

Konrad Siemensmeyer

List of Publications by Year in descending order

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citations

304368

22
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155451

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98
all docs

98
docs citations

98
times ranked

2457
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast photoconduction in the highly ordered columnar phase of a discotic liquid crystal. Nature, 1994, 371, 141-143.	13.7	1,210
2	Transient photoconductivity in a discotic liquid crystal. Physical Review Letters, 1993, 70, 457-460.	2.9	469
3	Magnetic order in the different superconducting states of UPt ₃ . Physical Review Letters, 1989, 63, 676-679.	2.9	165
4	Fractional Magnetization Plateaus and Magnetic Order in the Shastry-Sutherland Magnet TmB_4 . Physical Review Letters, 2008, 101, 177201.	2.9	134
5	Effect of decomposition of the CrFeCo rich phase of AlCoCrCuFeNi high entropy alloy on magnetic properties. Ultramicroscopy, 2011, 111, 619-622.	0.8	131
6	Realization of a broad band neutron spin filter with compressed, polarized 3He gas. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 384, 444-450.	0.7	94
7	Observation of Nuclear Antiferromagnetic Order in Copper by Neutron Diffraction at Nanokelvin Temperatures. Physical Review Letters, 1988, 60, 2418-2421.	2.9	50
8	Magnetism and superconductivity of rare earth borides. Journal of Alloys and Compounds, 2020, 821, 153201.	2.8	50
9	Discotic Liquid Crystals – A New Class of Fast Photoconductors. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1993, 97, 1366-1370.	0.9	48
10	Magnetism of rare earth tetraborides. Journal of Physics: Conference Series, 2010, 200, 032041.	0.3	45
11	Nuclear order in copper: New type of antiferromagnetism in an ideal fcc system. Physical Review Letters, 1990, 64, 1421-1424.	2.9	42
12	Low Temperature Properties and Superconductivity of LuB ₁₂ . Journal of Low Temperature Physics, 2005, 140, 339-353.	0.6	37
13	Dissimilarities between the electronic structure of chemically doped and chemically pressurized iron pnictides from an angle-resolved photoemission spectroscopy study. Physical Review B, 2011, 84, .	1.1	36
14	Iron Nitride and Carbide: from Crystalline Nanoparticles to Stable Aqueous Dispersions. Chemistry of Materials, 2012, 24, 2716-2721.	3.2	36
15	Phase diagram and magnetic structure investigation of the fcc antiferromagnet HoB ₁₂ . Physical Review B, 2004, 70, .	1.1	32
16	Neutron Experiments on Antiferromagnetic Nuclear Order in Silver at Picokelvin Temperatures. Physical Review Letters, 1995, 75, 3744-3747.	2.9	29
17	Magnetic Properties of the Frustrated fcc Antiferromagnet HoB ₁₂ Above and Below T _N . Journal of Low Temperature Physics, 2007, 146, 581-605.	0.6	29
18	Magnetic Structure and Phase Diagram of TmB ₄ . Acta Physica Polonica A, 2008, 113, 227-230.	0.2	28

