

Klaus Kiefer

List of Publications by Year in descending order

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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	An introduction to SECoP – the sample environment communication protocol. Journal of Neutron Research, 2020, 21, 181-195.	1.1	4
2	10th ISSE Workshop on Sample Environment at Scattering Facilities at the Helmholtz-Zentrum Berlin. Neutron News, 2019, 30, 2-4.	0.2	0
3	BerILL: The ultimate humidity chamber for neutron scattering. Journal of Neutron Research, 2019, 21, 65-76.	1.1	22
4	Branch-Like Iron Nitride and Carbide Magnetic Fibres Using an Electrospinning Technique. Chemistry - A European Journal, 2018, 24, 4895-4901.	3.3	10
5	Upgrade project NEAT-2016 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
6	Incommensurate atomic and magnetic modulations in the spin-frustrated O_2 triangular lattice. Physical Review Materials, 2018, 2, .	2.4	8
7	Li/MgO Catalysts Doped with Aliovalent Ions. Part I: Structure, Composition, and Catalytic Properties. ChemCatChem, 2017, 9, 3583-3596.	3.7	11
8	MultiFLEXX - The new multi-analyzer at the cold triple-axis spectrometer FLEXX. Scientific Reports, 2017, 7, 13637.	3.3	12
9	Spin-lattice-coupling-mediated magnetoferroelectric phase transition induced by uniaxial pressure in multiferroic CuFe		

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19	Dipolar Antiferromagnetism and Quantum Criticality in LiErF ₄ . Science, 2012, 336, 1416-1419.	12.6	42
20	Solitonic lattice and Yukawa forces in the rare-earth orthoferrite TbFeO ₃ . Nature Materials, 2012, 11, 694-699.	27.5	70
21	Low temperature ferroelectric phase and magnetoelectric coupling in underdoped La _{2-x} CuO ₄ . Physical Review B, 2010, 81, 120405.	3.2	16
22	Helical magnetic order in the distorted triangular antiferromagnet CaCr ₂ As ₂ . Physical Review B, 2010, 81, 040408.	3.2	25
23	Thermal Relaxation and Heat Transport in the Spin Ice Material Dy ₂ Ti ₂ O ₇ . Journal of Low Temperature Physics, 2011, 163, 345-369.	1.4	41
24	A resolution model for mode multiplets probed with neutron resonance spin-echo spectroscopy. Physica B: Condensed Matter, 2011, 406, 2342-2345.	2.7	4
25	Effect of decomposition of the Cr-Fe-Co rich phase of AlCoCrCuFeNi high entropy alloy on magnetic properties. Ultramicroscopy, 2011, 111, 619-622.	1.9	131
26	Simultaneous polarized neutron reflectometry and anisotropic magnetoresistance measurements. Review of Scientific Instruments, 2011, 82, 033902.	1.3	7
27	High field magnetization of Tm ₂ AlB ₆ , an AlB ₂ -type analogue compound. Journal of Physics: Conference Series, 2010, 200, 012127.	0.4	4
28	Magnetic transitions in YbCo ₂ Si ₂ . Journal of Physics: Conference Series, 2010, 200, 032031.	0.4	6
29	Ga substitution as an effective variation of Mn-Tb coupling in multiferroic TbMnO ₃ . Physical Review B, 2010, 81, 040408.	3.2	25
30	Quantum Criticality in an Ising Chain: Experimental Evidence for Emergent E ₈ Symmetry. Science, 2010, 327, 177-180.	12.6	528
31	Magnetism and superconductivity driven by identical <i>f</i> 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
32	Instability of magnons in two-dimensional antiferromagnets at high magnetic fields. Physical Review B, 2010, 81, 040408.	3.2	43
33	Optical Floating-Zone Growth of Large Single Crystal of Spin Half Dimer Sr ₃ Cr ₂ O ₈ . Crystal Growth and Design, 2010, 10, 465-468.	3.0	17
34	Magnetic excitations of the gapped quantum spin dimer antiferromagnet Sr ₃ Cr ₂ O ₈ . Physical Review B, 2010, 81, 040408.	3.2	41
35	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, 040408.	3.2	68
36	Field-controlled magnetic order in the quantum spin-ladder system H ₂ Si ₂ O ₇ . Physical Review B, 2009, 79, 040408.	3.2	80

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37	Magnetic structure and interactions in the quasi-one-dimensional antiferromagnet CaV_2S_3 . Physical Review B, 2009, 79, .		
38	Excitations from a chiral magnetized state of a frustrated quantum spin liquid. Physical Review B, 2009, 80, .	3.2	8
39	Crystal-to-stripe reordering of sodium ions in $\text{Na}_x\text{Mg}_2\text{S}_3$. Physical Review B, 2010, 81, .		

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55	Excitations from a Bose-Einstein Condensate of Magnons in Coupled Spin Ladders. Physical Review Letters, 2007, 98, 167202.	7.8	57
56	Quantum-spin-liquid states in the two-dimensional kagome antiferromagnets $Zn_xCu_{4-x}(OD)_6Cl_2$. Nature Materials, 2007, 6, 853-857.	27.5	178
57	Magnetic Field Dependence of a Capacitance Temperature Sensor. Journal of Low Temperature Physics, 2007, 147, 517-524.	1.4	2
58	Phase diagram and tetracritical behaviour of CsVBr ₃ . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 359-360.	2.3	0
59	Tuning anisotropy by impurities: magnetocaloric experiments on CsNi _{0.9} Fe _{0.1} Cl ₃ . European Physical Journal B, 2001, 22, 461-471.	1.5	8
60	Anisotropy-tuning by doping: phase diagram of CsNi _{0.98} Fe _{0.02} Cl ₃ measured by caloric experiments. Journal of Magnetism and Magnetic Materials, 2001, 236, 255-261.	2.3	1
61	Dipolar ordering and glassy freezing in methanol- $\hat{1}^2$ -hydroquinone-clathrate. Physical Review B, 2001, 63, .	3.2	10
62	Quantum features in the spin dynamics of and 1 Heisenberg antiferromagnets in spite of long-range ordered phases. Physica B: Condensed Matter, 2000, 276-278, 782-783.	2.7	0
63	Dipolar ordering and glassy freezing in a clathrate. Europhysics Letters, 2000, 51, 407-412.	2.0	7