

Manfred Wildner

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7744966/publications.pdf>

Version: 2024-02-01

50

papers

778

citations

471509

17

h-index

610901

24

g-index

54

all docs

54

docs citations

54

times ranked

792

citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	Radio-colouration of diamond: a spectroscopic study. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 843-861.	3.1	31
7	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
8	Crystal structures of Co ₃ (SeO ₃) ₃ ·½H ₂ O and Ni ₃ (SeO ₃) ₃ ·½H ₂ O, two new isotopic compounds. <i>Monatshefte für Chemie</i> , 1991, 122, 585-594.	1.8	28
9	Optical absorption spectroscopy in geosciences. , 0, , 145-188.		28
10	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
11	Optical absorption spectroscopy in geosciences. , 0, , 93-143.		22
12	Synthesis and crystal structure of monoclinic Fe ₂ (SeO ₄) ₃ . <i>Monatshefte für Chemie</i> , 1991, 122, 617-623.	1.8	21
13	Vibrational behavior of the S=O stretches in compounds with krohnkite-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
14	Crystal chemistry of the new mineral brandholzite, Mg(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⁺ =Tl ⁺ , Et ⁺ , qd ⁺ , O ²⁻ , f ²⁻). <i>Zeitschrift für Kristallographie</i> , 1991, 206, 18-20.		
15	Blue Zircon from Ratanakiri, Cambodia. <i>Journal of Gemmology</i> , 2018, 36, 112-132.	0.2	20
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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) Tj ETQq1 1 0.784314 rgBT /Overlo 29-37.	0.3	17
20	Spectroscopic characterisation and crystal field calculations of varicoloured kyanites from Loliondo, Tanzania. Mineralogy and Petrology, 2013, 107, 289-310.	1.1	17
21	Investigation of the kieserite–szomolnokite solid-solution series, (Mg,Fe)SO ₄ ·H ₂ O, with relevance to Mars: Crystal chemistry, FTIR, and Raman spectroscopy under ambient and martian temperature conditions. American Mineralogist, 2019, 104, 1732-1749.	1.9	17
22	Infrared study of 1½OD modes in isotopically dilute (HDO molecules) Na ₂ Me(XO ₄) ₂ ·2H ₂ O with matrix-isolated X=O ₄ 2 guest ions (Me=Mn, Co, Ni, Cu, Zn, Cd, and X=S, Se). Journal of Molecular Structure, 2002, 643, 37-41.	3.6	15
23	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. European Journal of Mineralogy, 2007, 19, 805-816.	1.3	15
24	(Na,Ca)(Ti ³⁺ ,Mg)Si ₂ O ₆ -clinopyroxenes at high pressure: influence of cation substitution on elastic behavior and phase transition. Physics and Chemistry of Minerals, 2010, 37, 25-43.	0.8	15
25	Crystal structures and structural relationships of KFe ₂ (SeO ₂ OH)(SeO ₃) ₃ and SrCo ₂ (SeO ₂ OH) ₂ (SeO ₃) ₂ . Journal of Alloys and Compounds, 1996, 240, 25-32.	5.5	13
26	Mechanisms of OH defect incorporation in naturally occurring, hydrothermally formed diopside and jadeite. Physics and Chemistry of Minerals, 2007, 34, 543-549.	0.8	12
27	Crystal-structure properties and the molecular nature of hydrostatically compressed realgar. Physics and Chemistry of Minerals, 2012, 39, 399-412.	0.8	12
28	The crystal chemistry of the humite minerals: Fe ²⁺ -Ti ⁴⁺ charge transfer and structural allocation of Ti ⁴⁺ in chondrodite and clinohumite. European Journal of Mineralogy, 2002, 14, 1027-1032.	1.3	11
29	The Crystal Structure of Ni ₂₁ Sn ₂ P ₆ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 301-306.	1.2	11
30	Crystal chemistry of the kieserite–cobaltkieserite solid solution, Mg _{1-x} Cox(SO ₄)·H ₂ O: well-behaved oddities. European Journal of Mineralogy, 2016, 28, 43-52.	1.3	11
31	Polymorphism of Mg-monohydrate sulfate kieserite under pressure and its occurrence on giant icy jovian satellites. Icarus, 2020, 336, 113459.	2.5	11
32	Crystal chemistry of synthetic Co- and Ni-analogues of natrochalcite the shortest known hydrogen bonds among mineral-type compounds. Part II: Spectroscopic studies. European Journal of Mineralogy, 2009, 21, 65-78.	1.3	8
33	Preparation and crystal structure investigation of Sr ₂ Co(SeO ₃) ₃ . Journal of Alloys and Compounds, 1995, 217, 209-212.	5.5	7
34	Polarized electronic absorption spectra of colourless chalcocyanite, CuSO ₄ , with a survey on crystal fields in Cu ²⁺ minerals. Physics and Chemistry of Minerals, 2014, 41, 669-680.	0.8	7
35	Sailaufite, (Ca, Na) ₂ Mn ₃ O ₂ (AsO ₄) ₂ (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 pararobertsuite. European Journal of Mineralogy, 2003, 15, 555-564.	1.3	6
36	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 =) Tj ETQq0 0 0 rgBT /Overlo Materials, 2006, 221, 722-731.	0.8	6

