

LIST of PUBLICATIONS

1. PhD Thesis "Crystal Chemistry and Phase Equilibria of Rubidium Borates" (1999) 188 pages (in Russian)
2. Annotation of the PhD Thesis. Published St. Petersburg State University (1999) 22 pages (in Russian).

Articles

3. Krzhizhanovskaya M.G., Bubnova R.S., Bannova I.I., Filatov S.K. Crystal structure of $\text{Rb}_2\text{B}_4\text{O}_7$ // *Kristallographia* **42** (1997) (2) 264-269
4. Bubnova R.S., Krzhizhanovskaya M.G., Filatov S.K. Topological identity of the frameworks of the crystalline and amorphous RbB_3O_5 phases // Proceed. National Conf. On Application of X-ray, Electron, Neutron and Synchrotron radiation diffraction, Moscow, Russia. (1997) 112-117
5. Bubnova R.S., Polyakova I.G., Filatov S.K., Krzhizhanovskaya M.G., Crystal structure and thermal behavior of rubidium borates // Proceed. 2nd Intern. Conference on Borate Glasses, Crystals and Melts. Eds. A.C. Wright, S.A. Feller, A.C. Hannon. Alden Press, Oxford, UK. (1997) 120-127
6. Krzhizhanovskaya M.G., Bubnova R.S., Fundamensky V.S., Bannova I.I., Polyakova I.G., Filatov S.K. Crystal structure and thermal expansion of high-temperature β - RbB_3O_5 modification // *Kristallographia* **43** (1998) (1) 26-30
7. Bubnova R.S., Krzhizhanovskaya M.G., Polyakova I.G., Trofimov V.B., Filatov S.K. Polymorphism and thermal expansion of RbB_3O_5 // *Neorganicheskie Materiali* **34** (1998) (11) 1328-1334 (in Russian) 1119-1123 (in English)
8. Krzhizhanovskaya M.G., Bubnova R.S., Bannova I.I., Filatov S.K. Crystal structure and thermal expansion of $\text{Rb}_5\text{B}_{19}\text{O}_{31}$ // *Kristallographia* **44** (1999) (2) 187-192
9. Krzhizhanovskaya M.G., Sennova N.A., Bubnova R.S., Filatov S.K. Thermal behavior of mineral series Borax-Tincalconite-Kernite // *Proc. Russ. Min. Soc.* (1999) (1) 115-122
10. Krzhizhanovskaya M.G., Bubnova R.S., Filatov S.K., Belger A., Paufler P. Crystal structure and thermal expansion of β - RbB_5O_8 from powder diffraction data // *Z. Kristallogr.* **215** (2000) 740-743
11. Bubnova R.S., Polyakova I.G., Krzhizhanovskaya M.G., Filatov S.K., Paufler P., Meyer D.C. Structure-density relationship for crystals and glasses in the Rb_2O - B_2O_3 - SiO_2 system // *Phys. Chem. Glass.* **41** (2000) (6) 389-391
12. Krzhizhanovskaya M.G., Kabalov Yu.K., Sokolova E.N., Bubnova R.S., Filatov S.K. Crystal structure of α - RbB_3O_5 from powder diffraction data // *Kristallografiya* **45** (4) (2000) 629-634 (in Russian) 572-577 (in English).
13. Bubnova R.S., Polyakova I.G., Krzhizhanovskaya M.G., Filatov S.K., Paufler P., Meyer D.C. Structure-density relationship for crystals and glasses in the Rb_2O - B_2O_3 - SiO_2 system // *Proceed. III Intern. Borate Conference*. Eds. Y. B. Dimitriev and A. C. Wright UK, Sheffield (2001) 219-221
14. Bubnova R.S., Krivovichev S.V., Shakhverdova I.P., Burns P.C., Krzhizhanovskaya M.G., Polyakova I.G. Synthesis, Crystal Structure and Thermal Behavior of $\text{Rb}_3\text{B}_7\text{O}_{12}$, a New Compound // *Solid State Sci.* **4** (2002) 985-992
15. Krzhizhanovskaya M.G., Bubnova R.S., Filatov S.K., D.C. Meyer, P. Paufler Crystal structure transformation in Rb-boroleucite solid solutions from powder diffraction data // *Glass Physics and Chemistry* **29** (2003) (6) 827-838 (in Russian); **29** (2003) (6) 599-608 (in English)
16. Filatov S.K., Krzhizhanovskaya M.G. XV International Conference on X-ray Diffraction and Crystal Chemistry of Minerals (Chronicle) // *Proc. Russ. Min. Soc.* **133** (2004) 111-114 (in Russian)
17. Bubnova R.S., Krzhizhanovskaya M.G., Polyakova I.G., Filatov S.K. In situ high-temperature X-ray diffraction study of the Rb_2O - B_2O_3 glass forming system // *Cryst. Res. Tech.* **40** (2005) 73-82
18. Anderson J.E., Bubnova R.S., Filatov S.K., Polyakova I.G., Krzhizhanovskaya M.G. Thermal Behaviour of Larderellite, $\text{NH}_4[\text{B}_5\text{O}_7(\text{OH})_2]\cdot\text{H}_2\text{O}$ // *Proc. Russ. Min. Soc.* **134** (2005) 102-112 (in Russian)
19. Krzhizhanovskaya M., Filatov S., Gusarov V., Paufler P., Bubnova R., Morozov M., Meyer D., Aurivillius Phases in the $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ - BiFeO_3 System: Thermal Behavior and Crystal Structure // *Z. Anorg. Allg. Chem.* **631** (2005) 1603-1608
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21. Krzhizhanovskaya M.G., Bubnova R.S., Filatov S.K., D.C. Meyer, P. Paufler Crystal Structure and Thermal Behaviour of $(\text{Rb,Cs})\text{BSi}_2\text{O}_6$ Solid Solutions from X-ray Powder Diffraction Data // *Cryst. Res. Tech.* **41** (3) (2006) 285-292.
22. Krzhizhanovskaya M.G., Solotchina E.P., Urusov V.S., Filatov S.K. Chronicle of Altai Outdoor Session of the Commission on Crystal Chemistry and X-ray Diffraction of Minerals Rus. Min. Soc. // *Proc. Russ. Min.*

