

Manfred Reehuis

List of Publications by Year in descending order

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101543

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145
all docs

145
docs citations

145
times ranked

4714
citing authors

#	ARTICLE	IF	CITATIONS
1	From $(\Gamma, 0)$ magnetic order to superconductivity with (Γ, Γ) magnetic resonance in $\text{Fe}_{1.02}\text{Te}_{1-x}\text{Se}_x$. Nature Materials, 2010, 9, 718-720.	27.5	248
2	Crystallographic symmetry and magnetic structure of CoO. Physical Review B, 2001, 64, .	3.2	198
3	$\text{Sr}_2\text{CrOsO}_6$: End point of a spin-polarized metal-insulator transition by 5d band filling. Physical Review B, 2007, 75, .	3.2	196
4	The rare earth transition metal phosphide oxides LnFePO , LnRuPO and LnCoPO with ZrCuSiAs type structure. Journal of Alloys and Compounds, 1995, 229, 238-242.	5.5	181
5	Magnetic Neutron Scattering Study of YVO_3 : Evidence for an Orbital Peierls State. Physical Review Letters, 2003, 91, 257202.	7.8	136
6	Structure and magnetic properties of the phosphides CaCo_2P_2 and LnT_2P_2 with ThCr_2Si_2 structure and LnTP with PbFCI structure ($\text{Ln} = \text{Lanthanoids}$, $\text{T} = \text{Fe, Co, Ni}$). Journal of Physics and Chemistry of Solids, 1990, 51, 961-968.	4.0	121
7	Confinement of fractional quantum number particles in a condensed-matter system. Nature Physics, 2010, 6, 50-55.	16.7	119
8	Crystallographic and magnetic structure of ZnV_2O_4 . European Physical Journal B, 2003, 35, 311-316.	1.5	117
9	Mössbauer and magnetic susceptibility investigations of strontium, lanthanum and europium transition metal phosphides with ThCr_2Si_2 type structure. Journal of Physics and Chemistry of Solids, 1988, 49, 785-795.	4.0	109
10	One- and Two-Triplon Spectra of a Cuprate Ladder. Physical Review Letters, 2007, 98, 027403.	7.8	106
11	Lattice Instability and Competing Spin Structures in the Double Perovskite Insulator $\text{Sr}_2\text{FeOsO}_6$. Physical Review Letters, 2013, 111, 167205.	7.8	100
12	Magnetic Order and Dynamics in an Orbital Degenerate Ferromagnetic Insulator. Physical Review Letters, 2002, 89, 167202.	7.8	99
13	Magnetic properties of CaNi_2P_2 and the corresponding lanthanoid nickel phosphides with ThCr_2Si_2 type structure. Journal of Physics and Chemistry of Solids, 1987, 48, 667-673.	4.0	92
14	Spin and orbital order in the vanadium spinel MgV_2O_4 . Physical Review B, 2010, 82, .	3.2	91
15	Neutron diffraction study of YVO_3 , NdVO_3 , and TbVO_3 . Physical Review B, 2006, 73, .	3.2	87
16	A Neutron diffraction study of the magnetic structure of EuCo_2P_2 . Journal of Physics and Chemistry of Solids, 1992, 53, 687-690.	4.0	80
17	Antiferromagnetic order in the ThCr_2Si_2 type phosphides CaCo_2P_2 and CeCo_2P_2 . Journal of Alloys and Compounds, 1998, 266, 54-60.	5.5	79
18	Pressure-induced Transition of the Sublattice Magnetization in EuCo_2P_2 : Change from Local Moment $\text{Eu}(4f)$ to Itinerant $\text{Co}(3d)$ Magnetism. Physical Review Letters, 1998, 80, 802-805.	7.8	78

