

List of publications — Biljana Krüger (née Lazic)

- (73) E.V. Galuskin, **B. Krüger**, IO. Galuskina, H. Krüger, K. Nejbort, Y. Vapnik (2024): Gorerite, $\text{CaAlFe}_{11}\text{O}_{19}$, a new mineral of the magnetoplumbite group from the Negev Desert, Israel. *Mineralogical Magazine* 88
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doi: 10.1180/mgm.2024.30
- (72) R. Juroszek, I. Galuskina, **B. Krüger**, H. Krüger, Y. Vapnik, V. Kahlenberg & E. Galuskin (2023): Minerals with a palmierite-type structure. Part I. Mazorite $\text{Ba}_3(\text{PO}_4)_2$, a new mineral from the Hatrurim Complex in Israel. *Mineralogical Magazine* 87(5), 679-689.
doi:10.1180/mgm.2023.57
- (71) R. Juroszek, **B. Krüger**, H. Krüger & I. Galuskina (2023): Minerals with a palmierite-type structure. Part II. Nomenclature and classification of the palmierite supergroup. *Mineralogical Magazine* 87(5), 690-694. doi:10.1180/mgm.2023.56
- (70) **B. Krüger**, I.O. Galuskina, E.V. Galuskin & M. Murashko (2023): Khurayyimitite $\text{Ca}_7\text{Zn}_4(\text{Si}_2\text{O}_7)_2(\text{OH})_{10}\cdot 4\text{H}_2\text{O}$: a mineral with unusual loop-branched *sechser* single chains. *Mineralogy and Petrology* 117(2), 191-200. doi:10.1007/s00710-022-00804-z
- (69) V.S. Dekić, B. R. Dekić, D. M. Sejmanović, S. Janićević, **B. Krüger**, V. Kahlenberg & M.V. Rodić (2023): The crystal structure of (Z)-3-(1-(2-((E)-4-isopropylbenzylidene)hydrazinyl)ethylidene)chroman-2,4-dione, $\text{C}_{21}\text{H}_{20}\text{N}_2\text{O}_3$. *Zeitschrift für Kristallographie - New Crystal Structures* 238(3), 521-524. doi:10.1515/ncrs-2023-0062
- (68) J. Francuz, S. Djokić, M. Popsavin, M. V. Rodić, V. Kojić, **B. Krüger** & V. Popsavin (2023): New Synthetic Approach to Protulactone A and Structural Analogues. *Synlett* 34, 1699-1703.
doi:10.1055/s-0042-1751400
- (67) R. Juroszek, **B. Krüger**, B. Marciniak-Maliszewska & B. Ternes (2022): Minerals of the arctite supergroup from the Bellerberg volcano xenoliths, Germany. *Mineralogical Magazine* 86(6), 929- 939.
doi:10.1180/mgm.2022.103
- (66) A. Krzątała, **B. Krüger**, I. Galuskina, Ye. Vapnik, E. Galuskin (2022): Bennesherite, $\text{Ba}_2\text{Fe}^{2+}\text{Si}_2\text{O}_7$ a new melilite group mineral from the Hatrurim Basin, Negev Desert, Israel. *American Mineralogist* 107(1), 138-146. doi:10.2138/am-2021-7747
- (65) N. Radulović, D. Sejmanović, M. Ristić, V. Dekić, **B. Krüger**, V. Kahlenberg & M. Rodić (2022): The crystal structure of 3-(1-(2-((5-methylthiophen-2-yl)methylene)hydrazinyl)ethylidene)chroman-2,4-dione, $\text{C}_{17}\text{H}_{14}\text{N}_2\text{O}_3\text{S}$. *Zeitschrift für Kristallographie - New Crystal Structures* 237(5), 775-777.
