

Iryna Doroshenko

List of Publications by Year in descending order

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280
papers

3,392
citations

172386

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286
all docs

286
docs citations

286
times ranked

2632
citing authors

#	ARTICLE	IF	CITATIONS
1	Bridging QTAIM with vibrational spectroscopy: the energy of intramolecular hydrogen bonds in DNA-related biomolecules. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7441.	1.3	127
2	On the Origin of C ₆₀ Fullerene Solubility in Aqueous Solution. <i>Langmuir</i> , 2014, 30, 3967-3970.	1.6	109
3	JANPA: An open source cross-platform implementation of the Natural Population Analysis on the Java platform. <i>Computational and Theoretical Chemistry</i> , 2014, 1050, 15-22.	1.1	108
4	C60 fullerene enhances cisplatin anticancer activity and overcomes tumor cell drug resistance. <i>Nano Research</i> , 2017, 10, 652-671.	5.8	61
5	Role of the collective self-diffusion in water and other liquids. <i>Journal of Molecular Liquids</i> , 2008, 137, 1-24.	2.3	60
6	Structure of fullerene C60 in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 1627-1629.	1.3	51
7	How Flexible are DNA Constituents? The Quantum-Mechanical Study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2011, 29, 563-575.	2.0	51
8	Structural Characteristics of Aqueous Dispersions of Detonation Nanodiamond and Their Aggregate Fractions as Revealed by Small-Angle Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2015, 119, 794-802.	1.5	50
9	Structural organization of C60 fullerene, doxorubicin, and their complex in physiological solution as promising antitumor agents. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	49
10	Structure and Thermophysical Properties of Fullerene C60 Aqueous Solutions. <i>International Journal of Thermophysics</i> , 2001, 22, 943-956.	1.0	48
11	Surprising properties of the kinematic shear viscosity of water. <i>Chemical Physics Letters</i> , 2008, 453, 183-187.	1.2	48
12	Localized orbitals for optimal decomposition of molecular properties. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25798.	1.0	45
13	Study of Structure of Colloidal Particles of Fullerenes in Water Solution. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 324, 65-70.	0.3	41
14	Micelle formation in aqueous solutions of dodecylbenzene sulfonic acid studied by small-angle neutron scattering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 369, 160-164.	2.3	41
15	Structure of water-based ferrofluids with sodium oleate and polyethylene glycol stabilization by small-angle neutron scattering: contrast-variation experiments. <i>Journal of Applied Crystallography</i> , 2010, 43, 959-969.	1.9	40
16	Structural self-organization of C ₆₀ and cisplatin in physiological solution. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26084-26092.	1.3	40
17	Self-organization C60 nanoparticles in toluene solution. <i>Journal of Molecular Liquids</i> , 2001, 93, 187-191.	2.3	38
18	Anomalous behavior of glycerol-water solutions. <i>Journal of Molecular Liquids</i> , 2006, 127, 90-92.	2.3	38

