

Manfred Wildner

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Crystallography relevant to Mars and Galilean icy moons: crystal behavior of kieserite-type monohydrate sulfates at extraterrestrial conditions down to 15 K. <i>IUCr</i> , 2022, 9, 194-203.	2.2	6
2	Contributions to the stereochemistry of zirconium oxysalts”part IV: syntheses and crystal structures of $Zr_2(OH)_2(XO_4)_3 \cdot 4H_2O$ ($X = S, Se$), $Zr(SO_4)_2 \cdot 4H_2O$, and $Zr(SeO_3)_2$. <i>Monatshefte für Chemie</i> , 2022, 153, 139-151.	0.8	3
3	$CoSO_4 \cdot H_2O$ and its continuous transition compared to the compression properties of isostructural kieserite-type polymorphs. <i>Zeitschrift Für Kristallographie - Crystalline Materials</i> , 2021, 236, 225-237.	0.8	4
4	Polymorphism of Mg-monohydrate sulfate kieserite under pressure and its occurrence on giant icy jovian satellites. <i>Icarus</i> , 2020, 336, 113459.	2.5	11
5	Structural and spectroscopic study of the kieserite-dwornikite solid-solution series, $(Mg,Ni)SO_4 \cdot H_2O$, at ambient and low temperatures, with cosmochemical implications for icy moons and Mars. <i>American Mineralogist</i> , 2020, 105, 1472-1489.	1.9	5
6	High-Pressure Behavior of Nickel Sulfate Monohydrate: Isothermal Compressibility, Structural Polymorphism, and Transition Pathway. <i>Inorganic Chemistry</i> , 2020, 59, 6255-6266.	4.0	18
7	Contributions to the stereochemistry of zirconium oxysalts”part III: syntheses and crystal structures of $M_2 + Zr(SO_4)_3$ with $M = Mg, Mn, Co, Ni, Zn$ and Cd , and a note on $(Fe^{3+}, Zn)_2(SO_4)_3$ and $1.8 Fe_2(SO_4)_3$. <i>Monatshefte für Chemie</i> , 2019, 150, 1877-1892.		3
8	Contributions to the stereochemistry of zirconium oxysalts”part II: syntheses and crystal structures of $Zr(SeO_3)(SeO_4)$, $Zr_4(SeO_3)(SeO_4)_7$, and $Zr_3(SeO_3)(SeO_4)_5 \cdot 2H_2O$. <i>Monatshefte für Chemie</i> , 2019, 150, 593-603.	1.8	6
9	Investigation of the kieserite”szomolnokite solid-solution series, $(Mg,Fe)SO_4 \cdot H_2O$, with relevance to Mars: Crystal chemistry, FTIR, and Raman spectroscopy under ambient and martian temperature conditions. <i>American Mineralogist</i> , 2019, 104, 1732-1749.	1.9	17
10	Jahn-Teller distortion of Mn^{3+} -occupied octahedra in red beryl from Utah indicated by optical spectroscopy. <i>Journal of Molecular Structure</i> , 2018, 1152, 79-86.	3.6	30
11	Crystal Chemistry, Optical Spectroscopy and Crystal Field Calculations of Co_3TeO_6 and Solid Solutions $Co_3Zn_xTeO_6$. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 4221-4233.	2.0	6
12	Contributions to the stereochemistry of zirconium oxysalts”part I: syntheses and crystal structures of novel $Zr(SeO_4)_2 \cdot H_2O$ and $Zr(SeO_4)_2 \cdot 4H_2O$. <i>Monatshefte für Chemie</i> , 2018, 149, 1321-1325.	1.8	6
13	Synthesis, structure and properties of blödite-type solid solutions, $Na_2Co_{1-x}Cu_x(SO_4)_2 \cdot 4H_2O$ ($0 \leq x < 0.18$), and crystal structure of synthetic kröhnkite, $Na_2Cu(SO_4)_2 \cdot 2H_2O$. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 801-817.		6
14	Blue Zircon from Ratanakiri, Cambodia. <i>Journal of Gemmology</i> , 2018, 36, 112-132.	0.2	20
15	Neoproterozoic amorphous œkanite $(Ca_2Th_{0.9}U_{0.1}Si_8O_{20})$ from Okkampitiya, Sri Lanka: A metamict gemstone with excellent lead-retention performance. <i>Geology</i> , 2017, 45, 919-922.	4.4	5
