

Ведущая организация:

Федеральное государственное автономное образовательное учреждение высшего образования «Национальный исследовательский ядерный университет «МИФИ»

Адрес: 115409, Москва, Каширское шоссе 31

Тел: +7 (495) 788-56-99. факс: (499) 324-21-11

Электронная почта: rector@mephi.ru

<https://mephi.ru>

Список основных научных работ сотрудников НИЯУ «МИФИ»

1. P. P. Parshin, A. I. Chumakov, P. A. Alekseev, K. S. Nemkovski, J. Perßon, L. Dubrovinsky, A. Kantor, and R. Ruffer (2016) Experimental observation of phonons as spectators in FeSi electronic gap formation. *Physical Review B* 93, 081102(R) (2016) doi: 10.1103/PhysRevB.93.081102
2. A. A. Yaroslavtsev, M. Izquierdo, R. Carley, M. E. Davila, A. A. Unal, F. Kronast, A. Lichtenstein, A. Scherz, and S. L. Molodtsov (2016) Insight into the spin state at the surface of LaCoO₃ revealed by photoemission electron microscopy. *Physical Review B* 93, 155137 (2016) doi: 10.1103/PhysRevB.93.155137
3. Anna Chernikova, Maksim Kozodaev, Andrei Markeev, Dmitrii Negrov, Maksim Spiridonov, Sergei Zarubin, Ohheum Bak, Pratyush Buragohain, Haidong Lu, Elena Suvorova, Alexei Gruverman, and Andrei Zenkevich. Ultrathin Hf_{0.5}Zr_{0.5}O Ferroelectric Films on Si, *ACS Applied Materials & Interfaces* 8(11) 7232-7237 (2016) doi: 10.1021/acsami.5b11653
4. S Düstere, G Hartmann, F Babies, A Beckmann, G Brenner, J Buck, J Costello, L Dammann, A De Fanis, P Geßler, L Glaser, M Ilchen, P Johnsson, A K Kazansky, T J Kelly, T Mazza, M Meyer, V L Nosik, I P Sazhina, F Scholz, J Seltmann, H Sotoudi, J Viefhaus and N M Kabachnik (2016) Angle resolved photoelectron spectroscopy of two-color XUV–NIR ionization with polarization control. *Journal of Physics B: Atomic, Molecular and Optical Physics* 49(16) 165003 doi: 10.1088/0953-4075/49/16/165003
5. E.I. Lyashko, A.I. Maimistov (2016) Guided waves in asymmetric hyperbolic slab waveguides. The TM mode case. *Journal of Optical Society of America B* 33(11), 2320-2330 doi: 10.1364/JOSAB.33.002320
6. V.S. Vysotsky, D.S. Kaverin, L.V. Potanina; K.A. Shutov; I.F. Chensky, S.S. Fetisov; M.V. Kochetov, A.V. Taran, V.I. Tronza, S.A. Lelekhov; V.M. Patrikeev (2016) Review of Scientific Results Obtained During Production of ITER TF and PF Conductors in Russia, *IEEE Transactions on Applied Superconductivity*. 26(4) 6000507 doi: 10.1109/TASC.2015.2512707
7. S.S Fetisov, V.V. Zubko, S.Y. Zanegin, A.A. Nosov, V.S. Vysotsky, A. Kario, A. Kling, W. Goldacker, A. Molodyk, A. Mankevich, V. Kalitka, A. Adamenkov, S. Samoilenkov, D. Melyukov. (2016) Development and characterization of a 2G HTS roebel cable for aircraft power systems. *IEEE Transactions on Applied Superconductivity* 26(3) 7445854 doi: 10.1109/TASC.2016.2549036
8. M Osipov, D Abin, S Pokrovskii, I Rudnev (2016) Investigation of HTS Tape Stacks for Levitation Applications. *IEEE Transactions on Applied Superconductivity* 26(4)3601704 doi: 10.1109/TASC.2016.2541610
9. L. A. Openov and A. I. Podlivaev (2016) On Graphene Melting. *Physics of the Solid State* 58(4) 847–852 doi: 10.1134/S1063783416040168

