Gwilherm NÃ©nert

List of Publications by Year
in descending order

56	1,771	361413 20	276875 41
papers	citations	h-index	g-index

59	59	59	2767
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The HighScore suite. Powder Diffraction, 2014, 29, S13-S18.	0.2	805
2	Enhancing the magnetoelectric coupling inYMnO3by Ga doping. Physical Review B, 2007, 75, .	3.2	74
3	Temperature-dependent structural studies of mullite-type Bi2Fe4O9. Journal of Solid State Chemistry, 2013, 197, 370-378.	2.9	54
4	Experimental evidence for an intermediate phase in the multiferroic YMnO3. Journal of Physics Condensed Matter, 2007, 19, 466212.	1.8	42
5	Frustrated Octahedral Tilting Distortion in the Incommensurately Modulated Li3xNd2/3â€“xTiO3Perovskites. Chemistry of Materials, 2013, 25, 2670-2683.	6.7	41
6	On the crystal structure and crystal chemistry of pollucite, (Cs,Na)16Al16Si32O96{middle dot}nH2O: A natural microporous material of interest in nuclear technology. American Mineralogist, 2009, 94, 1560-1568.	1.9	34
7	Spontaneous Superlattice Formation in the Doubly Ordered Perovskite KLaMnWO₆. Chemistry of Materials, 2011, 23, 163-170.	6.7	32
8	On the crystal structure and compressional behavior of talc: a mineral of interest in petrology and material science. Physics and Chemistry of Minerals, 2013, 40, 145-156.	0.8	32
9	Magnetic structure of the conductive triangular-lattice antiferromagnet PdCrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	32
10	Magnetic and magnetoelectric study of the pyroxene<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>NaCrSi</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2010, 81, .	3.2	31
11	Magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Ho</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">Ba</mml:mi><mml:mi mathvariant="normal">Ni</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math>.	3.2	27
12	Magnetic and crystal structures of the magnetoelectric pyroxene<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LiCrSi</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2009, 79, .	3.2	27
13	Anisotropic lattice thermal expansion of PbFeBO4: A study by X-ray and neutron diffraction, Raman spectroscopy and DFT calculations. Materials Research Bulletin, 2014, 59, 170-178.	5.2	27
14	Prediction for new magnetoelectric fluorides. Journal of Physics Condensed Matter, 2007, 19, 406213.	1.8	25
15	Observation of multiferroic properties in pyroxene NaFeGe₂O₆. Journal of Physics Condensed Matter, 2012, 24, 306001.	1.8	24
16	First-Order Isostructural Phase Transition Induced by High Pressure in Fe(IO₃)₃. Journal of Physical Chemistry C, 2020, 124, 8669-8679.	3.1	24
17	Interplay between low dimensionality and magnetic frustration in the magnetoelectric pyroxenes<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>LiCr</mml:mtext><mml:msub><mml:mi>X</mml:mi><mml:mn>2</mml:mn></mml:msub> xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
19	Magnetodielectric coupling of a polar organic-inorganic hybrid Cr(II) phosphonate. Physical Review B, 2008, 78, .	3.2	22
20	Magnetic and crystal structures of the one-dimensional ferromagnetic chain pyroxene<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>NaCrGe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml Physical Review B, 2009, 80, .	3.2	22
21	Control of zeolite framework flexibility for ultra-selective carbon dioxide separation. Nature Communications, 2022, 13, 1427.	12.8	22
22	High-Pressure Raman Study of Fe(IO₃)₃: Soft-Mode Behavior Driven by Coordination Changes of Iodine Atoms. Journal of Physical Chemistry C, 2020, 124, 21329-21337.	3.1	21
23	Magnetodielectric coupling by exchange striction in Y2Cu2O5. European Physical Journal B, 2009, 71, 393-399.	1.5	20
24	Magnetoelectric and multiferroic properties of ternary copper chalcogenides Cu₂M^{II}M^{IV}S₄. Journal of Physics Condensed Matter, 2009, 21, 176002.	1.8	20
25	Strontium doping in mullite-type bismuth aluminate: a vacancy investigation using neutrons, photons and electrons. Journal of Materials Chemistry, 2012, 22, 18814.	6.7	20
26	Magnetic structure and susceptibility of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CoSe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m An antiferromagnetic chain compound. Physical Review B, 2010, 82, .	3.2	19
27	Magnetic structures of the low temperature phase of Mn₃(VO₄)₂â€“ towards understanding magnetic ordering between adjacent KagomÃ© layers. Dalton Transactions, 2016, 45, 156-171.	3.3	19
28	Magnetic, structural, and dielectric properties ofCuB2O4. Physical Review B, 2007, 76, .	3.2	18
29	The Incommensurately Modulated Structures of the Perovskites NaCeMnWO₆ and NaPrMnWO₆. Inorganic Chemistry, 2012, 51, 4007-4014.	4.0	16
30	Crystal chemical characterization of mullite-type aluminum borate compounds. Journal of Solid State Chemistry, 2017, 247, 173-187.	2.9	16
31	Magnetic Properties of the RbMnPO4Zeolite-ABW-Type Material: A Frustrated Zigzag Spin Chain. Inorganic Chemistry, 2013, 52, 9627-9635.	4.0	15
32	Single crystal growth and characterization of mullite-type Bi₂Mn₄O₁₀. International Journal of Materials Research, 2012, 103, 449-455.	0.3	11
33	Coxsackievirus B3 protease 3C: expression, purification, crystallization and preliminary structural insights. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 877-884.	0.8	11
34	Coexisting hydroxyl groups and H2O molecules in minerals: A single-crystal neutron diffraction study of eosphorite, MnAlPO4(OH)2{middle dot}H2O. American Mineralogist, 2013, 98, 1297-1301.	1.9	10
35	Nanoscale phase separation in perovskites revisited. Nature Materials, 2014, 13, 216-217.	27.5	10
36	In situdetection of a novel lysozyme monoclinic crystal form upon controlled relative humidity variation. Journal of Applied Crystallography, 2018, 51, 1671-1683.	4.5	10