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19	Neutron diffraction study of spin and charge ordering in SrFeO ₃ . Physical Review B, 2012, 85, .	3.2	76
20	Long-range magnetic ordering in rocksalt-type high-entropy oxides. Applied Physics Letters, 2019, 114, .	3.3	70
21	Synthesis, Crystal Structure, and Physical Properties of Sr ₂ FeOsO ₆ . Inorganic Chemistry, 2013, 52, 6713-6719.	4.0	68
22	Über LaCo ₂ P ₂ und andere Neue Verbindungen mit ThCr ₂ Si ₂ - und CaBe ₂ Ge ₂ -Struktur. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1985, 527, 73-84.	1.2	66
23	Field-induced incommensurate-to-commensurate phase transition in the magnetoelectric hexaferrite Ba _{0.7} Sr _{0.3} Bi ₂ Fe ₁₆ O ₂₈ . Physical Review B, 2019, 100, 104411.	4.2	65
24	Ferromagnetism in the ThCr ₂ Si ₂ type phosphide LaCo ₂ P ₂ . Journal of Magnetism and Magnetic Materials, 1994, 138, 85-93.	2.3	59
25	Crystal structure and high-field magnetism of La ₂ CuO ₄ . Physical Review B, 2006, 73, .	3.2	59
26	Lattice-Site-Specific Spin Dynamics in Double Perovskite Sr ₂ BiOsO ₆ . Physical Review Letters, 2014, 112, 147202.	7.8	59
27	Electron density distribution in paramagnetic and antiferromagnetic CoO: A ³ -ray diffraction study. Physical Review B, 2002, 65, .	3.2	58
28	First-order phase transitions in EuCo ₂ P ₂ and SrNi ₂ P ₂ . Physical Review B, 1997, 56, 13796-13804.	3.2	53
29	Magnetically Frustrated Double Perovskites: Synthesis, Structural Properties, and Magnetic Order of Sr ₂ BiOsO ₆ (Bi = Y, In, Sc). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 197-205.	1.2	47
30	A neutron diffraction study of the magnetic order in the ThCr ₂ Si ₂ type phosphides PrCo ₂ P ₂ and NdCo ₂ P ₂ . Journal of Physics and Chemistry of Solids, 1993, 54, 469-475.	4.0	44
31	Ferrimagnetic behavior of Nd _{0.67} Sr _{0.33} CoO ₃ . Physical Review B, 2001, 64, .	3.2	43
32	Anomalous magnetic structure and spin dynamics in magnetoelectric LiFePO ₄ . Physical Review B, 2015, 92, .	3.2	43
33	Detection of antiskyrmions by topological Hall effect in Heusler compounds. Physical Review B, 2020, 101, .	3.2	42
34	First- and second-order phase transitions in ternary europium phosphides with ThCr ₂ Si ₂ -type structure. Physica B: Condensed Matter, 1998, 252, 44-54.	2.7	41
35	Thermodynamic properties of the anisotropic frustrated spin-chain compound linarite PbCuSO ₄ (OH) ₂ . Physical Review B, 2013, 88, .	3.2	40
36	Thermodynamic properties of the anisotropic frustrated spin-chain compound linarite PbCuSO ₄ (OH) ₂ . Physical Review B, 2013, 88, .	3.2	40