doi:10.1515/ncrs-2022-0225
- (64) M. V. Rodić, M. M. Radanović, D. V. Gazdić, V. M. Leovac, B. B. Holló, V. Raičević, S. K. Belošević, **B. Krüger**, Lj. S. Vojinović-Ješić (2022): Reactions of copper (II) bromide with 2,6-diacetylpyridine bis(phenyl-hydrazone) (L) – Molecular and crystal structure of L and its mixed-valence complex $[\text{CuIII}_2][\text{CuI}_2\text{Br}_4]$. *Journal of the Serbian Chemical Society* 87(3), 307-320.
doi:10.2298/JSC211127112R
- (63) P. Dabić, V. Kahlenberg, **B. Krüger**, M. Rodić, S. Kovač, J. Blanuša, Z. Jagličić, L. Karanović, V. Petříček & A. Kremenović (2021): Low-temperature phase transition and magnetic properties of $\text{K}_3\text{YbSi}_2\text{O}_7$. *Acta Crystallographica B* 77(4), 584-593. doi: 10.1107/S2052520621006077
- (62) **B. Krüger**, E. V. Galuskin, I. O. Galuskina, H. Krüger & Y. Vapnik (2021): Kahlenbergite $\text{KAl}_{11}\text{O}_{17}$, a new β -alumina mineral and Fe-rich hibonite from the Hatrurim Basin, Negev Desert,

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Israel. *European Journal of Mineralogy* 33(4), 341-355. doi: 10.5194/ejm-33-341-2021

- (61) E. Galuskin, I. Galuskina, **B. Krüger**, H. Krüger, Y. Vapnik, A. Krzatała, D. Środek & G. Zielinski (2021): 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. *The Canadian Mineralogist* 59(1), 191-209. doi: 10.3749/canmin.2000035
- (60) A. Krzatała, **B. Krüger**, I. Galuskina, Y. Vapnik & E. Galuskin (2020): Walstromite, $\text{BaCa}_2(\text{Si}_3\text{O}_9)$, from rankinite paralava within gehlenite hornfels of the Hatrurim Basin, Negev Desert, Israel. *Minerals* 10(5), 407, 1-21. doi: 10.3390/min10050407
- (59) R. Juroszek, **B. Krüger**, I. Galuskina, H. Krüger, Y. Vapnik & E. Galuskin (2020): Siwaqaite, $\text{Ca}_6\text{Al}_2(\text{CrO}_4)_3(\text{OH})_{12}\cdot 26\text{H}_2\text{O}$, a new mineral of the ettringite group from the pyrometamorphic Daba-Siwaqa complex, Jordan. *American Mineralogist* 105(3), 409-421. doi: 10.2138/am-2020-7208
- (58) R. Juroszek, M. Czaja, R. Lisiecki, **B. Krüger**, B. Hachuła, Irina Galuskina (2020): Spectroscopic and structural investigations of blue afwillite from Ma'ale Adummim locality, Palestinian Autonomy. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 227, 117688, 1-11. doi: 10.1016/j.saa.2019.117688
- (57) R. Juroszek, **B. Krüger**, I. Galuskina, H. Krüger, M. Tribus and Ch. Kürsten (2019): Raman spectroscopy and single-crystal high-temperature investigations of bentorite, $\text{Ca}_6\text{Cr}_2(\text{SO}_4)_3(\text{OH})_{12}\cdot 26\text{H}_2\text{O}$. *Minerals* 10, 38, 1-14. doi:10.3390/min10010038
- (56) E. V. Galuskin, **B. Krüger**, I.O. Galuskina, H. Krüger, Y. Vapnik, A. Pauluhn and V. Olieric (2019): 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. *Mineralogical Magazine* 83, 713-721. doi: 10.1180/mgm.2019.37
- (55) V. Kahlenberg, I. Galuskina, **B. Krüger**, A. Pauluhn & E. Galuskin (2019): Structural investigations on bredigite from the Hatrurim Complex. *Mineralogy and Petrology* 113(2), 261-272. doi:10.1007/s00710-018-0646-z
