

# Klaus Kiefer

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

2,888  
citations

257450

24  
h-index

161849

54  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3574  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Criticality in an Ising Chain: Experimental Evidence for Emergent $E \times 8$ Symmetry. Science, 2010, 327, 177-180.	12.6	528
2	Dirac Strings and Magnetic Monopoles in the Spin Ice $Dy_2Ti_2O_7$ . Science, 2009, 326, 411-414.	12.6	499
3	Quantum-spin-liquid states in the two-dimensional kagome antiferromagnets $ZnCu_4x(OD)_6Cl_2$ . Nature Materials, 2007, 6, 853-857.	27.5	178
4	Thermodynamics of the Spin Luttinger Liquid in a Model Ladder Material. Physical Review Letters, 2008, 101, 247202.	7.8	149
5	Effect of decomposition of the $Fe-Co$ rich phase of AlCoCrCuFeNi high entropy alloy on magnetic properties. Ultramicroscopy, 2011, 111, 619-622.	1.9	131
6	Direct Observation of Magnon Fractionalization in the Quantum Spin Ladder. Physical Review Letters, 2009, 102, 107204.	7.8	105
7	Quasi-Elastic Neutron Scattering Studies on Clay Interlayer-Space Highlighting the Effect of the Cation in Confined Water Dynamics. Journal of Physical Chemistry C, 2008, 112, 13982-13991.	3.1	87
8	Field-controlled magnetic order in the quantum spin-ladder system $\text{Ce}_{1-x}\text{Co}_x\text{Mg}_2\text{Sb}_2$ Physical Review B, 2009, 79, .	3.2	80
9	Magnetic structure of Cd-doped $\text{Ce}_{1-x}\text{Co}_x\text{Mg}_2\text{Sb}_2$ Physical Review B, 2007, 76, .	3.2	74
10	Solitonic lattice and Yukawa forces in the rare-earth orthoferrite $TbFeO_3$ . Nature Materials, 2012, 11, 694-699.	27.5	70
11	Comprehensive study on ferroelectricity induced by a proper-screw-type magnetic ordering in multiferroic $CuFeO_2$ : Nonmagnetic impurity effect on magnetic and ferroelectric order. Physical Review B, 2009, 79, .	3.2	68
12	Excitations from a Bose-Einstein Condensate of Magnons in Coupled Spin Ladders. Physical Review Letters, 2007, 98, 167202. Magnetic Frustration in a Quantum Spin Chain: The Case of Linarite	7.8	57
13	$\text{PbCuSO}_4$ $\text{OH} \cdot \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 252 Td (s$ 2012, 108, 117202.	7.8	55
14	Magnetic microemulsions based on magnetic ionic liquids. Physical Chemistry Chemical Physics, 2012, 14, 15355.	2.8	47
15	Instability of magnons in two-dimensional antiferromagnets at high magnetic fields. Physical Review B, 2010, 81, .	3.2	43
16	Dipolar Antiferromagnetism and Quantum Criticality in $LiErF_4$ . Science, 2012, 336, 1416-1419.	12.6	42
17	Magnetic excitations of the gapped quantum spin dimer antiferromagnet $\text{Sr}_3\text{Mg}_2\text{Sb}_2$ Physical Review B, 2010, 81, .	3.2	41
18	Thermal Relaxation and Heat Transport in the Spin Ice Material $Dy_2Ti_2O_7$ . Journal of Low Temperature Physics, 2011, 163, 345-369.	1.4	41

