

# Gwilherm NÃ©nert

## List of Publications by Year in descending order

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56  
papers

1,771  
citations

361413

20  
h-index

276875

41  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2767  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polytypism in malpeneite: a study of natural and synthetic $\text{Cu}_3\text{TeO}_6$ . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 20-32.	1.1	5
2	Control of zeolite framework flexibility for ultra-selective carbon dioxide separation. Nature Communications, 2022, 13, 1427.	12.8	22
3	Crystal structure and thermal behavior of $\text{Bi}_6\text{Te}_2\text{O}_{15}$ : investigation of synthetic and natural pinguite. Physics and Chemistry of Minerals, 2020, 47, 1.	0.8	4
4	High-Pressure Raman Study of $\text{Fe}(\text{IO}_3)_3$ : Soft-Mode Behavior Driven by Coordination Changes of Iodine Atoms. Journal of Physical Chemistry C, 2020, 124, 21329-21337.	3.1	21
5	First-Order Isostructural Phase Transition Induced by High Pressure in $\text{Fe}(\text{IO}_3)_3$ . Journal of Physical Chemistry C, 2020, 124, 8669-8679.	3.1	24
6	Crystal structure of the synthetic analogue of iwateite, $\text{Na}_2\text{BaMn}(\text{PO}_4)_2$ : an X-ray powder diffraction and Raman study. Zeitschrift Fur Kristallographie - Crystalline Materials, 2020, 235, 433-437.	0.8	1
7	A High-Pressure Investigation of the Synthetic Analogue of Chalcomenite, $\text{CuSeO}_3 \cdot 2\text{H}_2\text{O}$ . Crystals, 2019, 9, 643.	2.2	8
8	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
9	<i>In situ</i> detection of a novel lysozyme monoclinic crystal form upon controlled relative humidity variation. Journal of Applied Crystallography, 2018, 51, 1671-1683.	4.5	10
10	Oxygen vacancy ordering in $\text{SrFe}_{0.25}\text{Co}_{0.75}\text{O}_{2.63}$ perovskite material. Dalton Transactions, 2017, 46, 1624-1633.	3.3	4
11	Crystal structure and polymorphism of $\text{NaSrVO}_4$ : the first $\text{A}1\text{B}2\text{XVO}_4$ larnite-related structure from X-ray powder diffraction data. Physics and Chemistry of Minerals, 2017, 44, 455-463.	0.8	4
12	Synthesis and crystal structure of the new vanadate $\text{AgCaVO}_4$ : Comparison with the arcanite structure. Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, 669-674.	0.8	2
13	Crystal chemical characterization of mullite-type aluminum borate compounds. Journal of Solid State Chemistry, 2017, 247, 173-187.	2.9	16
14	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
15	Magnetic structures of the low temperature phase of $\text{Mn}_3(\text{VO}_4)_2$ towards understanding magnetic ordering between adjacent Kagomé layers. Dalton Transactions, 2016, 45, 156-171.	3.3	19
16	Gradual Localization of $f$ States in Orthorhombic UTX Ferromagnets: Polarized Neutron Diffraction Study of Ru Substituted $\text{UCoGe}$ . Journal of the Physical Society of Japan, 2015, 84, 084707.	1.6	9
17	Structural and magnetic properties of the low-dimensional fluoride $\text{FeF}_3(\text{H}_2\text{O})_2 \cdot \text{H}_2\text{O}$ . Dalton Transactions, 2015, 44, 14130-14138.	3.3	2
18	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

