
Author index of volume 18 (2015)

- Aguayo A.**, see **Mex L.** No. 3, 33801.
- Ahmed S., Zafar M., Shakil M., Choudhary M.A.** Ab initio study of structural, electronic, and thermal properties of $\text{Ir}_{1-x}\text{Rh}_x$ alloys. No. 2, 23601.
- Antonov V.N.**, see **Bekenov L.V.** No. 3, 33701.
- Araujo M.T., Drigo Filho E.** Approximate solution for Fokker-Planck equation. No. 4, 43003.
- Baira M.**, see **Souaf M.** No. 3, 33005.
- Bashtova A.I.**, see **Kharchenko D.O.** No. 2, 23003.
- Bekenov L.V., Moklyak S.V., Antonov V.N.** Electronic structure, magnetic ordering and X-ray magnetic circular dichroism in $\text{La}_{1-x}\text{Pr}_x\text{Co}_2\text{P}_2$ phosphides. No. 3, 33701.
- Bekhechi S.**, see **Boudefla R.** No. 3, 33703.
- Bercha D.M., Bercha S.A., Glukhov K.E., Szajdor M.** Vibronic interaction in crystals with the Jahn-Teller centers in the elementary energy bands concept. No. 3, 33705.
- Bercha S.A.**, see **Bercha D.M.** No. 3, 33705.
- Berche B.**, see **Krasnytska M.** No. 4, 44601.
- Bilenka O.B.**, see **Zacheck I.R.** No. 4, 43703.
- Boda D., Leaf G., Fonseca J., Eisenberg B.** Energetics of ion competition in the DEKA selectivity filter of neuronal sodium channels. No. 1, 13601.
- Boichenko N., Slyusarenko Yu.** Coexistence of photonic and atomic Bose-Einstein condensates in ideal atomic gases. No. 4, 43002.
- Borysenko O.** A new kinetic model for precipitation from solid solutions. No. 2, 23603.
- Boudefla R., Bekhechi S., Hontinfinde F.** Numerical study of the spin-3/2 Ashkin-Teller model. No. 3, 33703.
- Brodin A.**, see **Turiv T.** No. 2, 23001.
- Bryk T., Scopigno T., Ruocco G.** Heat capacity of liquids: A hydrodynamic approach. No. 1, 13606.
- Chelbaevsky Z.Yu.**, see **Gorev V.N.** No. 3, 33001.
- Chen L.-B.**, see **Li Ch.-Y.** No. 4, 43701.
- Choudhary M.A.**, see **Ahmed S.** No. 2, 23601.
- Corrêa Silva E.V., Thomaz M.T., Rojas O.** The β -expansion of the $D = 1$ fermionic spinless Hubbard model off the half-filling regime. No. 3, 33003.
- Dan'kiv O.O.**, see **Peleshchak R.M.** No. 4, 43801.
- Dellago Ch.**, see **Theodorakis P.E.** No. 2, 22801.
- Dominguez H.**, see **Galicia-Andrés E.** No. 1, 13603.
- Dominguez H.**, see **Galicia-Andrés E.** No. 4, 43602.
- Doroshenko M.V.**, see **Peleshchak R.M.** No. 2, 23602.
- Drigo Filho E.**, see **Araujo M.T.** No. 4, 43003.
- Eisenberg B.**, see **Boda D.** No. 1, 13601.
- Farkašovský P., Jurečková J.** Effects of correlated hopping on electronic ferroelectricity in the extended Falicov-Kimball model in two dimensions. No. 3, 33704.
- Fonseca J.**, see **Boda D.** No. 1, 13601.
- Fytas N.G.**, see **Theodorakis P.E.** No. 2, 22801.
- Galicia-Andrés E., Dominguez H., Pizio O.** Temperature dependence of the microscopic structure and density anomaly of the SPC/E and TIP4P-Ew water models. Molecular dynamics simulation results. No. 1, 13603.
- Galicia-Andrés E., Dominguez H., Puszta L., Pizio O.** On the composition dependence of thermodynamic, dynamic and dielectric properties of water-methanol model mixtures. Molecular dynamics simulation results. No. 4, 43602.
- Glukhov K.E.**, see **Bercha D.M.** No. 3, 33705.