#	ARTICLE	IF	CITATIONS
19	Mutual induction of magnetic 3d and 4f order in multiferroic hexagonal ErMnO <sub>3</sub> . Physical Review B, 2012, 86, .	3.2	37
20	Iron Nitride and Carbide: from Crystalline Nanoparticles to Stable Aqueous Dispersions. Chemistry of Materials, 2012, 24, 2716-2721.	6.7	36
21	Dynamics of quantum spin liquid and spin solid phases in $\text{Cu}_2\text{Cl}(\text{OH})_2$ under an applied magnetic field studied with neutron scattering. Physical Review B, 2007, 76, .	3.2	33
22	Magnetism and superconductivity driven by identical $f$ states in a heavy-fermion metal. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9537-9540.	7.1	32
23	External Magnetic Field Effects on a Distorted Kagome Antiferromagnet. Physical Review Letters, 2008, 101, 107201.	7.8	27
24	Ga substitution as an effective variation of Mn-Tb coupling in multiferroic $\text{TbMnO}_3$ . Physical Review B, 2010, 81, .	3.2	25
25	Helical magnetic order in the distorted triangular antiferromagnet $\text{CaCr}_2\text{As}_2$ . Physical Review B, 2009, 79, .	3.2	25
26	Spin ladders and quantum simulators for Tomonaga-Luttinger liquids. Journal of Physics Condensed Matter, 2013, 25, 014004.	1.8	25
27	Upgrade project NEAT at Helmholtz Zentrum Berlin: What can be done on the medium power neutron source. Physica B: Condensed Matter, 2018, 551, 506-511.	2.7	25
28	Neutron scattering investigations of the partially ordered pyrochlore $\text{Tb}_2\text{Sn}_2\text{O}_7$ . Journal of Physics Condensed Matter, 2009, 21, 486005.	1.8	24
29	Magnetic structure and interactions in the quasi-one-dimensional antiferromagnet $\text{CaV}_2\text{As}_2$ . Physical Review B, 2009, 79, .	3.2	23
30	BerILL: The ultimate humidity chamber for neutron scattering. Journal of Neutron Research, 2019, 21, 65-76.	1.1	22
31	Crystal-to-stripe reordering of sodium ions in $\text{Na}_x\text{Mg}_2\text{Si}_2\text{O}_{10}$ . Physical Review B, 2009, 79, .		

#	ARTICLE	IF	CITATIONS
37	Growth and magnetic properties of stoichiometric and site-disordered single crystalline MgV <sub>2</sub> O <sub>4</sub> . Physical Review B, 2012, 85, .	3.2	12
38	MultiFLEXX - The new multi-analyzer at the cold triple-axis spectrometer FLEXX. Scientific Reports, 2017, 7, 13637.	3.3	12
39	Li/MgO Catalysts Doped with Alio€valent Ions. Part I: Structure, Composition, and Catalytic Properties. ChemCatChem, 2017, 9, 3583-3596.	3.7	11
40	Spin-lattice-coupling-mediated magnetoferroelectric phase transition induced by uniaxial pressure in multiferroic $\text{CuFe}$		

#	ARTICLE	IF	CITATIONS
55	A resolution model for mode multiplets probed with neutron resonance spin-echo spectroscopy. Physica B: Condensed Matter, 2011, 406, 2342-2345.	2.7	4
56	An introduction to SECoP – the sample environment communication protocol. Journal of Neutron Research, 2020, 21, 181-195.	1.1	4
57	Magnetic Field Dependence of a Capacitance Temperature Sensor. Journal of Low Temperature Physics, 2007, 147, 517-524.	1.4	2
58	Low temperature magnetic order in HoFe2Ge2. Solid State Communications, 2009, 149, 1261-1263.	1.9	2
59	Anisotropy-tuning by doping: phase diagram of CsNi0.98Fe0.02Cl3 measured by caloric experiments. Journal of Magnetism and Magnetic Materials, 2001, 236, 255-261.	2.3	1
60	Magnetic phase diagram of CePt <sub>3</sub> Si. Physical Review B, 2012, 86, .	3.2	1
61	Quantum features in the spin dynamics of 1 Heisenberg antiferromagnets in spite of long-range ordered phases. Physica B: Condensed Matter, 2000, 276-278, 782-783.	2.7	0
62	Phase diagram and tetracritical behaviour of CsVBr3. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 359-360.	2.3	0
63	10th ISSE Workshop on Sample Environment at Scattering Facilities at the Helmholtz-Zentrum Berlin. Neutron News, 2019, 30, 2-4.	0.2	0