#	ARTICLE	IF	CITATIONS
37	Investigation of anhydrous metal(II) nitrates. I. Syntheses and crystal structures of Mg(NO ₃) ₂ ·2H ₂ O, Co(NO ₃) ₂ ·2H ₂ O and Ni(NO ₃) ₂ ·2H ₂ O, with a stereochemical discussion. Zeitschrift Fur Kristallographie - Crystalline Materials, 2008, 223, 408-417.	0.8	6
38	Crystal Chemistry, Optical Spectroscopy and Crystal Field Calculations of Co ₃ TeO ₆ and Solid Solutions Co ₃ Zn _x TeO ₆ . European Journal of Inorganic Chemistry, 2018, 2018, 4221-4233.	2.0	6
39	Contributions to the stereochemistry of zirconium oxysaltsâ€”part I: syntheses and crystal structures of novel Zr(SeO ₄) ₂ ·H ₂ O and Zr(SeO ₄) ₂ ·4H ₂ O. Monatshefte FÃ¼r Chemie, 2018, 149, 1321-1325.	1.8	6
40	Contributions to the stereochemistry of zirconium oxysaltsâ€”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 ·2H ₂ O. Monatshefte FÃ¼r Chemie, 2019, 150, 593-603.	1.8	6
41	Crystallography relevant to Mars and Galilean icy moons: crystal behavior of kieserite-type monohydrate sulfates at extraterrestrial conditions down to 15 K. IUCrJ, 2022, 9, 194-203.	2.2	6
42	Photoluminescence of synthetic titanite-group pigments: A rare quenching effect. Chemie Der Erde, 2014, 74, 419-424.	2.0	5
43	Neoproterozoic amorphous â€œekaniteâ€•(Ca ₂ Th _{0.9} U _{0.1} Si ₈ O ₂₀) from Okkampitiya, Sri Lanka: A metamict gemstone with excellent lead-retention performance. Geology, 2017, 45, 919-922.	4.4	5
44	Structural and spectroscopic study of the kieserite-dwornikite solid-solution series, (Mg,Ni)SO ₄ ·H ₂ O, at ambient and low temperatures, with cosmochemical implications for icy moons and Mars. American Mineralogist, 2020, 105, 1472-1489.	1.9	5
45	CoSO ₄ ·H ₂ O and its continuous transition compared to the compression properties of isostructural kieserite-type polymorphs. Zeitschrift Fur Kristallographie - Crystalline Materials, 2021, 236, 225-237.	0.8	4
46	Synthesis, structure and properties of blÃ¶dite-type solid solutions, Na ₂ Co _{1-x} Cu _x (SO ₄) ₂ ·4H ₂ O (0â‰‰ < x â‰‰ 0.18), and crystal structure of synthetic krÃ¶hnkite, Na ₂ Cu(SO ₄) ₂ ·2H ₂ O. Physics and Chemistry of Minerals, 2018, 45, 801-817.	1.8	3
47	Contributions to the stereochemistry of zirconium oxysaltsâ€”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⁺ , ²⁺ ,Zr) ₂ (SO ₄) ₃ and Fe ₂ (SO ₄) ₃ . Monatshefte FÃ¼r Chemie, 2019, 150, 1877-1892.	1.8	3
48	Contributions to the stereochemistry of zirconium oxysaltsâ€”part IV: syntheses and crystal structures of Zr ₂ (OH) ₂ (XO ₄) ₃ ·4H ₂ O (X=S, Se), Zr(SO ₄) ₂ ·4H ₂ O, and Zr(SeO ₃) ₂ . Monatshefte FÃ¼r Chemie, 2022, 153, 139-151.	1.8	3
49	Investigation of low-hydrated metal(II) nitrates. Syntheses and crystal structures of Zn(NO ₃) ₂ · H ₂ O and M(II)(NO ₃) ₂ · 2 H ₂ O (M = Mg, Mn, Co, Ni). Zeitschrift FÃ¼r Kristallographie, 2012, 227, 129-140.	1.1	2
50	Syntheses and crystal structures of novel Zr(SeO ₃)(SeO ₄) and Zr(SeO ₄) ₂ ·H ₂ O. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s356-s356.	0.1	1