

เอกสารอ้างอิง

1. Mateescu, I., Zelenka, J. and Serbanescu, A., Contribution to the Design of the Wave Filters Composed from the Elastically Coupled Two Resonators Structure, *EFTF-IEEE*. 1996:132-137.
2. Detaint, J., Zarka, A. Capelle, B. Palmier, D. and Philippot, E., Optimisation of the Design of the Resonators using the New Materials: Application to Gallium Phosphate and Langasite, *IEEE Int. Freq. Contr. Symp.* 1997: 566-578.
3. Fukuda, T., Takeda, H., Shimamura, K., Kawanaka, H., Kumatoriya, M., Murakami, S., Sato, I. And Sato, M., Growth of New Langasite Single Crystals for Piezoelectric Applications, *IEEE* . 1998: 315-319.
4. Dubovik, M. F., Andreyev, I. A. and Shmaly, Yu.S., Langasite ($\text{La}_3\text{Ga}_5\text{SiO}_{14}$) an Optical Piezoelectric: Growth and Properties, *IEEE Int. Freq. Contr. Symp.* 1994: 43-47.
5. Sakharov, S. A., Pisarevsky, Yu., Medvedev, A. V., Senushencov, P. A. and Lider, V., Surface and Volume Defects in Langasite Crystals, *IEEE Int. Freq. Contr. Symp.* 1995: 642-646.
6. Sato, M., Moroishi, K. and Ishigami, S., Filter and Resonator using Langasite, *IEEE Int. Freq. Contr. Symp.* 1996: 379-383.
7. Sakharov, S. A., Buzanov, O. A. and Medvedev, A. V., The Analysis of Non-homogeneity of Saw Velocity in Langasite, *IEEE Int. Freq. Contr. Symp., and PAD Exhibition* . 2001: 244-249.
8. Naumenko, N. and Solie, L., Optimal Cuts of Langasite, ($\text{La}_3\text{Ga}_5\text{SiO}_{14}$) for SAW Devices, *IEEE Trans. on Ultra. Ferro. and Freq. Contr.* 2001; 48: 530-537.
9. Grouzinenko, V. B. and Bezdelkin, V. V., Piezoelectric Resonator Based on Single Crystal of Strong Piezoelectrics, *IEEE Int. Freq. Contr. Symp.* 43th. 1991:212-216.
10. Chai, B. H. T., Bustamante, A.N.P. and Chou, M. C., A New Class of Ordered Langasite Structure Compounds, *IEEE Int. Freq. Contr. Symp.* 2000:163-168.

11. Mill, B. V., Pisarevsky, Yu. V. and Belokoneva, E. L., Synthesis, Growth and some Properties of Single Crystals with the $\text{Ca}_3\text{Ga}_2\text{Ge}_4\text{O}_{14}$ Structure, *EFTF-IEEE IFCS*. 1999: 829-834.
12. Mill, B. V., Langasite-Type Materials: From Discovery to Present State, *IEEE/EIA Int. Freq. Contr. Symp. and Exhibiton*. 2000:133-143.
13. Sakharov, S., Senushencov, P., Medvedev, A. and Pisarevsky, Yu., New Data on Temperature Stability and Acoustical Losses of Langasite Crystals, *IEEE Int. Freq. Contr. Symp.* 1995:647-652.
14. Solokin, B. P., Turchin, P. P., Burkov, S. I., Influence of the Static Electric Field, Mechanical Pressure and Temperature on the Propagation of Acoustic Waves in $\text{La}_3\text{Ga}_5\text{SiO}_{14}$ Piezoelectric Single Crystals, *IEEE Int. Freq. Contr. Symp.* 1996:161-169.
15. Kosinski, J. A. and Pastore, R. A., A Review of Langasite Material Constants From BAW and SAW Data : Toward an Improved Data Set, *IEEE Int. Freq. Contr. Symp. and PDA Exhibiton*, 2001:278-286.
16. Gotalskaya, A. N., Drezin, D. I., Bezdelkin, V. V. and Stassevich, V. N., Peculiarities of Technology, Physical Properties and Applications of New Piezoelectric Material Langasite ($\text{La}_3\text{Ga}_5\text{SiO}_{14}$) , *IEEE Int. Freq. Contr. Symp.* 1993:339-347.
17. Buchanan, R. C., Ceramic Materials for Electronics, Marcel Dekker, 1991.
18. Somiya, S., Ceramics, *Ency. of Phys. Sci. and Tech. 2edi.*, 1992;3:45-82.
19. Moulson, A. J. and Herbert, J. M., Electroceramics, Chapman & Hall, 1990.
20. Sakharov, S.A., Larionov, I.M. and Medvedev, A.V., Application of Langasite Crystals in Monolithic Filters Operating in Shear Modes, *IEEE Int. Freq. Contr. Symp.* 1992;713-723.
21. Dubovik, M.F., Korshikova, T.L. and Proskurnya, O.M., Investigation of Phase Forming at Synthesis of Langasite-Piezoelectric, *EFTF-IEEE IFCS*. 1999:839-842.
22. Dorogovin, B.A., Stepanov, S. Yu., Doubovski, A.B. and Tsegileev, A.A., Growing the Large Lanthanum Gallium Silicate Single Crystals by Czochralski Method, *IEEE/EIA Int. Freq. Contr. Symp. and Exhib.* 2000 :169-173.
23. Buzanov, O.A., Naumov, A.V., Nechaev, V.V. and Knyazev, S.N., A New Approach to the Growth of Langasite Crystals, *IEEE Int. Freq. Contr. Symp.* 1996:131-136.

