Reinhard K Kremer

List of Publications by Year
in descending order

82	3,255	185998 28	149479 56
papers	citations	h-index	g-index

83	83	83	2885
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermodynamics of spinS=1/2antiferromagnetic uniform and alternating-exchange Heisenberg chains. Physical Review B, 2000, 61, 9558-9606.	1.1	482
2	Specific heat of MgB2in a one- and a two-band model from first-principles calculations. Journal of Physics Condensed Matter, 2002, 14, 1353-1360.	0.7	261
3	Quantum helimagnetism of the frustrated spin-Â½ chain LiCuVO 4. Europhysics Letters, 2005, 70, 237-243.	0.7	230
4	Incommensurate antiferromagnetic order in the quantum chain compound LiCuVO4. Physica B: Condensed Matter, 2004, 350, E253-E256.	1.3	127
5	Percolative phase separation in La2CuO4+? and La2?x Sr x CuO4. European Physical Journal B, 1992, 86, 319-324.	0.6	120
6	Tunable Weyl and Dirac states in the nonsymmorphic compound CeSbTe. Science Advances, 2018, 4, eaar2317.	4.7	110
7	Thermal conductivity of isotopically enriched 28Si: revisited. Solid State Communications, 2004, 131, 499-503.	0.9	109
8	Relation between structural instabilities in EuTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>and SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>.	1.1	107
9	Magnetic ordering in the frustrated Heisenberg chain system cupric chloride<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CuCl</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2009, 80, .	1.1	102
10	Evidence of a Bond-Nematic Phase in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LiCuVO</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2012, 109, 027203.	2.9	93
11	Helicoidal magnetic order in the spin-chain compoundNaCu2O2. Physical Review B, 2005, 71, .	1.1	91
12	Crystal Structure and Magnetic Properties of FeTe2O5X (X = Cl, Br):Â A Frustrated Spin Cluster Compound with a New Te(IV) Coordination Polyhedron. Journal of the American Chemical Society, 2006, 128, 15469-15475.	6.6	87
13	Supraleitung in Seltenerdmetall-Carbidhalogeniden des Typs SE2X2C2. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1996, 622, 123-137.	0.6	69
14	CuBr₂ â€“ A New Multiferroic Material with High Critical Temperature. Advanced Materials, 2012, 24, 2469-2473.	11.1	69
15	Nuclear Magnetic Resonance Signature of the Spin-Nematic Phase in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>LiCuVO</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> at High Magnetic Fields. Physical Review Letters, 2017, 118, 247201.	2.9	67
16	Bulk Superconductivity at 10 K in the Layered CompoundsY2C2I2andY2C2Br2. Physical Review Letters, 1996, 77, 374-377.	2.9	52
17	Investigation of the oxohalideCu4Te5O12Cl4with weakly coupledCu(II)tetrahedra. Physical Review B, 2006, 74, .	1.1	44
18	Strong electron-phonon coupling in the rare-earth carbide superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">La</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2007, 76, .	1.1	41

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19	Electronic properties of the yttriumdicarbide superconductorsYC2,Y1â^'xThxC2,Y1â^'xCaxC2(0<x<~0.3). Physical Review B, 1997, 56, 9021-9029.	1.1	40
20	Crystal structure and magnetic properties of Cu3(TeO3)2Br2â€"a layered compound with a new Cu(II) coordination polyhedron. Journal of Solid State Chemistry, 2005, 178, 2024-2029.	1.4	40
21	Consequences of the intrachain dimerâ€"monomer spin frustration and the interchain dimerâ€"monomer spin exchange in the diamond-chain compound azurite Cu₃(CO₃)₂(OH)₂. Journal of Physics Condensed Matter, 2009, 21, 392201.	0.7	38
22	The Layered Lanthanum Carbide Halide Superconductors La2C2(X,Xâ€˜)2 (X,Xâ€˜ = Cl, Br, I):â€‰ Neutron Powder Diffraction Characterization and Electronic Properties. Journal of Physical Chemistry B, 1999, 103, 5446-5453.	1.2	37
23	Crystal Structure and Magnetic Properties of FeSeO₃Fâ€"Alternating Antiferromagnetic S = 5/2 chains. Inorganic Chemistry, 2014, 53, 4250-4256.	1.9	37
24	High field magnetization of the frustrated one-dimensional quantum antiferromagnet LiCuVO4. Journal of Physics Condensed Matter, 2007, 19, 145227.	0.7	36
25	Synthesis, Crystal Structure, and Magnetic Properties of the Copper Selenite Chloride Cu₅(SeO₃)₄Cl₂. Inorganic Chemistry, 2010, 49, 9683-9688.	1.9	32
26	Spin-Peierls transition in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mrow><mml:mn>1</mml:mn></mml:mr TiPO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>featuring large intrachain coupling. Physical Review B, 2011, 83, .	1.1	32
27	On the Nature of the Spin Frustration in the CuO₂ Ribbon Chains of LiCuVO₄: Crystal Structure Determination at 1.6 K, Magnetic Susceptibility Analysis, and Density Functional Evaluation of the Spin Exchange Constants. Inorganic Chemistry, 2011, 50, 3582-3588.	1.9	29
28	Quasi-one-dimensional antiferromagnetism and multiferroicity in CuCrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2011, 84, .	1.1	28
29	Investigation of the spin exchange interactions and the magnetic structure of the high-temperature multiferroic CuBr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 86, .	1.1	28
30	Superconductivity in (Ba,K)SbO3. Nature Materials, 2022, 21, 627-633.	13.3	27
31	3s-Gd2C2Br2: Eine neue Stapelvariante. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1992, 609, 7-11.	0.6	26
32	Strongly correlated one-dimensional magnetic behavior of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NiTa</mml:mi><mml:mn>2</mml:mn></mml:msub></mm xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	1.1	26
33	Separation of the Oxide and Halide Part in the Oxohalide Fe₃Te₃O₁₀Cl Due to High Lewis Acidity of the Cations. Inorganic Chemistry, 2009, 48, 6599-6603.	1.9	25
34	LnHal2Hn ? Neue Phasen in den ternï¿½ren Systemen Ln/Hal/H (Ln = Lanthanoid, Hal = Br, I) III. Physikalische Eigenschaften. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1992, 618, 98-106.	0.6	24
35	Lattice and polarizability mediated spin activity in EuTiO₃. Journal of Physics Condensed Matter, 2014, 26, 022202.	0.7	23
36	Spin-lattice coupling induced weak dynamical magnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">EuTiO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math>at high temperatures. Physical Review B, 2014, 90, .	1.1	22