10. G. D. Teterina, V. N. Nevolin, I. P. Sipaylo, S. S. Medvedeva, and P. E. Teterin, (2016) Optical and Structural Properties of $\text{Cu}_2\text{ZnSnS}_4$ Thin Films Obtained by Pulsed Laser Deposition in a H_2S Atmosphere with Subsequent Annealing in a N_2 Atmosphere. *Semiconductors* 50(4) 549–554 doi: 10.1134/S1063782616040229
11. V. Yu. Fominski, S. N. Grigoriev, R. I. Romanov, M. A. Volosova, A. I. Grunin, and G. D. Teterina (2016) The formation of a hybrid structure from tungsten selenide and oxide plates for a hydrogen-evolution electrocatalyst. *Technical Physics Letters* 42(6) 555–558 doi: 10.1134/S1063785016060055
12. O. B. Mavritskii, A. I. Chumakov, A. N. Egorov, A. A. Pechenkin, and A. Yu. Nikiforov (2016) Laser Equipment for Hardness Evaluation of Semiconductor Elements Exposed to Heavy Charged Particles (Review) *Instruments and Experimental Techniques* 59(5) 627–649. doi: 10.1134/S0020441216050122
13. N. V. Bykov and A. I. Maimistov (2016) Diffraction of Electromagnetic Radiation near an Interface between Discrete Positive and Negative Refractive Media. *Bulletin of the Russian Academy of Sciences. Physics* 80(7) 770–773 doi: 10.3103/S106287381607008X
14. A.S. Vereschaka, A.A. Vereschaka, D.V. Sladkov, A. Yu. Aksenenko and N.N. Sitnikov (2016) Control of structure and properties of nanostructured multilayer composite coatings applied to cutting tools as a way to improve efficiency of technological cutting operations. *Journal of Nano Research* 37, 51-57 doi: 10.4028/www.scientific.net/JNanoR.37.51
15. A.S. Vereschaka, A.A. Vereschaka, D.V. Sladkov, A. Yu. Aksenenko and N.N. Sitnikov (2016) Control of structure and properties of nanostructured multilayer composite coatings applied to cutting tools as a way to improve efficiency of technological cutting operations. *Journal of Nano Research* 37, 51-57 doi: 10.4028/www.scientific.net/JNanoR.37.51
16. A I Maimistov and I R Gabitov (2016) Optical flat bands in 2D waveguide arrays with alternating sign of refraction index. *Journal of Physics: Conference Series* 714, 012013 doi: 10.1088/1742-6596/714/1/012013
17. E V Kazantseva, A I Maimistov (2016) Solitary wave generation from continuum in asymmetric oppositely directed nonlinear waveguide coupler. *Journal of Physics: Conference Series* 737(1) 012004 doi: 10.1088/1742-6596/737/1/012004
18. S.N. Grigoriev, V.Yu. Fominski, R.I. Romanov, M.A. Volosova, A.V. Shelyakov, Pulsed laser deposition of nanocomposite MoSe_x/Mo thin-film catalysts for hydrogen evolution reaction. *Thin Solid Films* 592 (2015) 175–181. DOI: 0.1016/j.tsf.2015.09.024
19. E.I. Lyashko and A.I. Maimistov, The Features of The Hyperbolic Slab Waveguide, *EPJ Web of Conferences* 103, 04007 (2015). DOI: 10.1051/epjconf/201510304007
20. I. A. Rudnev, M. A. Osipov, A. I. Podlivaev, and S. V. Pokrovskiy, Visualization of the Electric Current Flowing through Conducting Structures via Magnetic Force Microscopy, *Journal of Surface Investigation. X ray, Synchrotron and Neutron Techniques*, 2015, Vol. 9, No. 5, pp. 880–886.