24. Gotalskaja, A.N., Dresin, D.I. and Schegolkova, S.N., Langasite Crystal Quality Improvement Aimed at High-Q Resonators Fabrication, *IEEE Int. Freq. Contr. Symp.*1995:657-666.
25. Dorogovin, B.A., Stepanov, S. Yu., Semenkovich, G.V. and Doubovski, A.B., Homogeneity of Elastic Properties of Lanthanum Gallium Silicate Crystals, *IEEE Int. Freq. Contr. Symp.and Exhib.* 2000:195-199.
26. Chai, B., Lefaucheur, J.L., Ji,Y.Y. and Qiu, H., Growth and Evaluation of Large Size LGS($\text{La}_3\text{Ga}_5\text{SiO}_{14}$), LGN($\text{La}_3\text{Ga}_{5.5}\text{Nb}_{0.5}\text{O}_{14}$)&LGT($\text{La}_3\text{Ga}_{5.5}\text{Ta}_{0.5}\text{O}_{14}$) Single Crystals *IEEE Int. Freq. Contr. Symp.*1998:748-760.
27. Chai, B.; Qiu, H.,Ji, Y. Y. and Lefaucheur,J. L., Growth of High Quality Single Domain Crystals of Langasite Family Compounds, *EFTF-IEEE IFC.* 1999: 821-828.
28. Gualtieri, J. G., Kosinski, J. A. and Ballato, A., Piezoelectric Materials for Acoustic Wave Applications, *IEEE Trans. Ultra. Ferro. & Freq. Symp.*1994;41: 53-59.
29. Naumov, V. S., Kalashnikova, I. I. And Aleshko, O.P., The Investigation of the Real Structure and Mechanical Stresses in Berlinite and Langasite Crystals, *IEEE Int. Freq. Contr. Symp.*, 1996:122-125.
30. Kosinski, J. A. and Bigler, E., An Analysis of Best Material Constants Based on BAW and SAW Data, *IEEE Int. Ultra. Symp.*2000:529-532.
31. Laffey, S., Hendrickson, M. and Vig, J. R., Polishing and Etching Langasite and Quartz Crystals, *IEEE Int. Freq. Contr. Symp.*1994:245-250.
32. Lide, D. R.,CRC Handbook of Chemistry and Physics 77th,CRC Press 1996
33. Lide, D. R.,CRC Handbook of Chemistry and Physics 72th,CRC Press 1991
34. Kingery, W. D., Bowen, H. K. and Uhlmann, D. R., Introduction to Ceramics, John Wiley & Sons, 1960.
35. Richerson, D. W., Modern Ceramic Engineering, Marcel Dekker, 1992.
36. Reed, J. S., Principle of Ceramics Processing, John Wiley & Sons, 1995.
37. Onoda, G. Y.,Hench, L. L. ceramic Processing Before Firing, John Wiley & Sons, 1978
38. Murray, G.T.,Introduction to Engineering Materials, Marcel Dekker, 1993
39. Lloyd, P. J., *Ency. of Phys. Sci. and Tech.*,1992;12:271-276.
40. Moya, J. S.,Baudin, C. and Miranzo, P., *Ency. of Phys. Sci. and Tech* ,1992;15:263-277.

41. Standard Test Method for Water Absorption, Bulk Density, Apparent Porosity, and Apparent Specific Gravity of Fired Whiteware Products, ASTM Standard C373-88, 1993; 15.02 :115-116.
42. Standard Test Method for Density of Glass by Buoyancy, ASTM Standard C693-84, 1993; 15.02 :222-223.
43. Standard Test Methods for D-C Resistance of Conductance of Insulation Materials, ASTM Standard D 257-92, 1993; 10.01 :107-123.
44. Standard Test Methods for A-C Characteristics and Permittivity (Dielectric Constant) of Solid Electrical Insulation Materials, ASTM Standard D150-92, 1993; 10.01 :30-47.
45. Standard Test Methods for Determining Average Grain Size, ASTM Standard E112-88, 1993; 3.01:297-322.
46. Standard Test Methods for Characterizing Duplex Grain Sizes, ASTM E1181-87, 1993; 3.01 :867-880.
47. Operation and Service Manual of 4276A LCZ Meter (p:3-23)., Hewlett Packard
48. Rosario A. Gerhardt and Wanqing Cao, Distinguishing bulk water from adsorbed water via dielectric measurements, *IEEE Elec. Ins. and Dielec. Conf.* 1996:102-105.
49. Capaccioli, S., Lucchesi, M., Casalini, R. and Rolla, P.A., Effect of Water Inclusions on Charge Transport and Polarization in Porous Media, *IEEE Trans. on Dielec. and Elec. Ins.*, 2001; 8[3]: 454-460.
50. Gomez Alvarez-Arenas, T.E., Gonzalez, A.M., J. De Frutos ., Piezoelectric Characterisation of Porous piezoceramics, *IEEE Ultra. Symp.* 1996: 519-522.
51. Cho, K.H. and Lee, H.Y., Pore-Dependent Dielectric and Electrical Properties of Barium Titanate Ceramic, *IEEE*, 1995: 566-571.
52. Jonscher, A.K., Limiting Losses in Dielectrics, *IEEE Trans. on Dielec. and Elec. Ins.*, 2001; 8[3]: 345-351.