
Author index of volume 20 (2017)

- Aamouche A.**, see **Elmenaouar K.** No. 2, 23302.
- Aarão Reis F.D.A.** Effects of porosity in a model of corrosion and passive layer growth. No. 3, 33803.
- Abbo Y.A.**, see **Ismail A.A.** No. 2, 23401.
- Amokrane S.**, see **Regnaut C.** No. 3, 33702.
- Ananyev V.O., Ovchynnikov M.I.** On the density of states of graphene in the nearest-neighbor approximation. No. 4, 43705.
- Badiali J.P.**, see **Patsahan T.** No. 3, 33003.
- Ban M., Hayashi T., Jizba P., Kobryn A.E., Motoike T., Shibata F., Yoshida K.** In memory of Toshihico Arimitsu. (*Personalia*) No. 3, 37001.
- Ben Cheikh Larbi F.**, see **Zenkri M.** No. 3, 33802.
- Benbrik R.**, see **Elmenaouar K.** No. 2, 23302.
- Berche B., Folk R., Kenna R., Mryglod O.** Correlations, connections, and physics in complex systems. (*Foreword*) No. 1, 10101.
- Berche B., Mireles F., Medina E.** Rashba spin-orbit interaction enhanced by graphene in-plane deformations. No. 1, 13702.
- Berche B.**, see **Kenna R.** No. 1, 13803.
- Bhuiyan L.B., Outhwaite C.W.** Charge reversal and surface charge amplification in asymmetric valence restricted primitive model planar electric double layers in the modified Poisson-Boltzmann theory. No. 3, 33801.
- Bhuiyan L.B.**, see **Ulloa-Dávila E.O.** No. 4, 43801.
- Bilotsky Y., Gasik M., Lev B.** Diffusion equations in inhomogeneous solid having arbitrary gradient concentration. No. 1, 13201.
- Bilynskiy I.V.**, see **Boichuk V.I.** No. 2, 23704.
- Blavatska V.**, see **Fricke N.** No. 1, 13004.
- Boichuk V.I., Bilynskiy I.V., Pazyuk R.I.** Light absorption coefficient of an ordered array of spherical quantum dot chains. No. 2, 23704.
- Boichuk V.I., Leshko R.Ya., Karpyn D.S.** Analysis of the effect of polarization traps and shallow impurities on the interlevel light absorption of quantum dots. No. 4, 43704.
- Borgis D.**, see **Sergiiievskiy V.** No. 3, 33005.
- Brytan V.B.**, see **Uhryn Y.O.** No. 4, 43702.
- Bulavin L.**, see **Lebovka N.** No. 1, 13602.
- Cachet H.** From the bulk electrolyte solution to the electrochemical interface. No. 3, 33701.
- Chalyi A.V., Vasilev A.N., Zaitseva E.V.** Synaptic transmission as a cooperative phenomenon in confined systems. No. 1, 13804.
- Chandiramouli R.**, see **Nagarajan V.** No. 2, 23301.
- Chandiramouli R.**, see **Nagarajan V.** No. 2, 23705.
- Chandiramouli R.**, see **Nagarajan V.** No. 4, 43708.
- Chaussé A.**, see **Zenkri M.** No. 3, 33802.
- de Lamare J.**, see **Zenkri M.** No. 3, 33802.
- Demaerel T., Maes C.** Activity induced first order transition for the current in a disordered medium. No. 3, 33002.
- di Caprio D., Dong W., Henderson D., Holovko M.** A life in Science: In memory of Jean-Pierre Badiali. (*Foreword*) No. 3, 30101.
- di Caprio D.**, see **Zenkri M.** No. 3, 33802.
- Dobush O.A.**, see **Kozlovskii M.P.** No. 2, 23501.
- Dominguez H., Pizio O.** On the composition dependence of the microscopic structure, thermodynamic, dynamic and dielectric properties of water-dimethyl formamide model mixtures. Molecular dynamics simulation results. No. 4, 43602.
- Dominguez H.**, see **Gujt J.** No. 3, 33603.
- Dong W.**, see **di Caprio D.** (*Foreword*) No. 3, 30101.
