

Heribert Wilhelm

List of Publications by Year in descending order

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69
papers

3,202
citations

257450

24
h-index

149698

56
g-index

69
all docs

69
docs citations

69
times ranked

3791
citing authors

#	ARTICLE	IF	CITATIONS
1	The break-up of heavy electrons at a quantum critical point. Nature, 2003, 424, 524-527.	27.8	612
2	Correlated defect nanoregions in a metal-organic framework. Nature Communications, 2014, 5, 4176.	12.8	550
3	Precursor Phenomena at the Magnetic Ordering of the Cubic Helimagnet FeGe. Physical Review Letters, 2011, 107, 127203.	7.8	288
4	Magnetism and superconductivity in heavy fermion compounds at high pressure. Physica B: Condensed Matter, 1999, 259-261, 1-7.	2.7	172
5	Bose-Einstein Condensation of Magnons in Cs ₂ CuCl ₄ . Physical Review Letters, 2005, 95, 127202.	7.8	139
6	Complex Chiral Modulations in FeGe Close to Magnetic Ordering. Physical Review Letters, 2013, 110, 077207.	7.8	81
7	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
8	New magnetic phase of the chiral skyrmion material Cu ₂ OSeO ₃ . Science Advances, 2018, 4, eaat7323.	10.3	66
9	Metallic State in Cubic FeGe Beyond Its Quantum Phase Transition. Physical Review Letters, 2007, 98, 047204.	7.8	64
10	Magnetic phase transitions in the two-dimensional frustrated quantum antiferromagnet Cs ₂ CuCl ₄ . Physical Review B, 2006, 73, .	3.2	63
11	Confinement of chiral magnetic modulations in the precursor region of FeGe. Journal of Physics Condensed Matter, 2012, 24, 294204.	1.8	59
12	Detailed investigation of the magnetic phase diagram of CeRu ₂ Ge ₂ up to 11 GPa. Physical Review B, 1999, 59, 3651-3660.	3.2	53
13	From spin-Peierls to superconductivity: (TMTTF) ₂ PF ₆ under high pressure. Journal of Physics Condensed Matter, 2001, 13, L89-L95.	1.8	50
14	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. Physical Review B, 1996, 54, 4265-4275.	3.2	49
15	Multiple low-temperature skyrmionic states in a bulk chiral magnet. Npj Quantum Materials, 2019, 4, .	5.2	49
16	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
17	Phase diagram and magnetic relaxation phenomena in Cu ₂ OSeO ₃ . Physical Review B, 2016, 94, .	3.2	43
18	A compensated heat-pulse calorimeter for low temperatures. Review of Scientific Instruments, 2004, 75, 2700-2705.	1.3	42

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19	Pressure-induced magnetically ordered Kondo lattice state in. European Physical Journal B, 1998, 6, 5-11.	1.5	37
20	Scaling study and thermodynamic properties of the cubic helimagnet FeGe. Physical Review B, 2016, 94, .	3.2	34
21	Bulk and Molecular Compressibilities of Organic-Inorganic Hybrids $[(\text{CH}_3)_3(\text{CH}_2)_4\text{N}]_2\text{MnX}_4$ (X = Cl, Br); Role of Intermolecular Interactions. Inorganic Chemistry, 2014, 53, 10708-10715.	4.0	33
22	Transport evidence for pressure-induced superconductivity in CePd ₂ Si ₂ . Solid State Communications, 1999, 112, 617-620.	1.9	32
23	Calorimetric investigation of CeRu ₂ Ge ₂ up to 8 GPa. Solid State Communications, 2000, 113, 367-371.	1.9	32
24	Probing the phase diagram of CeRu ₂ Ge ₂ by thermopower at high pressure. Physical Review B, 2004, 69, .	3.2	28
25	Transport properties of Yb-compounds at high pressure. Physica B: Condensed Matter, 1999, 259-261, 157-158.	2.7	23
26	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
27	Imaging and spectroscopic performance studies of pixellated CdTe Timepix detector. Journal of Instrumentation, 2012, 7, C01038-C01038.	1.2	22
28	Thermodynamic investigations in the precursor region of FeGe. Physica Status Solidi (B): Basic Research, 2013, 250, 650-653.	1.5	22
29	Transport properties of CeRu ₂ Ge ₂ at high pressure. Solid State Communications, 1998, 106, 239-242.	1.9	21
30	Temperature- and pressure-induced valence transition in. Physica B: Condensed Matter, 2006, 378-380, 724-725.	2.7	21
31	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
32	Are two complex order parameters active in phase transitions of betaine calcium chloride dihydrate?. Zeitschrift für Kristallographie, 1991, 195, 75-83.	1.1	20
33	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. Physical Review B, 1997, 55, 11832-11838.	3.2	20
34	Electrical resistivity of YbInAu ₂ and YbCuAl up to 8 GPa. Solid State Communications, 1998, 108, 279-283.	1.9	19
35	Pressure-induced residual resistivity anomaly in CeCu ₅ Au. Journal of Physics Condensed Matter, 2001, 13, L329-L335.	1.8	17
36	Structural investigations of -FeGe at high pressure and low temperature. Science and Technology of Advanced Materials, 2007, 8, 416-419.	6.1	16

