

Hannes KrÃ¼ger

List of Publications by Year in descending order

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56
papers

521
citations

687220

13
h-index

752573

20
g-index

59
all docs

59
docs citations

59
times ranked

637
citing authors

#	ARTICLE	IF	CITATIONS
1	High-temperature structural phase transition in studied by in-situ X-ray diffraction and transmission electron microscopy. <i>Journal of Solid State Chemistry</i> , 2009, 182, 1515-1523.	1.4	46
2	Incommensurately modulated ordering of tetrahedral chains in Ca ₂ Fe ₂ O ₅ at elevated temperatures. <i>Acta Crystallographica Section B: Structural Science</i> , 2005, 61, 656-662.	1.8	39
3	Incommensurate structure of Ca ₂ Al ₂ O ₅ at high temperatures – structure investigation and Raman spectroscopy. <i>Acta Crystallographica Section B: Structural Science</i> , 2008, 64, 417-425.	1.8	38
4	Study of the temperature dependence of the structure of KY ₃ F ₁₀ . <i>Journal of Physics Condensed Matter</i> , 2006, 18, 2677-2687.	0.7	26
5	Li ₂ Si ₃ O ₇ : Crystal structure and Raman spectroscopy. <i>Journal of Solid State Chemistry</i> , 2007, 180, 922-928.	1.4	22
6	Computer-controlled high-temperature single-crystal X-ray diffraction experiments and temperature calibration. <i>Journal of Applied Crystallography</i> , 2009, 42, 140-142.	1.9	21
7	Structural controls on the anisotropy of tetrahedral frameworks: the example of monoclinic feldspars. <i>European Journal of Mineralogy</i> , 2013, 25, 597-614.	0.4	20
8	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
9	LaAlSiO ₅ and apatite-type La _{9.71} (Si _{0.81} Al _{0.19} O ₄) ₆ O ₂ – the crystal structures of two synthetic lanthanum aluminosilicates. <i>Solid State Sciences</i> , 2004, 6, 553-560.	1.5	18
10	Arrhenius Behavior of the Bulk Na-Ion Conductivity in Na ₃ Sc ₂ (PO ₄) ₃ Single Crystals Observed by Microcontact Impedance Spectroscopy. <i>Chemistry of Materials</i> , 2018, 30, 1776-1781.	3.2	16
11	Structural studies on Na ₆ Si ₈ O ₁₉ – a monophyllosilicate with a new type of layered silicate anion. <i>Solid State Sciences</i> , 2005, 7, 1390-1396.	1.5	15
12	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)</i> , 2018, 8, 107.	0.8	14
13	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
14	Siwaqaite, Ca ₆ Al ₂ (CrO ₄) ₃ (OH)12·26H ₂ O, a new mineral of the ettringite group from the pyrometamorphic Daba-Siwaqa complex, Jordan. <i>American Mineralogist</i> , 2020, 105, 409-421.	0.9	13
15	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
16	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
17	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
18	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

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19	Ca _{5.45} Li _{3.55} [SiO ₄] ₃ O _{0.45} F _{1.55} and Ca ₇ K[SiO ₄] ₃ F ₃ : single-crystal synthesis and structures of two trigonal oxyfluorides. <i>Zeitschrift für Kristallographie</i> , 2010, 225, .	1.1	9
20	Stacking faults and superstructures in a layered brownmillerite. <i>Acta Crystallographica Section B: Structural Science</i> , 2011, 67, 476-485.	1.8	9
21	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
22	Monoclinic structure and nonstoichiometry of 'KAlSiO ₄ O ₁ '. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013, 69, 334-336.	0.4	8
23	Superstructure of Mullite-type KAl ₉ O ₁₄ . <i>Chemistry of Materials</i> , 2013, 25, 496-502.	3.2	8
24	Sharyginite, Ca ₃ TiFe ₂ O ₈ , A New Mineral from the Bellerberg Volcano, Germany. <i>Minerals (Basel)</i> 10 Tf 50 5	0.8	8
25	Investigations on FCAM-III (Ca _{2.38} Mg _{2.09} Fe ₃ +10.61Fe ₂ +1.59Al _{9.33} O ₃₆): A new homologue of the aenigmatite structure-type in the system CaO-MgO-Fe ₂ O ₃ -Al ₂ O ₃ . <i>Journal of Solid State Chemistry</i> , 2018, 258, 307-319.	1.4	7
26	Levantite, KCa ₃ (Al ₂ Si ₃)O ₁₁ (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
27	Thermal expansion of Li ₃ Na ₃ In ₂ F ₁₂ garnet. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 8925-8934.	0.7	6
28	Ca ₂ NaSiO ₄ F: a new monoclinic polymorph. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2008, 223, 382-388.	0.4	6
29	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
30	A new ternary phase in the system CaO-Al ₂ O ₃ -Cr ₂ O ₃ : Crystal structure and thermal expansion of CaAl ₂ Cr ₂ O ₇ . <i>Journal of the American Ceramic Society</i> , 2019, 102, 6968-6979.	1.9	6
31	Divergence-slit intensity corrections for Bragg-Brentano diffractometers with circular sample surfaces and known beam intensity distribution. <i>Journal of Applied Crystallography</i> , 2004, 37, 472-476.	1.9	5
32	Na ₂ Si ₃ O ₇ : an incommensurate structure with crenel-type modulation functions, refined from a twinned crystal. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 440-446.	1.8	5
33	Structural studies on Ca ₃ Al ₄ MgO ₁₀ (C ₃ A ₂ M) - A ternary phase in the system CaO-Al ₂ O ₃ -MgO. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2084-2093.	1.9	5
34	Structural systematics of SFCA-I type solid-solutions in the system CaO-Fe ₂ O ₃ -FeO-Al ₂ O ₃ . <i>Physics and Chemistry of Minerals</i> , 2021, 48, 1.	0.3	5
35	Modulated structure and phase transitions of Sr ₁₀ Ga ₆ O ₁₉ . <i>Acta Crystallographica Section B: Structural Science</i> , 2009, 65, 587-592.	1.8	4
36	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

