

# Akihiro Koda

## List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Pyrochlore oxide $\text{Hg}_2\text{Os}_2\text{O}_7$ on verge of metal-insulator boundary. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 135602.	1.8	2
2	Negative Muon Spin Rotation and Relaxation Study on Battery Anode Material, Spinel $\text{Li}_4\text{Ti}_5\text{O}_{12}$ . <i>Journal of Physical Chemistry C</i> , 2022, 126, 10506-10514.	3.1	6
3	Extreme Suppression of Antiferromagnetic Order and Critical Scaling in a Two-Dimensional Random Quantum Magnet. <i>Physical Review Letters</i> , 2021, 126, 037201.	7.8	21
4	Origin of magnetovolume effect in a cobaltite. <i>Physical Review B</i> , 2021, 103, .	3.2	3
5	Dimensional reduction by geometrical frustration in a cubic antiferromagnet composed of tetrahedral clusters. <i>Nature Communications</i> , 2021, 12, 4382.	12.8	7
6	Na-ion mobility in P2-type $\text{Na}_{0.5}\text{Mg}_x\text{Ni}_{0.17}\text{Mn}_{0.83}\text{O}_2$ (0 $\leq x \leq$ 0.07) from electrochemical and muon spin relaxation studies. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24478-24486.	2.8	7
7	Observation of Cu Spin Fluctuations in High-Tc Cuprate Superconductor Nanoparticles Investigated by Muon Spin Relaxation. <i>Nanomaterials</i> , 2021, 11, 3450.	4.1	4
8	Hydrogen states in hydrogen-passivated semiconducting barium disilicide measured via muon spin rotation. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 071004.	1.5	9
9	Gapless spin liquid in a square-kagome lattice antiferromagnet. <i>Nature Communications</i> , 2020, 11, 3429.	12.8	41
10	Proximity coupling of superconducting nanograins with fractal distributions. <i>Physical Review B</i> , 2020, 101, .	3.2	2
11	Revealing magnetic ground state of a layered cathode material by muon spin relaxation and neutron scattering experiments. <i>Applied Physics Letters</i> , 2019, 114, 203901.	3.3	4
12	Oxidation Annealing Effects on the Spin-Glass-Like Magnetism and Appearance of Superconductivity in $T^*$ -type $\text{La}_{1-x}\text{Eu}_x/2\text{Sr}_{1-x}\text{Cu}_x$ (0.14 $\leq x \leq$ 0.28). <i>Journal of the Physical Society of Japan</i> , 2019, 88, 084709.	1.6	4
13	Desorption reaction in $\text{MgH}_2$ studied with <i>in situ</i> $^{1/4}\text{SR}$ . <i>Sustainable Energy and Fuels</i> , 2019, 3, 956-964.	4.9	9
14	Quantum magnetisms in uniform triangular lattices $\text{Li}_2\text{AMo}_3\text{O}_8$ (A = In, Sc). <i>Scientific Reports</i> , 2019, 9, 1826.	3.3	10
15	$^{1/4}\text{SR}$ Study of Magnetism in the As-Prepared and Non-Superconducting ( $T^*$ star) $\text{La}_{0.9}\text{Eu}_{0.9}\text{Sr}_{0.2}\text{Cu}_4$ . , 2018, , .		3
16	Local spin structure of the $\text{mml:math}$ $\text{mml:mrow}$ $\text{mml:mi}$ $\hat{\mu}$ $\text{mml:mi}$ $\text{mml:mo}$ $\hat{a}$ $\text{mml:mo}$ $\text{mml:msub}$ $\text{mml:m}$ honeycomb-lattice magnet observed via muon spin rotation/relaxation. <i>Physical Review B</i> , 2018, 97, .	3.2	3
17	Transportation of Ultra Slow Muon on U-line, MLF, J-PARC. , 2018, , .		1
18	Perspective of Muon Production Target at J-PARC MLF MUSE. , 2018, , .		1