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19	Neutron diffraction studies of nuclear magnetic ordering in copper. Journal of Low Temperature Physics, 1989, 74, 435-473.	0.6	26
20	Rotating magnetocaloric effect and unusual magnetic features in metallic strongly anisotropic geometrically frustrated TmB ₄ . Scientific Reports, 2018, 8, 10933.	1.6	26
21	Magnetic and transport properties of the itinerant electron system Hf _{1-x} TaxFe ₂ . Journal of Applied Physics, 1997, 81, 4218-4220.	1.1	23
22	Photopolymerization and Transport Properties of Liquid Crystalline Triphenylenes. Molecular Crystals and Liquid Crystals, 1997, 299, 149-155.	0.3	23
23	Magnetic structure of rare-earth dodecaborides. Journal of Solid State Chemistry, 2006, 179, 2748-2750.	1.4	22
24	Maltese cross anisotropy in HoB_{12} antiferromagnetic metal with dynamic charge stripes. Physical Review B, 2019, 99, .	1.1	20
25	Hyperfine Induced Nuclear Polarization in Nd ₂ CuO ₄ . Europhysics Letters, 1995, 29, 579-584.	0.7	19
26	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.	1.4	17
27	Magnetic Ordering in Boron-Rich Borides TbB ₆₆ and GdB ₆₆ . Acta Physica Polonica A, 2010, 118, 875-876.	0.2	16
28	Ferrimagnetism in manganese-rich gallium and aluminium spinels due to mixed valence Mn ²⁺ Mn ³⁺ states. Dalton Transactions, 2018, 47, 2727-2738.	1.6	15
29	Suppression of indirect exchange and symmetry breaking in the antiferromagnetic metal HoB_{12} with dynamic charge stripes. Physical Review B, 2020, 102, .	1.1	15
30	Magnetic ordering in HoB ₁₂ below and above TN. Journal of Magnetism and Magnetic Materials, 2007, 310, 1727-1729.	1.0	14
31	Growth and magnetic properties of stoichiometric and site-disordered single crystalline MgV ₂ O ₄ . Physical Review B, 2012, 85, .	1.1	12
32	Synthesis of thermo-responsive nanocomposites of superparamagnetic cobalt nanoparticles/poly(N-isopropylacrylamide). Journal of Colloid and Interface Science, 2018, 526, 124-134.	5.0	11
33		1.1	10
34	Calibration and applications of polarized neutron thermometry at milli- and microkelvin temperatures. European Physical Journal B, 1988, 71, 139-148.	0.6	8
35	Electronic Properties of Discotic LC-Materials. Molecular Crystals and Liquid Crystals, 1996, 283, 63-68.	0.3	8
36	Rotating magnetocaloric effect in TmB ₄ – A comparison between estimations based on heat capacity and magnetization measurements. Journal of Magnetism and Magnetic Materials, 2019, 482, 186-191.	1.0	8

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37	Ground state and stability of the fractional plateau phase in metallic Shastry-Sutherland system TmB ₄ . Scientific Reports, 2021, 11, 6835.	1.6	8
38	Magnetic properties of the thulium layered compound Tm ₂ AlB ₁₁ 6: An AlB ₂ -type analogue. Journal of Applied Physics, 2009, 105, 07E124.	1.1	7
39	A polarized neutron diffraction study of nuclear polarization and order in HoVO ₄ . Journal of Magnetism and Magnetic Materials, 1986, 54-57, 1333-1334.	1.0	6
40	Magnetostrictive and quadrupolar anisotropy in nuclear magnetic fcc systems. European Physical Journal B, 1992, 89, 305-311.	0.6	6
41	Nanocasting of Superparamagnetic Iron Oxide Films with Ordered Mesoporosity. Advanced Materials Interfaces, 2018, 5, 1700960.	1.9	6
42	Synthesis of Polystyrene-Coated Superparamagnetic and Ferromagnetic Cobalt Nanoparticles. Polymers, 2018, 10, 1053.	2.0	6
43	Tuning the magnetocaloric effect in the Lu-doped frustrated Shastry-Sutherland system $Tm_{1-x}Lu_xB_4$. Physical Review B, 2020, 102, .	1.1	6
44	Neutron scattering investigation of the ordered state of the nuclear spins in Cu at 60 nK. Journal of Applied Physics, 1990, 67, 5433-5435.	1.1	5
45	Unconventional Growth Mechanism in Optical Traveling Solvent Floating Zone Growth of Large $\text{PbCuNb}_2\text{O}_6$ Single Crystals. Crystal Growth and Design, 2011, 11, 154-157.	1.4	5
46	Crystal-field potential and short-range order effects in inelastic neutron scattering, magnetization, and heat capacity of the cage-glass compound $\text{HoB}_{12}\text{Mn}_5$. Physical Review B, 2021, 104, .	1.1	5
47	Crystal growth, characterization, and phase transition of $\text{PbCuTe}_2\text{O}_6$. Physical Review Materials, 2021, 5, .	0.9	5
48	Magnetization reversal driven by electron localization-delocalization crossover in the inverse spinel Co_2Mn_5 . Physical Review B, 2022, 105, .	1.1	5
49	Comparative Dielectric Investigations of Liquid Crystalline Oligomers and Monomers. Molecular Crystals and Liquid Crystals, 1995, 261, 481-489.	0.3	4
50	Partial conversion of neutron incoherent into coherent scattering by NH ₃ quantum rotators. Physica B: Condensed Matter, 1996, 226, 234-237.	1.3	4
51	Field-induced to phase transition in Nd ₂ CuO ₄ at millikelvin temperatures. Physica B: Condensed Matter, 1997, 234-236, 715-716.	1.3	4
52	Realization of a broad-band neutron spin filter with compressed, polarized 3He gas. Physica B: Condensed Matter, 1997, 234-236, 1078-1079.	1.3	4
53	Feasibility of neutron diffraction on solid 3He. Physica B: Condensed Matter, 2000, 284-288, 363-364.	1.3	4
54	Field-induced phase transition in a type III FCC antiferromagnet: K ₂ IrCl ₆ . Journal of Magnetism and Magnetic Materials, 2001, 226-230, 621-622.	1.0	4