- Dong W.**, see **Holovko M.** No. 3, 33602.
- Dotsenko V.S., Mejía-Monasterio C., Oshanin G.** Negative response to an excessive bias by a mixed population of voters. No. 1, 13801.
- Du Z.**, see **Yang R.** No. 2, 23601.
- Dudka M., Fedorenko A.A.** Emergent universal critical behavior of the 2D *N*-color Ashkin-Teller model in the presence of correlated disorder. No. 1, 13603.
- Dzikovskiy D.V.**, see **Vavrukh M.V.** No. 4, 43001.
- Eliazar I.** Investigating inequality: a Langevin approach. No. 1, 13001.
- Elmenaouar K., Benbrik R., Aamouche A.** Influence of C₆H₄(OH)₂ isomers on water disin-

- fection by photocatalysis: a computational study. No. 2, 23302.
- Fedorenko A.A.**, see **Dudka M.** No. 1, 13603.
- Féron D.**, see **Zenkri M.** No. 3, 33802.
- Folk R.**, see **Berche B.** (*Foreword*) No. 1, 10101.
- Folk R.**, see **Petrasccheck D.** No. 1, 13002.
- Frank T.D.**, see **Mongkolsakulvong S.** No. 4, 44001.
- Fricke N.**, **Zierenberg J.**, **Marenz M.**, **Spitzner F.P.**, **Blavatska V.**, **Janke W.** Scaling laws for random walks in long-range correlated disordered media. No. 1, 13004.
- Gasik M.**, see **Bilotsky Y.** No. 1, 13201.
- Gholap A.V.**, see **Ismail A.A.** No. 2, 23401.
- Ghosh A.K.**, see **Paul S.** No. 2, 23701.
- González-Tovar E.**, **Lozada-Cassou M.** Model charged cylindrical nanopore in a colloidal dispersion: charge reversal, overcharging and double overcharging. No. 3, 33604.
- Gorev V.N.**, **Sokolovsky A.I.** Generalization of the Grad method in plasma physics. No. 2, 23001.
- Grigorichuk N.I.** Estimation of electron temperature in heated metallic nanoparticle. No. 4, 43703.
- Gujt J.**, **Dominguez H.**, **Sokolowski S.**, **Pizio O.** Isobaric-isothermal molecular dynamics computer simulations of the properties of water-1,2-dimethoxyethane model mixtures. No. 3, 33603.
- Han X.-G.**, **Meng H.-H.**, **Ma Y.-H.**, **Ouyang S.-L.** The effect of asymmetry of the coil block on self-assembly in ABC coil-rod-coil triblock copolymers. No. 4, 43601.
- Hayashi T.**, see **Ban M.** (*Personalialia*) No. 3, 37001.
- Henderson D.**, see **di Caprio D.** (*Foreword*) No. 3, 30101.
- Henderson D.**, see **Schmickler W.** No. 3, 33004.
- Holovko M.**, **Patsahan T.**, **Dong W.** On the improvement of SPT2 approach in the theory of a hard sphere fluid in disordered porous media. No. 3, 33602.
- Holovko M.**, see **di Caprio D.** (*Foreword*) No. 3, 30101.
- Holovko M.**, see **Patsahan T.** No. 3, 33003.
- Holovko M.F.**, **Hvozd M.V.** Isotropic-nematic mixture of hard spheres and hard spherocylinders: scaled particle theory description. No. 4, 43501.
- Hvozd M.V.**, see **Holovko M.F.** No. 4, 43501.
- Ilnytskyi J.M.**, see **Kalyuzhnyi O.Y.** No. 1, 13802.
- Ilnytskyi J.M.**, see **Patsahan T.** No. 2, 23003.
- Ismail A.A.**, **Gholap A.V.**, **Abbo Y.A.** Enhancement of local electric field in core-shell orientation of ellipsoidal metal/dielectric nanoparticles. No. 2, 23401.
- Ivanova V.**, see **Taleb A.** No. 3, 33804.
- Janke W.**, see **Fricke N.** No. 1, 13004.
- Jizba P.**, see **Ban M.** (*Personalialia*) No. 3, 37001.
