

Hannes KrÃ¼ger

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	High-temperature behavior and structural studies on $\text{Ca}_{14}\text{Al}_{10}\text{Zn}_6\text{O}_{35}$. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2022, 237, 219-232.	0.4	0
2	SFCA-II type $\text{Ca}_{2.46}\text{Fe}_3+8.57\text{Fe}_2+0.52\text{Al}_{5.45}\text{O}_{24}$ – an improved structural model for an iron-ore sinter phase. <i>Mineralogy and Petrology</i> , 2021, 115, 137-147.	0.4	3
3	Nomenclature and Classification of the Arctite Supergroup. Aravaite, $\text{Ba}_2\text{Ca}_{18}(\text{SiO}_4)_6[(\text{PO}_4)_3(\text{CO}_3)]\text{F}_3\text{O}$, a New Arctite Supergroup Mineral from Negev Desert, Israel. <i>Canadian Mineralogist</i> , 2021, , .	0.3	4
4	Structural systematics of SFCA-I type solid-solutions in the system $\text{CaO}-\text{Fe}_2\text{O}_3-\text{FeO}-\text{Al}_2\text{O}_3$. <i>Physics and Chemistry of Minerals</i> , 2021, 48, 1.	0.3	5
5	$\text{K}_4\text{Ca}_5\text{Si}_6\text{O}_{15}$ – Solving a 90-year-old riddle. <i>Journal of the American Ceramic Society</i> , 2021, 104, 6678.	1.9	2
6	Kahlenbergite KAl_2O_7 , a new Al^{2+} -alumina mineral and Fe-rich hibonite from the Hatrurim Basin, the Negev desert, Israel. <i>European Journal of Mineralogy</i> , 2021, 33, 341-355.	0.4	3
7	$\text{Mg}(\text{H}_2\text{O})_2[\text{TeO}_2(\text{OH})_4]$: a polytypic structure with a two-mode disordered stacking arrangement. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021, 77, 605-623.	0.5	3
8	Siwajaite, $\text{Ca}_6\text{Al}_2(\text{CrO}_4)_3(\text{OH})_{12}\cdot 26\text{H}_2\text{O}$, a new mineral of the ettringite group from the pyrometamorphic Daba-Siwaja complex, Jordan. <i>American Mineralogist</i> , 2020, 105, 409-421.	0.9	13
9	Raman Spectroscopy and Single-Crystal High-Temperature Investigations of Bentorite, $\text{Ca}_6\text{Cr}_2(\text{SO}_4)_3(\text{OH})_{12}\cdot 26\text{H}_2\text{O}$. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 38.	0.8	2
10	Synthesis and crystal structure of ABW-type $\text{SrFe}_{1.40}\text{V}_{0.60}\text{O}_4$. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2020, 76, 664-667.	0.2	0
11	Structural studies on $\text{Ca}_3\text{Al}_4\text{MgO}_{10}(\text{C}_3\text{A}_2\text{M})$ – A ternary phase in the system $\text{CaO}-\text{Al}_2\text{O}_3-\text{MgO}$. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2084-2093.	1.9	5
12	Thermal expansion and compressibility of $\text{Ca}_3\text{Al}_4\text{ZnO}_{10}$ – an unusual tetrahedral framework structure. <i>Journal of Solid State Chemistry</i> , 2019, 276, 319-330.	1.4	3
13	Levantite, $\text{KCa}_3(\text{Al}_2\text{Si}_3)\text{O}_{11}(\text{PO}_4)$, a new latiumite-group mineral from the pyrometamorphic rocks of the Hatrurim Basin, Negev Desert, Israel. <i>Mineralogical Magazine</i> , 2019, 83, 713-721.	0.6	7
14	A new ternary phase in the system $\text{CaO}-\text{Al}_2\text{O}_3-\text{Cr}_2\text{O}_3$: Crystal structure and thermal expansion of $\text{CaAl}_2\text{Cr}_2\text{O}_7$. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6968-6979.	1.9	6
15	Structural elucidation of triclinic and monoclinic SFCA-III – killing two birds with one stone. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 1126-1136.	0.5	14
16	Arrhenius Behavior of the Bulk Na-Ion Conductivity in $\text{Na}_3\text{Sc}_2(\text{PO}_4)_3$ Single Crystals Observed by Microcontact Impedance Spectroscopy. <i>Chemistry of Materials</i> , 2018, 30, 1776-1781.	3.2	16
17	First investigations on the quaternary system $\text{Na}_2\text{O}-\text{K}_2\text{O}-\text{CaO}-\text{SiO}_2$: synthesis and crystal structure of the mixed alkali calcium silicate $\text{K}_{1.08}\text{Na}_{0.92}\text{Ca}_6\text{Si}_4\text{O}_{15}$. <i>Mineralogy and Petrology</i> , 2018, 112, 219-228.	0.4	3
18	Investigations on FCAM-III ($\text{Ca}_{2.38}\text{Mg}_{2.09}\text{Fe}_3+10.61\text{Fe}_2+1.59\text{Al}_{9.33}\text{O}_{36}$): A new homologue of the aenigmatite structure-type in the system $\text{CaO}-\text{MgO}-\text{Fe}_2\text{O}_3-\text{Al}_2\text{O}_3$. <i>Journal of Solid State Chemistry</i> , 2018, 258, 307-319.	1.4	7