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55	Neutron-diffraction study of Bi ₁₂ MO ₂₀ single crystals with sillenite structure (M=Si,Si 0.995 Mn) Tj ETQq1 1 0.784314 rgBJ/Overlo	2.3	27
56	A151Eu Mossbauer study of the magnetic hyperfine interactions in the metallic compound Eu ₂ Co ₁₂ P ₇ containing trivalent europium. Journal of Physics C: Solid State Physics, 1988, 21, 3133-3140.	1.5	26
57	Neutron Diffraction Study of the Nuclear and Magnetic Structure of the CrVO ₄ Type Phosphates TiPO ₄ and VPO ₄ . Journal of Solid State Chemistry, 1996, 126, 15-21.	2.9	26
58	Magnetic Structure of $\text{RuSr}_2\text{GdCu}_8\text{O}_{28}$ Determined by Resonant X-Ray Diffraction. Physical Review Letters, 2009, 102, 037205.	7.8	26
59	Magnetic properties of UCo ₂ P ₂ with CaBe ₂ Ge ₂ type structure and LnNi ₂ P ₂ (Ln = Gd-Tb) with ThCr ₂ Si ₂ type structure. Journal of the Less Common Metals, 1991, 169, 139-145.	0.8	25
60	Magnetic phase transitions in TbFe ₂ Al ₁₀ , HoFe ₂ Al ₁₀ and ErFe ₂ Al ₁₀ . Journal of Physics Condensed Matter, 2003, 15, 1773-1782.	1.8	25
61	Experimental study of magnetic ordering in single-crystalline $\text{U}_2\text{Cu}_2\text{O}_8$. Physical Review B, 2010, 81, 014407.	3.2	25
62	Helical magnetic order in the distorted triangular antiferromagnet CaCr_2O_7 . Physical Review B, 2004, 70, 014407.	3.2	25
63	Electron density distribution in paramagnetic and antiferromagnetic NiO: $\alpha\text{-FeAl}_3$ -ray diffraction study. Physical Review B, 2004, 70, .	3.2	24
64	$\hat{\Gamma}_3$ -ray and neutron diffraction studies of CoF ₂ : magnetostriction, electron density and magnetic moments. Acta Crystallographica Section A: Foundations and Advances, 2004, 60, 51-57.	0.3	24
65	Synthesis, Crystal Structure, and Properties of the Ordered Double Perovskite Sr ₂ CoOsO ₆ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 2421-2425.	1.2	24
66	Orbital Glass State of the Nearly Metallic Spinel Cobalt Vanadate. Physical Review Letters, 2016, 116, 037201.	7.8	24
67	A SINGLE-CRYSTAL NEUTRON-DIFFRACTION INVESTIGATION OF DIOPSIDE AT 10 K. Canadian Mineralogist, 2000, 38, 183-189.	1.0	24
68	Magnetic structure and interactions in the quasi-one-dimensional antiferromagnet CaV_2O_7 . Physical Review B, 2009, 79, .	3.2	23
69	Magnetic properties of PdAs ₂ O ₆ : A dilute spin system with an unusually high Néel temperature. Physical Review B, 2012, 85, .	3.2	23
70	Electron-density distribution in cubic SrTiO ₃ : a comparative $\hat{\Gamma}_3$ -ray diffraction study. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, 411-417.	0.3	22
71	Reconciling magnetism at the borderline between long-range antiferromagnetic order and spin-glass behavior in the B^2O_7 -site disordered perovskite system $\text{Ca}_x\text{Ce}_{1-x}\text{B}_2\text{O}_7$. Physical Review B, 2009, 79, .	3.2	22
72	The structure of the proton conducting phase of Rb ₃ H(SeO ₄) ₂ at 470 K. Solid State Ionics, 1996, 92, 119-127.	2.7	21

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91	Crystal growth, structure and magnetic properties of $\text{Ca}_{10}\text{Cr}_7\text{O}_{28}$. Journal of Physics Condensed Matter, 2017, 29, 225802.	1.8	13
92	Verwey-type charge ordering transition in an open-shell d^1 -electron compound. Science Advances, 2018, 4, eaap7581.	10.3	13
93	Crystal and magnetic structures of the ternary carbides $\text{Ho}_2\text{Mo}_2\text{C}_3$ and $\text{Er}_2\text{Mo}_2\text{C}_3$. Journal of Magnetism and Magnetic Materials, 1999, 195, 657-666.	2.3	12
94	Antiferromagnetic order in the ternary phosphides LnNi_2P_2 (Ln=Tb, Dy, Ho, Er). Journal of Alloys and Compounds, 1999, 287, 32-37.	5.5	12
95	Incommensurate Spin-Density Modulation in a Copper Oxide Chain Compound with Commensurate Charge Order. Physical Review Letters, 2008, 101, 047202.	7.8	12
96	Electron density distribution in hexagonal cobalt: A μ -ray diffraction study. Physical Review B, 2009, 80, .	3.2	12
97	Growth and magnetic properties of stoichiometric and site-disordered single crystalline MgV_2O_4 . Physical Review B, 2012, 85, .	3.2	12
98	Magnetic phase transitions and iron valence in the double perovskite $\text{Sr}_2\text{FeOsO}_6$. Hyperfine Interactions, 2014, 226, 289-297.	0.5	12
99	Jahn-Teller versus quantum effects in the spin-orbital material LuVO_3 . Physical Review B, 2015, 91, .	3.2	12
100	Phonons in mesoporous silicon: The influence of nanostructuring on the dispersion in the Debye regime. Microporous and Mesoporous Materials, 2017, 243, 263-270.	4.4	11
101	Field-induced quantum spin-12 chains and disorder in $\text{Nd}_2\text{Zr}_2\text{O}_7$. Physical Review B, 2018, 98, .	3.2	11
102	Structural and magnetic instabilities of $\text{La}_{2-x}\text{Sr}_x\text{CaCu}_2\text{O}_6$. Physical Review B, 2002, 65, .	3.2	10
103	Layer Selective Control of the Lattice Structure in Oxide Superlattices. Advanced Materials, 2014, 26, 258-262.	21.0	10
104	Electronic properties of a heavy-fermion $\text{U}(\text{Ru}_{0.92}\text{Rh}_{0.08})_2\text{Si}_2$ single crystal. Physical Review B, 2017, 95, .	3.2	10
105	E2: The Flat-Cone Diffractometer at BER II. Journal of Large-scale Research Facilities JLSRF, 0, 4, A129.	0.0	10
106	Phase transitions and relaxation dynamics in $(\text{NH}_4)_x(\text{Kl})_{1-x}$ mixed crystals. Physica B: Condensed Matter, 1999, 266, 310-320.	2.7	9
107	Evolution of transition metal charge states in correlation with the structural and magnetic properties in disordered double perovskites $\text{Ca}_{2-x}\text{La}_x\text{FeRuO}_6$ (0.5 $\leq x \leq 2$). Physical Chemistry Chemical Physics, 2021, 23, 21769-21783.	2.8	9
108	The polyphosphides $\text{NbMn}_2\text{P}_{12}$, $\text{MoMn}_2\text{P}_{12}$, and $\text{WMn}_2\text{P}_{12}$ with $\text{TiMn}_2\text{P}_{12}$ -type structure. Journal of Solid State Chemistry, 1988, 74, 260-267.	2.9	8

