

# Reinhard K Kremer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1946313/publications.pdf>

Version: 2024-02-01

82  
papers

3,255  
citations

186265

28  
h-index

149698

56  
g-index

83  
all docs

83  
docs citations

83  
times ranked

2885  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity in (Ba,K)SbO <sub>3</sub> . Nature Materials, 2022, 21, 627-633.	27.5	27
2	Absence of Spin Frustration in the Kagomé Layers of Cu <sup>2+</sup> Ions in Volborthite Cu <sub>3</sub> V <sub>2</sub> O <sub>7</sub> (OH) <sub>2</sub> ·2H <sub>2</sub> O and Observation of the Suppression and Re-Entrance of Specific Heat Anomalies in Volborthite under an External Magnetic Field. Condensed Matter, 2022, 7, 24.	1.8	1
3	Spin Exchanges between Transition Metal Ions Governed by the Ligand p-Orbitals in Their Magnetic Orbitals. Molecules, 2021, 26, 531.	3.8	20
4	Crystal, electronic and magnetic structures of a novel series of intergrowth carbometalates R <sub>4</sub> Co <sub>2</sub> C <sub>3</sub> (R = Y, Gd, Tb). Dalton Transactions, 2021, 50, 4202-4209.	3.3	2
5	Fractional Power-Law Intraband Optical Conductivity in the Low-Dimensional Dirac Material CaMnBi <sub>2</sub> . Crystals, 2021, 11, 428.	2.2	2
6	Mechanochemical Synthesis and Magnetic Characterization of Nanosized Cubic Spinel FeCr <sub>2</sub> S <sub>4</sub> Particles. ACS Omega, 2021, 6, 13375-13383.	3.5	3
7	Mixed Valence and Superconductivity in Perovskite Antimonates. Chemistry of Materials, 2021, 33, 6787-6793.	6.7	12
8	La- and Lu-agardite " preparation, crystal structure, vibrational and magnetic properties. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2020, 75, 191-199.	0.7	1
9	Two-dimensional magnetism in $O_6$ . Physical Review B, 2020, 102, .	3.2	3
10	Synthesis and Magnetic Properties of the Ternary Oxofluoride Fe <sub>3</sub> Sb <sub>4</sub> O <sub>6</sub> F <sub>6</sub> . European Journal of Inorganic Chemistry, 2020, 2020, 3746-3752.	2.0	5
11	Orbital Magnetic Moments of the High-Spin Co <sup>2+</sup> Ions at Axially-Elongated Octahedral Sites: Unquenched as Reported from Experiment or Quenched as Predicted by Theory?. Inorganic Chemistry, 2020, 59, 18319-18324.	4.0	4
12	Phase Separation and Pairing Fluctuations in Oxide Materials. Condensed Matter, 2020, 5, 65.	1.8	1
13	The Crucial Things in Science Often Happen Quite Unexpectedly"Das Entscheidende in der Wissenschaft geschieht oft ganz unerwartet (K. Alex Müller). Condensed Matter, 2020, 5, 43.	1.8	2
14	Discovery of a low-temperature orthorhombic phase of the Cd <sub>2</sub> O <sub>7</sub> superconductor. Physical Review Research, 2020, 2, .	3.6	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.	1.2	11
16	Synthesis and Magnetic Properties of the KCu <sub>3</sub> [Cu <sub>5</sub> ] <sub>3</sub> Compound with [CuO <sub>5</sub> ] <sub>3</sub> Chains. ACS Omega, 2019, 4, 15168-15174.	3.5	4
17	Tunable Weyl and Dirac states in the nonsymmorphic compound CeSbTe. Science Advances, 2018, 4, eaar2317.	10.3	110
18	Synthesis and Physical Properties of the Oxofluoride Cu <sub>2</sub> (SeO <sub>3</sub> )F <sub>2</sub> . Inorganic Chemistry, 2018, 57, 4640-4648.	4.0	11