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19	Stracherite, BaCa ₆ (SiO ₄) ₂ [(PO ₄)(CO ₃)]F, the first CO ₃ -bearing intercalated hexagonal antiperovskite from Negev Desert, Israel. <i>American Mineralogist</i> , 2018, 103, 1699-1706.	0.9	10
20	Aravaite, Ba ₂ Ca ₁₈ (SiO ₄) ₆ (PO ₄) ₃ (CO ₃) ₃ F ₃ , modular structure and disorder of a new mineral with single and triple antiperovskite layers. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2018, 74, 492-501.	0.5	3
21	Preparation and characterization of Na _{1.5} K _{0.5} Ca ₆ Si ₄ O ₁₅ (Na _{1.5} K _{0.5} Ca ₆ [SiO ₄] ₂ [Si ₂ O ₇]) and Na _{1.4} K _{0.19} Ca _{2.20} Si ₂ O ₇ : two new phases in the system Na ₂ O–K ₂ O–CaO–SiO ₂ . <i>European Journal of Mineralogy</i> , 2018, 30, 957-966.	0.4	1
22	New Occurrence of Rusinovite, Ca ₁₀ (Si ₂ O ₇) ₃ Cl ₂ : Composition, Structure and Raman Data of Rusinovite from Shadil-Khokh Volcano, South Ossetia and Bellerberg Volcano, Germany. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 399.	0.8	6
23	Sharyginite, Ca ₃ TiFe ₂ O ₈ , A New Mineral from the Bellerberg Volcano, Germany. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 399.	0.8	8
24	New Mineral with Modular Structure Derived from Hatrurite from the Pyrometamorphic Rocks of the Hatrurim Complex: Ariegilatite, BaCa ₁₂ (SiO ₄) ₄ (PO ₄) ₂ F ₂ O, from Negev Desert, Israel. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 399.	0.8	10
25	Molecular Level Understanding of the Reversible Phase Transformation between Forms III and II of Dapsone. <i>Crystal Growth and Design</i> , 2017, 17, 5054-5060.	1.4	19
26	Temperature- and moisture-dependent studies on alunogen and the crystal structure of meta-alunogen determined from laboratory powder diffraction data. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 95-107.	0.3	12
27	Synthesis, synchrotron diffraction study and twinning in Na ₂ Ca ₄ Mg ₂ Si ₄ O ₁₅ – a heteropolyhedral framework compound. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017, 232, .	0.4	1
28	Investigations on the Crystal Structure and the Stability Field of FCAM-I (Ca ₃ MgAl ₆ Fe ₁₀ O ₂₈), an Iso-structure to SFCA-I. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 2207-2221.	1.0	12
29	Melilite-like modulation and temperature-dependent evolution in the framework structure of K ₂ Sc ₂ [Si ₂ O ₆]F. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2016, 72, 209-222.	0.5	4
30	High-pressure/high-temperature synthesis and characterization of the first palladium or platinum containing lithium transition-metal sulfides Li ₂ M ₃ S ₄ (M=Pd, Pt). <i>Journal of Solid State Chemistry</i> , 2016, 242, 87-95.	1.4	2
31	Wernerkrauseite, CaFe ₃ + 2Mn ₄ +O ₆ : the first nonstoichiometric post-spinel mineral, from Bellerberg volcano, Eifel, Germany. <i>European Journal of Mineralogy</i> , 2016, 28, 485-493.	0.4	10
32	Crystal growth, structural characterization and high temperature behavior of Na ₃ TmSi ₃ O ₉ . <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2015, 230, .	0.4	1
33	Li ₂ Ca ₂ Si ₂ O ₇ : Structural, spectroscopic and computational studies on a sorosilicate. <i>Journal of Solid State Chemistry</i> , 2015, 225, 155-167.	1.4	9
34	Single-crystal structure and Raman spectroscopy of synthetic titanite analog CaAlSiO ₄ F. <i>Mineralogy and Petrology</i> , 2015, 109, 631-641.	0.4	4
35	Innsbruckite, Mn ₃₃ (SiO ₄) ₁₄ (OH) ₃₈ – a new mineral from the Tyrol, Austria. <i>Mineralogical Magazine</i> , 2014, 78, 1613-1627.	0.6	1
36	Structural investigations of the two polymorphs of synthetic Fe-cordierite and Raman spectroscopy of hexagonal Fe-cordierite. <i>Mineralogy and Petrology</i> , 2014, 108, 469-478.	0.4	3