- (54) R. Juroszek, **B. Krüger**, K. Banasik, Y. Vapnik, I. Galuskina (2018): Raman spectroscopy and structural study of baryte-hashemite solid solution from pyrometamorphic rocks of the Hatrurim Complex, Israel. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 205, 582-592, doi: 10.1016/j.saa.2018.07.079
- (53) V. Kahlenberg, I. Galuskina, **B. Krüger**, A. Pauluhn & E. Galuskin (2018): Structural investigations on bredigite from the Hatrurim formation. *Mineralogy and Petrology*, 113, 261-272. doi: 10.1007/s00710-018-0646-z
- (52) D. Srodek, R. Juroszek, H. Krüger, **B. Krüger**, I. Galuskina & V. Gazeev (2018): New occurrence of rusinovite, $\text{Ca}_{10}(\text{Si}_2\text{O}_7)_3\text{Cl}_2$: composition, structure and Raman data of rusinovite from Shadil-Khokh volcano, south Ossetia and Bellerberg volcano, Germany. *Minerals* 8, 399-412, doi:10.3390/min8090399
- (51) **B. Krüger**, H. Krüger, E. V. Galuskin, I. O. Galuskina, Y. Vapnik, V. Olieric & A. Pauluhn (2018): Aravaite $\text{Ba}_2\text{Ca}_{18}(\text{SiO}_4)_6(\text{PO}_4)_3(\text{CO}_3)\text{F}_3\text{O}$: modular structure and disorder of a new mineral with single and triple antiperovskite layers. *Acta Crystallographica B* 74, 492-501. doi: 10.1107/S2052520618012271

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- (50) V. Kahlenberg, R. Albrecht, D. Schmidmair, H. Krüger, **B. Krüger**, M. Tribus & A. Pauluhn (2018): 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 $\text{CaO}-\text{Al}_2\text{O}_3-\text{MgO}$. *Journal of the American Ceramic Society*, 102, 2084-2093. doi: 10.1111/jace.16001
- (49) R. Juroszek, **B. Krüger**, K. Banasik, Y. Vapnik & I. Galuskina (2018): Raman spectroscopy and structural study of baryte-hashemite solid solution from pyrometamorphic rocks of the Hatrurim complex, Israel. *Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy* 205, 582-592. doi: 10.1016/j.saa.2018.07.079
- (48) R. Juroszek, H. Krüger, I. Galuskina, **B. Krüger**, L. Jezak, B. Ternes, J. Wojdyla, T. Krzykawski, L. Pautov & E. Galuskin (2018): Sharyginite, $\text{Ca}_3\text{TiFe}_2\text{O}_8$, a new mineral from the Bellerberg volcano, Germany. *Minerals* 8(7), 308, 1-24. doi: 10.3390/min8070308
- (47) E. V. Galuskin, **B. Krüger**, I. O. Galuskina, H. Krüger, Y. Vapnik, J. A. Wojdyla & M. Murashko (2018): New mineral with modular structure derived from hatrurite from the pyrometamorphic rocks of the Hatrurim Complex: ariegilatite, $\text{BaCa}_{12}(\text{SiO}_4)_4(\text{PO}_4)_2\text{F}_2\text{O}$, from Negev Desert, Israel. *Minerals* 8(3), 109. doi: 10.3390/min8030109
- (46) E. V. Galuskin, **B. Krüger**, I. O. Galuskina, H. Krüger, Y. Vapnik, A. Pauluhn & V. Olieric (2018): Stracherite, $\text{BaCa}_6(\text{SiO}_4)_2[(\text{PO}_4)(\text{CO}_3)]\text{F}$, the first CO_3 -bearing intercalated hexagonal antiperovskite from Negev Desert, Israel. *American Mineralogist*, 103, 1699-1706. doi: 10.2138/am-2018-6493