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37	Spin-lattice coupling induced crossover from negative to positive magnetostriction in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>EuTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review B, 2014, 90, .	1.1	22
38	Electronic and superconducting properties of the binary carbide La2C3. Current Applied Physics, 2006, 6, 897-902.	1.1	20
39	On verdigris, part I: synthesis, crystal structure solution and characterisation of the 1â€“2â€“0 phase (Cu₃(CH₃COO)₂(OH)₄). Dalton Transactions, 2017, 46, 14847-14858.	1.6	20
40	Spin Exchanges between Transition Metal Ions Governed by the Ligand p-Orbitals in Their Magnetic Orbitals. Molecules, 2021, 26, 531.	1.7	20
41	Large magnetoresistance and critical spin fluctuations inGdI2. Physical Review B, 2001, 64, .	1.1	19
42	Crystal Structure and Magnetic Properties of Two New Antiferromagnetic Spin Dimer Compounds; FeTe3O7X (X = Cl, Br). Inorganic Chemistry, 2011, 50, 12877-12885.	1.9	19
43	Characterization of the spin<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></m ferromagnet CuAs<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>4</mml:mn><	1.1	19
44	SPECIFIC HEAT OF MTa₂O₆ (M = Co, Ni, Fe, Mg) EVIDENCE FOR LOW DIMENSIONAL MAGNETISM. Journal De Physique Colloque, 1988, 49, C8-1495-C8-1496.	0.2	18
45	Neutron diffraction and micro-Raman scattering studies on rare-earth carbide halides. Physical Review B, 1998, 58, 14364-14371.	1.1	15
46	On verdigris, part II: synthesis of the 2-1-5 phase, Cu₃(CH₃COO)₄(OH)₂Â·5H₂O, by long-term crystallisation from aqueous solution at room temperature. Dalton Transactions, 2018, 47, 8209-8220.	1.6	14
47	Ho4C7, Y4C7: Carbide mit C3 4-- und C4- -Ionen / Ho4C7, Y4C7: Carbides with C3 4- and C4- Ions. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1994, 49, 1439-1443.	0.3	13
48	The low temperature magnetic phase diagram of EuxSr1â^'xTiO3. European Physical Journal B, 2013, 86, 1.	0.6	13
49	Structural and Magnetic Properties of the Trirutile-type 1D-Heisenberg Anti-Ferromagnet CuTa₂O₆. Inorganic Chemistry, 2017, 56, 6318-6329.	1.9	13
50	Evidence for the first-order nature of the structural instability in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>EuTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m thermal expansion measurements. Physical Review B, 2014, 90, .	1.1	12
51	New features from transparent thin films of EuTiO₃. Phase Transitions, 2016, 89, 731-739.	0.6	12
52	Mixed Valence and Superconductivity in Perovskite Antimonates. Chemistry of Materials, 2021, 33, 6787-6793.	3.2	12
53	Specific heat, magnetization and C-isotope effect of Y2C2(Br,I)2 superconductors. Journal of Applied Physics, 1998, 83, 7321-7323.	1.1	11
54	Tiny cause with huge impact: polar instability through strong magneto-electric-elastic coupling in bulk EuTiO₃. Journal of Physics Condensed Matter, 2015, 27, 262201.	0.7	11

