

# K Matsuhira

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2004987/publications.pdf>

Version: 2024-02-01

36  
papers

1,523  
citations

471061

17  
h-index

377514

34  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1341  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Metal-insulator Transition in Pyrochlore Iridates $\text{Ln}_2\text{Ir}_2\text{O}_7$ (Ln = Nd, Sm, and Eu). Journal of the Physical Society of Japan, 2007, 76, 043706.	0.7	179
3	Observation of Magnetic Monopoles in Spin Ice. Journal of the Physical Society of Japan, 2009, 78, 103706.	0.7	146
4	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
5	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
6	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
7	Temperature-dependent studies of the geometrically frustrated pyrochlores $\text{Ho}_2\text{Ti}_2\text{O}_7$ and $\text{Er}_2\text{Ti}_2\text{O}_7$ . Physical Review B, 2009, 79, 040407.	1.1	78
8	Specific Heat Study on Sm-based Filled Skutterudite Phosphides $\text{SmT}_4\text{P}_{12}$ (T=Fe, Ru and Os). Journal of the Physical Society of Japan, 2005, 74, 1030-1035.	0.7	69
9	Systematic Study of Lattice Specific Heat of Filled Skutterudites. Journal of the Physical Society of Japan, 2009, 78, 124601.	0.7	68
10	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
11	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
12	Far-from-equilibrium monopole dynamics in spin ice. Nature Physics, 2014, 10, 135-139.	6.5	47
13	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
14	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
15	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
16	A Magnetic Transition Probed by the Ce Ion in Square-Lattice Antiferromagnet $\text{CeMnAsO}$ . Journal of the Physical Society of Japan, 2011, 80, 094708.	0.7	23
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Uniaxial pressure effects on spin-ice compound Dy <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> . Journal of Magnetism and Magnetic Materials, 2007, 310, e432-e434.	1.0	15
20	Magnetic Moments and Ordered States in Pyrochlore Iridates Nd <sub>2</sub> Ir <sub>2</sub> O <sub>7</sub> and Sm <sub>2</sub> Ir <sub>2</sub> O <sub>7</sub> Studied by Muon-Spin Relaxation. Journal of the Physical Society of Japan, 2017, 86, 024705.	0.7	15
21	Raman Scattering Investigation of Structural Transition in Ca <sub>5</sub> Ir <sub>3</sub> O <sub>12</sub> . Journal of the Physical Society of Japan, 2020, 89, 054602.	0.7	14
22	Dynamic behavior of magnetic avalanches in the spin-ice compound DyTi <sub>2</sub> O <sub>7</sub> . Physical Review B, 2014, 90, .	1.1	12
23	Ab initio derivation of low-energy Hamiltonians for systems with strong spin-orbit interaction: Application to Ca <sub>5</sub> Ir <sub>3</sub> O <sub>12</sub> . Physical Review B, 2021, 104, .	1.1	11
24	Nuclear spin assisted quantum tunnelling of magnetic monopoles in spin ice. Nature Communications, 2019, 10, 1509.	5.8	9
25	Study of Phonon Dispersion of Iridium Oxide Ca <sub>5</sub> Ir <sub>3</sub> O <sub>12</sub> with Strong Spin-Orbit Interaction. Journal of the Physical Society of Japan, 2020, 89, 053601.	0.7	9
26	Ferrimagnetism of New Filled Skutterudite SmFe <sub>4</sub> As <sub>12</sub> Synthesized at High Pressure. Journal of the Physical Society of Japan, 2010, 79, 074714.	0.7	8
27	<sup>193</sup> Ir Synchrotron-Radiation-Based Mössbauer Spectroscopy for Ir Valence Disproportionation in Ca <sub>5</sub> Ir <sub>3</sub> O <sub>12</sub> . Journal of the Physical Society of Japan, 2021, 90, 083701.	0.7	8
28	Effects of uniaxial pressure on the spin ice Ho <sub>2</sub> O <sub>7</sub> . Physical Review B, 2020, 102, .	1.1	5
29	Metal-Insulator Transition in Pyrochlore Oxide (Nd <sub>1-x</sub> Pr <sub>x</sub> ) <sub>2</sub> Ir <sub>2</sub> O <sub>7</sub> (0.7 ≤ x ≤ 1). , 2014, .		4
30	Ultrasonic Measurement of Filled Skutterudite with Heavy Lanthanide TbRu <sub>4</sub> P <sub>12</sub> . Journal of the Physical Society of Japan, 2008, 77, 306-308.	0.7	3
31	Different High-Temperature Spin Dynamics of Ising Pyrochlore Dy <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> and Heisenberg Pyrochlore Gd <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> . Journal of the Physical Society of Japan, 2012, 81, 054701.	0.7	3
32	Application of synchrotron-radiation-based Mössbauer spectroscopy to <sup>193</sup> Ir 73 keV transition. Hyperfine Interactions, 2021, 242, 1.	0.2	2
33	Thermal Properties of Filled Skutterudite PrO <sub>4</sub> P <sub>12</sub> . Journal of the Physical Society of Japan, 2011, 80, SA025.	0.7	1
34	A new mathematical approach to finding global solutions of the magnetic structure determination problem. Scientific Reports, 2018, 8, 16228.	1.6	1
35	Universal Dynamics of Magnetic Monopoles in Two-Dimensional Kagome Ice. Journal of the Physical Society of Japan, 2021, 90, .	0.7	1
36	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