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55	High field magnetization of $Tm_{2}AlB_{6}$, an AlB_{2} -type analogue compound. <i>Journal of Physics: Conference Series</i> , 2010, 200, 012127.	0.3	4
56	Magnetic Phase Diagram of TmB_{4} under High Pressure. <i>Acta Physica Polonica A</i> , 2014, 126, 356-357.	0.2	4
57	Structural perspective on revealing heat dissipation behavior of $CoFe_{2}O_{4}$ -Pd nano hybrids: great promise for magnetic fluid hyperthermia. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26728-26741.	1.3	4
58	High compressibility of synthetic analogues of binary iridium-ruthenium and ternary iridium-osmium-ruthenium minerals. <i>Materialia</i> , 2020, 14, 100920.	1.3	4
59	Phonon Drag and Magnetic Anomalies of Thermopower in RB_{12} (R = Ho, Er, Tm, Lu). <i>Acta Physica Polonica A</i> , 2008, 113, 275-278.	0.2	4
60	The phase diagram and the magnetic structure of nuclear spins in elemental copper below 60 nK. <i>Physica B: Condensed Matter</i> , 1992, 180-181, 29-30.	1.3	3
61	Observation of hyperfine-induced nuclear polarization in $Nd_{2}CuO_{4}$. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 1563-1564.	0.6	3
62	Energy integrated neutron cross sections of an uniaxial unhindered quantum rotor XH_{3} . <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997, 104, 235-239.	1.1	3
63	Temperature evolution of Pr-ion magnetic response in PrB_{6} . <i>Journal of Alloys and Compounds</i> , 2007, 442, 180-182.	2.8	3
64	Influence of Lu Substitution on the frustrated antiferromagnetic system HoB_{12} . <i>Solid State Sciences</i> , 2012, 14, 1722-1724.	1.5	3
65	Bulk and Local Magnetic Susceptibility of ErB_{12} . <i>Acta Physica Polonica A</i> , 2008, 113, 271-274.	0.2	3
66	Neutron studies of nuclear magnetism at ultralow temperature. <i>Physica B: Condensed Matter</i> , 1997, 241-243, 506-510.	1.3	2
67	Magnetic order in the fcc symmetry: phase diagram and structure of ReB_{12} . <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s829-s830.	1.1	2
68	Neutron Scattering Experiment on Solid 3He . <i>Journal of Low Temperature Physics</i> , 2002, 126, 51-56.	0.6	2
69	Electron-quasiparticle Interaction in HoB_{12} . <i>European Physical Journal D</i> , 2004, 54, 375-378.	0.4	2
70	Phase Diagram of TmB_{4} Probed by AC Calorimetry. <i>Acta Physica Polonica A</i> , 2010, 118, 903-904.	0.2	2
71	Neutron Scattering Experiments on Nuclear Magnets Set-up and First Results. <i>Japanese Journal of Applied Physics</i> , 1987, 26, 1717.	0.8	2
72	Nuclear order in copper: new type of antiferromagnetism in an ideal fcc system. <i>Physica B: Condensed Matter</i> , 1990, 165-166, 779-780.	1.3	1