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37	Status of the crystallography beamlines at Diamond Light Source. European Physical Journal Plus, 2015, 130, 1.	2.6	16
38	Defect dynamics and strain coupling to magnetization in the cubic helimagnet Cu_2OSe_3 . Physical Review B, 2017, 95, .	3.2	16
39	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
40	Influence of pressure on the crystal structure of Nd ₂ CuO ₄ . Journal of Materials Chemistry, 1998, 8, 2729-2732.	6.7	15
41	AC-Calorimetry at High Pressure and Low Temperature. Advances in Solid State Physics, 0, , 889-913.	0.8	15
42	Effect of pressure cycling on iron: Signatures of an electronic instability and unconventional superconductivity. Physical Review B, 2013, 88, .	3.2	14
43	Quasi-hydrostatic equation of state of silicon up to 1 megabar at ambient temperature. Scientific Reports, 2019, 9, 15537.	3.3	14
44	Effect of pressure on 2-magnon Raman scattering in K ₂ NiF ₄ . Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1993, 168, 103-106.	5.6	13
45	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
46	High-pressure transport properties of CeRu ₂ Ge ₂ . Journal of Physics Condensed Matter, 2005, 17, S823-S836.	1.8	12
47	RaduetÅal.Reply.. Physical Review Letters, 2006, 96, .	7.8	11
48	Pressure-Induced Structural Phase Transitions in Ln _{2-x} NdxCuO 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
49	Electrical resistivity of at high pressure. Physica B: Condensed Matter, 2005, 359-361, 50-52.	2.7	10
50	Optical evidence for heavy charge carriers in FeGe. Physical Review B, 2007, 75, .	3.2	9
51	Source assemblage types for cratonic diamonds from X-ray synchrotron diffraction. Lithos, 2016, 265, 334-338.	1.4	9
52	Pressure Induced Structural Transition in the Solid-Solution La _{2-x} NdxCuO ₄ for x= 0.6, 0.7, 1.2, and 1.5. Journal of Solid State Chemistry, 1996, 126, 88-94.	2.9	8
53	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
54	Quantum criticality in YbRh ₂ Si ₂ . Journal of Physics Condensed Matter, 2003, 15, S2047-S2053.	1.8	6

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55	Thermoelectrical power of heavy fermion compounds. Physica B: Condensed Matter, 2006, 378-380, 644-647.	2.7	6
56	Probing Defects in a Small Pixellated CdTe Sensor Using an Inclined Mono Energetic X-Ray Micro Beam. IEEE Transactions on Nuclear Science, 2013, 60, 2864-2869.	2.0	5
57	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
58	Alternating current calorimetry at very high pressure and low temperature. Journal of Physics Condensed Matter, 2002, 14, 10683-10687.	1.8	4
59	Recent trends in heavy-fermion physics. Physica B: Condensed Matter, 2003, 329-333, 441-445.	2.7	4
60	Measurement of the dynamic response of compressed hydrogen by inelastic X-ray scattering. Journal of Physics: Conference Series, 2010, 244, 042014.	0.4	4
61	Amorphous silicate nanoparticles with controlled Fe-Mg pyroxene compositions. Journal of Non-Crystalline Solids, 2016, 447, 255-261.	3.1	4
62	CeRu ₂ Ge ₂ at high pressure as an analogue of CeRu ₂ (Si _{1-x} Gex) ₂ . Physica B: Condensed Matter, 1999, 259-261, 79-80.	2.7	3
63	RaduetÅal.Reply:. Physical Review Letters, 2007, 98, .	7.8	3
64	Depth of interaction and bias voltage depenence 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
65	Paramagnetic Resonance in the Cubic Helimagnet ĩµ-FeGe. Journal of Physics: Conference Series, 2012, 391, 012105.	0.4	1
66	Comparison of energy resolution spectra of CdTe TIMEPIX detector working in photon counting and time-over-threshold mode. , 2013, , .		1
67	A novel, 1â€...m long multilayer-coated piezo deformable bimorph mirror for focusing high-energy x-rays. AIP Conference Proceedings, 2019, , .	0.4	1
68	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
69	Progressive pressure-induced transformation from isolated MnX ₄ (Td) to exchange-coupled MnX ₆ (Oh) systems in A ₂ MnX ₄ (X:Cl,Br) crystals. Journal of Physics: Conference Series, 2010, 215, 012043.	0.4	0