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55	Hydrothermal Synthesis of the Oxofluoride FeSbO₂F₂â€"An Anti-ferromagnetic Spin S = 5/2 Compound. Inorganic Chemistry, 2017, 56, 4662-4667.	1.9	11
56	Synthesis and Physical Properties of the Oxofluoride Cu2(SeO3)F2. Inorganic Chemistry, 2018, 57, 4640-4648.	1.9	11
57	On Verdigris, Part III: Crystal Structure, Magnetic and Spectral Properties of Anhydrous Copper(II) Acetate, a Paddle Wheel Chain. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 988-997.	0.6	11
58	Nonlinear pressure dependence ofT_Nin almost multiferroic EuTiO₃. Journal of Physics Condensed Matter, 2013, 25, 376002.	0.7	10
59	Superconductivity and magnetoresistance in unusual layered rare earth halides and rare earth carbides. Current Applied Physics, 2004, 4, 563-569.	1.1	9
60	Synthesis and Characterization of the Aurivillius Phase CoBi₂O₂F₄. Inorganic Chemistry, 2018, 57, 9115-9121.	1.9	9
61	Discovery of a low-temperature orthorhombic phase of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cd</mml:mi><mml:mn>2</mml:mn></mml:mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math> superconductor. Physical Review Research, 2020, 2, .	1.3	9
62	Synthesis, crystal structure and magnetic properties of the open framework compound Co3Te2O2(PO4)2(OH)4. Journal of Solid State Chemistry, 2011, 184, 3080-3084.	1.4	8
63	Pressure dependence of T C of the layered superconductor Y 2 C 2 I 2 : lattice versus electronic effects. Journal of Solid State Chemistry, 2003, 171, 367-370.	1.4	6
64	Anomalous low-temperature behavior of the Co dimers in the oxo-halide CoSb2O3Br2. Journal of Solid State Chemistry, 2008, 181, 2776-2782.	1.4	6
65	Intermediateâ€Valence Intermetallic Phase YbIn_{1â€"x}Au_{1+x} (x = 0â€0.3)â€. Crystal Research and Technology, 2017, 52, 1700101.	0.6	6
66	Far-IR excitations in Cd2Re2O7in the normal and superconducting states. Journal of Physics Condensed Matter, 2012, 24, 505701.	0.7	5
67	Synthesis and Magnetic Properties of the Ternary Oxofluoride Fe 3 Sb 4 O 6 F 6. European Journal of Inorganic Chemistry, 2020, 2020, 3746-3752.	1.0	5
68	Carbon Based Superconductors. , 2007, , 213-226.		4
69	Spin excitations in the two-dimensional strongly coupled dimer system malachite. Physical Review B, 2015, 91, .	1.1	4
70	Synthesis and Magnetic Properties of the KCu(IO₃)₃ Compound with [CuO₅]_{âˆž} Chains. ACS Omega, 2019, 4, 15168-15174.	1.6	4
71	Orbital Magnetic Moments of the High-Spin Co²⁺ Ions at Axially-Elongated Octahedral Sites: Unquenched as Reported from Experiment or Quenched as Predicted by Theory?. Inorganic Chemistry, 2020, 59, 18319-18324.	1.9	4
72	Effect of geometrical frustration on the magnetic properties of the triangular-layer system Tb2C2I2: a neutron diffraction investigation. Journal of Physics Condensed Matter, 2004, 16, S875-S881.	0.7	3

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73	Two-dimensional magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	1.1	3
74	Mechanochemical Synthesis and Magnetic Characterization of Nanosized Cubic Spinel FeCr₂S₄ Particles. ACS Omega, 2021, 6, 13375-13383.	1.6	3
75	Spontaneous Stoichiometry Change in Single Crystals ofÂSuperconducting (Ba1â^'x K x)Fe2As2 Grown by a Rapid-Heating Sn-Flux Method. Journal of Superconductivity and Novel Magnetism, 2009, 22, 353-356.	0.8	2
76	Lowâ€Dimensional Magnetic Properties of Natural and Synthetic Mixite (Bi,Ca)Cu₆(OH)₆(AsO₄)₃Â·nH₂O (n â‰ˆ 3) and Goudeyite YCu₆(OH)₆(AsO₄)₃Â·nH₂O (n) Tj ETQq0 0 0 rgBT /Over	0.6	2
77	The Crucial Things in Science Often Happen Quite Unexpectedlyâ€”Das Entscheidende in der Wissenschaft geschieht oft ganz unerwartet (K. Alex MÃ¼ller). Condensed Matter, 2020, 5, 43.	0.8	2
78	Crystal, electronic and magnetic structures of a novel series of intergrowth carbometalates R₄Co₂C₃ (R = Y, Gd, Tb). Dalton Transactions, 2021, 50, 4202-4209.	1.6	2
79	Fractional Power-Law Intraband Optical Conductivity in the Low-Dimensional Dirac Material CaMnBi2. Crystals, 2021, 11, 428.	1.0	2
80	La- and Lu-agardite â€“ preparation, crystal structure, vibrational and magnetic properties. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 191-199.	0.3	1
81	Phase Separation and Pairing Fluctuations in Oxide Materials. Condensed Matter, 2020, 5, 65.	0.8	1
82	Absence of Spin Frustration in the KagomÃ© Layers of Cu2+ Ions in Volborthite Cu3V2O7(OH)2Â·2H2O and Observation of the Suppression and Re-Entrance of Specific Heat Anomalies in Volborthite under an External Magnetic Field. Condensed Matter, 2022, 7, 24.	0.8	1