- Kalyuzhnyi O.Y.**, **Ilnytskyi J.M.**, **von Ferber C.** Shape characteristics of the aggregates formed by amphiphilic stars in water: dissipative particle dynamics study. No. 1, 13802.
- Karpyn D.S.**, see **Boichuk V.I.** No. 4, 43704.
- Kenna R.**, **Mryglod O.**, **Berche B.** A scientists' view of scientometrics: Not everything that counts can be counted. No. 1, 13803.
- Kenna R.**, see **Berche B.** (*Foreword*) No. 1, 10101.
- Kobryn A.E.**, see **Ban M.** (*Personalialia*) No. 3, 37001.
- Kovalchuk V.**, see **Lebovka N.** No. 1, 13602.
- Kovács T.**, **Papp S.**, **Kristóf T.** Membrane separation study for methane-hydrogen gas mixtures by molecular simulations. No. 2, 23002.
- Kozlovskii M.P.**, **Dobush O.A.** Phase transition in a cell fluid model. No. 2, 23501.
- Kristóf T.**, see **Kovács T.** No. 2, 23002.
- Laba H.P.**, **Tkachuk V.M.** Geometric characteristics of quantum evolution: curvature and torsion. No. 1, 13003.
- Le Méhauté A.**, see **Riot P.** No. 3, 33001.
- Lebovka N.**, **Bulavin L.**, **Kovalchuk V.**, **Melnyk I.**, **Repnin K.** Two-step percolation in aggregating systems. No. 1, 13602.
- Leshko R.Ya.**, see **Boichuk V.I.** No. 4, 43704.
- Lev B.**, see **Bilotsky Y.** No. 1, 13201.
- Levesque D.** New solid phase of dipolar systems. No. 3, 33601.
- Levesque M.**, see **Sergiievskiy V.** No. 3, 33005.
- Levitskii R.R.**, see **Zachek I.R.** No. 2, 23706.
- Levitskii R.R.**, see **Zachek I.R.** No. 4, 43707.
- Liu Y.L.**, **Luo G.X.**, **Xu N.**, **Tian H.Y.**, **Ren C.D.** Integer quantum Hall effect and topological phase transitions in silicene. No. 4, 43701.
- Lozada-Cassou M.**, see **González-Tovar E.** No. 3, 33604.
- Luo G.**, see **Tian H.-Y.** No. 2, 23702.
- Luo G.X.**, see **Liu Y.L.** No. 4, 43701.
- Ma Y.-H.**, see **Han X.-G.** No. 4, 43601.

- Maes C.**, see **Demaerel T.** No. 3, 33002.
- Malomuzh N.P., Timofeev M.V.** Modelling of potentials for interparticle interactions between methanol molecules. No. 4, 43301.
- Marezn M.**, see **Fricke N.** No. 1, 13004.
- Medina E.**, see **Berche B.** No. 1, 13702.
- Mejía-Monasterio C.**, see **Dotsenko V.S.** No. 1, 13801.
- Melnyk I.**, see **Lebovka N.** No. 1, 13602.
- Meng H.-H.**, see **Han X.-G.** No. 4, 43601.
- Mireles F.**, see **Berche B.** No. 1, 13702.
- Mongkolsakulvong S., Frank T.D.** Synchronization and anchoring of two non-harmonic canonical-dissipative oscillators via Smorodinsky-Winternitz potentials. No. 4, 44001.
- Motoike T.**, see **Ban M.** (*Personalalia*) No. 3, 37001.
- Mryglod O.**, see **Berche B.** (*Foreword*) No. 1, 10101.
- Mryglod O.**, see **Kenna R.** No. 1, 13803.
- Nagarajan V., Chandiramouli R.** Interaction of NH_3 gas on $\alpha\text{-MoO}_3$ nanostructures — a DFT investigation. No. 2, 23705.
- Nagarajan V., Chandiramouli R.** Investigation on nickel ferrite nanowire device exhibiting negative differential resistance — a first-principles investigation. No. 2, 23301.
- Nagarajan V., Sriram S., Chandiramouli R.** Sensing behavior of acetone vapors on TiO_2 nanostructures — application of density functional theory. No. 4, 43708.