#	ARTICLE	IF	CITATIONS
37	Gradual Localization of 5fStates in Orthorhombic UTX Ferromagnets:Polarized Neutron Diffraction Study of Ru Substituted UCoGe. Journal of the Physical Society of Japan, 2015, 84, 084707.	1.6	9
38	Weak ferrimagnetism and multiple magnetization reversal inÎ±-Cr3(PO4)2. Physical Review B, 2012, 85, .	3.2	8
39	Complex magnetic phase diagram of a geometrically frustrated Sm lattice: Magnetometry and neutron diffraction study of SmPd<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>Al<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 87, .	3.2	8
40	Magnetic Order Through Super-Superexchanges in the Polar Magnetoelectric Organicâ€“Inorganic Hybrid Cr[(D3N-(CH2)2-PO3)(Cl)(D2O)]. Inorganic Chemistry, 2013, 52, 753-760.	4.0	8
41	A High-Pressure Investigation of the Synthetic Analogue of Chalcomenite, CuSeO3â‹™2H2O. Crystals, 2019, 9, 643.	2.2	8
42	Phenomenological Landau analysis of predicted magnetoelectric fluorides: KMnFeF6and Ba2Ni7F18. Journal of Physics Condensed Matter, 2008, 20, 335229.	1.8	6
43	Electronic properties of PrNi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>1</mml:mn><mml:mo>â‹”</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>Al compounds. Physical Review B, 2012, 85, .	3.2	5
44	On the crystal structure and low-temperature behaviour of davyne: A single-crystal X-ray and neutron diffraction study. Microporous and Mesoporous Materials, 2014, 185, 137-148.	4.4	5
45	Polytypism in mcalpineite: a study of natural and synthetic Cu₃TeO₆. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 20-32.	1.1	5
46	A single-crystal neutron and X-ray diffraction study of a Li, Be-bearing brittle mica. Mineralogical Magazine, 2014, 78, 55-72.	1.4	4
47	Oxygen vacancy ordering in SrFe_{0.25}Co_{0.75}O_{2.63}perovskite material. Dalton Transactions, 2017, 46, 1624-1633.	3.3	4
48	Crystal structure and polymorphism of NaSrVO4: the first A I B II X V O4 larnite-related structure from X-ray powder diffraction data. Physics and Chemistry of Minerals, 2017, 44, 455-463.	0.8	4
49	Kalistrontite, its occurrence, structure, genesis, and significance for the evolution of potash deposits in North Yorkshire, U.K.. American Mineralogist, 2018, 103, 1136-1150.	1.9	4
50	Crystal structure and thermal behavior of Bi$$_6$$Te$$_2$$O$$_{15}$$: investigation of synthetic and natural pingguite. Physics and Chemistry of Minerals, 2020, 47, 1.	0.8	4
51	Structural, thermal, magnetic and electrical studies of the iron oxophosphate Rb7Fe7(PO4)8O2Â·2H2O. Materials Research Bulletin, 2010, 45, 1255-1262.	5.2	2
52	â€œForbiddenâ€•reflections in neutron diffraction on bismuth metal oxides: symmetry reduction, Î»/2 effect or Umweganregung?. Zeitschrift Fur Kristallographie - Crystalline Materials, 2013, 228, .	0.8	2
53	Structural and magnetic properties of the low-dimensional fluoride Î²-FeF3(H2O)2Â·H2O. Dalton Transactions, 2015, 44, 14130-14138.	3.3	2
54	Synthesis and crystal structure of the new vanadate AgCaVO₄: Comparison with the arcanite structure. Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, 669-674.	0.8	2

#	Article	IF	Citations
55	Crystal structure of mullite-type PbMn_{0.5}Al_{0.5}BO₄ determined by combined X-ray and neutron diffraction data. Zeitschrift Fur Kristallographie - New Crystal Structures, 2012, 227, 285-286.	0.3	1
56	Crystal structure of the synthetic analogue of iwateite, Na2BaMn(PO4)2: an X-ray powder diffraction and Raman study. Zeitschrift Fur Kristallographie - Crystalline Materials, 2020, 235, 433-437.	0.8	1