

Heribert Wilhelm

List of Publications by Year in descending order

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69
papers

3,202
citations

257450

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149698

56
g-index

69
all docs

69
docs citations

69
times ranked

3791
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple low-temperature skyrmionic states in a bulk chiral magnet. Npj Quantum Materials, 2019, 4, .	5.2	49
2	1 m long multilayer-coated deformable piezoelectric bimorph mirror for adjustable focusing of high-energy X-rays. Optics Express, 2019, 27, 16121.	3.4	16
3	A novel, 1.6 m long multilayer-coated piezo deformable bimorph mirror for focusing high-energy x-rays. AIP Conference Proceedings, 2019, , .	0.4	1
4	Quasi-hydrostatic equation of state of silicon up to 1 megabar at ambient temperature. Scientific Reports, 2019, 9, 15537.	3.3	14
5	Laser-heating system for high-pressure X-ray diffraction at the Extreme Conditions beamline I15 at Diamond Light Source. Journal of Synchrotron Radiation, 2018, 25, 1860-1868.	2.4	21
6	New magnetic phase of the chiral skyrmion material Cu_2OSeO_3 . Science Advances, 2018, 4, eaat7323.	10.3	66
7	Defect dynamics and strain coupling to magnetization in the cubic helimagnet Cu_2OSeO_3 . Physical Review B, 2017, 95, .	3.2	16
8	Three-energy focusing Laue monochromator for the diamond light source x-ray pair distribution function beamline I15-1. AIP Conference Proceedings, 2016, , .	0.4	5
9	Amorphous silicate nanoparticles with controlled Fe-Mg pyroxene compositions. Journal of Non-Crystalline Solids, 2016, 447, 255-261.	3.1	4
10	Phase diagram and magnetic relaxation phenomena in Cu_2OSeO_3 . Physical Review B, 2016, 94, .	3.2	43
11	Source assemblage types for cratonic diamonds from X-ray synchrotron diffraction. Lithos, 2016, 265, 334-338.	1.4	9
12	Scaling study and thermodynamic properties of the cubic helimagnet FeGe. Physical Review B, 2016, 94, .	3.2	34
13	Dynamics of mineral crystallization from precipitated slab-derived fluid phase: first in situ synchrotron X-ray measurements. Contributions To Mineralogy and Petrology, 2015, 169, 1.	3.1	13
14	Status of the crystallography beamlines at Diamond Light Source. European Physical Journal Plus, 2015, 130, 1.	2.6	16
15	Bulk and Molecular Compressibilities of Organic-Inorganic Hybrids $[(\text{CH}_3)_3\text{N}]_2\text{MnX}_4$ (X = Cl, Br); Role of Intermolecular Interactions. Inorganic Chemistry, 2014, 53, 10708-10715.	4.0	33
16	Correlated defect nanoregions in a metal-organic framework. Nature Communications, 2014, 5, 4176.	12.8	550
17	Effect of pressure cycling on iron: Signatures of an electronic instability and unconventional superconductivity. Physical Review B, 2013, 88, .	3.2	14
18	Probing Defects in a Small Pixelated CdTe Sensor Using an Inclined Mono Energetic X-Ray Micro Beam. IEEE Transactions on Nuclear Science, 2013, 60, 2864-2869.	2.0	5