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19	Quantum critical nature of the short-range magnetic order in $\text{SrMn}_2\text{P}_2\text{O}_{14}$ . Physical Review B, 2018, 98, .	9.2	2
20	Development of Ferromagnetic Fluctuations in Heavily Overdoped $\text{Bi}_2\text{PbO}_8$ . Physical Review Letters, 2018, 121, 057002.	7.8	23
21	Nuclear Magnetic Field in Solids Detected with Negative-Muon Spin Rotation and Relaxation. Physical Review Letters, 2018, 121, 087202.	7.8	22
22	Large Magnetovolume Effect Induced by Embedding Ferromagnetic Clusters into Antiferromagnetic Matrix of Cobaltite Perovskite. Advanced Materials, 2017, 29, 1605991.	21.0	21
23	Possible Tomonaga-Luttinger spin liquid state in the spin-1/2 inequilateral diamond-chain compound $\text{K}_3\text{Cu}_3\text{AlO}_2(\text{SO}_4)_4$ . Scientific Reports, 2017, 7, 16785.	3.3	22
24	Materials and Life Science Experimental Facility at the Japan Proton Accelerator Research Complex IV: The Muon Facility. Quantum Beam Science, 2017, 1, 11.	1.2	41
25	Dynamics of polybutadiene reinforced with unsaturated carboxylate studied by muon spin relaxation ( $1/4$ SR). Polymer, 2016, 105, 510-515.	3.8	4
26	Strong Electron Correlation behind the Superconductivity in Ce-Free and Ce-Underdoped High- $T_c$ $\text{Ce}^{2-}$ -Cuprates. Journal of the Physical Society of Japan, 2016, 85, 114716.	1.6	30
27	Structural anomalies and short-range magnetic correlations in the orbitally degenerate system $\text{SrMn}_2\text{P}_2\text{O}_{14}$ . Physical Review B, 2015, 92, .	3.2	9
28	Muonium in Stishovite: Implications for the Possible Existence of Neutral Atomic Hydrogen in the Earth's Deep Mantle. Scientific Reports, 2015, 5, 8437.	3.3	3
29	U-Line at MLF/J-PARC for Ultra Slow Muon Microscopy. , 2014, , .		1
30	Remote-controlled non-destructive measurement for thermal conductivity of highly radioactive isotropic graphite used as the muon production target at J-PARC/MUSE. Journal of Nuclear Materials, 2014, 450, 110-116.	2.7	4
31	Cooperative Order in the Weakly Magnetic Domain of $\text{LaFeAsO}_{1-x}\text{F}_x$ near the Doping Phase Boundary. Journal of the Physical Society of Japan, 2014, 83, 103707.	1.6	2
32	Performance of a superconducting magnet system operated in the Super Omega Muon beam line at J-PARC. , 2014, , .		0
33	Quasi-One-Dimensional Spin Dynamics in $\text{LiV}_2\text{O}_4$ : One-to-Three-Dimensional Crossover as a Possible Origin of Heavy Fermion State. Journal of the Physical Society of Japan, 2012, 81, 014709.	1.6	7
34	$1/4$ SR study of A-site ordered perovskite manganite $\text{LaBaMn}_2\text{O}_6$ . Journal of Physics: Conference Series, 2012, 391, 012096.	0.4	1
35	Development of a Muon Rotating Target for J-PARC/MUSE. Physics Procedia, 2012, 32, 795-801.	1.2	1
36	Status of the Superomega Muon Beam Line at J-PARC. Physics Procedia, 2012, 30, 34-37.	1.2	9

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37	Quasi-One-Dimensional Spin Dynamics in $d$ -Electron Heavy-Fermion Metal $Y_{1-x}Sc_xMn_2$ . Journal of the Physical Society of Japan, 2011, 80, 063707.	1.6	5
38	Conceptual Design of a Superconducting Solenoid System for the Super Omega Muon Beam Line at J-PARC. IEEE Transactions on Applied Superconductivity, 2011, 21, 1725-1729.	1.7	6
39	Muon Beam Line at J-PARC MUSE. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society) 11, 0.784314	0.1	3
40	Muon science in J-PARC. Hyperfine Interactions, 2009, 194, 213-217.	0.5	2
41	Design strategy for devices under high radiation field in J-PARC muon facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 114-116.	1.6	13
42	New pipelined data acquisition system for $^1/4$ SR experiments at J-PARC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 53-55.	1.6	3
43	Development of positron detector for $^1/4$ SR based on multi-pixel photon counter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 139-142.	1.6	3
44	Novel features in filled skutterudites containing rare-earth elements with a plural number of 4f-electrons. Physica B: Condensed Matter, 2009, 404, 749-753.	2.7	5
45	Effect of Zn substitution for Cu on near the hole concentration of per Cu. Physica B: Condensed Matter, 2009, 404, 713-716.	2.7	3
46	Development of a pipelined data acquisition system for experiments at J-PARC. Physica B: Condensed Matter, 2009, 404, 1002-1006.	2.7	0
47	Birth of an intense pulsed muon source, J-PARC MUSE. Physica B: Condensed Matter, 2009, 404, 957-961.	2.7	17
48	Full Gap Superconductivity in $Ba_{0.6}K_{0.4}Fe_2As_2$ Probed by Muon Spin Rotation. Journal of the Physical Society of Japan, 2009, 78, 023710.	1.6	35
49	Magnetic Ground-State of Perovskite $PbVO_3$ with Large Tetragonal Distortion. Inorganic Chemistry, 2008, 47, 7355-7359.	4.0	110
50	Coexistence of Superconductivity and Magnetism in $LaFeAs(O_{0.94}F_{0.06})$ Probed by Muon Spin Relaxation. Journal of the Physical Society of Japan, 2008, 77, 103703.	1.6	31
51	Fermi-liquid behavior and weakly anisotropic superconductivity in the electron-doped cuprate $Sr_{1-x}Mn_x$ . Physical Review B, 2008, 77, 114504.	3.2	8
52	Anomalous Magnetic Phase in an Undistorted Pyrochlore Oxide $Cd_2Os_2O_7$ Induced by Geometrical Frustration. Journal of the Physical Society of Japan, 2007, 76, 063703.	1.6	19
53	Knight shift measurements in the superconducting state of probed by. Journal of Magnetism and Magnetic Materials, 2007, 310, 620-622.	2.3	4
54	Possible Magnetic Chirality in Optically Chiral Magnet $[Cr(CN)_6][Mn(S-pnH(H_2O))](H_2O)$ Probed by Muon Spin Rotation and Relaxation. Journal of the Physical Society of Japan, 2006, 75, 063705.	1.6	13

