Measurement of Filled Skutterudite with Heavy Lanthanide $\text{TbRu}_4\text{P}_{12}$. Journal of the Physical Society of Japan, 2008, 77, 306-308.	0.7	3
30	Metal-Insulator Transition in Pyrochlore Iridates $\text{Ln}_2\text{Ir}_2\text{O}_7$ ($\text{Ln} = \text{Nd}, \text{Sm}, \text{and Eu}$). Journal of the Physical Society of Japan, 2007, 76, 043706.	0.7	179
31	Uniaxial pressure effects on spin-ice compound $\text{Dy}_2\text{Ti}_2\text{O}_7$. Journal of Magnetism and Magnetic Materials, 2007, 310, e432-e434.	1.0	15
32	Specific Heat Study on Sm-based Filled Skutterudite Phosphides $\text{SmT}_4\text{P}_{12}$ ($\text{T} = \text{Fe}, \text{Ru}$ and Os). Journal of the Physical Society of Japan, 2005, 74, 1030-1035.	0.7	69
33	Magnetocaloric Effect Study on the Pyrochlore Spin Ice Compound $\text{Dy}_2\text{Ti}_2\text{O}_7$ in a [111] Magnetic Field. Journal of the Physical Society of Japan, 2004, 73, 2851-2856.	0.7	50
34	A New Macroscopically Degenerate Ground State in the Spin Ice Induced by a Magnetic Field. Nihon Kessho Gakkaishi, 2004, 46, 94-97.	0.0	0
35	Ferromagnetic Ising Spin Chains Emerging from the Spin Ice under Magnetic Field. Journal of the Physical Society of Japan, 2003, 72, 3045-3048.	0.7	51
36	Specific Heat of Kagomé Ice in the Pyrochlore Oxide $\text{Dy}_2\text{Ti}_2\text{O}_7$. Journal of the Physical Society of Japan, 2003, 72, 411-418.	0.7	119