- Gorev V.N., Sokolovsky A.I., Chelbaevsky Z.Yu.** On relaxation phenomena in a two-component plasma. No. 3, 33001.
- Guo Y., Zhang J., Wang B., Wu H., Sun M., Pan J.** Microphase transitions of block copolymer/homopolymer under shear flow. No. 2, 23801.
- Harutyunyan A.L.**, see **Melkonyan S.V.** No. 2, 23702.
- Henderson D.** Gone but not forgotten. No. 1, 13001.
- Henderson D., Holovko M., Nezbeda I., Trokhymchuk A.** What is Liquid? No. 1, 10101.
- Holovatch Yu.**, see **Krasnytska M.** No. 4, 44601.
- Holovko M.**, see **Henderson D.** No. 1, 10101.

- Holovko M.F., Patsahan T.M., Shmotolokha V.I.** What is liquid in random porous media: The Barker-Henderson perturbation theory. No. 1, 13607.
- Hontinfinde F.**, see **Boudefla R.** No. 3, 33703.
- Hoover C.G.**, see **Hoover Wm.G.** No. 1, 13003.
- Hoover Wm.G., Hoover C.G.** What is liquid? Lyapunov instability reveals symmetry-breaking irreversibilities hidden within Hamilton's many-body equations of motion. No. 1, 13003.
- Hou S.**, see **Wei N.** No. 4, 43601.
- Hribar-Lee B.**, see **Mohorič T.** No. 1, 13004.
- Hryhorchak O.I.** First sound velocity in liquid ${}^4\text{He}$. No. 4, 43001.
- Hvozd T.V., Kalyuzhnyi Yu.V.** Second-order Barker-Henderson perturbation theory for the phase behavior of polydisperse Morse hard-sphere mixture. No. 1, 13605.
- Ilahi B.**, see **Souaf M.** No. 3, 33005.
- Jakse N., Pasturel A.** Stokes-Einstein relation and excess entropy scaling law in liquid Copper. No. 4, 43603.
- Jirsák J.**, see **Nezbeda I.** No. 1, 13602.
- Jurečková J.**, see **Farkašovský P.** No. 3, 33704.
- Kahl G.**, see **Theodorakis P.E.** No. 2, 22801.
- Kalyuzhnyi Yu.V.**, see **Hvozd T.V.** No. 1, 13605.
- Kenna R.**, see **Krasnytska M.** No. 4, 44601.
- Kharchenko D.O., Schokotova O.M., Bashatova A.I., Lysenko I.O.** A study of phase separation processes in presence of dislocations in binary systems subjected to irradiation. No. 2, 23003.
- Khomenko A.V., Troshchenko D.S., Metlov L.S.** Thermodynamics and kinetics of solids fragmentation at severe plastic deformation. No. 3, 33004.
- Korynevskii M.A., Solovyan V.B.** Self-consistent approach to magnetic ordering and excited site occupation processes in a two-level system. No. 3, 33706.
- Kovalenko A.** Molecular theory of solvation: Methodology summary and illustrations. No. 3, 32601.
- Krasnov V.O.**, see **Stasyuk I.V.** No. 4, 43702.
- Krasnytska M., Berche B., Holovatch Yu., Kenna R.** On the discontinuity of the specific heat of the Ising model on a scale-free network. No. 4, 44601.
- Kulyk N.Ya.**, see **Peleshchak R.M.** No. 2, 23602.
- Kuzyk O.V.**, see **Peleshchak R.M.** No. 4, 43801.
- Leaf G.**, see **Boda D.** No. 1, 13601.
- Levitskii R.R.**, see **Zacheck I.R.** No. 4, 43703.
- Li C.-Y., Wang G.-X., Zheng X.-M.** Theoretical studies of the optical and EPR spectra for VO^{2+} in $\text{Na}_3\text{C}_6\text{H}_5\text{O}_7 \cdot 2\text{H}_2\text{O}$ single crystal. No. 2, 23701.
- Li Ch.-Y., Chen L.-B., Mao J.-J., Zheng X.-M.** Theoretical studies of the local structures and EPR parameters for Cu^{2+} center in $\text{Cd}_2(\text{NH}_4)_2(\text{SO}_4)_3$ single crystal. No. 4, 43701.
