

Biljana KrÄ¼ger

List of Publications by Year in descending order

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66
papers

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#	ARTICLE	IF	CITATIONS
1	Crystal Chemistry and Stability of $\text{Li}_{7-x}\text{La}_3\text{Zr}_2\text{O}_{12-x}$ Garnet: A Fast Lithium-Ion Conductor. <i>Inorganic Chemistry</i> , 2011, 50, 1089-1097.	4.0	600
2	Harmunite CaFe_2O_4 : A new mineral from the Jabel Harmun, West Bank, Palestinian Autonomy, Israel. <i>American Mineralogist</i> , 2014, 99, 965-975.	1.9	64
3	Elbrusite-(Zr)—A new uranian garnet from the Upper Chegem caldera, Kabardino-Balkaria, Northern Caucasus, Russia. <i>American Mineralogist</i> , 2010, 95, 1172-1181.	1.9	45
4	Shulamitite $\text{Ca}_3\text{TiFe}_3\text{AlO}_8$ - a new perovskite-related mineral from Hatrurim Basin, Israel. <i>European Journal of Mineralogy</i> , 2013, 25, 97-111.	1.3	40
5	Silicocarnotite, $\text{Ca}_5[(\text{SiO}_4)(\text{PO}_4)](\text{PO}_4)$, a new „old“ mineral from the Negev Desert, Israel, and the ternesite-silicocarnotite solid solution: indicators of high-temperature alteration of pyrometamorphic rocks of the Hatrurim Complex, Southern Levant. <i>European Journal of Mineralogy</i> , 2016, 28, 105-123.	1.3	39
6	Incommensurate structure of $\text{Ca}_2\text{Al}_2\text{O}_5$ at high temperatures — structure investigation and Raman spectroscopy. <i>Acta Crystallographica Section B: Structural Science</i> , 2008, 64, 417-425.	1.8	38
7	Vorlanite $(\text{CaU}_6)\text{O}_4$ —A new mineral from the Upper Chegem caldera, Kabardino-Balkaria, Northern Caucasus, Russia. <i>American Mineralogist</i> , 2011, 96, 188-196.	1.9	37
8	On the polymorphism of CaAl_2O_4 —structural investigations of two high pressure modifications. <i>Solid State Sciences</i> , 2006, 8, 589-597.	3.2	35
9	Chegemite $\text{Ca}_7(\text{SiO}_4)_3(\text{OH})_2$ a new humite-group calcium mineral from the Northern Caucasus, Kabardino-Balkaria, Russia. <i>European Journal of Mineralogy</i> , 2009, 21, 1045-1059.	1.3	34
10	MENZERITE-(Y), A NEW SPECIES, $\text{Å}[(\text{Mg}, \text{Fe}^{2+})(\text{Fe}^{3+}, \text{Al})](\text{Si}_3)\text{O}_{12}$, FROM A FELSIC GRANULITE, PARRY SOUND, ONTARIO, AND A NEW GARNET END-MEMBER, $\text{Å}[\text{Mg}_2](\text{Si}_3)\text{O}_{12}$. <i>Canadian Mineralogist</i> , 2010, 48, 1171-1193.	1.0	32
11	Khesinite, $\text{Ca}_4\text{Mg}_2\text{Fe}_3\text{O}_{10}[(\text{Fe}^{3+} 10\text{Si}_2)\text{O}_{36}]$, a new rhönite-group (sapphirine supergroup) mineral from the Negev Desert, Israel — natural analogue of the SFCA phase. <i>European Journal of Mineralogy</i> , 2017, 29, 101-116.	1.3	31
12	Crystal structure, thermodynamic properties, and paragenesis of bukovskite, $\text{Fe}_2(\text{AsO}_4)(\text{SO}_4)(\text{OH}) \cdot 9\text{H}_2\text{O}$. <i>Journal of Mineralogical and Petrological Sciences</i> , 2012, 107, 133-148.	0.9	25
13	On the symmetry of $\text{Ba}_3\text{Al}_2\text{O}_6$ — X-ray diffraction and Raman spectroscopy studies. <i>Solid State Sciences</i> , 2009, 11, 77-84.	3.2	24
14	Thermodynamic and crystallographic properties of kornelite $[\text{Fe}_2(\text{SO}_4)_3 \cdot 7.75\text{H}_2\text{O}]$ and paracoquimbite $[\text{Fe}_2(\text{SO}_4)_3 \cdot 9\text{H}_2\text{O}]$. <i>American Mineralogist</i> , 2009, 94, 1620-1628.	1.9	24
15	The crystal structure of flamite and its relation to Ca_2SiO_4 polymorphs and nagelschmidite. <i>European Journal of Mineralogy</i> , 2015, 27, 755-769.	1.3	23
16	Kumtyubeite $\text{Ca}_5(\text{SiO}_4)_2\text{F}_2$ —A new calcium mineral of the humite group from Northern Caucasus, Kabardino-Balkaria, Russia. <i>American Mineralogist</i> , 2009, 94, 1361-1370.	1.9	22
17	Phase-out-compliant fluorosurfactants: unique methimazolium derivatives including room temperature ionic liquids. <i>Green Chemistry</i> , 2017, 19, 3225-3237.	9.0	22
18	Bitikleite-(SnAl) and bitikleite-(ZrFe): New garnets from xenoliths of the Upper Chegem volcanic structure, Kabardino-Balkaria, Northern Caucasus, Russia. <i>American Mineralogist</i> , 2010, 95, 959-967.	1.9	20