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109	The magnetic structure of UCo ₂ P ₂ . Journal of Physics and Chemistry of Solids, 1994, 55, 625-630.	4.0	8
110	Electron density distribution in paramagnetic chromium: $\text{A}\hat{\text{I}}^3$ -ray diffraction study. Physical Review B, 2006, 73, .	3.2	8
111	Magnetic properties of the ternary phosphide U ₃ Ni _{3.34} P ₆ . Journal of Physics and Chemistry of Solids, 1996, 57, 521-525.	4.0	7
112	Partial frustration of the copper spins in RbCuCl ₃ . Journal of Physics and Chemistry of Solids, 2001, 62, 1139-1143.	4.0	7
113	Structural and magnetic properties of the ferroelectric magnet BaMnO_3 at a site diluted square-lattice two-dimensional Heis. Physical Review B, 2008, 78, .	3.2	7
114	The magnetic properties of single-crystalline atacamite, Cu ₂ Cl(OH) ₃ . Physica B: Condensed Matter, 2018, 536, 377-378.	2.7	7
115	Magnetic properties of the carbides Y ₂ ReC ₂ , Tb ₂ ReC ₂ , Er ₂ ReC ₂ and Lu ₂ ReC ₂ . Journal of Magnetism and Magnetic Materials, 1995, 151, 273-282.	2.3	6
116	Antiferromagnetic order of the lanthanoid moments in the carbides Ln ₂ ReC ₂ with Ln = Tb, Dy, Ho and Er. Journal of Magnetism and Magnetic Materials, 1996, 154, 355-364.	2.3	6
117	Anharmonicity of potentials of atoms in potassium hydrogensulfide (KDS) determined by neutron single-crystal diffraction. Acta Crystallographica Section B: Structural Science, 2000, 56, 988-992.	1.8	6
118	Electron density distribution in ferromagnetic nickel: $\text{A}\hat{\text{I}}^3$ -ray diffraction study. Physical Review B, 2008, 78, .	3.2	6
119	Hidden Charge Order in an Iron Oxide Square-Lattice Compound. Physical Review Letters, 2021, 127, 097203.	7.8	6
120	Magnetic structure of Dy ₂ Cr ₂ C ₃ . Journal of Alloys and Compounds, 1994, 209, 217-220.	5.5	5
121	Structural and magnetic characterization of a new phase of CrCl ₂ . Journal of Physics and Chemistry of Solids, 1997, 58, 481-489.	4.0	5
122	Electron density distribution in vanadium and niobium from $\text{A}\hat{\text{I}}^3$ -ray diffraction. Physical Review B, 2011, 83, .	3.2	5
123	Anisotropic physical properties of single-crystal $\text{U}\hat{\text{I}}^3$ in high magnetic fields. Physical Review B, 2017, 95, .	3.2	5
124	Magnetically ordered and disordered sublattices in geometrically frustrated Ni chromite. Physical Review B, 2018, 98, .	3.2	5
125	Crystal and magnetic structure of antiferromagnetic Mn ₂ PtPd. Journal of Physics Condensed Matter, 2018, 30, 265803.	1.8	5
126	Spiral magnetism, spin flop, and pressure-induced ferromagnetism in the negative charge-transfer-gap insulator $\text{Sr}\hat{\text{I}}^3$. Physical Review B, 2022, 105, .	3.2	5

