

List of publications of Natalia Andreeva, researcher at the FerroLab, Ioffe Institute

1. Andreeva N.V., M. Tyunina, A. V. Filimonov, A. I. Rudskoy, N. A. Pertsev, and S. B. Vakhrushev. Low-temperature evolution of local polarization properties of PbZr_{0.65}Ti_{0.35}O₃ thin films probed by piezoresponse force microscopy. *Applied Physics Letters* 104, 112905 (2014); doi: 10.1063/1.4869147
2. Lukianov S.O. Surface polar nanoregions structure of potassium tantalate doped with lithium obtained at cryogenic temperatures using piezoresponse force microscopy technique [Text] / Andreeva N.V., Vakhrushev S.B., Filimonov A.V., Wurz M.C., Rissing L // *St. Petersburg State Polytechnical Journal*. - 2013. - №4-2 (182) - P. 84-89.
3. Andreeva, N.V. Controlled microcones formation on high refractory metals under multipulsed laser irradiation. / N.V. Andreeva, Yu.I. Pestov, V.S. Makin, V.E. Privalov, A.E. Fotiadi. // *St. Petersburg State Polytechnical Journal*. – 2013 - Vol. 1. - P. 29 – 38.
4. Andreeva, N.V. Using atomic-force microscopy techniques for an analysis of ferroelectric and magnetic properties of bismuth-doped terbium manganite at low temperatures. / N.V. Andreeva, V.A. Sanina, S.B. Vakhrushev, A.V. Filimonov, A.E. Fotiadi. // *St. Petersburg State Polytechnical Journal*. – 2013 - Vol. 2. - P. 137 – 144.
5. Andreeva, N.V. Physics and Diagnostics of biomolecular systems. Investigations by scanning probe microscopy techniques. / N.V. Andreeva, P.G. Gabdullin. - St. Petersburg. St. Petersburg University Publishing House. - 2012. - 171 pp.
6. Andreeva, N.V. Low-temperature surface piezoelectricity in strontium titanate ceramics via piezoresponse force microscopy. / N.V. Andreeva, S.A. Plyastsov and A.V. Filimonov. // *St. Petersburg State Polytechnical Journal*. – 2012 - Vol. 1. - P. 7 – 13.
7. Andreeva, N., Bassi, D., Cappa, F., Cocconcelli, P.S., Parmigiani, F., Ferrini, G. Nanomechanical analysis of *Clostridium tyrobutyricum* spores. (2010) *Micron* 41 (8) PP. 945 – 952. doi: 10.1016/j.micron.2010.07.006
8. Andreeva, N., Ferrini, G., Bassi, D., Cappa, F., Cocconcelli, P.S., Prato, S., Troian, B., Parmigiani, F. Preliminary results of combined scanning near-field optical microscopy and atomic force microscopy applied to a model biological system: *Clostridium tyrobutyricum* spores. (2009) *Bollettino di Geofisica Teorica ed Applicata* 50 (4) PP. 369 – 377.
9. Andreeva, N.V., Kruzhalov, S.V. A new method of calculating the efficiency of nonlinear frequency conversion of laser radiation with focused beams. (2006) *Journal of Optical Technology (A Translation of Opticheskii Zhurnal)* 73 (8) PP. 542 - 543
10. Andreeva, N.V., Kruzhalov, S.V., Mokrushin, Yu.M. Modeling the process of nonlinear frequency conversion by focused beams. (2007) *Proceedings of SPIE - The International Society for Optical Engineering* 6594. doi: 10.1117/12.725577