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73	Kinetics, hysteresis and nonadiabaticity of the phase transitions in the nuclear spin system of copper. Physica B: Condensed Matter, 1990, 165-166, 783-784.	1.3	1
74	Nuclear order in silver at pico-Kelvin temperature. Physica B: Condensed Matter, 1997, 234-236, 768-769.	1.3	1
75	Development of Fe ₃ xMnxSi (x = 0.05) as monochromator for polarized neutrons. Physica B: Condensed Matter, 1997, 234-236, 1074-1075.	1.3	1
76	Polarisation analysis for the determination of magnetic structures in high magnetic fields. Physica B: Condensed Matter, 2001, 297, 204-207.	1.3	1
77	Pt black powder as a heat exchanger at ultralow temperature. Journal of Low Temperature Physics, 2001, 122, 433-441.	0.6	1
78	Neutron scattering from solid. Physica B: Condensed Matter, 2003, 329-333, 392-393.	1.3	1
79	Neutron diffraction on HoB ₁₂ . Journal of Magnetism and Magnetic Materials, 2004, 272-276, E435-E437.	1.0	1
80	Neutron studies of crystal-field effects in PrB ₆ . Journal of Experimental and Theoretical Physics, 2007, 105, 12-13.	0.2	1
81	Preparation and orientation of solid ³ He crystals for neutron diffraction investigations. Journal of Physics Condensed Matter, 2008, 20, 104246.	0.7	1
82	Magnetic properties of Ho _{1-x} Lu _x B ₁₂ solid solutions. Journal of the Korean Physical Society, 2013, 62, 1514-1516.	0.3	1
83	Magnetocaloric Effect in Geometrically Frustrated Magnetic Compound HoB ₁₂ . Acta Physica Polonica A, 2010, 118, 873-874.	0.2	1
84	Nuclear antiferromagnetic phases of copper in a field. Physica B: Condensed Matter, 1990, 165-166, 781-782.	1.3	0
85	Linear magnetic birefringence of the hyperfine enhanced nuclear magnet HoVO ₄ at low temperature. Journal of Physics Condensed Matter, 1994, 6, 5189-5195.	0.7	0
86	Neutron experiments on nuclear order in silver at pK temperatures. European Physical Journal D, 1996, 46, 2201-2202.	0.4	0
87	Neutron diffraction determination of the nuclear spin ordering in Cu and Ag at nano- and subnano-K temperatures (invited). Journal of Applied Physics, 1996, 79, 5078.	1.1	0
88	The partial conversion of incoherent into coherent neutron scattering from rotating molecules. Physica B: Condensed Matter, 1997, 234-236, 59-60.	1.3	0
89	The increase in neutron reflectivity from Co _{0.92} Fe _{0.08} alloy single crystal plates resulting from cold hammering of the plates. Physica B: Condensed Matter, 1997, 234-236, 1076-1077.	1.3	0
90	Neutron-scattering experiment on solid ³ He. Applied Physics A: Materials Science and Processing, 2002, 74, s837-s839.	1.1	0

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91	Temperature and field dependence of the magnetic properties of Nd _{2-x} Ce _x CuO ₄ . European Physical Journal B, 2004, 42, 205-217.	0.6	0
92	Intricate Magnetic Properties of Some Rare Earth Dodecaborides. European Physical Journal D, 2004, 54, 273-278.	0.4	0
93	Magnetic phase diagram of HoB12. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E469-E471.	1.0	0
94	Transport Properties of HoB12. AIP Conference Proceedings, 2006, , .	0.3	0
95	Nuclear Magnetism and Neutrons. Experimental Methods in the Physical Sciences, 2015, 48, 435-488.	0.1	0