



PEER-REVIEW PUBLICATIONS

- BOOKS                    Abutin, M.B., A.S. Chirtsov, I.M. Grigoriev, K.P. Kolinko, D.J. Nicolsky, *Physics: model experiment reality. V.1: Gravity, development of views from Newton to Einstein*, St. Petersburg State University Press, 2001, F50, BBK 22.3 721, ISBN 5-288-02895-8, 450p. (in Russian).
- ARTICLES IN REFERRED JOURNALS                    Grigoriev I.M., A.S. Chirtsov, K.P. Kolinko and D.J. Nicolsky, *Information technologies in physics education. Usage of network technologies*, Computer instruments in education, Saint-Petersburg, (6), 23-27, November-December, 1999 (in Russian).
- Nicolsky, D.J. and A.S. Chirtsov, *Virtual physical reality: computer simulations in the high school course of mechanics.*, Computer instruments in education, Saint-Petersburg, (6), 42-47, November-December, 2000 (in Russian).
- Nicolsky, D.J., V.E. Romanovsky, V.A. Alexeev, and D.M. Lawrence *Improved modeling of permafrost dynamics in a GCM land-surface scheme*, Geophysical Research Letters, 34(8): L08501, 2007
- Alexeev, V.A., D.J. Nicolsky, V.E. Romanovsky, D.M. Lawrence *An evaluation of deep soil configurations in the CLM3 for improved representation of permafrost*, Geophysical Research Letters, 34(9): L09502, 2007
- PAPERS IN REVIEW                    Nicolsky, D.J., V.E. Romanovsky, G.S. Tipenko and D.A. Walker, *Modeling biogeophysical interactions in non-sorted circles in the Low Arctic*, in review, Journal of Geophysical Research - Biogeoscience
- Nicolsky, D.J., V.E. Romanovsky and G.S. Tipenko *Using in-situ temperature measurements to estimate saturated soil thermal properties by solving a sequence of optimization problems*, accepted, The Cryosphere
- D.M. Lawrence, A.G. Slater, V.E. Romanovsky and D.J. Nicolsky *The sensitivity of a model projection of near-surface permafrost degradation to soil column depth and representation of soil organic matter*, in review, Journal of Geophysical Research - Earth Surface.
- S.A. Avdonin, A.S. Bulanova and D.J. Nicolsky *Boundary Control approach to the spectral estimation problem. The case of simple poles*, in review, Journal of Sampling Theory in Signal and Image Processing.
- WORKING PAPERS                    Nicolsky, D.J., V.E. Romanovsky and G.G. Pantelev *Assimilation of in-situ temperature data to estimate thermal properties of active layer and permafrost*, prepared for publication in Cold Regions Science and Technology Journal
- Nicolsky, D.J. and G.S. Tipenko, *Principal component analysis approach to the harmonic retrieval problem* (preparing for publication).
- RECENT COLLABORATORS                    D.M. Lawrence, M. Rawlins, S.M. Marchenko, G.S. Tipenko, G. Pantelev.