- (45) M. Hummel, M. Markiewicz, S. Stolte, M. Noisternig, D. E. Braun, T. Gelbrich, U. J. Griesser, G. Partl, B. Naier, K. Wurst, **B. Krüger**, H. Kopacka, G. Laus, H. Huppertz & H. Schottenberger (2017): Phase-out-compliant fluorosurfactants: unique methimazolium derivatives including room temperature ionic liquids. *Green Chemistry* 19(14), 3225-3237. doi: 10.1039/C7GC00571G
- (44) I.O. Galuskina, E. V. Galuskin, A. S. Pakhomova, R. Widmer, T. Armbruster, **B. Krüger**, E. S. Grew, Y. Vapnik, P. Dzierzanowski & M. Murashko (2017): Khesinite, $\text{Ca}_4\text{Mg}_2\text{Fe}^{3+}_{10}\text{O}_4[(\text{Fe}^{3+}_{10}\text{Si}_2)\text{O}_{36}]$, a new rhönite-group (sapphirine supergroup) mineral from the Negev Desert, Israel- natural analogue of the SFCA phase. *European Journal of Mineralogy* 29(1), 101-116, doi:10.1127/ejm/2017/0029-2589
- (43) E. V. Galuskin, **B. Krüger**, H. Krüger, G. Blass, R. Widmer & I. O. Galuskina (2016): Wernerkrauseite, $\text{CaFe}^{3+}\text{Mn}^{4+}\text{O}_6$ - the first nonstoichiometric post-spinel mineral, from Bellerberg volcano, Eifel, Germany. *European Journal of Mineralogy* 28(2), 485-493. doi: 10.1127/ejm/2016/0028-2509
- (42) O. Galuskina, **B. Krüger**, E. V. Galuskin, T. Armbruster, V. M. Gazeev, R. Włodyka, M. Dulski & P. Dzierzanowski (2015): Fluorchegemite, $\text{Ca}_7(\text{SiO}_4)_3\text{F}_2$, a new mineral from the edgrewite - bearing endoskarn zone of an altered xenolith in ignimbrites from Upper Chegem Caldera, Northern Caucasus, Kabardino-Balkaria, Russia: occurrence, crystal structure, and new data on the mineral assemblages. *Canadian Mineralogist* 53(2), 325-344. doi: 10.3749/canmin.1400084
- (41) E. V. Galuskin, I. O. Galuskina, F. Gfeller, **B. Krüger**, J. Kusz, Y. Vapnik, M. Dulski & P. Dzierzanowski (2015): 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. *European Journal of Mineralogy* 28(1), 105-123. doi: 10.1127/ejm/2015/0027-2494
- (40) F. Gfeller, R. Widmer, **B. Krüger**, E. V. Galuskin, I. O. Galuskina & T. Armbruster (2015): The crystal structure of flamite and its relation to Ca_2SiO_4 polymorphs and nagelschmidite. *European Journal of Mineralogy* 27(6), 755–769. doi: 10.1127/ejm/2015/0027-2476

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- (39) O. Galuskina, Y. Vapnik, **B. Lazic**, T. Armbruster, M. Murashko & E. V. Galuskin (2014): Harmunite CaFe_2O_4 – a new mineral from the Jabel Harmun, West Bank, Palestinian Autonomy, Israel. *American Mineralogist* 99(5-6), 965-975. doi: 10.2138/am.2014.4563
- (38) **B. Lazic**, T. Armbruster, C. Chopin, E. S. Grew, A. Baronnet & L. Palatinus (2014): Superspace description of wagnerite-group minerals $(\text{Mg,Fe,Mn})_2(\text{PO}_4)(\text{F,OH})$. *Acta Crystallographica B* 70(2), 243-258. doi: 10.1107/S2052520613031247
- (37) S. Pakhomova, R. M. Danisi, T. Armbruster, **B. Lazic**, F. Gfeller, S. V. Krivovichev & V. N. Yakovenchuk (2013): High-temperature induced dehydration, phase transition and exsolution in amicitite: A single-crystal X-ray study. *Microporous and Mesoporous Materials* 182, 207-219. doi:10.1016/j.micromeso.2013.08.036