- Lysenko I.O.**, see **Kharchenko D.O.** No. 2, 23003.
- Maaref H.**, see **Souaf M.** No. 3, 33005.
- Mao J.-J.**, see **Li Ch.-Y.** No. 4, 43701.
- Melkonyan S.V., Harutyunyan A.L., Zalinyan T.A.** Electron-acoustic phonon field induced tunnel scattering. No. 2, 23702.
- Melnik R.**, see **Trokhymchuk A.** No. 1, 13501.
- Melnik R.** Theoretical study of phase behaviour of DLVO model for lysozyme and γ -crystalline aqueous electrolyte solutions. No. 1, 13604.
- Metlov L.S.**, see **Khomenko A.V.** No. 3, 33004.
- Mex L., Aguayo A., Murrieta G.** Elastic properties of 5d transition-metal carbides: An *ab initio* study. No. 3, 33801.
- Mohorič T., Hribar-Lee B., Vlachy V.** Effects of translational and rotational degrees of freedom on the properties of model water. No. 1, 13004.
- Moklyak S.V.**, see **Bekenov L.V.** No. 3, 33701.
- Moučka F.**, see **Nezbeda I.** No. 1, 13602.
- Murrieta G.**, see **Mex L.** No. 3, 33801.
- Nazarenko V.G.**, see **Turiv T.** No. 2, 23001.
- Nezbeda I.**, see **Henderson D.** No. 1, 10101.
- Nezbeda I.**, see **Trokhymchuk A.** No. 1, 13501.
- Nezbeda I., Jirsák J., Moučka F., Smith W.R.** Application of molecular simulations: Insight into liquid bridging and jetting phenomena. No. 1, 13602.
- Palma G., Riveros A.** Meron-cluster simulation of the quantum antiferromagnetic Heisenberg model in a magnetic field in one- and two-dimensions. No. 2, 23002.
- Pan J.**, see **Guo Y.** No. 2, 23801.
- Panochko G.I.**, see **Vakarchuk I.O.** No. 3, 33002.
- Pasturel A.**, see **Jakse N.** No. 4, 43603.
- Patsahan O.** Gas-liquid critical point of the ultrasoft restricted primitive model from analytic theory. No. 2, 24601.
- Patsahan T.M.**, see **Holovko M.F.** No. 1, 13607.
- Peleshchak R.M., Kulyk N.Ya., Doroshenko M.V.** Spatial-temporal redistribution of

- point defects in three-layer stressed nanoheterosystems within the framework of self-assembled deformation-diffusion model. No. 2, 23602.
- Peleshchak R.M., Kuzyk O.V., Dan'kiv O.O.** Temperature regimes of formation of nanometer periodic structure of adsorbed atoms in GaAs semiconductors under the action of laser irradiation. No. 4, 43801.
- Pizio O.**, see **Galicia-Andrés E.** No. 1, 13603.
- Pizio O.**, see **Galicia-Andrés E.** No. 4, 43602.
- Polotsky A.A.** Adsorption of symmetric random copolymer onto symmetric random surface: The annealed case. No. 2, 23802.
- Poluektov Yu.M., Soroka A.A., Shulga S.N.** The self-consistent field model for Fermi systems with account of three-body interactions. No. 4, 43005.
- Pusztai L.**, see **Galicia-Andrés E.** No. 4, 43602.
- Ptyiuk O.Yu.**, see **Tkach M.V.** No. 3, 33707.
- Riveros A.**, see **Palma G.** No. 2, 23002.
- Rojas O.**, see **Corrêa Silva E.V.** No. 3, 33003.
- Ruocco G.**, see **Bryk T.** No. 1, 13606.
- Schokotova O.M.**, see **Kharchenko D.O.** No. 2, 23003.
- Scopigno T.**, see **Bryk T.** No. 1, 13606.
- Seti Ju.O.**, see **Tkach M.V.** No. 3, 33707.
- Shakil M.**, see **Ahmed S.** No. 2, 23601.
- Shchur Ya.**, see **Zacheck I.R.** No. 4, 43703.