16	Crystal chemistry of the kieserite”cobaltkieserite solid solution, $Mg_{1-x}Co_x(SO_4) \cdot H_2O$: well-behaved oddities. <i>European Journal of Mineralogy</i> , 2016, 28, 43-52.	1.3	11
17	Syntheses and crystal structures of novel $Zr(SeO_3)(SeO_4)$ and $Zr(SeO_4)_2 \cdot H_2O$. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s356-s356.	0.1	1
18	Polarized electronic absorption spectra of colourless chalcocyanite, $CuSO_4$, with a survey on crystal fields in Cu^{2+} minerals. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 669-680.	0.8	7

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19	Photoluminescence of synthetic titanite-group pigments: A rare quenching effect. <i>Chemie Der Erde</i> , 2014, 74, 419-424.	2.0	5
20	Radio-colouration of diamond: a spectroscopic study. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 843-861.	3.1	31
21	Spectroscopic characterisation and crystal field calculations of varicoloured kyanites from Loliondo, Tanzania. <i>Mineralogy and Petrology</i> , 2013, 107, 289-310.	1.1	17
22	Iron redox reactions in the tourmaline structure: High-temperature treatment of Fe ³⁺ -rich schorl. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 86, 239-256.	3.9	59
23	Investigation of low-hydrated metal(II) nitrates. Syntheses and crystal structures of Zn(NO ₃) ₂ · 2 H ₂ O and M(II)(NO ₃) ₂ · 2 H ₂ O (M = Mg, Mn, Co, Ni). <i>Zeitschrift Für Kristallographie</i> , 2012, 227, 129-140.	1.1	2
24	Crystal-structure properties and the molecular nature of hydrostatically compressed realgar. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 399-412.	0.8	12
25	(Na,Ca)(Ti ₃₊ ,Mg)Si ₂ O ₆ -clinopyroxenes at high pressure: influence of cation substitution on elastic behavior and phase transition. <i>Physics and Chemistry of Minerals</i> , 2010, 37, 25-43.	0.8	15
26	The Crystal Structure of Ni ₂₁ Sn ₂ P ₆ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009, 635, 301-306.	1.2	11
27	Crystal chemistry of synthetic Co- and Ni-analogues of natrochalcite the shortest known hydrogen bonds among mineral-type compounds. Part II: Spectroscopic studies. <i>European Journal of Mineralogy</i> , 2009, 21, 65-78.	1.3	8
28	Investigation of anhydrous metal(II) nitrates. I. Syntheses and crystal structures of Mg(NO ₃) ₃ ·2, Co(NO ₃) ₃ ·2 and Ni(NO ₃) ₃ ·2, with a stereochemical discussion. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2008, 223, 408-417.	0.8	6
29	Crystal structures of SrSeO ₃ and CaSeO ₃ and their respective relationships with molybdomenite- and monazite-type compounds an example for stereochemical equivalence of ESeO ₃ groups (E = lone). <i>Tj ETQq1 1 0.784314 rgBT/Overlo</i> 29-37.	0.3	17
30	Crystal chemistry of synthetic Co- and Ni-analogues of natrochalcite the shortest known hydrogen bonds among mineral-type compounds Part I: Single-crystal X-ray structures. <i>European Journal of Mineralogy</i> , 2007, 19, 805-816.	1.3	15
31	Mechanisms of OH defect incorporation in naturally occurring, hydrothermally formed diopside and jadeite. <i>Physics and Chemistry of Minerals</i> , 2007, 34, 543-549.	0.8	12
32	Syntheses and crystal structures of Pb(SeO ₃) ₂ and two modifications of Sn(SeO ₃) ₂ . <i>Journal of Alloys and Compounds</i> , 2006, 419, 45-49.	5.5	17