- (36) R. M. Danisi, T. Armbruster, **B. Lazic**, P. Vulic, R. Kaindl, R. Dimitrijevic & V. Kahlenberg (2013): In situ dehydration behavior of veszelyite $(\text{Cu,Zn})_2\text{Zn}(\text{PO}_4)(\text{OH})_3 \cdot 2\text{H}_2\text{O}$: A single-crystal X-ray study. *American Mineralogist* 98(7), 1261–1269. doi: 10.2138/am.2013.4465
- (35) **B. Lazic**, H. Krüger, R. Kaindl, L. Perfler, A. Kremenovic, V. Cvetkovic & R. L. Withers (2013): Superstructure of mullite-type $\text{KAl}_9\text{O}_{14}$. *Chemistry of Materials* 25(3), 496-502. doi: 10.1021/cm3038476
- (34) T. Armbruster, **B. Lazic**, L. Z. Reznitsky & E. V. Sklyarov (2013): Kyzylkumite, $\text{Ti}_2\text{V}^{3+}\text{O}_5(\text{OH})$: new structure type, modularity and revised formula. *Mineralogical Magazine* 77(1), 33-44. doi:10.1180/minmag.2013.077.1.04
- (33) Kremenović, **B. Lazic**, H. Krüger, M. Tribus & P. Vulić (2013): Monoclinic structure and non-stoichiometry of ‘ $\text{KAlSiO}_4\text{-O1}$ ’. *Acta Crystallographica C* 69(4), 334-336. doi: 10.1107/S0108270113006069
- (32) V. V. Sharygin, **B. Lazic**, T. M. Armbruster, M. N. Murashko, R. Wirth, I. O. Galuskina, E. V. Galuskin, Y. Vapnik, S. N. Britvin & A. M. Logvinova (2013): Shulamitite $\text{Ca}_3\text{TiFe}^{3+}\text{AlO}_8$ - a new perovskite-related mineral from Hatrurim Basin, Israel. *European Journal of Mineralogy* 25(1), 97-111. doi: 10.1127/0935-1221/2013/0025-2259
- (31) F. Gfeller, T. Armbruster, E. V. Galuskin, I. O. Galuskina, **B. Lazic**, V. B. Savelyeva, A. E. Zadov, P. Dzierżanowski & V. M. Gazeev (2013): Crystal chemistry and hydrogen bonding of rustumite $\text{Ca}_{10}(\text{Si}_2\text{O}_7)_2(\text{SiO}_4)(\text{OH})_2\text{Cl}_2$ with variable OH, Cl, F. *American Mineralogist* 98(2-3), 493-500. doi: 10.2138/am.2013.4257
- (30) R. M. Danisi, T. Armbruster & **B. Lazic** (2013): In situ dehydration behavior of zeolite-like pentagonite: A single-crystal X-ray study. *Journal of Solid State Chemistry* 197, 508-516. doi:10.1016/j.jssc.2012.09.002
- (29) T. Armbruster, **B. Lazic**, I. O. Galuskina, E. V. Galuskin, E. Gnos, K. M. Marzec & V. M. Gazeev (2012): Trabzonite, $\text{Ca}_4[\text{Si}_3\text{O}_9(\text{OH})]\text{OH}$: crystal structure, revised formula, new occurrence and relation to killalaite. *Mineralogical Magazine* 76(3), 455-472. doi: 10.1180/minmag.2012.076.3.02
- (28) J. Majzlan, **B. Lazic**, T. Armbruster, M. B. Johnson, M. A. White, R. A. Fisher, J. Plasil, J. Loun, R. Skodan & M. Novak (2012): Crystal structure, thermodynamic properties, and paragenesis of bukovskyite, $\text{Fe}_2(\text{AsO}_4)(\text{SO}_4)(\text{OH}) \cdot 9\text{H}_2\text{O}$. *Journal of Mineralogical and Petrological Sciences* 107(3), 133-148. doi: 10.2465/jmps.110930

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- (27) T. Shimura, J. Akai, **B. Lazic**, T. Armbruster, M. Shimizu, A. Kamel, K. Tsukada, M. Owada & M. Yuhara (2012): Magnesiöhögbomite-2N4S: A new polysome from the central Sør Rondane Mountains, East Antarctica. *American Mineralogist* 97(2-3), 268-280, doi:10.2138/am.2012.3827