#	ARTICLE	IF	CITATIONS
19	Low-dimensional Magnetic Properties of Natural and Synthetic Mixite (Bi,Ca)Cu <sub>6</sub> (OH) <sub>6</sub> (AsO <sub>4</sub> ) <sub>3</sub> ·nH <sub>2</sub> O (n = 3) and Goudeyite YCu <sub>6</sub> (OH) <sub>6</sub> (AsO <sub>4</sub> ) <sub>3</sub> ·nH <sub>2</sub> O (n = 1) Tj ETQq1 1 0.784314	1.2	2
20	On verdigris, part II: synthesis of the 2-1-5 phase, Cu <sub>3</sub> (CH <sub>3</sub> COO) <sub>4</sub> (OH) <sub>2</sub> ·5H <sub>2</sub> O, by long-term crystallisation from aqueous solution at room temperature. Dalton Transactions, 2018, 47, 8209-8220.	3.3	14
21	Synthesis and Characterization of the Aurivillius Phase CoBi <sub>2</sub> O <sub>2</sub> F <sub>4</sub> . Inorganic Chemistry, 2018, 57, 9115-9121.	4.0	9
22	Structural and Magnetic Properties of the Trirutile-type 1D-Heisenberg Anti-Ferromagnet CuTa <sub>2</sub> O <sub>6</sub> . Inorganic Chemistry, 2017, 56, 6318-6329.	4.0	13
23	Hydrothermal Synthesis of the Oxofluoride FeSbO <sub>2</sub> F <sub>2</sub> ·nAn Anti-ferromagnetic Spin S = 5/2 Compound. Inorganic Chemistry, 2017, 56, 4662-4667.	4.0	11
24	On verdigris, part I: synthesis, crystal structure solution and characterisation of the 1â€²2â€²0 phase (Cu <sub>3</sub> (CH <sub>3</sub> COO) <sub>2</sub> (OH) <sub>4</sub> ). Dalton Transactions, 2017, 46, 14847-14858.	3.3	20
25	Intermediate Valence Intermetallic Phase YbIn <sub>1-x</sub> Au <sub>1+x</sub> (x = 0â€²0.3). Crystal Research and Technology, 2017, 52, 1700101.	1.3	6
26	Nuclear Magnetic Resonance Signature of the Spin-Nematic Phase in $\text{LiCuVO}_4$ at High Magnetic Fields. Physical Review Letters, 2017, 118, 247201.	7.8	67
27	New features from transparent thin films of EuTiO <sub>3</sub> . Phase Transitions, 2016, 89, 731-739.	1.3	12
28	Tiny cause with huge impact: polar instability through strong magneto-electric-elastic coupling in bulk EuTiO <sub>3</sub> . Journal of Physics Condensed Matter, 2015, 27, 262201.	1.8	11
29	Spin excitations in the two-dimensional strongly coupled dimer system malachite. Physical Review B, 2015, 91, .	3.2	4
30	Strongly correlated one-dimensional magnetic behavior of $\text{NiTa}_2\text{O}_7$ . Physical Review B, 2014, 89, .	3.2	26
31	Lattice and polarizability mediated spin activity in EuTiO <sub>3</sub> . Journal of Physics Condensed Matter, 2014, 26, 022202.	1.8	23
32	Spin-lattice coupling induced weak dynamical magnetism in $\text{EuTiO}_3$ at high temperatures. Physical Review B, 2014, 90, .	3.2	22
33	Evidence for the first-order nature of the structural instability in $\text{EuTiO}_3$ . Physical Review B, 2014, 90, .	3.2	22
34	Characterization of the spin-ferromagnet $\text{CuAs}_2\text{O}_7$ . Physical Review B, 2014, 90, .	3.2	19
35	Crystal Structure and Magnetic Properties of $\text{FeSeO}_3$ Alternating Antiferromagnetic S = 5/2 chains. Inorganic Chemistry, 2014, 53, 4250-4256.	4.0	37
36	Spin-lattice coupling induced crossover from negative to positive magnetostriction in $\text{EuTiO}_3$ . Physical Review B, 2014, 90, .	3.2	22