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19	Analysis of the structure of aqueous ferrofluids by the small-angle neutron scattering method. <i>Physics of the Solid State</i> , 2010, 52, 974-978.	0.2	37
20	Aggregate development in C60/N-methyl-2-pyrrolidone solution and its mixture with water as revealed by extraction and mass spectroscopy. <i>Chemical Physics Letters</i> , 2010, 493, 103-106.	1.2	37
21	Does C60 fullerene act as a transporter of small aromatic molecules?. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 164, 134-143.	2.5	34
22	On the impact of surfactant type on the structure of aqueous ferrofluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 541, 222-226.	2.3	34
23	Non-reversible solvatochromism in N-methyl-2-pyrrolidone/toluene mixed solutions of fullerene C60. <i>Chemical Physics Letters</i> , 2013, 556, 178-181.	1.2	33
24	Thermally Responsive Hyperbranched Poly(ionic liquid)s: Assembly and Phase Transformations. <i>Macromolecules</i> , 2018, 51, 4923-4937.	2.2	33
25	Interaction of mono-carboxylic acids in benzene studied by small-angle neutron scattering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 337, 91-95.	2.3	32
26	Impact of high-frequency ultrasound on nanocomposite microcapsules: in silico and in situ visualization. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2389-2397.	1.3	32
27	Effect of iron oxide loading on magnetoferritin structure in solution as revealed by SAXS and SANS. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 82-88.	2.5	31
28	Assembly of Amphiphilic Hyperbranched Polymeric Ionic Liquids in Aqueous Media at Different pH and Ionic Strength. <i>Macromolecules</i> , 2016, 49, 8697-8710.	2.2	31
29	Small-angle scattering from polydisperse particles with a diffusive surface. <i>Journal of Applied Crystallography</i> , 2014, 47, 642-653.	1.9	30
30	The structure of liquid alcohols and the temperature dependence of vibrational bandwidth. <i>Journal of Molecular Structure</i> , 2004, 708, 61-65.	1.8	29
31	The spatial diamond-graphite transition in detonation nanodiamond as revealed by small-angle neutron scattering. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 445001.	0.7	29
32	Structure and toxicity of aqueous fullerene C60 solutions. <i>Journal of Surface Investigation</i> , 2015, 9, 1-5.	0.1	29
33	Star-like dextran-graft-pnlpam copolymers. Effect of internal molecular structure on the phase transition. <i>Journal of Molecular Liquids</i> , 2017, 235, 77-82.	2.3	29
34	State of aggregation and toxicity of aqueous fullerene solutions. <i>Applied Surface Science</i> , 2019, 483, 69-75.	3.1	29
35	Critical anomaly of shear viscosity in a mixture with an ionic impurity. <i>Chemical Physics Letters</i> , 1997, 278, 121-126.	1.2	28
36	Temperature-controlled kinetics of the growth and relaxation of alcohol clusters in an argon matrix. <i>Molecular Physics</i> , 2010, 108, 2165-2170.	0.8	28

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37	Efficient tuning of potential parameters for liquid–solid interactions. <i>Molecular Simulation</i> , 2016, 42, 910-915.	0.9	28
38	NMR and FTIR studies of clustering of water molecules: From low-temperature matrices to nano-structured materials used in innovative medicine. <i>Journal of Molecular Liquids</i> , 2017, 235, 1-6.	2.3	28
39	Fullerenes as an Effective Amyloid Fibrils Disaggregating Nanomaterial. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32410-32419.	4.0	28
40	Microstructure and optical properties of nematic and cholesteric liquid crystals doped with organo-modified platelets. <i>Journal of Molecular Liquids</i> , 2018, 267, 279-285.	2.3	25
41	Solvatochromism and Fullerene Cluster Formation in C60/N-methyl-2-pyrrolidone. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010, 18, 458-461.	1.0	24
42	Impact of polyethylene glycol on aqueous micellar solutions of sodium oleate studied by small-angle neutron scattering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 480, 191-196.	2.3	24
43	Neutron time-of-flight reflectometer GRAINS with horizontal sample plane at the IBR-2 reactor: Possibilities and prospects. <i>Crystallography Reports</i> , 2017, 62, 1002-1008.	0.1	24
44	Anharmonic interactions and Fermi resonance in the vibrational spectra of alcohols. <i>Journal of Molecular Structure</i> , 2002, 605, 187-198.	1.8	23
45	Upper temperature limit for the existence of living matter. <i>Journal of Molecular Liquids</i> , 2006, 124, 136.	2.3	23
46	Sol–Gel Transition in Nanodiamond Aqueous Dispersions by Small-Angle Scattering. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18028-18036.	1.5	22
47	Influence of Single-Walled Carbon Nanotubes on Thermal Expansion of Water. <i>International Journal of Thermophysics</i> , 2014, 35, 19-31.	1.0	21
48	Statistical theory of condensation – Advances and challenges. <i>Journal of Molecular Liquids</i> , 2016, 224, 694-712.	2.3	21
49	Structural investigations of poly(ethylene glycol)-dodecylbenzenesulfonic acid complexes in aqueous solutions. <i>Journal of Molecular Liquids</i> , 2020, 308, 113045.	2.3	21
50	On structural features of fullerene C60 dissolved in carbon disulfide: Complementary study by small-angle neutron scattering and molecular dynamic simulations. <i>Journal of Chemical Physics</i> , 2010, 132, 164515.	1.2	20
51	Measurements of structural and electrostatic parameters and surface tension of micelles of an ionic surfactant versus concentration, ionic strength of solution and temperature by small-angle neutron scattering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 131, 137-144.	2.3	19
52	Aggregation in C60/NMP, C60/NMP/water and C60/NMP/Toluene Mixtures. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2008, 16, 610-615.	1.0	19
53	Sedimentation stability and aging of aqueous dispersions of Laponite in the presence of cetyltrimethylammonium bromide. <i>Physical Review E</i> , 2013, 88, 052301.	0.8	19
54	SAXS Combined with UV-vis Spectroscopy and QELS: Accurate Characterization of Silver Sols Synthesized in Polymer Matrices. <i>Nanoscale Research Letters</i> , 2016, 11, 35.	3.1	19