- (26) E. V. Galuskin, F. Gfeller, V. B. Savelyeva, T. Armbruster, **B. Lazic**, I. O. Galuskina, D. M. Töbrens, A. E. Zadov, P. Dzierżanowski, N. N. Pertsev & V. M. Gazeev (2012): Pavlovskyite $\text{Ca}_8(\text{SiO}_4)_2(\text{Si}_3\text{O}_{10})$: 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. *American Mineralogist* 97(4), 503-512, doi: 10.2138/am.2012.3970
- (25) **B. Lazic**, T. Armbruster, B. W. Liebich & L. Perfler (2012): Hydrogen-bond system and dehydration behavior of the natural zeolite parthéite. *American Mineralogist* 97(11-12), 1866–1873. doi:10.2138/am.2012.4197
- (24) R. Danisi, T. Armbruster & **B. Lazic** (2012): In situ dehydration behavior of zeolite-like cavansite: A single-crystal X-ray study. *American Mineralogist* 97(11-12), 1874-1880. doi: 10.2138/am.2012.4228
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- (22) **B. Lazic**, T. Armbruster, V. B. Savelyeva, A. E. Zadov, N. N. Pertsev & P. Dzierżanowski (2011): Galuskinite, $\text{Ca}_7(\text{SiO}_4)_3(\text{CO}_3)$, a new skarn mineral from the Birkhin massif, Eastern Siberia, Russia', *Mineralogical Magazine* 75(5), 2631-2648. doi: 10.1180/minmag.2011.075.5.2631
- (21) T. Armbruster, **B. Lazic**, F. Gfeller, E. V. Galuskin, I. O. Galuskina, V. B. Savelyeva, A. E. Zadov, N. N. Pertsev & P. Dzierżanowski (2011): Chlorine content and crystal chemistry of dellaite from the Birkhin gabbro massif, Eastern Siberia, Russia. *Mineralogical Magazine* 75(2), 379-394. doi:10.1180/minmag.2011.075.2.379
- (20) E. V. Galuskin, I. O. Galuskina, **B. Lazic**, T. Armbruster, A. E. Zadov, T. Krzykowski, K. Banasik, V. M. Gazeev & N. N. Persev (2011): Rusinovite, $\text{Ca}_{10}(\text{Si}_2\text{O}_7)_3\text{Cl}_2$: a new skarn mineral from the Upper Chegem caldera, Kabardino-Balkaria, Northern Caucasus, Russia. *European Journal of Mineralogy* 23(5), 837-844, doi: 10.1127/0935-1221/2011/0023-2160
- (19) E. V. Galuskin, T. Armbruster, I. O. Galuskina, **B. Lazic**, A. Winiarski, V. M. Gazeev, P. Dzierżanowski, A. E. Zadov, N. N. Pertsev, R. Wrzalik, A. G. Gurbanov & J. Janeczek (2011): Vorlanite ($\text{CaU}^{6+}\text{O}_4$) – A new mineral from the Upper Chegem caldera, Kabardino-Balkaria, Northern Caucasus, Russia. *American Mineralogist* 96(1), 188–196. doi: 10.2138/am.2011.3610
- (18) C. A. Geiger, E. Alekseev, **B. Lazic**, M. Fisch, T. Armbruster, R. Langner, M. Fechtelkord, N. Kim, T. Pettke & W. Weppner (2011): Crystal chemistry and stability of $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ garnet: a fast lithium-ion conductor. *Inorganic Chemistry* 50(3), 1089-1097. doi: 10.1021/ic101914e
- (17) E. S. W. Grew, T. Armbruster, **B. Lazic**, M. G. Yates, O. Medenbach & J. P. Huisjsmans (2011): Werdingite from a pegmatite at Almgjotheii, Rogaland, Norway: The role of iron in a borosilicate with a mullite-type structure. *European Journal of Mineralogy* 23(4), 577-589. doi: 10.1127/0935-1221/2011/0023-2121

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