- Ngo E.**, see **Russier V.** No. 3, 33703.
- Novosyadlyj B., Tsizh M.** Voids in the Cosmic Web as a probe of dark energy. No. 1, 13901.
- Oshanin G.**, see **Dotsenko V.S.** No. 1, 13801.
- Outhwaite C.W.**, see **Bhuiyan L.B.** No. 3, 33801.
- Ouyang S.-L.**, see **Han X.-G.** No. 4, 43601.
- Ovchinnikov M.I.**, see **Ananyev V.O.** No. 4, 43705.
- Panochko G., Pastukhov V., Vakarchuk I.** Behavior of the impurity atom in a weakly-interacting Bose gas. No. 1, 13604.
- Papp S.**, see **Kovács T.** No. 2, 23002.
- Pastukhov V.**, see **Panochko G.** No. 1, 13604.
- Patsahan T., Ilytskyi J.M., Pizio O.** On the properties of a single OPLS-UA model curcumin molecule in water, methanol and dimethyl sulfoxide. Molecular dynamics computer simulation results. No. 2, 23003.
- Patsahan T.**, see **Holovko M.** No. 3, 33602.
- Patsahan T., Taleb A., Stafiej J., Holovko M., Badiali J.P.** Stochastic simulation of destruction processes in self-irradiated materials. No. 3, 33003.
- Paul S., Ghosh A.K.** Ground state properties of the bond alternating spin- $\frac{1}{2}$ anisotropic Heisenberg chain. No. 2, 23701.
- Pazyuk R.I.**, see **Boichuk V.I.** No. 2, 23704.
- Peleshchak R.M.**, see **Uhryn Y.O.** No. 4, 43702.
- Petrascheck D., Folk R.** Helmholtz decomposition theorem and Blumenthal's extension by regularization. No. 1, 13002.
- Pérez-Brokate C.**, see **Zenkri M.** No. 3, 33802.
- Pizio O.**, see **Dominguez H.** No. 4, 43602.
- Pizio O.**, see **Gujt J.** No. 3, 33603.
- Pizio O.**, see **Patsahan T.** No. 2, 23003.
- Pytiuk O.Yu.**, see **Tkach M.V.** No. 4, 43706.
- Raouafi F.**, see **Zenkri M.** No. 3, 33802.
- Regnaut C., Amokrane S.** Liquid metals: early contributions and some recent developments. No. 3, 33702.
- Ren C.D.**, see **Liu Y.L.** No. 4, 43701.
- Ren Ch.-D.**, see **Tian H.-Y.** No. 2, 23702.
- Repnin K.**, see **Lebovka N.** No. 1, 13602.
- Riot P., Le Méhauté A.** From the arrow of time in Badiali's quantum approach to the dynamic meaning of Riemann's hypothesis. No. 3, 33001.
- Rotenberg B.**, see **Sergiiievskiy V.** No. 3, 33005.
- Ruiz-Lorenzo J.J.** Revisiting (logarithmic) scaling relations using renormalization group. No. 1, 13601.
- Russier V., Ngo E.** Ferromagnetic order in dipolar systems with anisotropy: application to magnetic nanoparticle supracrystals. No. 3, 33703.
- Schmickler W., Henderson D.** Charge storage in nanotubes: the case of a 2-1 electrolyte. No. 3, 33004.
- Sergiiievskiy V., Levesque M., Rotenberg B., Borgis D.** Solvation in atomic liquids: connection between Gaussian field theory and density functional theory. No. 3, 33005.
- Seti Ju.O.**, see **Tkach M.V.** No. 4, 43706.
- Shibata F.**, see **Ban M.** (*Personalalia*) No. 3, 37001.
- Sokolovsky A.I.**, see **Gorev V.N.** No. 2, 23001.
- Sokolowski S.**, see **Gujt J.** No. 3, 33603.
- Spitzner F.P.**, see **Fricke N.** No. 1, 13004.
- Sriram S.**, see **Nagarajan V.** No. 4, 43708.
- Stafiej J.**, see **Patsahan T.** No. 3, 33003.
- Stasyuk I.V.**, see **Zachek I.R.** No. 2, 23706.