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55	Structural characterization of concentrated aqueous ferrofluids. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 501, 166445.	1.0	19
56	Size dependence of the surface tension of a free surface of an isotropic fluid. <i>Physical Review E</i> , 2017, 95, 062801.	0.8	18
57	Particle assembling induced by non-homogeneous magnetic field at transformer oil-based ferrofluid/silicon crystal interface by neutron reflectometry. <i>Applied Surface Science</i> , 2019, 473, 912-917.	3.1	18
58	Liquid-gas critical phenomena under confinement: small-angle neutron scattering studies of CO ₂ in aerogel. <i>Journal of Molecular Liquids</i> , 2005, 120, 7-9.	2.3	17
59	Unified Picture for the Classical Laws of Batschinski and the Rectilinear Diameter for Molecular Fluids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6061-6068.	1.2	17
60	Physical properties of liquid NaF-LiF-LaF ₃ and NaF-LiF-NdF ₃ eutectic alloys. <i>Journal of Nuclear Materials</i> , 2013, 433, 329-333.	1.3	17
61	Experimental investigation of C ₆₀ /NMP/toluene solutions by UV-Vis spectroscopy and small-angle neutron scattering. <i>Journal of Surface Investigation</i> , 2013, 7, 1-4.	0.1	17
62	SANS contrast variation study of magnetoferritin structure at various iron loading. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 377, 77-80.	1.0	17
63	Can we treat ab initio atomic charges and bond orders as conformation-independent electronic structure descriptors?. <i>RSC Advances</i> , 2016, 6, 74785-74796.	1.7	17
64	Virial and high-density expansions for the Lee-Yang lattice gas. <i>Physical Review E</i> , 2016, 94, 012143.	0.8	17
65	Structural transformations in bulk and matrix-isolated methanol from measured and computed infrared spectroscopy. <i>Journal of Molecular Liquids</i> , 2016, 216, 53-58.	2.3	17
66	Divergence of activity expansions: Is it actually a problem?. <i>Physical Review E</i> , 2017, 96, 062115.	0.8	17
67	The Structure of Polymer Clusters in Aqueous Solutions of Hydroxypropyl Cellulose. <i>Ukrainian Journal of Physics</i> , 2019, 64, 238.	0.1	17
68	Self-diffusion of water in gelatin gels: 2. Quasi-elastic neutron scattering data. <i>Polymer</i> , 1991, 32, 3295-3298.	1.8	16
69	Structure, dynamics and optical properties of fullerenes C ₆₀ , C ₇₀ . <i>Carbon</i> , 1999, 37, 835-838.	5.4	16
70	Comparative structural characterization of the water dispersions of detonation nanodiamonds by small-angle neutron scattering. <i>Journal of Surface Investigation</i> , 2012, 6, 821-824.	0.1	16
71	Absorption Characteristics of Fullerene C ₆₀ in N-Methyl-2-Pyrrolidone/Toluene Mixture. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012, 20, 341-344.	1.0	16
72	Universality classes and critical phenomena in confined liquid systems. <i>Condensed Matter Physics</i> , 2013, 16, 23008.	0.3	16

