

Thomas Malcherek

List of Publications by Year in descending order

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68
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394421

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Fehrite, $\text{MgCu}_4(\text{SO}_4)_2(\text{OH})_6 \cdot 6\text{H}_2\text{O}$, the magnesium analogue of ktenasite from the Casualidad mine near Baños de Alhambra, Almeria, Spain. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2021, 197, 1-10.	0.3	3
2	Perrierite-(Ce) from the Laacher See tephra, Eifel, Germany, and the modular character of the chevkinite group of minerals. <i>Physics and Chemistry of Minerals</i> , 2021, 48, 1.	0.8	1
3	Nondestructive determination of the amphibole crystal chemical formulae by Raman spectroscopy: One step closer. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1530-1548.	2.5	20
4	The modulated low-temperature structure of malayaite, CaSnOSiO_4 . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 316-321.	1.1	1
5	The atacamite family of minerals – a testbed for quantum spin liquids. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2018, 74, 519-526.	1.1	13
6	Radiation-damaged zircon under high pressures. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 981-993.	0.8	20
7	Phase transitions of titanite CaTiSiO_5 from density functional perturbation theory. <i>Physical Review Materials</i> , 2018, 2, .	2.1	21
8	Vondechenite, a new hydrous calcium copper chloride hydroxide, from the Bellerberg, East-Eifel volcanic area, Germany. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2018, 195, 79-86.	0.3	3
9	Structural and compositional variations of basic Cu(II) chlorides in the herbertsmithite and gillardite structure field. <i>Mineralogical Magazine</i> , 2017, 81, 123-134.	1.4	3
10	Composition–thermal expandability relations and oxidation processes in tourmaline studied by in situ Raman spectroscopy. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 735-748.	0.8	9
11	Erazoite, a new copper tin sulfide from the El Guanaco gold deposit, Antofagasta Province, Chile. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2017, 194, 91-96.	0.3	0
12	Structural phase transitions of clinoatacamite and the dynamic Jahn–Teller effect. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 307-321.	0.8	13
13	Exploring the potential of Raman spectroscopy for crystallochemical analyses of complex hydrous silicates: II. Tourmalines. <i>American Mineralogist</i> , 2016, 101, 970-985.	1.9	61
14	Influence of the octahedral cationic-site occupancies on the framework vibrations of Li-free tourmalines, with implications for estimating temperature and oxygen fugacity in host rocks. <i>American Mineralogist</i> , 2016, 101, 2554-2563.	1.9	19
15	Vanackerite, a new lead cadmium arsenate of the apatite supergroup from Tsumeb, Namibia. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2016, 193, .	0.3	4
16	Crystal structure of Cr-bearing $\text{Mg}_3\text{BeAl}_8\text{O}_{16}$, a new polytype of magnesiotaaffeite- $2\text{N} \cdot 2\text{S}$. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2016, 72, 1060-1063.	0.5	2
17	Crystal structures of new potassium silicates and aluminosilicates of Sm, Tb, Gd, and Yb and their relation to the armstrongite $(\text{CaZr}(\text{Si}_6\text{O}_{15}) \cdot 3\text{H}_2\text{O})$ structure. <i>Journal of Solid State Chemistry</i> , 2015, 227, 196-203.	2.9	7
18	Cayalsite-(Y), a new rare-earth calcium aluminium fluorosilicate with OD character. <i>European Journal of Mineralogy</i> , 2015, 27, 683-694.	1.3	0