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37	Monoclinic structure and nonstoichiometry of KAlSiO_4 . Acta Crystallographica Section C: Crystal Structure Communications, 2013, 69, 334-336.	0.4	8
38	Superstructure of Mullite-type $\text{KAl}_9\text{O}_{14}$. Chemistry of Materials, 2013, 25, 496-502.	3.2	8
39	Structural controls on the anisotropy of tetrahedral frameworks: the example of monoclinic feldspars. European Journal of Mineralogy, 2013, 25, 597-614.	0.4	20
40	Stacking faults and superstructures in a layered brownmillerite. Acta Crystallographica Section B: Structural Science, 2011, 67, 476-485.	1.8	9
41	$\text{Ca}_{5.45}\text{Li}_{3.55}[\text{SiO}_4]_3\text{O}_{0.45}\text{F}_{1.55}$ and $\text{Ca}_7\text{K}[\text{SiO}_4]_3\text{F}_3$: single-crystal synthesis and structures of two trigonal oxyfluorides. Zeitschrift für Kristallographie, 2010, 225, .	1.1	9
42	Monoclinic superstructure of mullite-type $\text{KAl}_9\text{O}_{14}$. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s176-s176.	0.3	0
43	Modulated structure and phase transitions of $\text{Sr}_{10}\text{Ga}_6\text{O}_{19}$. Acta Crystallographica Section B: Structural Science, 2009, 65, 587-592.	1.8	4
44	Computer-controlled high-temperature single-crystal X-ray diffraction experiments and temperature calibration. Journal of Applied Crystallography, 2009, 42, 140-142.	1.9	21
45	High-temperature structural phase transition in studied by in-situ X-ray diffraction and transmission electron microscopy. Journal of Solid State Chemistry, 2009, 182, 1515-1523.	1.4	46
46	Layered brownmillerites in the system of manganese-containing alumino-ferrites. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s177-s178.	0.3	0
47	Incommensurate structure of $\text{Ca}_2\text{Al}_2\text{O}_5$ at high temperatures – structure investigation and Raman spectroscopy. Acta Crystallographica Section B: Structural Science, 2008, 64, 417-425.	1.8	38
48	$\text{Ca}_2\text{NaSiO}_4\text{F}$: a new monoclinic polymorph. Zeitschrift Für Kristallographie - Crystalline Materials, 2008, 223, 382-388.	0.4	6
49	$\text{Li}_2\text{Si}_3\text{O}_7$: Crystal structure and Raman spectroscopy. Journal of Solid State Chemistry, 2007, 180, 922-928.	1.4	22
50	Study of the temperature dependence of the structure of KY_3F_{10} . Journal of Physics Condensed Matter, 2006, 18, 2677-2687.	0.7	26
51	$\text{Na}_2\text{Si}_3\text{O}_7$: an incommensurate structure with crenel-type modulation functions, refined from a twinned crystal. Acta Crystallographica Section B: Structural Science, 2006, 62, 440-446.	1.8	5
52	Thermal expansion of $\text{Li}_3\text{Na}_3\text{In}_2\text{F}_{12}$ garnet. Journal of Physics Condensed Matter, 2006, 18, 8925-8934.	0.7	6
53	Structural studies on $\text{Na}_6\text{Si}_8\text{O}_{19}$ – a monophyllosilicate with a new type of layered silicate anion. Solid State Sciences, 2005, 7, 1390-1396.	1.5	15
54	Incommensurately modulated ordering of tetrahedral chains in $\text{Ca}_2\text{Fe}_2\text{O}_5$ at elevated temperatures. Acta Crystallographica Section B: Structural Science, 2005, 61, 656-662.	1.8	39

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55	LaAlSiO ₅ and apatite-type La ₉ .71(Si ₀ .81Al ₀ .19O ₄) ₆ O ₂ the crystal structures of two synthetic lanthanum aluminosilicates. Solid State Sciences, 2004, 6, 553-560.	1.5	18
56	Divergence-slit intensity corrections for Bragg-Brentano diffractometers with circular sample surfaces and known beam intensity distribution. Journal of Applied Crystallography, 2004, 37, 472-476.	1.9	5