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19	Complex Chiral Modulations in FeGe Close to Magnetic Ordering. Physical Review Letters, 2013, 110, 077207.	7.8	81
20	Thermodynamic investigations in the precursor region of FeGe. Physica Status Solidi (B): Basic Research, 2013, 250, 650-653.	1.5	22
21	Comparison of energy resolution spectra of CdTe TIMEPIX detector working in photon counting and time-over-threshold mode. , 2013, , .		1
22	Paramagnetic Resonance in the Cubic Helimagnet μ -FeGe. Journal of Physics: Conference Series, 2012, 391, 012105.	0.4	1
23	Confinement of chiral magnetic modulations in the precursor region of FeGe. Journal of Physics Condensed Matter, 2012, 24, 294204.	1.8	59
24	Imaging and spectroscopic performance studies of pixellated CdTe Timepix detector. Journal of Instrumentation, 2012, 7, C01038-C01038.	1.2	22
25	Depth of interaction and bias voltage dependence of the spectral response in a pixellated CdTe detector operating in time-over-threshold mode subjected to monochromatic X-rays. Journal of Instrumentation, 2012, 7, C03002-C03002.	1.2	3
26	Precursor Phenomena at the Magnetic Ordering of the Cubic Helimagnet FeGe. Physical Review Letters, 2011, 107, 127203.	7.8	288
27	Measurement of the dynamic response of compressed hydrogen by inelastic X-ray scattering. Journal of Physics: Conference Series, 2010, 244, 042014.	0.4	4
28	Progressive pressure-induced transformation from isolated $MnX_4(Td)$ to exchange-coupled $MnX_6(Oh)$ systems in $A_2MnX_4(X:Cl,Br)$ crystals. Journal of Physics: Conference Series, 2010, 215, 012043.	0.4	0
29	Optical evidence for heavy charge carriers in FeGe. Physical Review B, 2007, 75, .	3.2	9
30	Metallic State in Cubic FeGe Beyond Its Quantum Phase Transition. Physical Review Letters, 2007, 98, 047204.	7.8	64
31	Structure of sodium above 100 GPa by single-crystal x-ray diffraction. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17297-17299.	7.1	75
32	RaduetÅal.Reply.. Physical Review Letters, 2007, 98, .	7.8	3
33	Structural investigations of μ -FeGe at high pressure and low temperature. Science and Technology of Advanced Materials, 2007, 8, 416-419.	6.1	16
34	RaduetÅal.Reply.. Physical Review Letters, 2006, 96, .	7.8	11
35	Magnetic phase transitions in the two-dimensional frustrated quantum antiferromagnet Cs_2CuCl_4 . Physical Review B, 2006, 73, .	3.2	63
36	Temperature- and pressure-induced valence transition in. Physica B: Condensed Matter, 2006, 378-380, 724-725.	2.7	21

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37	Thermoelectrical power of heavy fermion compounds. Physica B: Condensed Matter, 2006, 378-380, 644-647.	2.7	6
38	Electrical resistivity of at high pressure. Physica B: Condensed Matter, 2005, 359-361, 50-52.	2.7	10
39	Specific heat of single crystals in the vicinity of the quantum critical point. Physica B: Condensed Matter, 2005, 359-361, 62-64.	2.7	8
40	High-pressure transport properties of CeRu ₂ Ge ₂ . Journal of Physics Condensed Matter, 2005, 17, S823-S836.	1.8	12
41	Bose-Einstein Condensation of Magnons in Cs ₂ CuCl ₄ . Physical Review Letters, 2005, 95, 127202.	7.8	139
42	Probing the phase diagram of CeRu ₂ Ge ₂ by thermopower at high pressure. Physical Review B, 2004, 69, .	3.2	28
43	A compensated heat-pulse calorimeter for low temperatures. Review of Scientific Instruments, 2004, 75, 2700-2705.	1.3	42
44	Recent trends in heavy-fermion physics. Physica B: Condensed Matter, 2003, 329-333, 441-445.	2.7	4
45	The break-up of heavy electrons at a quantum critical point. Nature, 2003, 424, 524-527.	27.8	612
46	Quantum criticality in YbRh ₂ Si ₂ . Journal of Physics Condensed Matter, 2003, 15, S2047-S2053.	1.8	6
47	Calorimetric and transport investigations of CePd _{2+x} Ge ₂ (x=0 and 0.02) up to 22 GPa. Physical Review B, 2002, 66, .	3.2	23
48	Alternating current calorimetry at very high pressure and low temperature. Journal of Physics Condensed Matter, 2002, 14, 10683-10687.	1.8	4
49	The case for universality of the phase diagram of the Fabre and Bechgaard salts. European Physical Journal B, 2001, 21, 175-183.	1.5	47
50	From spin-Peierls to superconductivity: (TMTTF) ₂ PF ₆ under high pressure. Journal of Physics Condensed Matter, 2001, 13, L89-L95.	1.8	50
51	Pressure-induced residual resistivity anomaly in CeCu ₅ Au. Journal of Physics Condensed Matter, 2001, 13, L329-L335.	1.8	17
52	Pressure-Induced Structural Phase Transitions in Ln ₂ xNd _x CuO ₄ for Ln=La (0.6 ≤ x ≤ 2) and Ln=Pr (x=0). Journal of Solid State Chemistry, 2000, 151, 231-240.	2.9	10
53	Calorimetric investigation of CeRu ₂ Ge ₂ up to 8 GPa. Solid State Communications, 2000, 113, 367-371.	1.9	32
54	Superconductivity and non-Fermi liquid behavior close to the quantum critical point. Physica C: Superconductivity and Its Applications, 2000, 341-348, 733-734.	1.2	0