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19	Rusinovite, Ca ₁₀ (Si ₂ O ₇) ₃ Cl ₂ : a new skarn mineral from the Upper Chegem caldera, Kabardino-Balkaria, Northern Caucasus, Russia. <i>European Journal of Mineralogy</i> , 2011, 23, 837-844.	1.3	20
20	Galuskinite, Ca ₇ (SiO ₄) ₃ (CO ₃), a new skarn mineral from the Birkhin gabbro massif, Eastern Siberia, Russia. <i>Mineralogical Magazine</i> , 2011, 75, 2631-2648.	1.4	19
21	Pavlovskyite Ca ₈ (SiO ₄) ₂ (Si ₃ O ₁₀): A new mineral of altered silicate-carbonate xenoliths from the two Russian type localities, Birkhin massif, Baikal Lake area and Upper Chegem caldera, North Caucasus. <i>American Mineralogist</i> , 2012, 97, 503-512.	1.9	18
22	Eringaite, Ca ₃ Sc ₂ (SiO ₄) ₃ , a new mineral of the garnet group. <i>Mineralogical Magazine</i> , 2010, 74, 365-373.	1.4	16
23	Walstromite, BaCa ₂ (Si ₃ O ₉), from Rankinite Paralava within Gehlenite Hornfels of the Hatrum Basin, Negev Desert, Israel. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 407.	2.0	16
24	Edgrewite Ca ₉ (SiO ₄) ₄ F ₂ -hydroxyedgrewite Ca ₉ (SiO ₄) ₄ (OH) ₂ , a new series of calcium humite-group minerals from altered xenoliths in the ignimbrite of Upper Chegem caldera, Northern Caucasus, Kabardino-Balkaria, Russia. <i>American Mineralogist</i> , 2012, 97, 1998-2006.	1.9	14
25	New Mineral with Modular Structure Derived from Hatrumite from the Pyrometamorphic Rocks of the Hatrum Complex: Ariegilatite, BaCa ₁₂ (SiO ₄) ₄ (PO ₄) ₂ F ₂ O, from Negev Desert, Israel. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 784-794.	2.0	14
26	Siwajaite, Ca ₆ Al ₂ (CrO ₄) ₃ (OH) ₁₂ ·26H ₂ O, a new mineral of the ettringite group from the pyrometamorphic Daba-Siwaja complex, Jordan. <i>American Mineralogist</i> , 2020, 105, 409-421.	1.9	13
27	In situ dehydration behavior of zeolite-like cavansite: A single-crystal X-ray study. <i>American Mineralogist</i> , 2012, 97, 1874-1880.	1.9	12
28	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.	1.3	10
29	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.	1.9	10
30	Tetrastrontium-digalliumoxide (Sr ₄ Ga ₂ O ₇) synthesis and crystal structure of a mixed anion strontium gallate related to perovskite. <i>Journal of Solid State Chemistry</i> , 2005, 178, 1429-1439.	2.9	9
31	Rietveld Analysis of a High Pressure Modification of Monocalcium Oxogallate (CaGa ₂ O ₄). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2005, 631, 2411-2415.	1.2	9
32	Trabzonite, Ca ₄ [Si ₃ O ₉ (OH)]OH: crystal structure, revised formula, new occurrence and relation to killalaite. <i>Mineralogical Magazine</i> , 2012, 76, 455-472.	1.4	9
33	Chlorine content and crystal chemistry of dellaite from the Birkhin gabbro massif, Eastern Siberia, Russia. <i>Mineralogical Magazine</i> , 2011, 75, 379-394.	1.4	8
34	Magnesiogobomite-2N ₄ S: A new polysome from the central Sor Rondane Mountains, East Antarctica. <i>American Mineralogist</i> , 2012, 97, 268-280.	1.9	8
35	In situ dehydration behavior of zeolite-like pentagonite: A single-crystal X-ray study. <i>Journal of Solid State Chemistry</i> , 2013, 197, 508-516.	2.9	8
36	Monoclinic structure and nonstoichiometry of 'KAlSiO ₄ -xO'. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013, 69, 334-336.	0.4	8