#	ARTICLE	IF	CITATIONS
37	Nonlinear pressure dependence of $T_N$ in almost multiferroic $\text{EuTiO}_3$ . Journal of Physics Condensed Matter, 2013, 25, 376002.	1.8	10
38	The low temperature magnetic phase diagram of $\text{EuSr}_2\text{TiO}_7$ . European Physical Journal B, 2013, 86, 1.	1.5	13
39	Far-IR excitations in $\text{Cd}_2\text{Re}_2\text{O}_7$ in the normal and superconducting states. Journal of Physics Condensed Matter, 2012, 24, 505701.	1.8	5
40	Investigation of the spin exchange interactions and the magnetic structure of the high-temperature multiferroic $\text{CuBr}_2$ . Physical Review B, 2012, 86, .	3.2	28
41	Evidence of a Bond-Nematic Phase in $\text{LiCuVO}_4$ . Physical Review Letters, 2012, 109, 027203.	7.8	93
42	$\text{CuBr}_2$ – A New Multiferroic Material with High Critical Temperature. Advanced Materials, 2012, 24, 2469-2473.	21.0	69
43	On the Nature of the Spin Frustration in the $\text{CuO}$ Ribbon Chains of $\text{LiCuVO}_4$ : 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.	4.0	29
44	Quasi-one-dimensional antiferromagnetism and multiferroicity in $\text{CuCrO}_4$ . Physical Review B, 2011, 84, .	3.2	28
45	$\text{CuCrO}_4$ and $\text{SrTiO}_3$ . Physical Review B, 2011, 84, .	3.2	107
46	Crystal Structure and Magnetic Properties of Two New Antiferromagnetic Spin Dimer Compounds; $\text{FeTe}_3\text{O}_7\text{X}$ (X = Cl, Br). Inorganic Chemistry, 2011, 50, 12877-12885.	4.0	19
47	Synthesis, crystal structure and magnetic properties of the open framework compound $\text{Co}_3\text{Te}_2\text{O}_2(\text{PO}_4)_2(\text{OH})_4$ . Journal of Solid State Chemistry, 2011, 184, 3080-3084.	2.9	8
48	Spin-Peierls transition in the $\text{TiPO}_3$ . Physical Review B, 2011, 83, .	3.2	32
49	Synthesis, Crystal Structure, and Magnetic Properties of the Copper Selenite Chloride $\text{Cu}_5(\text{SeO}_3)_3\text{Cl}_2$ . Inorganic Chemistry, 2010, 49, 9683-9688.	4.0	32
50	Consequences of the intrachain dimer–monomer spin frustration and the interchain dimer–monomer spin exchange in the diamond-chain compound azurite $\text{Cu}_3(\text{CO}_3)_2(\text{OH})_2$ . Journal of Physics Condensed Matter, 2009, 21, 392201.	1.8	38
51	Spontaneous Stoichiometry Change in Single Crystals of Superconducting $(\text{Ba}_{1-x}\text{K}_x)\text{Fe}_2\text{As}_2$ Grown by a Rapid-Heating Sn-Flux Method. Journal of Superconductivity and Novel Magnetism, 2009, 22, 353-356.	1.8	2
52	Separation of the Oxide and Halide Part in the Oxohalide $\text{Fe}_3\text{Te}_3\text{O}_{10}\text{Cl}$ Due to High Lewis Acidity of the Cations. Inorganic Chemistry, 2009, 48, 6599-6603.	4.0	25
53	Magnetic ordering in the frustrated Heisenberg chain system cupric chloride $\text{CuCl}_2$ . Physical Review B, 2009, 80, .	3.2	102
54	Anomalous low-temperature behavior of the Co dimers in the oxo-halide $\text{CoSb}_2\text{O}_3\text{Br}_2$ . Journal of Solid State Chemistry, 2008, 181, 2776-2782.	2.9	6