-
- Taleb A., Ivanova V.** Self-assembled metallic nanoparticle template — a new approach of surface nanostructuring at nanometer scale. No. 3, 33804.
- Taleb A.**, see **Patsahan T.** No. 3, 33003.
- Tian H.Y.**, see **Liu Y.L.** No. 4, 43701.
- Tian H.-Y., Xu N., Luo G., Ren Ch.-D.** The perfect spin injection in silicene FS/NS junction. No. 2, 23702.
- Timofeev M.V.**, see **Malomuzh N.P.** No. 4, 43301.
- Tkach M.V., Pytiuk O.Yu., Voitsekhivska O.M., Seti Ju.O.** Energy spectrum of localized quasiparticles renormalized by multi-phonon processes at finite temperature. No. 4, 43706.
- Tkachuk V.M.**, see **Laba H.P.** No. 1, 13003.
- Tshipa M.** Photoionization cross section in a spherical quantum dot: Effects of some parabolic confining electric potentials. No. 2, 23703.
- Tsizh M.**, see **Novosyadlyj B.** No. 1, 13901.
- Tyshko N.L.**, see **Vavrukh M.V.** No. 4, 43001.
- Uhryn Y.O., Peleshchak R.M., Brytan V.B., Velchenko A.A.** Magnetoresistance based determination of basic parameters of minority charge carriers in solid matter. No. 4, 43702.
- Ulloa-Dávila E.O., Bhuiyan L.B.** An analysis of the fluctuation potential in the modified Poisson-Boltzmann theory for restricted primitive model electrolytes. No. 4, 43801.
- Vakarchuk I.**, see **Panochko G.** No. 1, 13604.
- Vasilev A.N.**, see **Chalyi A.V.** No. 1, 13804.
- Vavrukh M.V., Dzikovskyi D.V., Tyshko N.L.** Reference system approach within the white-dwarfs theory. No. 4, 43001.
- Vdovych A.S.**, see **Zachek I.R.** No. 2, 23706.
- Vdovych A.S.**, see **Zachek I.R.** No. 4, 43707.
- Velchenko A.A.**, see **Uhryn Y.O.** No. 4, 43702.
- Voitsekhivska O.M.**, see **Tkach M.V.** No. 4, 43706.
- von Ferber C.** 60th birthday of Yuriy Holovatch. (*Foreword*) No. 1, 10102.
- von Ferber C.**, see **Kalyuzhnyi O.Y.** No. 1, 13802.
- Wei Q.**, see **Yang R.** No. 2, 23601.
- Xiao K.**, see **Yang R.** No. 2, 23601.
- Xu N.**, see **Liu Y.L.** No. 4, 43701.
- Xu N.**, see **Tian H.-Y.** No. 2, 23702.
- Yang R., Zhu C., Wei Q., Xiao K., Du Z.** First-principles study of optical, elastic anisotropic and thermodynamic properties of TiN under high temperature and high pressure. No. 2, 23601.
- Yavors'kii T.** The large-*m* limit, and spin liquid correlations in kagome-like spin models. No. 1, 13701.
- Yoshida K.**, see **Ban M.** (*Personalia*) No. 3, 37001.
- Zachek I.R., Levitskii R.R., Vdovych A.S., Stasyuk I.V.** Influence of electric fields on dielectric properties of GPI ferroelectric. No. 2, 23706.
- Zachek I.R., Levitskii R.R., Vdovych A.S.** The effect of hydrostatic pressure on thermodynamic characteristics of $\text{NH}_3\text{CH}_2\text{COOH}\cdot\text{H}_2\text{PO}_3$ type ferroelectric materials. No. 4, 43707.
- Zaitseva E.V.**, see **Chalyi A.V.** No. 1, 13804.
- Zenkri M., di Caprio D., Pérez-Brokate C., Féron D., de Lamare J., Chaussé A., Ben Cheikh Larbi F., Raouafi F.** Contribution of cellular automata to the understanding of corrosion phenomena. No. 3, 33802.
- Zhu C.**, see **Yang R.** No. 2, 23601.
- Zierenberg J.**, see **Fricke N.** No. 1, 13004.