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37	Superstructure of Mullite-type KAl_9O_{14} . <i>Chemistry of Materials</i> , 2013, 25, 496-502.	6.7	8
38	FLUORCHEGEMITE, $Ca_7(SiO_4)_3F_2$, A NEW MINERAL FROM THE EDGREWITE-BEARING ENDOSKARN ZONE OF AN ALTERED XENOLITH IN IGIMBRITES FROM UPPER CHEGEM CALDERA, NORTHERN CAUCASUS, KABARDINO-BALKARIA, RUSSIA: OCCURRENCE, CRYSTAL STRUCTURE, AND NEW DATA ON THE MINERAL ASSEMBLAGES. <i>Canadian Mineralogist</i> , 2015, 53, 325-344.	1.0	8
39	Sharyginite, $Ca_3TiFe_2O_8$, A New Mineral from the Bellerberg Volcano, Germany. <i>Minerals (Basel)</i> 10.784314. <i>Overlooked</i>	2.0	8
40	Raman spectroscopy and structural study of baryte-hashemite solid solution from pyrometamorphic rocks of the Hatrurim Complex, Israel. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 205, 582-592.	3.9	8
41	Structural studies on a stuffed framework high pressure polymorph of $CaAl_2O_4$. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2007, 222, .	0.8	7
42	High-temperature induced dehydration, phase transition and exsolution in amicitite: A single-crystal X-ray study. <i>Microporous and Mesoporous Materials</i> , 2013, 182, 207-219.	4.4	7
43	Superspace description of wagnerite-group minerals $(Mg,Fe,Mn)_2(PO_4)(F,OH)$. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 243-258.	1.1	7
44	Levantite, $KCa_3(Al_2Si_3)O_{11}(PO_4)$, a new latiumite-group mineral from the pyrometamorphic rocks of the Hatrurim Basin, Negev Desert, Israel. <i>Mineralogical Magazine</i> , 2019, 83, 713-721.	1.4	7
45	New Occurrence of Rusinovite, $Ca_{10}(Si_2O_7)_3Cl_2$: 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.	2.0	6
46	Structural investigations on bredigite from the Hatrurim Complex. <i>Mineralogy and Petrology</i> , 2019, 113, 261-272.	1.1	6
47	Spectroscopic and structural investigations of blue afwillite from Ma'ale Adummim locality, Palestinian Autonomy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 227, 117688.	3.9	6
48	Meta-autunite from a Li-pegmatite of the Cer Mt., Serbia: Its mineralogical and XRD investigations. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2009, 186, 333-344.	0.3	5
49	In situ dehydration behavior of veszelyite $(Cu,Zn)_2Zn(PO_4)(OH)_3 \cdot 2H_2O$: A single-crystal X-ray study. <i>American Mineralogist</i> , 2013, 98, 1261-1269.	1.9	5
50	Structural studies on $Ca_3Al_4MgO_{10}(C_3A_2M)$ a ternary phase in the system $CaO-Al_2O_3-MgO$. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2084-2093.	3.8	5
51	Modulated structure and phase transitions of $Sr_{10}Ga_6O_{19}$. <i>Acta Crystallographica Section B: Structural Science</i> , 2009, 65, 587-592.	1.8	4
52	Dehydration of the natural zeolite goosecreekite $CaAl_2Si_6O_{16} \cdot 5H_2O$ upon stepwise heating: A single-crystal and powder X-ray study. <i>American Mineralogist</i> , 2011, 96, 1070-1078.	1.9	4
53	Hydrogen-bond system and dehydration behavior of the natural zeolite partheite. <i>American Mineralogist</i> , 2012, 97, 1866-1873.	1.9	4
54	Crystal chemistry and hydrogen bonding of rustumite $Ca_{10}(Si_2O_7)_2(SiO_4)(OH)_2Cl_2$ with variable OH, Cl, F. <i>American Mineralogist</i> , 2013, 98, 493-500.	1.9	4