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73	Influence of ions on the critical behavior of a binary mixture near the consolute point. International Journal of Thermophysics, 1996, 17, 137-145.	1.0	15
74	Generalized principle of corresponding states and the scale invariant mean-field approach. Journal of Chemical Physics, 2010, 133, 134101.	1.2	15
75	Comparative structure analysis of magnetic fluids at interface with silicon by neutron reflectometry. Applied Surface Science, 2015, 352, 49-53.	3.1	15
76	Gibbs Adsorption Impact on a Nanodroplet Shape: Modification of Young's Laplace Equation. Journal of Physical Chemistry B, 2018, 122, 3176-3183.	1.2	15
77	Modeling fractal aggregates of polydisperse particles with tunable dimension. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 605, 125331.	2.3	15
78	STRUCTURE, VIBRATIONAL, AND CALORICAL PROPERTIES OF FULLERENE C60 IN TOLUENE SOLUTION. Fullerenes, Nanotubes, and Carbon Nanostructures, 2001, 9, 167-174.	0.6	14
79	Equation of state for C60 toluene solution. Journal of Molecular Liquids, 2003, 105, 149-155.	2.3	14
80	Magnetic fluids with excesses of a surfactant according to the data of small-angle neutron scattering. Journal of Surface Investigation, 2009, 3, 161-164.	0.1	14
81	Relaxation and equilibrium properties of dilute aqueous solutions of alcohols. Russian Chemical Bulletin, 2016, 65, 851-876.	0.4	14
82	Effect of surfactant excess on the stability of low-polarity ferrofluids probed by small-angle neutron scattering. Crystallography Reports, 2016, 61, 121-125.	0.1	14
83	Impact of poly (ethylene glycol) on the structure and interaction parameters of aqueous micellar solutions of anionic surfactants. Journal of Molecular Liquids, 2019, 276, 806-811.	2.3	14
84	Structural organization of colloidal solution of fullerene C60 in water by data of small angle neutron scattering. Journal of Molecular Liquids, 2006, 127, 73-78.	2.3	13
85	Colloidal structure and stabilization mechanism of aqueous solutions of unmodified fullerene C60. Crystallography Reports, 2007, 52, 487-491.	0.1	13
86	Structural flexibility of DNA-like conformers of canonical 2'-deoxyribonucleosides. Physical Chemistry Chemical Physics, 2012, 14, 15554.	1.3	13
87	Structure and Interaction of Poly(ethylene glycol) in Aqueous Solutions. Small Angle Neutron Scattering Data. Macromolecular Symposia, 2014, 335, 20-23.	0.4	13
88	Structure of Polyglycols Doped by Nanoparticles with Anisotropic Shape. Springer Proceedings in Physics, 2015, , 165-198.	0.1	13
89	Anomalous propagation and scattering of sound in 2-propanol water solution near its singular point. Journal of Molecular Liquids, 2017, 235, 24-30.	2.3	13
90	Nanocrystallite liquid phase transition in porous matrices with chemically functionalized surfaces. Physical Chemistry Chemical Physics, 2019, 21, 24674-24683.	1.3	13