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37	Melilite-like modulation and temperature-dependent evolution in the framework structure of $K_2Sc[Si_2O_6]F$. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2016, 72, 209-222.	0.5	4
38	Nomenclature and Classification of the Arctite Supergroup. Aravaite, $Ba_2Ca_{18}(SiO_4)_6[(PO_4)_3(CO_3)]F_3O$, a New Arctite Supergroup Mineral from Negev Desert, Israel. <i>Canadian Mineralogist</i> , 2021, , .	0.3	4
39	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
40	First investigations on the quaternary system $Na_2O-K_2O-CaO-SiO_2$: synthesis and crystal structure of the mixed alkali calcium silicate $K_{1.08}Na_{0.92}Ca_6Si_4O_{15}$. <i>Mineralogy and Petrology</i> , 2018, 112, 219-228.	0.4	3
41	Aravaite, $Ba_2Ca_{18}(SiO_4)_6(PO_4)_3(CO_3)_3F_3O$, 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
42	Thermal expansion and compressibility of $Ca_3Al_4ZnO_{10}$ – an unusual tetrahedral framework structure. <i>Journal of Solid State Chemistry</i> , 2019, 276, 319-330.	1.4	3
43	SFCA-II type $Ca_{2.46}Fe_{3+8.57}Fe_{2+0.52}Al_{5.45}O_{24}$ – an improved structural model for an iron-ore sinter phase. <i>Mineralogy and Petrology</i> , 2021, 115, 137-147.	0.4	3
44	Kahlenbergite $KAl_{11}O_{17}$, 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
45	$Mg(H_2O)_2[TeO_2(OH)_4]$: 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
46	High-pressure/high-temperature synthesis and characterization of the first palladium or platinum containing lithium transition-metal sulfides $Li_2M_3S_4$ (M=Pd, Pt). <i>Journal of Solid State Chemistry</i> , 2016, 242, 87-95.	1.4	2
47	Raman Spectroscopy and Single-Crystal High-Temperature Investigations of Bentorite, $Ca_6Cr_2(SO_4)_3(OH)_{12} \cdot 26H_2O$. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 38.	0.8	2
48	$K_4CaSi_6O_{15}$ – Solving a 90-year-old riddle. <i>Journal of the American Ceramic Society</i> , 2021, 104, 6678.	1.9	2
49	Innsbruckite, $Mn_{33}(Si_2O_5)_{14}(OH)_{38}$ – a new mineral from the Tyrol, Austria. <i>Mineralogical Magazine</i> , 2014, 78, 1613-1627.	0.6	1
50	Crystal growth, structural characterization and high temperature behavior of $Na_3TmSi_3O_9$. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2015, 230, .	0.4	1
51	Synthesis, synchrotron diffraction study and twinning in $Na_2Ca_4Mg_2Si_4O_{15}$ – a heteropolyhedral framework compound. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017, 232, .	0.4	1
52	Preparation and characterization of $Na_{1.5}K_{0.5}Ca_6Si_4O_{15}$ ($Na_{1.5}K_{0.5}Ca_6[SiO_4]_2[Si_2O_7]$) and $Na_{1.41}K_{0.19}Ca_{2.20}Si_2O_7$: two new phases in the system Na_2O – K_2O – CaO – SiO_2 . <i>European Journal of Mineralogy</i> , 2018, 30, 957-966.	0.4	1
53	Layered brownmillerites in the system of manganese-containing alumino-ferrites. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, s177-s178.	0.3	0
54	Monoclinic superstructure of mullite-type KAl_9O_{14} . <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, s176-s176.	0.3	0

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55	Synthesis and crystal structure of ABW-type $\text{SrFe}_{1.40}\text{V}_{0.60}\text{O}_4$. Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 664-667.	0.2	0
56	High-temperature behavior and structural studies on $\text{Ca}_{14}\text{Al}_{10}\text{Zn}_6\text{O}_{35}$. Zeitschrift Fur Kristallographie - Crystalline Materials, 2022, 237, 219-232.	0.4	0