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19	The HighScore suite. Powder Diffraction, 2014, 29, S13-S18.	0.2	805
20	Nanoscale phase separation in perovskites revisited. Nature Materials, 2014, 13, 216-217.	27.5	10
21	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
22	Magnetic structure of the conductive triangular-lattice antiferromagnet PdCrO $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ . Physical Review B, 2014, 89, .	3.2	32
23	Anisotropic lattice thermal expansion of PbFeBO <sub>4</sub> : A study by X-ray and neutron diffraction, Raman spectroscopy and DFT calculations. Materials Research Bulletin, 2014, 59, 170-178.	5.2	27
24	Magnetic Properties of the RbMnPO <sub>4</sub> Zeolite-ABW-Type Material: A Frustrated Zigzag Spin Chain. Inorganic Chemistry, 2013, 52, 9627-9635.	4.0	15
25	Temperature-dependent structural studies of mullite-type Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> . Journal of Solid State Chemistry, 2013, 197, 370-378.	2.9	54
26	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
27	Frustrated Octahedral Tilting Distortion in the Incommensurately Modulated Li <sub>3</sub> Nd <sub>2</sub> /3 $\times$ TiO <sub>3</sub> Perovskites. Chemistry of Materials, 2013, 25, 2670-2683.	6.7	41
28	Complex magnetic phase diagram of a geometrically frustrated Sm lattice: Magnetometry and neutron diffraction study of SmPd $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{Al} \langle \text{mml:math} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ . Physical Review B, 2013, 87, .	3.2	8
29	Magnetic Order Through Super-Superexchanges in the Polar Magnetoelectric Organic $\times$ Inorganic Hybrid Cr[(D <sub>3</sub> N-(CH <sub>2</sub> ) <sub>2</sub> -PO <sub>3</sub> )(Cl)(D <sub>2</sub> O)]. Inorganic Chemistry, 2013, 52, 753-760.	4.0	8
30	$\hat{\rho}$ Forbidden $\hat{\rho}$ reflections in neutron diffraction on bismuth metal oxides: symmetry reduction, $\hat{\rho}$ /2 effect or Umweganregung?. Zeitschrift Fur Kristallographie - Crystalline Materials, 2013, 228, .	0.8	2
31	Coexisting hydroxyl groups and H <sub>2</sub> O molecules in minerals: A single-crystal neutron diffraction study of eosphorite, MnAlPO <sub>4</sub> (OH) <sub>2</sub> $\cdot$ H <sub>2</sub> O. American Mineralogist, 2013, 98, 1297-1301.	1.9	10
32	Crystal structure of mullite-type PbMn <sub>0.5</sub> Al <sub>0.5</sub> BO <sub>4</sub> determined by combined X-ray and neutron diffraction data. Zeitschrift Fur Kristallographie - New Crystal Structures, 2012, 227, 285-286.	0.3	1
33	Electronic properties of PrNi $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \hat{\rho} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{Cu} \langle \text{mml:math} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Al compounds. Physical Review B, 2012, 85, .	3.2	8
34	Weak ferrimagnetism and multiple magnetization reversal in $\hat{\rho}$ -Cr <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> . Physical Review B, 2012, 85, .	3.2	8
35	Observation of multiferroic properties in pyroxene NaFeGe <sub>2</sub> O <sub>6</sub> . Journal of Physics Condensed Matter, 2012, 24, 306001.	1.8	24
36	Single crystal growth and characterization of mullite-type Bi <sub>2</sub> Mn <sub>4</sub> O <sub>10</sub> . International Journal of Materials Research, 2012, 103, 449-455.	0.3	11

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37	The Incommensurately Modulated Structures of the Perovskites NaCeMnWO <sub>6</sub> and NaPrMnWO <sub>6</sub> . Inorganic Chemistry, 2012, 51, 4007-4014.	4.0	16
38	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
39	$\frac{1}{2} \times \frac{1}{2}$ magnet-Cu $\pm$	3.2	23
40	Spontaneous Superlattice Formation in the Doubly Ordered Perovskite KLaMnWO <sub>6</sub> . Chemistry of Materials, 2011, 23, 163-170.	6.7	32
41	Structural, thermal, magnetic and electrical studies of the iron oxophosphate Rb <sub>7</sub> Fe <sub>7</sub> (PO <sub>4</sub> ) <sub>8</sub> O <sub>2</sub> ·2H <sub>2</sub> O. Materials Research Bulletin, 2010, 45, 1255-1262.	5.2	2
42	Magnetic structure and susceptibility of $\text{CoSe}_{2 \times 2 \times 19}$ . An antiferromagnetic chain compound. Physical Review B, 2010, 82, a magnetoelectric pyroxenes	3.2	19
43	$\text{LiCr}_2\text{X}$		

#	ARTICLE	IF	CITATIONS
55	Experimental evidence for an intermediate phase in the multiferroic YMnO <sub>3</sub> . Journal of Physics Condensed Matter, 2007, 19, 466212.	1.8	42
56	Prediction for new magnetoelectric fluorides. Journal of Physics Condensed Matter, 2007, 19, 406213.	1.8	25