**Сведения об официальном оппоненте.**

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| Список основных публикаций по теме диссертации в рецензируемых научных изданиях за последние 5 лет (не  более 15). | [1] Y.M. Yevdokimov, S.G. Skuridin, V.I. Salyanov, Y.A. Bobrov, V.A. Bucharsky, E.I. Kats, New optical evidence of the cholesteric packing of DNA molecules in "re-entrant" phase, Chemical Physics Letters, 717 (2019) 59-68.  [2] I.A. Zaluzhnyy, R.P. Kurta, N. Mukharamova, Y.Y. Kim, R.M. Khubbutdinov, D. Dzhigaev, V.V. Lebedev, E.S. Pikina, E.I. Kats, N.A. Clark, M. Sprung, B.I. Ostrovskii, I.A. Vartanyants, Evidence of a first-order smectic-hexatic transition and its proximity to a tricritical point in smectic films, Phys. Rev. E, 98 (2018) 052703.  [3] Y.M. Yevdokimov, S.G. Skuridin, V.I. Salyanov, E.I. Kats, Anomalous behavior of the DNA liquid-crystalline dispersion particles and their phases, Chemical Physics Letters, 707 (2018) 154-159.  [4] E.I. Kats, Effect of Polydispersity on the Phase Diagram of Colloid Systems, Journal of Experimental and Theoretical Physics, 127 (2018) 939-944.  [5] E.I. Kats, Spontaneous chiral symmetry breaking in liquid crystals, Low Temp. Phys., 43 (2017) 5-7.  [6] E.I. Kats, Fluctuation Shift of the Nematic-Isotropic Phase Transition Temperature, Jetp Letters, 105 (2017) 246-249.  [7] E.I. Kats, Unconventional phase transitions in liquid crystals, Phys. Usp., 60 (2017) 949-953.  [8] P.V. Dolganov, E.I. Kats, V.K. Dolganov, Collapse of islands in freely suspended smectic nanofilms, Jetp Letters, 106 (2017) 229-233.  [9] E.I. Kats, V.V. Lebedev, A.R. Muratov, Theory of the anomalous critical behavior for the smectic- A-hexatic transition, Phys. Rev. E, 93 (2016) 062707.  [10] P.V. Dolganov, N.S. Shuravin, V.K. Dolganov, E.I. Kats, Chain structures and clusters of particles with the mixed dipole-quadrupole interaction in smectic freely suspended nanofilms, Jetp Letters, 104 (2016) 263-268.  [11] E.I. Kats, V.V. Lebedev, Nonlinear fluctuation effects in dynamics of freely suspended films, Phys. Rev. E, 91 (2015) 032415.  [12] E.I. Kats, Van der Waals, Casimir, and Lifshitz forces in soft matter, Phys. Usp., 58 (2015) 892-896.  [13] P.V. Dolganov, N.S. Shuravin, V.K. Dolganov, E.I. Kats, Topological defects in smectic islands in freely suspended films, Jetp Letters, 101 (2015) 453-458.  [14] P.V. Dolganov, V.K. Dolganov, E.I. Kats, Anomalies of a meniscus of microinclusions in freely suspended smectic films, Jetp Letters, 102 (2015) 242-247.  [15] V.N. Blinov, V.L. Golo, E.I. Kats, Fredericks transitions in biaxial nematics, Eur. Phys. J. E, 38 (2015) 80. |