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	Superconductivity in (Ba,K)SbO3. Nature Materials, 2022, 21, 627-633.	13.3	27
2	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
3	Spin Exchanges between Transition Metal Ions Governed by the Ligand p-Orbitals in Their Magnetic Orbitals. Molecules, 2021, 26, 531.	1.7	20
4	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
5	Fractional Power-Law Intraband Optical Conductivity in the Low-Dimensional Dirac Material CaMnBi2. Crystals, 2021, 11, 428.	1.0	2
6	Mechanochemical Synthesis and Magnetic Characterization of Nanosized Cubic Spinel FeCr₂S₄ Particles. ACS Omega, 2021, 6, 13375-13383.	1.6	3
7	Mixed Valence and Superconductivity in Perovskite Antimonates. Chemistry of Materials, 2021, 33, 6787-6793.	3.2	12
8	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
9	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
10	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
11	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
12	Phase Separation and Pairing Fluctuations in Oxide Materials. Condensed Matter, 2020, 5, 65.	0.8	1
13	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
14	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:msub><mml:msub 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
15	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
16	Synthesis and Magnetic Properties of the KCu(IO₃)₃ Compound with [CuO₅]_{âˆž} Chains. ACS Omega, 2019, 4, 15168-15174.	1.6	4
17	Tunable Weyl and Dirac states in the nonsymmorphic compound CeSbTe. Science Advances, 2018, 4, eaar2317.	4.7	110
18	Synthesis and Physical Properties of the Oxofluoride Cu2(SeO3)F2. Inorganic Chemistry, 2018, 57, 4640-4648.	1.9	11

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19	Low-Dimensional Magnetic Properties of Natural and Synthetic Mixite (Bi,Ca)Cu₆(OH)₆(AsO₄)₃·nH₂O (n ≈ 3) and Goudeyite YCu₆(OH)₆(AsO₄)₃·nH₂O (n) Tj ETQq1 1 0.784314 rg	0.6	2
20	On verdigris, part II: synthesis of the 2-1-5 phase, Cu₃(CH₃COO)₄(OH)₂·5H₂O, by long-term crystallisation from aqueous solution at room temperature. Dalton Transactions, 2018, 47, 8209-8220.	1.6	14
21	Synthesis and Characterization of the Aurivillius Phase CoBi₂O₂F₄. Inorganic Chemistry, 2018, 57, 9115-9121.	1.9	9
22	Structural and Magnetic Properties of the Trirutile-type 1D-Heisenberg Anti-Ferromagnet CuTa₂O₆. Inorganic Chemistry, 2017, 56, 6318-6329.	1.9	13
23	Hydrothermal Synthesis of the Oxofluoride FeSbO₂F₂—An Anti-ferromagnetic Spin S = 5/2 Compound. Inorganic Chemistry, 2017, 56, 4662-4667.	1.9	11
24	On verdigris, part I: synthesis, crystal structure solution and characterisation of the 1—2—0 phase (Cu₃(CH₃COO)₂(OH)₄). Dalton Transactions, 2017, 46, 14847-14858.	1.6	20
25	Intermediate-Valence Intermetallic Phase YbIn_{1−x}Au_{1+x} (x = 0–0.3). Crystal Research and Technology, 2017, 52, 1700101.	0.6	6
26	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> at High Magnetic Fields. Physical Review Letters, 2017, 118, 247201.	2.9	67
27	New features from transparent thin films of EuTiO₃. Phase Transitions, 2016, 89, 731-739.	0.6	12
28	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
29	Spin excitations in the two-dimensional strongly coupled dimer system malachite. Physical Review B, 2015, 91, .	1.1	4
30	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></mml 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
31	Lattice and polarizability mediated spin activity in EuTiO₃. Journal of Physics Condensed Matter, 2014, 26, 022202.	0.7	23
32	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
33	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></mml 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></mml 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><< Physical Review B, 2014, 90, .	1.1	12
34		1.1	19
35	Crystal Structure and Magnetic Properties of FeSeO₃—Alternating Antiferromagnetic S = 5/2 chains. Inorganic Chemistry, 2014, 53, 4250-4256.	1.9	37
36	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