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55	Possible unconventional superconductivity and weak magnetism in $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$ probed by $^{1/4}\mu\text{SR}$ . <i>Physica B: Condensed Matter</i> , 2006, 374-375, 274-277.	2.7	5
56	Possible Unconventional Superconductivity and Magnetism in $\text{CePt}_3\text{Si}$ Probed by Muon Spin Rotation and Relaxation. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 1247-13.	1.6	13
57	Field-Induced Uniform Antiferromagnetic Order Associated with Superconductivity in $\text{Pr}_{1-x}\text{La}_x\text{Ce}_x\text{CuO}_4$ . <i>Journal of the Physical Society of Japan</i> , 2005, 74, 2806-2812.	1.6	10
58	Correlation between Superconducting Carrier Density and Transition Temperature in $\text{NbB}_{2+x}$ . <i>Journal of the Physical Society of Japan</i> , 2005, 74, 1386-1389.	1.6	6
59	Magnetic Phase Diagram of Hole-Doped $\text{Ca}_{2-x}\text{Na}_x\text{CuO}_2\text{Cl}_2$ Cuprate Superconductor. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 2408-2412.	1.6	14
60	Staggered magnetism in $\text{LiV}_2\text{O}_4$ at low temperatures probed by means of the muon Knight shift. <i>Journal of Physics Condensed Matter</i> , 2005, 17, L257-L264.	1.8	9
61	Possible Anisotropic Order Parameter in Pyrochlore Superconductor $\text{KOs}_2\text{O}_6$ Probed by Muon Spin Rotation. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 1678-1681.	1.6	39
62	Possible unconventional superconductivity in $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$ probed by muon spin rotation and relaxation. <i>Physical Review B</i> , 2004, 70, .	3.2	57
63	Strong Correlation Between Field-induced Magnetism and Superconductivity in $\text{Pr}_{0.89}\text{La}_{0.11}\text{CuO}_4$ . <i>Journal of the Physical Society of Japan</i> , 2004, 73, 2944-2947.	1.6	12
64	Unconventional Behavior of Field-induced Quasiparticle Excitation in $\text{Ca}(\text{Al}_{0.5}\text{Si}_{0.5})_2$ . <i>Journal of the Physical Society of Japan</i> , 2004, 73, 2631-2634.	1.6	13
65	Magnetic Ground State of $\text{Pr}_{0.89}\text{La}_{0.11}\text{CuO}_4$ with Varied Oxygen Depletion Probed by Muon Spin Relaxation. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 2955-2958.	1.6	16
66	Quasiparticle Excitations outside the Vortex Cores in $\text{MgB}_2$ Probed by Muon Spin Rotation. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 29-32.	1.6	32
67	Quasiparticle Excitation in the Superconducting Pyrochlore $\text{Cd}_2\text{Re}_2\text{O}_7$ Probed by Muon Spin Rotation. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 709-712.	1.6	22
68	$\mu\text{SR}$ Study of Cu Benzoate at Very Low Temperature – Existence or Nonexistence of Long Range Order in Coupled Chains –. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 594-598.	1.6	20
69	Evidence for the Coexistence of Superconductivity and the Magnetic A-Phase in $\text{CeCu}_2\text{Si}_2$ Proved by Muon Knight Shift. <i>Journal of the Physical Society of Japan</i> , 2002, 71, 1427-1430.	1.6	8
70	$\mu\text{SR}$ Studies on Heavy Fermion Superconductors $\text{CeIrIn}_5$ and $\text{CeCoIn}_5$ . <i>Journal of the Physical Society of Japan</i> , 2002, 71, 1023-1026.	1.6	37
71	Muon Spin Relaxation Study of Magnetism of a Triangular Lattice $\text{BaVS}_3$ . <i>Journal of the Physical Society of Japan</i> , 2002, 71, 2361-2364.	1.6	12
72	Field-Induced Long-Range Ordering in Haldane Gap System $\text{NDMAZ}$ . <i>Journal of the Physical Society of Japan</i> , 2001, 70, 813-817.	1.6	7

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73	Spin Dynamics of 4f Electrons in CeB <sub>6</sub> Studied by Muon Spin Relaxation. Journal of the Physical Society of Japan, 2000, 69, 3189-3192.	1.6	10
74	Orbital Frustration and Resonating Valence Bond State in the Spin-1/2 Triangular Lattice LiNiO <sub>2</sub> . Journal of the Physical Society of Japan, 1998, 67, 3703-3706.	1.6	85
75	Low Temperature Thermal and Magnetic Properties of Cu-Doped Haldane Gap Antiferromagnet NENP. Journal of the Physical Society of Japan, 1995, 64, 2609-2613.	1.6	14