33	Crystal structures of the new isotypic compounds Rb ₄ (M ₂)(Fe ³⁺) ₈ [SeO ₃] ₁₄ [SeO ₂ (OH)] ₂ · 2 H ₂ O (M =) <i>Tj ETQq1 1 0.784314 rgBT</i> <i>Materials</i> , 2006, 221, 722-731.	0.8	6
34	Vibrational behavior of the Si—O stretches in compounds with krÄ¶hnikite-type chains Na ₂ Me(SeO ₄) ₂ ·2H ₂ O with matrix-isolated SO ₄ ²⁻ and Me ²⁺ guest ions (Me = Mn, Co, Ni, Cu, Zn, Cd). <i>Vibrational Spectroscopy</i> , 2003, 31, 115-123.	2.2	21
35	Sailaufite, (Ca, Na) ₂ Mn ₃ O ₂ (AsO ₄)(CO ₃) ₃ H ₂ O, a new mineral from Hartkoppe hill, Ober-Sailauf (Spessart mountains, Germany), and its relationship to mitridatite-group minerals and pararobertsite. <i>European Journal of Mineralogy</i> , 2003, 15, 555-564.	1.3	6
36	The crystal chemistry of birefringent natural uvarovites. Part IV. OH defect incorporation mechanisms in non-cubic garnets derived from polarized IR spectroscopy. <i>European Journal of Mineralogy</i> , 2002, 14, 1019-1026.	1.3	35

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37	The crystal chemistry of the humite minerals: Fe ²⁺ -Ti ⁴⁺ charge transfer and structural allocation of Ti ⁴⁺ in chondrodite and clinohumite. <i>European Journal of Mineralogy</i> , 2002, 14, 1027-1032.	1.3	11
38	The crystal chemistry of birefringent natural uvarovites. Part III. Application of the superposition model of crystal fields with a characterization of synthetic cubic uvarovite. <i>Physics and Chemistry of Minerals</i> , 2002, 29, 595-608.	0.8	22
39	Infrared study of $\hat{1}/2$ OD modes in isotopically dilute (HDO molecules) Na ₂ Me(XO ₄) ₂ ·2H ₂ O with matrix-isolated X ²⁺ O ₄ ²⁻ guest ions (Me=Mn, Co, Ni, Cu, Zn, Cd, and X=S, Se). <i>Journal of Molecular Structure</i> , 2002, 643, 37-41.	3.6	15
40	The crystal chemistry of birefringent natural uvarovites: Part II. Single-crystal X-ray structures. <i>American Mineralogist</i> , 2001, 86, 1231-1251.	1.9	49
41	The crystal chemistry of birefringent natural uvarovites: Part I. Optical investigations and UV-VIS-IR absorption spectroscopy. <i>American Mineralogist</i> , 2001, 86, 1219-1230.	1.9	34
42	Crystal chemistry of the new mineral brandholzite, Mg ₂ (H ₂ O) ₆ [Sb(OH) ₆] ₂ , and of the synthetic analogues M ²⁺ (H ₂ O) ₆ [Sb(OH) ₆] ₂ (M ²⁺ =) Tj ETQq0 0 0 TgBT /Over	1.9	20
43	Crystal structures and structural relationships of KFe ₂ (SeO ₂ OH)(SeO ₃) ₃ and SrCo ₂ (SeO ₂ OH) ₂ (SeO ₃) ₂ . <i>Journal of Alloys and Compounds</i> , 1996, 240, 25-32.	5.5	13
44	Crystal structures of the new pseudo-isotypic compounds NaFe(SeO ₃) ₂ and BaCo(SeO ₃) ₂ . <i>Journal of Alloys and Compounds</i> , 1996, 239, 99-102.	5.5	18
45	Structure and crystal chemistry of vivianite-type compounds: Crystal structures of erythrite and annabergite with a Mössbauer study of erythrite. <i>European Journal of Mineralogy</i> , 1996, 8, 187-192.	1.3	32
46	Preparation and crystal structure investigation of Sr ₂ Co(SeO ₃) ₃ . <i>Journal of Alloys and Compounds</i> , 1995, 217, 209-212.	5.5	7
47	Crystal structures of Co ₃ (SeO ₃) ₃ · $\frac{1}{2}$ H ₂ O and Ni ₃ (SeO ₃) ₃ · $\frac{1}{2}$ H ₂ O, two new isotypic compounds. <i>Monatshefte für Chemie</i> , 1991, 122, 585-594.	1.8	28
48	Synthesis and crystal structure of monoclinic Fe ₂ (SeO ₄) ₃ . <i>Monatshefte für Chemie</i> , 1991, 122, 617-623.	1.8	21
49	Optical absorption spectroscopy in geosciences. , 0, , 93-143.		22
50	Optical absorption spectroscopy in geosciences. , 0, , 145-188.		28