#	ARTICLE	IF	CITATIONS
55	High field magnetization of the frustrated one-dimensional quantum antiferromagnet LiCuVO <sub>4</sub> . Journal of Physics Condensed Matter, 2007, 19, 145227.	1.8	36
56	Strong electron-phonon coupling in the rare-earth carbide superconductor $\text{La}_{2-x}\text{Ce}_x\text{C}$ . Physical Review B, 2007, 76, .	3.2	41
57	Carbon Based Superconductors. , 2007, , 213-226.		4
58	Crystal Structure and Magnetic Properties of FeTe <sub>2</sub> O <sub>5</sub> X (X = Cl, Br): A Frustrated Spin Cluster Compound with a New Te(IV) Coordination Polyhedron. Journal of the American Chemical Society, 2006, 128, 15469-15475.	13.7	87
59	Electronic and superconducting properties of the binary carbide La <sub>2</sub> C <sub>3</sub> . Current Applied Physics, 2006, 6, 897-902.	2.4	20
60	Investigation of the oxohalide Cu <sub>4</sub> Te <sub>5</sub> O <sub>12</sub> Cl <sub>4</sub> with weakly coupled Cu(II) tetrahedra. Physical Review B, 2006, 74, .	3.2	44
61	Crystal structure and magnetic properties of Cu <sub>3</sub> (TeO <sub>3</sub> ) <sub>2</sub> Br <sub>2</sub> a layered compound with a new Cu(II) coordination polyhedron. Journal of Solid State Chemistry, 2005, 178, 2024-2029.	2.9	40
62	Helicoidal magnetic order in the spin-chain compound NaCu <sub>2</sub> O <sub>2</sub> . Physical Review B, 2005, 71, .	3.2	91
63	Quantum helimagnetism of the frustrated spin-1/2 chain LiCuVO <sub>4</sub> . Europhysics Letters, 2005, 70, 237-243.	2.0	230
64	Effect of geometrical frustration on the magnetic properties of the triangular-layer system Tb <sub>2</sub> C <sub>2</sub> I <sub>2</sub> : a neutron diffraction investigation. Journal of Physics Condensed Matter, 2004, 16, S875-S881.	1.8	3
65	Incommensurate antiferromagnetic order in the quantum chain compound LiCuVO <sub>4</sub> . Physica B: Condensed Matter, 2004, 350, E253-E256.	2.7	127
66	Thermal conductivity of isotopically enriched <sup>28</sup> Si: revisited. Solid State Communications, 2004, 131, 499-503.	1.9	109
67	Superconductivity and magnetoresistance in unusual layered rare earth halides and rare earth carbides. Current Applied Physics, 2004, 4, 563-569.	2.4	9
68	Pressure dependence of T <sub>C</sub> of the layered superconductor Y <sub>2</sub> C <sub>2</sub> I <sub>2</sub> : lattice versus electronic effects. Journal of Solid State Chemistry, 2003, 171, 367-370.	2.9	6
69	Specific heat of MgB <sub>2</sub> in a one- and a two-band model from first-principles calculations. Journal of Physics Condensed Matter, 2002, 14, 1353-1360.	1.8	261
70	Large magnetoresistance and critical spin fluctuations in GdI <sub>2</sub> . Physical Review B, 2001, 64, .	3.2	19
71	Thermodynamics of spin S=1/2 antiferromagnetic uniform and alternating-exchange Heisenberg chains. Physical Review B, 2000, 61, 9558-9606.	3.2	482
72	The Layered Lanthanum Carbide Halide Superconductors La <sub>2</sub> C <sub>2</sub> (X,Xa) (X,Xa = Cl, Br, I): Neutron Powder Diffraction Characterization and Electronic Properties. Journal of Physical Chemistry B, 1999, 103, 5446-5453.	2.6	37

#	ARTICLE	IF	CITATIONS
73	Neutron diffraction and micro-Raman scattering studies on rare-earth carbide halides. Physical Review B, 1998, 58, 14364-14371.	3.2	15
74	Specific heat, magnetization and C-isotope effect of Y <sub>2</sub> C <sub>2</sub> (Br,I) <sub>2</sub> superconductors. Journal of Applied Physics, 1998, 83, 7321-7323.	2.5	11
75	Electronic properties of the yttriumdicarbide superconductors YC <sub>2</sub> , Y <sub>1-x</sub> Th <sub>x</sub> C <sub>2</sub> , Y <sub>1-x</sub> Ca <sub>x</sub> C <sub>2</sub> (0 < x < 0.3). Physical Review B, 1997, 56, 9021-9029.	3.2	40
76	Supraleitung in Seltenerdmetall-Carbidhalogeniden des Typs SE <sub>2</sub> X <sub>2</sub> C <sub>2</sub> . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1996, 622, 123-137.	1.2	69
77	Bulk Superconductivity at 10 K in the Layered Compounds Y <sub>2</sub> C <sub>2</sub> I <sub>2</sub> and Y <sub>2</sub> C <sub>2</sub> Br <sub>2</sub> . Physical Review Letters, 1996, 77, 374-377.	7.8	52
78	Ho <sub>4</sub> C <sub>7</sub> , Y <sub>4</sub> C <sub>7</sub> : Carbide mit C <sup>3-</sup> und C <sup>4-</sup> -Ionen / Ho <sub>4</sub> C <sub>7</sub> , Y <sub>4</sub> C <sub>7</sub> : Carbides with C <sup>3-</sup> and C <sup>4-</sup> ions. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1994, 49, 1439-1443.	0.7	13
79	3s-Gd <sub>2</sub> C <sub>2</sub> Br <sub>2</sub> : Eine neue Stapelvariante. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1992, 609, 7-11.	1.2	26
80	LnHal <sub>2</sub> Hn ? Neue Phasen in den ternären Systemen Ln/Hal/H (Ln = Lanthanoid, Hal = Br, I) III. Physikalische Eigenschaften. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 1992, 618, 98-106.	1.2	24
81	Percolative phase separation in La <sub>2</sub> CuO <sub>4+x</sub> and La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> . European Physical Journal B, 1992, 86, 319-324.	1.5	120
82	SPECIFIC HEAT OF MTa <sub>2</sub> O <sub>6</sub> (M = Co, Ni, Fe, Mg) EVIDENCE FOR LOW DIMENSIONAL MAGNETISM. Journal De Physique Colloque, 1988, 49, C8-1495-C8-1496.	0.2	18