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19	Polarization Dependent High Energy Resolution X-ray Absorption Study of Dicesium Uranyl Tetrachloride. <i>Inorganic Chemistry</i> , 2015, 54, 174-182.	4.0	41
20	A temperature-induced reversible transformation between paratacamite and herbertsmithite. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 33-48.	0.8	22
21	TEMPERATURE-INDUCED $P_2C_2TO_2C_2C_2$ PHASE TRANSITION IN PARTIALLY AMORPHOUS (METAMICT) TITANITE REVEALED BY RAMAN SPECTROSCOPY. <i>Canadian Mineralogist</i> , 2014, 52, 587-587.	1.0	0
22	Highly Distorted Uranyl Ion Coordination and One/Two-Dimensional Structural Relationship in the $Ba_2[UO_2(TO_4)_2]$ (T = P, As) System: An Experimental and Computational Study. <i>Inorganic Chemistry</i> , 2014, 53, 7650-7660.	4.0	18
23	Gallopumbogummite from Tsumeb, Namibia, a new member of the alunite group with tetravalent charge balance. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2014, 191, 301-309.	0.3	3
24	The keyite crystal structure, revisited. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2013, 228, .	0.8	4
25	The new mineral erikapohlite, $Cu_3(Zn,Cu,Mg)_4Ca_2(AsO_4)_6 \cdot 2H_2O$, the Ca-dominant analogue of keyite, from Tsumeb, Namibia. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2013, 190, 319-325.	0.3	5
26	The crystal structure of creaseyite: a disordered, nanoporous lead iron copper aluminosilicate. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2013, 228, 134-139.	0.8	0
27	High Structural Complexity of Potassium Uranyl Borates Derived from High-Temperature/High-Pressure Reactions. <i>Inorganic Chemistry</i> , 2013, 52, 5110-5118.	4.0	32
28	$K[AsW_2O_9]$, the first member of the arsenate tungsten bronze family: Synthesis, structure, spectroscopic and non-linear optical properties. <i>Journal of Solid State Chemistry</i> , 2013, 204, 59-63.	2.9	41
29	Novel Fundamental Building Blocks and Site Dependent Isomorphism in the First Actinide Borophosphates. <i>Inorganic Chemistry</i> , 2013, 52, 7881-7888.	4.0	10
30	Atelosite-(Y), a new rare earth defect silicate of the KDP structure type. <i>European Journal of Mineralogy</i> , 2012, 24, 1053-1060.	1.3	4
31	Rich Coordination of Nd^{3+} in $Mg_2Nd_{13}(BO_3)_8(SiO_4)_4(OH)_3$, 4 Derived from High-Pressure/High-Temperature Conditions. <i>Inorganic Chemistry</i> , 2012, 51, 3941-3943.	3.0	3
32	Complex clover cross-sectioned nanotubules exist in the structure of the first uranium borate phosphate. <i>Chemical Communications</i> , 2012, 48, 3479.	4.1	25
33	Structural anisotropy and annealing-induced nanoscale atomic rearrangements in metamict titanite. <i>American Mineralogist</i> , 2012, 97, 1354-1365.	1.9	17
34	Synthesis of Uranium Materials under Extreme Conditions: $UO_2[B_3Al_4O_{11}(OH)]$, a Complex 3D Aluminoborate. <i>Chemistry - A European Journal</i> , 2012, 18, 4166-4169.	3.3	15
35	Micro-Raman study of copper hydroxychlorides and other corrosion products of bronze samples mimicking archaeological coins. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1451-1457.	3.7	52
36	Anatacamite from La Vendida mine, Sierra Gorda, Atacama desert, Chile: a triclinic polymorph of $Cu_2(OH)_3Cl$. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2010, 187, 307-312.	0.3	8