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127	Fe magnetism in $\text{Ti}_{1-x}\text{Sc}_x\text{Fe}_2$ ($x \approx 0.2$). Journal of Magnetism and Magnetic Materials, 1999, 192, 100-104.	2.3	4
128	Neutron diffraction at the magnetic structure of $\text{Mn}_{0.88}\text{Fe}_{0.12}\text{WO}_4$. Physica B: Condensed Matter, 2000, 276-278, 596-597.	2.7	4
129	Neutron diffraction study of sodium hydrogen selenate $\text{Na}_3\text{H}_5(\text{SeO}_4)_4$. Comparison with the X-ray diffraction data. Crystallography Reports, 2002, 47, 29-32.	0.6	4
130	Rotation-translation coupling in $(\text{NH}_4)_0.5(\text{Kl})_0.5$. Physica B: Condensed Matter, 2000, 276-278, 471-472.	2.7	3
131	Commensurate ferrimagnetic and incommensurate antiferromagnetic order in the ThCr_2Si_2 -type phosphide PrFe_2P_2 . Journal of Magnetism and Magnetic Materials, 2000, 221, 307-316.	2.3	3
132	Neutron diffraction study of $\text{K}_4(\text{HSeO}_4)_3(\text{H}_2\text{PO}_4)$. A comparison with X-ray structure. Zeitschrift Fur Kristallographie - Crystalline Materials, 2000, 215, 377-380.	0.8	3
133	Magnetic neutron diffraction study of the charge-ordered chain compounds $\text{RbMn}_8\text{O}_{11}$ and Mn_8O_{11} . Journal of Magnetism and Magnetic Materials, 1998, 192, 100-104.	3.2	3
134	Lattice vibrations in the mixed crystals $(\text{NH}_4)_0.3(\text{Kl})_0.7$, $(\text{ND}_4)_0.3(\text{Kl})_0.7$ and $(\text{NH}_4\text{Br})_0.3(\text{KBr})_0.7$. Journal of Physics Condensed Matter, 2001, 13, 10221-10229.	1.8	2
135	Magnetic phase transitions in the ternary carbides $\text{Ln}_2\text{Cr}_2\text{C}_3$ ($\text{Ln}=\text{Tb}, \text{Ho}, \text{Er}$). Journal of Magnetism and Magnetic Materials, 2002, 251, 260-270.	2.3	2
136	From antiferromagnetism to high- T_c weak ferromagnetism manipulated by atomic rearrangement in $\text{Ba}_3\text{Mn}_2\text{O}_{10}$. Physical Review Materials, 2020, 4, .	2.4	2
137	Oxygen deficiency in $\text{Sr}_2\text{FeO}_{4-x}$: electrochemical control and impact on magnetic properties. Physical Chemistry Chemical Physics, 2022, 24, 17028-17041.	2.8	2
138	Neutron single-crystal study of barium hydroxide iodide tetrahydrate, a compound with most strongly distorted hydrate H_2O molecules. Zeitschrift Fur Kristallographie - Crystalline Materials, 1999, 214, 290-295.	0.8	0
139	Refinement of the $(\text{NH}_4)_3\text{H}(\text{SO}_4)_2$ crystal structure: II. X-ray and neutron single-crystal diffraction from phase II at room temperature. Journal of Surface Investigation, 2007, 1, 637-644.	0.5	0
140	Reassessment of the electron density in Cu_2O using $\hat{\gamma}$ -ray diffraction. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 983-988.	1.1	0
141	Crystal structures and magnetic properties of dimorphic Li_3OsO_4 . Solid State Sciences, 2019, 97, 106009.	3.2	0
142	Neutron diffraction study of DyVO_3 and HoVO_3 . Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s69-s70.	0.3	0
143	Investigating the annealing dependency of Al/Si distribution in Eifel sanidine. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1107-C1107.	0.1	0