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55	Bennesherrite, Ba ₂ Fe ₂ Si ₂ O ₇ : A new melilite group mineral from the Hatrurim Basin, Negev Desert, Israel. <i>American Mineralogist</i> , 2022, 107, 138-146.	1.9	4
56	Nomenclature and Classification of the Arctite Supergroup. Aravaite, Ba ₂ Ca ₁₈ (SiO ₄) ₆ [(PO ₄) ₃ (CO ₃)]F ₃ O, a New Arctite Supergroup Mineral from Negev Desert, Israel. <i>Canadian Mineralogist</i> , 2021, , .	1.0	4
57	Aravaite, Ba ₂ Ca ₁₈ (SiO ₄) ₆ (PO ₄) ₃ (CO ₃)F ₃ O 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.	1.1	3
58	Kahlenbergite KAl ₁₁ O ₁₇ , a new \hat{I}^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.	1.3	3
59	Kyzylkumite, Ti ₂ V ³⁺ O ₅ (OH): new structure type, modularity and revised formula. <i>Mineralogical Magazine</i> , 2013, 77, 33-44.	1.4	2
60	Raman Spectroscopy and Single-Crystal High-Temperature Investigations of Bentorite, Ca ₆ Cr ₂ (SO ₄) ₃ (OH)12·26H ₂ O. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 38.	2.0	2
61	The crystal structure of 3-(1-(2-((5-methylthiophen-2-yl)methylene)hydrazinyl)ethylidene)chroman-2,4-dione, C ₁₇ H ₁₄ N ₂ O ₃ S. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2022, 237, 775-777.	0.3	2
62	Low-temperature phase transition and magnetic properties of K ₃ YbSi ₂ O ₇ . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021, 77, 584-593.	1.1	1
63	Kahlenbergite, a new potassium \hat{I}^2 -alumina mineral. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e206-e206.	0.1	1
64	Reactions of copper(II) bromide with 2,6-diacetylpyridine bis(phenyl-hydrazone) (L)-molecular and crystal structure of L and its mixed-valence complex [CuLL ₂][Cu ₂ Br ₄]. <i>Journal of the Serbian Chemical Society</i> , 2022, 87, 307-320.	0.8	1
65	Werdingite from a pegmatite at Almgjotheii, Rogaland, Norway: The role of iron in a borosilicate with a mullite-type structure. <i>European Journal of Mineralogy</i> , 2011, 23, 577-589.	1.3	0
66	Monoclinic superstructure of mullite-type KAl ₉ O ₁₄ . <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, s176-s176.	0.3	0