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37	The crystal structure of $\text{Cd}_2\text{Nb}_2\text{O}_7$: symmetry mode analysis of the ferroelectric phase. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 205401.	1.8	18
38	Chemical mixing and Raman hard-mode spectroscopy in ferroelastic lead phosphate-arsenate: local symmetry splitting and multiscaling behaviour. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, s275-s275.	0.3	0
39	$\text{Y}_4\text{H}_8\text{Si}_3\text{O}_{16}$: a naturally occurring defect silicate of the KDP structure type. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, s187-s187.	0.3	0
40	The new mineral stetindite, CeSiO_4 , a cerium end-member of the zircon group. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2009, 186, 195-200.	0.3	18
41	First Mixed Alkaline Uranyl Molybdates: Synthesis and Crystal Structures of $\text{CsNa}_3[(\text{UO}_2)_4\text{O}_4(\text{Mo}_2\text{O}_8)]$ and $\text{Cs}_2\text{Na}_8[(\text{UO}_2)_8\text{O}_8(\text{Mo}_5\text{O}_{20})]$. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 1231-1235.	1.2	9
42	Structures of the pseudo-trigonal polymorphs of $\text{Cu}_2(\text{OH})_3\text{Cl}$. <i>Acta Crystallographica Section B: Structural Science</i> , 2009, 65, 334-341.	1.8	29
43	RASTGUI- a free software package for reciprocal space mapping. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, s236-s237.	0.3	0
44	Ferroelectric ordering of $\text{Cd}_2\text{Nb}_2\text{O}_7$. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, s204-s205.	0.3	0
45	Crystal chemistry of anhydrous Li uranyl phosphates and arsenates. I. Polymorphism and structure topology: Synthesis and crystal structures of $\text{Li}[(\text{UO}_2)(\text{PO}_4)]$, $\text{Li}[(\text{UO}_2)(\text{AsO}_4)]$ and $\text{Li}_2[(\text{UO}_2)_3(\text{P}_2\text{O}_7)_2]$. <i>Journal of Solid State Chemistry</i> , 2008, 181, 3010-3015.	2.9	20
46	Structure and stability of $\text{Cd}_2\text{Nb}_2\text{O}_7$ and $\text{Cd}_2\text{Ta}_2\text{O}_7$ explored by ab initio calculations. <i>Physical Review B</i> , 2008, 78, .	3.2	43
47	Sanromanite, $\text{Na}_2\text{CaPb}_3(\text{CO}_3)_5$, from the Santa Rosa mine, Atacama desert, Chile, a new mineral of the burbankite group. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2007, 183, 117-121.	0.3	0
48	The crystal structure of $\text{Li}_4[(\text{UO}_2)_2(\text{W}_2\text{O}_{10})]$ and crystal chemistry of Li uranyl tungstates. <i>Zeitschrift Für Kristallographie</i> , 2007, 222, 391-395.	1.1	12
49	Haydeite, $\text{Cu}_3\text{Mg}(\text{OH})_6\text{Cl}_2$, a new mineral from the Haydee mine, Salar Grande, Atacama desert, Chile. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2007, 184, 39-43.	0.3	10
50	One-Dimensional Array of Two- and Three-Center Cation-Cation Bonds in the Structure of $\text{Li}_4[(\text{UO}_2)_2(\text{Mo}_2\text{O}_8)]$. <i>Inorganic Chemistry</i> , 2007, 46, 8442-8444.	4.0	58
51	$\text{Cu}_3\text{MgCl}_2(\text{OH})_6$ and the bond-valence parameters of the $\text{OH}\cdots\text{Cl}$ bond. <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 157-160.	1.8	27
52	A structural phase transition in NaTaOGeO_4 and its relation to phase transitions in titanite. <i>Acta Crystallographica Section B: Structural Science</i> , 2007, 63, 545-550.	1.8	6
53	Tuning of Inter- versus Intrachain Magnetic Interactions in Cyano-Bridged Nill/Mill ($\text{M} = \text{Cr}, \text{Fe}, \text{Co}$) Chain Complexes. <i>Inorganic Chemistry</i> , 2006, 45, 7722-7735.	4.0	32
54	Encapsulation of Cyanometalates by a Tris-macrocyclic Ligand Tricopper(II) Complex: Syntheses, Structural Variation, and Magnetic Exchange Coupling Pathways. <i>Chemistry - A European Journal</i> , 2006, 12, 737-748.	3.3	30

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55	The structure of SrTiOGeO ₄ and its solid solution with CaTiOGeO ₄ . <i>Physics and Chemistry of Minerals</i> , 2005, 32, 531-545.	0.8	4
56	Temperature and composition dependence of structural phase transitions in Ca(Ti _x Zr _{1-x})OGeO ₄ . <i>American Mineralogist</i> , 2005, 90, 687-694.	1.9	11
57	A high-temperature diffraction study of the solid solution CaTiOSiO ₄ -CaTiOGeO ₄ . <i>American Mineralogist</i> , 2005, 90, 1325-1334.	1.9	8
58	CaZrGeO ₅ and the triclinic instability of the titanite structure type. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005, 220, .	0.8	4
59	Structure and phase transitions of CaTaOAlO ₄ . <i>Journal of Applied Crystallography</i> , 2004, 37, 117-122.	4.5	4
60	Isomorphy of structural phase transitions in LiTaOSiO ₄ , LiTaOGeO ₄ and titanite, CaTiOSiO ₄ . <i>Journal of Solid State Chemistry</i> , 2004, 177, 3254-3262.	2.9	9
61	Metamictization and recrystallization of titanite: An infrared spectroscopic study. <i>American Mineralogist</i> , 2002, 87, 882-890.	1.9	28
62	"Early partial melting" in annealed natural cordierites. <i>European Journal of Mineralogy</i> , 2002, 14, 879-890.	1.3	3
63	Structure and phase transitions of LiTaOGeO ₄ . <i>Acta Crystallographica Section B: Structural Science</i> , 2002, 58, 607-612.	1.8	9
64	Structural properties of ferromagnesian cordierites. <i>American Mineralogist</i> , 2001, 86, 66-79.	1.9	38
65	Strain modulation around inclusions in an annealed natural cordierite. <i>European Journal of Mineralogy</i> , 2001, 13, 921-928.	1.3	2
66	Diffuse scattering anisotropy and the P21/a \rightarrow A2/aphase transition in titanite, CaTiOSiO ₄ . <i>Journal of Applied Crystallography</i> , 2001, 34, 108-113.	4.5	43
67	Localized defects in radiation-damaged zircon. <i>Acta Crystallographica Section B: Structural Science</i> , 2000, 56, 947-952.	1.8	53
68	Autocorrelation analysis of infrared spectra from minerals. <i>European Journal of Mineralogy</i> , 2000, 12, 503-519.	1.3	102