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23. R. Bubnova, B. Albert, M. Georgievskaya, M. Krzhizhanovskaya, K. Hofmann, S. Filatov X-ray powder diffraction studies and thermal behaviour of $\text{NaK}_2\text{B}_9\text{O}_{15}$, $\text{Na}(\text{Na}_{.17}\text{K}_{.83})_2\text{B}_9\text{O}_{15}$, and $(\text{Na}_{.80}\text{K}_{.20})\text{K}_2\text{B}_9\text{O}_{15}$ // *J. Solid State Chem.* **179** (2006) 2954-2963.
24. Bubnova R.S., Krzhizhanovskaya M.G., Filatov S.K., Ugolkov V.L., Paufler P. XRD and DSC study of the formation and the melting of a new zeolite like borosilicate $\text{CsBSi}_5\text{O}_{12}$ and $(\text{Cs,Rb})\text{BSi}_5\text{O}_{12}$ solid solutions // *Z. Kristallogr.* (2007) (in press).
25. Krzhizhanovskaya M.G., Bubnova R.S., Ugolkov V.L., Filatov S.K. Thermal expansion and polymorphism of Rb-Cs booleucites from XRD and dilatometry data // *Glass Physics and Chemistry* **33** (2007) (2) in Russian (in press).

Database Contributions

PDF-2 data file of ICDD: # 54-240 # 54-1044 I

Inorganic Crystal Structure Database (ICSD): # 85093 # 87519 # 88892 # 91545 # 92570 # 412539