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91	Phase Equilibrium, Thermodynamic Limit, and Melting Temperature in Nanocrystals. Ukrainian Journal of Physics, 2018, 63, 1036.	0.1	13
92	Effect of Surfactant Excess in Non-Polar Ferrofluids Probed by Small-Angle Neutron Scattering. Solid State Phenomena, 2009, 152-153, 198-201.	0.3	12
93	Regulation of dispersion of carbon nanotubes in binary water+1-Cyclohexyl-2-pyrrolidone mixtures. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 59, 150-157.	1.3	12
94	Study of the complexation between Landomycin A and C60 fullerene in aqueous solution. RSC Advances, 2016, 6, 81231-81236.	1.7	12
95	On a specific state of C60 fullerene in N-methyl-2-pyrrolidone solution: Mass spectrometric study. Applied Surface Science, 2019, 481, 1566-1572.	3.1	12
96	Heteroassociation of antitumor agent doxorubicin with bovine serum albumin in the presence of gold nanoparticles. Journal of Molecular Liquids, 2019, 284, 633-638.	2.3	12
97	Application of a territorial remote radiation monitoring system at the Chernobyl nuclear accident site. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	12
98	Character of the thermal motion of water molecules according to the data on quasielastic incoherent scattering of slow neutrons. Journal of Structural Chemistry, 2006, 47, 48-55.	0.3	11
99	Ripple Phase Behavior in Mixtures of DPPC/POPC lipids: SAXS and SANS Studies. Journal of Physics: Conference Series, 2012, 351, 012010.	0.3	11
100	Lyotropic model membrane structures of hydrated DPPC: DSC and small-angle X-ray scattering studies of phase transitions in the presence of membranotropic agents. Phase Transitions, 2015, 88, 582-592.	0.6	11
101	Equation of state for all regimes of a fluid: From gas to liquid. Physical Review E, 2018, 98, .	0.8	11
102	Temperature-dependent fractal structure of particle clusters in aqueous ferrofluids by small-angle scattering. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 613, 126090.	2.3	11
103	Lattice Gas Condensation and its Relation to the Divergence of Virial Expansions in the Powers of Activity. Ukrainian Journal of Physics, 2017, 62, 533-538.	0.1	11
104	Jamming and percolation of parallel squares in single-cluster growth model. Condensed Matter Physics, 2014, 17, 33006.	0.3	11
105	Analysis of 2-deoxy-D-ribofuranose molecule conformational capacity with the quantum-mechanical density functional method. Biopolymers and Cell, 2011, 27, 74-81.	0.1	11
106	Self-diffusion in water. Journal of Structural Chemistry, 2006, 47, S50-S60.	0.3	10
107	Thermophysical properties of carbon nanotubes in toluene under high pressure. Journal of Molecular Liquids, 2009, 150, 1-3.	2.3	10
108	Small-angle neutron scattering by fractal clusters in aqueous dispersions of nanodiamonds. Physics of Particles and Nuclei Letters, 2011, 8, 1046-1048.	0.1	10

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109	Dispersion of Electron-Phonon Resonances in One-Layer Graphene and Its Demonstration in Micro-Raman Scattering. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8671-8675.	0.9	10
110	Structure of the magnetite-oleic acid-decalin magnetic fluid from small-angle neutron scattering data. <i>Physics of the Solid State</i> , 2014, 56, 91-96.	0.2	10
111	Structural aspects of magnetic fluid stabilization in aqueous agarose solutions. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 431, 16-19.	1.0	10
112	Evidence for a first-order phase transition at the divergence region of activity expansions. <i>Physical Review E</i> , 2018, 98, .	0.8	10
113	Structural characterization of aqueous magnetic fluids with nanomagnetite of different origin stabilized by sodium oleate. <i>Journal of Molecular Liquids</i> , 2020, 312, 113430.	2.3	10
114	Melting thermodynamics of nanocrystals. <i>Journal of Physical Studies</i> , 2018, 22, .	0.2	10
115	Structure correlations of water molecules in a concentrated aqueous solution of ethanol. <i>Journal of Molecular Liquids</i> , 2005, 120, 15-17.	2.3	9
116	Contrast Variation in Small-Angle Neutron Scattering from Magnetic Fluids Stabilized by Different Mono-Carboxylic Acids. <i>Solid State Phenomena</i> , 0, 152-153, 186-189.	0.3	9
117	The Remote Radiation Monitoring of Highly Radioactive Sports in the Chernobyl Exclusion Zone. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018, 90, 437-442.	2.0	9
118	Asymptotics of activity series at the divergence point. <i>Pramana - Journal of Physics</i> , 2018, 91, 1.	0.9	9
119	Revealing the structure of composite nanodiamond-graphene oxide aqueous dispersions by small-angle scattering. <i>Diamond and Related Materials</i> , 2020, 103, 107670.	1.8	9
120	The Viscosity Anomaly Near the Lower Critical Consolute Point. <i>International Journal of Thermophysics</i> , 1999, 20, 889-898.	1.0	8
121	Viscosity of liquid In-Se-Tl alloys in the miscibility gap region. <i>Journal of Alloys and Compounds</i> , 2008, 452, 174-177.	2.8	8
122	X-ray scattering and volumetric P-V-T studies of the dimyristoylphosphatidylcholine-water system. <i>Journal of Surface Investigation</i> , 2011, 5, 7-10.	0.1	8
123	Quantum mechanical interpretation of the IR Spectrum of 2-deoxy-D-ribose in the oh group stretching vibration region. <i>Journal of Applied Spectroscopy</i> , 2011, 78, 751-754.	0.3	8
124	Reorganization of the cluster state in a C60/N-Methylpyrrolidone/water solution: Comparative characteristics of dynamic light scattering and small-angle neutron scattering data. <i>Journal of Surface Investigation</i> , 2013, 7, 1133-1136.	0.1	8
125	“Doughnut”-nuclear shapes in head-on heavy ion collisions. <i>Physical Review C</i> , 2014, 89, .	1.1	8
126	Concentration dependence of physical properties of liquid Na-Li-NdF ₃ alloys. <i>Nuclear Engineering and Design</i> , 2014, 270, 60-64.	0.8	8

