

Сведения о ведущей организации

Полное и сокращенное наименование ведущей организации	Федеральное государственное бюджетное учреждение науки Институт физики высоких давлений им. Л. Ф. Верещагина Российской академии наук (ИФВД РАН)
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Список основных публикаций работников организации по теме диссертаций в рецензируемых научных изданиях за последние 5 лет (не более 15).	<ol style="list-style-type: none">1. V. N. Ryzhov, E. A. Gaiduk, E. E. Tareeva, Yu. D. Fomin, and E. N. Tsiok, Melting Scenarios of Two-Dimensional Systems: Possibilities of Computer Simulation, <i>Journal of Experimental and Theoretical Physics</i>, 2023, Vol. 137, No. 1, pp. 125–150.2. Yu.D. Fomin, L.N. Dzhavadov, E.N. Tsiok, V.N. Ryzhov, V.V. Brazhkin, “The thermodynamics of pressurized methanol: A simple hydrogen-bonded liquid as a touchstone for experiment and computer simulations”, <i>J. Chem. Phys.</i>, 157, 124503, 2022.3. E.N. Tsiok, Y.D. Fomin, E.A. Gaiduk, E.E. Tareyeva, V.N. Ryzhov, P.A. Libet, N.A. Dmitryuk, N.P. Kryuchkov, S.O. Yurchenko, “The role of attraction in the phase diagrams and melting scenarios of generalized 2D Lennard-Jones systems”, <i>Journal of Chemical Physics</i>, 156(11),114703, 2022.4. S.A. Uporov, R.E. Ryltsev, S.K. Estemirova, E.V. Sterkhov, I.A. Balyakin, N.M. Chtchelkatchev, V.A. Sidorov V.A., “Pressure effects on electronic structure and electrical conductivity of TiZrHfNb high-entropy alloy”, <i>Intermetallics</i>, 140, 107394, 2022.5. R.E. Ryltsev, N.M. Chtchelkatchev, “Freezing in two-length-scale systems: complexity, universality and prediction”, <i>Journal of Physics Condensed</i>

- Matter, 34 (40), 404002, 2022.
6. R.E. Ryltsev, N.M. Chtchelkatchev, “Deep machine learning potentials for multicomponent metallic melts: Development, predictability and compositional transferability”, Journal of Molecular Liquids, 349, 118181, 2022.
 7. O. Kudryavtsev, R. Bagramov, A. Satanin, A. Shiryaev, O. Lebedev, A. Romshin, D. Pasternak, A. Nikolaev, V. Filonenko, I. Vlasov, “Fano-type effect in hydrogen-terminated pure nanodiamond”, Nano Letters, 22, no 7, 2589-2594 2022.
 8. I.V. Danilov, E.L. Gromnitskaya and V.V. Brazhkin, “Phase transitions in 1-bromoadamantane compared to 1-chloroadamantane: similarities and unique features”, Physical Chemistry Chemical Physics, 22, No 40, 23274-23279, 2021.
 9. K. Trachenko, M. Bagnoli, K. Behnia, V.V. Brazhkin, “Universal lower bounds on energy and momentum diffusion in liquids”, Physical Review B, 103(1), 014311(7pp), 2021.
 10. M. V. Kondrin, Y. B. Lebed, and V. V. Brazhkin, “Extended Defects in Graphene and Their Contribution to the Excess Specific Heat at High Temperatures”, Physical Review Lett., 126, 165501, 2021.
 11. K. Trchenko, V.V. Brazhkin, M. Bagnoli, “Similarity between kinematic viscosity of quark-gluon plasma and liquids at the viscosity minimum”, SciPost Phys., 10, 118(14 pp), 2021.
 12. C. Cockrell, V.V. Brazhkin, and K. Trachenko, “Transition in the supercritical state of matter: Review of experimental evidence”, Physics Reports, 941, 1-27, 2021
 13. Yu.D. Fomin, E.N. Tsiok, V.N. Ryzhov, V.V. Brazhkin, “The temperature dependence of the frequency of longitudinal excitations in liquid along isobars: Simple liquid and water”, Journal of Molecular Liquids, 337, 116450 (9pp), 2021.
 14. E.A. Ekimov, Y.B. Lebed, M.V. Kondrin, “Influence of surface reconstruction on elastic properties of nanosized diamond films and nanodiamonds”, Carbon, 171, 634-638, 2021.
 15. K. Trachenko, V.V. Brazhkin, “Minimal quantum viscosity from fundamental physics constant”, Science Advances, 6, eaba3747, 2020