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37	Nonlinear pressure dependence ofT_Nin almost multiferroic EuTiO₃. Journal of Physics Condensed Matter, 2013, 25, 376002.	0.7	10
38	The low temperature magnetic phase diagram of EuxSr1âˆ'xTiO3. European Physical Journal B, 2013, 86, 1.	0.6	13
39	Far-IR excitations in Cd2Re2O7in the normal and superconducting states. Journal of Physics Condensed Matter, 2012, 24, 505701.	0.7	5
40	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
41	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
42	CuBr₂ â€“ A New Multiferroic Material with High Critical Temperature. Advanced Materials, 2012, 24, 2469-2473.	11.1	69
43	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
44	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
45	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>3</mml:mn></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:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>	1.1	107
46	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
47	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
48	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:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>featuring large intrachain coupling. Physical Review B, 2011, 83, .	1.1	32
49	Synthesis, Crystal Structure, and Magnetic Properties of the Copper Selenite Chloride Cu₅(SeO₃)₄Cl₂. Inorganic Chemistry, 2010, 49, 9683-9688.	1.9	32
50	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
51	Spontaneous Stoichiometry Change in Single Crystals ofÂSuperconducting (Ba1âˆ'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
52	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
53	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
54	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

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55	High field magnetization of the frustrated one-dimensional quantum antiferromagnet LiCuVO4. Journal of Physics Condensed Matter, 2007, 19, 145227.	0.7	36
56	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
57	Carbon Based Superconductors. , 2007, , 213-226.		4
58	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
59	Electronic and superconducting properties of the binary carbide La2C3. Current Applied Physics, 2006, 6, 897-902.	1.1	20
60	Investigation of the oxohalideCu4Te5O12Cl4with weakly coupledCu(II)tetrahedra. Physical Review B, 2006, 74, .	1.1	44
61	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
62	Helicoidal magnetic order in the spin-chain compoundNaCu2O2. Physical Review B, 2005, 71, .	1.1	91
63	Quantum helimagnetism of the frustrated spin-Â½ chain LiCuVO 4. Europhysics Letters, 2005, 70, 237-243.	0.7	230
64	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
65	Incommensurate antiferromagnetic order in the quantum chain compound LiCuVO4. Physica B: Condensed Matter, 2004, 350, E253-E256.	1.3	127
66	Thermal conductivity of isotopically enriched 28Si: revisited. Solid State Communications, 2004, 131, 499-503.	0.9	109
67	Superconductivity and magnetoresistance in unusual layered rare earth halides and rare earth carbides. Current Applied Physics, 2004, 4, 563-569.	1.1	9
68	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
69	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
70	Large magnetoresistance and critical spin fluctuations inGdI2. Physical Review B, 2001, 64, .	1.1	19
71	Thermodynamics of spinS=1/2antiferromagnetic uniform and alternating-exchange Heisenberg chains. Physical Review B, 2000, 61, 9558-9606.	1.1	482
72	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

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73	Neutron diffraction and micro-Raman scattering studies on rare-earth carbide halides. Physical Review B, 1998, 58, 14364-14371.	1.1	15
74	Specific heat, magnetization and C-isotope effect of Y2C2(Br,I)2 superconductors. Journal of Applied Physics, 1998, 83, 7321-7323.	1.1	11
75	Electronic properties of the yttriumdicarbide superconductorsYC2,Y1â^'xThxC2,Y1â^'xCaxC2(0<x<~0.3). Physical Review B, 1997, 56, 9021-9029.	1.1	40
76	Supraleitung in Seltenerdmetall-Carbidhalogeniden des Typs SE2X2C2. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1996, 622, 123-137.	0.6	69
77	Bulk Superconductivity at 10 K in the Layered CompoundsY2C2I2andY2C2Br2. Physical Review Letters, 1996, 77, 374-377.	2.9	52
78	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
79	3s-Gd2C2Br2: Eine neue Stapelvariante. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1992, 609, 7-11.	0.6	26
80	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
81	Percolative phase separation in La2CuO4+? and La2?x Sr x CuO4. European Physical Journal B, 1992, 86, 319-324.	0.6	120
82	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