- Shmotolokha V.I.**, see **Holovko M.F.** No. 1, 13607.
- Shulga S.N.**, see **Poluektov Yu.M.** No. 4, 43005.
- Shved V.M.**, see **Syrotyuk S.V.** No. 3, 33702.
- Slyusarenko Yu.**, see **Boichenko N.** No. 4, 43002.
- Smith W.R.**, see **Nezbeda I.** No. 1, 13602.
- Sokolovsky A.I.**, see **Gorev V.N.** No. 3, 33001.
- Solovyan V.B.**, see **Korynevskii M.A.** No. 3, 33706.
- Soroka A.A.**, see **Poluektov Yu.M.** No. 4, 43005.
- Souaf M., Baira M., Maaref H., Ilahi B.** Modeling the intermixing effects in highly strained asymmetric InGaAs/GaAs quantum well. No. 3, 33005.
- Stasyuk I.V., Krasnov V.O.** Phase transitions in Bose-Fermi-Hubbard model in the heavy fermion limit: Hard-core boson approach. No. 4, 43702.
- Stasyuk I.V., Velychko O.V., Vorobyov O.** Phonon-like excitations in the two-state Bose-Hubbard model. No. 4, 43004.
- Sun M.**, see **Guo Y.** No. 2, 23801.
- Syrotyuk S.V., Shved V.M.** Quasiparticle electronic band structure of the alkali metal chalcogenides. No. 3, 33702.
- Sznajder M.**, see **Bercha D.M.** No. 3, 33705.
- Theodorakis P.E., Fytas N.G., Kahl G., Delago Ch.** Self-assembly of DNA-functionalized colloids. No. 2, 22801.
- Thomaz M.T.**, see **Corrêa Silva E.V.** No. 3, 33003.
- Tkach M.V., Seti Ju.O., Voitsekhivska O.M., Ptyiuk O.Yu.** Renormalized energy of ground and first excited state of Fröhlich polaron in the range of weak coupling. No. 3, 33707.
- Toxvaerd S.** Role of attractive forces in determining the equilibrium structure and dynamics of simple liquids. No. 1, 13002.
- Trokhymchuk A.**, see **Henderson D.** No. 1, 10101.
- Trokhymchuk A., Melnyk R., Nezbeda I.** Virial expansions and augmented van der Waals approach: Application to Lennard-Jones-like Yukawa fluid. No. 1, 13501.
- Troshchenko D.S.**, see **Khomenko A.V.** No. 3, 33004.
- Turiv T., Brodin A., Nazarenko V.G.** Anomalous Brownian motion of colloidal particle in a nematic environment: Effect of the director fluctuations. No. 2, 23001.
- Vakarchuk I.O., Panochko G.I.** Theory of a many-boson system with deformed Heisenberg algebra. No. 3, 33002.
- Velychko O.V.**, see **Stasyuk I.V.** No. 4, 43004.
- Vlachy V.**, see **Mohorič T.** No. 1, 13004.
- Voitsekhivska O.M.**, see **Tkach M.V.** No. 3, 33707.
- Vorobyov O.**, see **Stasyuk I.V.** No. 4, 43004.
- Wang B.**, see **Guo Y.** No. 2, 23801.
- Wang G.-X.**, see **Li C.-Y.** No. 2, 23701.
- Wei N., Zhang Ch., Hou S.** Theoretical study of the elastic and thermodynamic properties of Pt₃Al with the L1₂ structure under high pressure. No. 4, 43601.
- Wu H.**, see **Guo Y.** No. 2, 23801.
- Zacheck I.R., Levitskii R.R., Shchur Ya., Bilenka O.B.** Statistical theory of thermodynamic and dynamic properties of the RbHSO₄ ferroelectrics. No. 4, 43703.
- Zafar M.**, see **Ahmed S.** No. 2, 23601.
- Zalinyan T.A.**, see **Melkonyan S.V.** No. 2, 23702.
- Zhang Ch.**, see **Wei N.** No. 4, 43601.
- Zhang J.**, see **Guo Y.** No. 2, 23801.
- Zheng X.-M.**, see **Li C.-Y.** No. 2, 23701.
- Zheng X.-M.**, see **Li Ch.-Y.** No. 4, 43701.