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55	Detailed investigation of the magnetic phase diagram of CeRu ₂ Ge ₂ up to 11 GPa. <i>Physical Review B</i> , 1999, 59, 3651-3660.	3.2	53
56	Transport evidence for pressure-induced superconductivity in CePd ₂ Si ₂ . <i>Solid State Communications</i> , 1999, 112, 617-620.	1.9	32
57	Transport properties of Yb-compounds at high pressure. <i>Physica B: Condensed Matter</i> , 1999, 259-261, 157-158.	2.7	23
58	CeRu ₂ Ge ₂ at high pressure as an analogue of CeRu ₂ (Si _{1-x} Ge _x) ₂ . <i>Physica B: Condensed Matter</i> , 1999, 259-261, 79-80.	2.7	3
59	Magnetism and superconductivity in heavy fermion compounds at high pressure. <i>Physica B: Condensed Matter</i> , 1999, 259-261, 1-7.	2.7	172
60	Pressure-induced magnetically ordered Kondo lattice state in. <i>European Physical Journal B</i> , 1998, 6, 5-11.	1.5	37
61	Transport properties of CeRu ₂ Ge ₂ at high pressure. <i>Solid State Communications</i> , 1998, 106, 239-242.	1.9	21
62	Electrical resistivity of YbInAu ₂ and YbCuAl up to 8GPa. <i>Solid State Communications</i> , 1998, 108, 279-283.	1.9	19
63	Influence of pressure on the crystal structure of Nd ₂ CuO ₄ . <i>Journal of Materials Chemistry</i> , 1998, 8, 2729-2732.	6.7	15
64	Pressure dependence of the superconducting critical temperature of the Tl _{0.5} Pb _{0.5} Sr ₂ Ca _{1-x} Y _x Cu ₂ O ₇ system. <i>Physical Review B</i> , 1997, 55, 11832-11838.	3.2	20
65	Pressure Induced Structural Transition in the Solid-Solution La _{2-x} Nd _x CuO ₄ for x = 0.6, 0.7, 1.2, and 1.5. <i>Journal of Solid State Chemistry</i> , 1996, 126, 88-94.	2.9	8
66	Pressure dependence of the superconducting critical temperature of HgBa ₂ Ca ₂ Cu ₃ O _{8+y} and HgBa ₂ Ca ₃ Cu ₄ O _{10+y} up to 30 GPa. <i>Physical Review B</i> , 1996, 54, 4265-4275.	3.2	49
67	Effect of pressure on 2-magnon Raman scattering in K ₂ NiF ₄ . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993, 168, 103-106.	5.6	13
68	Are two complex order parameters active in phase transitions of betaine calcium chloride dihydrate?. <i>Zeitschrift für Kristallographie</i> , 1991, 195, 75-83.	1.1	20
69	AC-Calorimetry at High Pressure and Low Temperature. <i>Advances in Solid State Physics</i> , 0, , 889-913.	0.8	15