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127	Flocculative ability of uncharged and hydrolyzed graft and linear polyacrylamides. Journal of Molecular Liquids, 2017, 227, 26-30.	2.3	8
128	Structural reorganization of fullerene C70 in N-methyl-2-pyrrolidone/toluene mixtures. Journal of Molecular Liquids, 2018, 272, 948-952.	2.3	8
129	Structural Aspects of Fe ₃ O ₄ /CoFe ₂ O ₄ Magnetic Nanoparticles According to X-Ray and Neutron Scattering. Journal of Surface Investigation, 2018, 12, 737-743.	0.1	8
130	On Enhancement of the Adsorption-Layer Effect at the Metallic Electrode~Liquid Electrolyte Interface in Specular Neutron Reflectometry Experiments. Journal of Surface Investigation, 2018, 12, 651-657.	0.1	8
131	Non-uniform distribution of ferrofluids spherical particles under external electric field: Theoretical description. Journal of Molecular Liquids, 2019, 278, 491-495.	2.3	8
132	Light Scattering by Aqueous Solutions of Alcohols Near Their Singular Points. Ukrainian Journal of Physics, 2014, 59, 881-883.	0.1	8
133	Analysis of small-angle neutron scattering from very dilute magnetic fluids. Journal of Surface Investigation, 2010, 4, 976-981.	0.1	7
134	Evaluation of the curvature-correction term from the equation of state of nuclear matter. Physical Review C, 2014, 90, .	1.1	7
135	The Complexation of the Anticancer Drug ThioTEPA with Methylated DNA Base Guanine: Combined Ab Initio and QTAIM Investigation. Molecular Informatics, 2014, 33, 104-114.	1.4	7
136	Mechanistic interpretation of the varying selectivity of Cesium-137 and potassium uptake by radish (<i>Raphanus sativus</i> L.) under field conditions near Chernobyl. Journal of Environmental Radioactivity, 2016, 152, 85-91.	0.9	7
137	Structure and physical properties of ternary NaF~Li~LnF ₃ (Ln = La, Nd) systems of eutectic compositions. Physics and Chemistry of Liquids, 2016, 54, 717-726.	0.4	7
138	Structure analysis of aqueous ferrofluids at interface with silicon: neutron reflectometry data. Journal of Physics: Conference Series, 2017, 848, 012015.	0.3	7
139	On the Impact of Polyethylene Glycol on the Structure of Aqueous Micellar Solutions of Sodium Oleate According to Small-Angle Neutron Scattering. Journal of Surface Investigation, 2018, 12, 1142-1148.	0.1	7
140	The dataset of covalent bond lengths resulting from the first-principle calculations. Computational and Theoretical Chemistry, 2019, 1163, 112508.	1.1	7
141	Sedimentation of a suspension of rods: Monte Carlo simulation of a continuous two-dimensional problem. Physical Review E, 2019, 99, 052135.	0.8	7
142	Diluted and concentrated organosols of fullerene C60 in the toluene~acetonitrile solvent system as studied by diverse experimental methods. Fullerenes Nanotubes and Carbon Nanostructures, 2021, 29, 315-330.	1.0	7
143	Small-Angle Scattering in Structural Research of Nanodiamond Dispersions. Springer Proceedings in Physics, 2019, , 201-223.	0.1	7
144	Raman spectra and non-empirical calculations of dimethylformamide molecular clusters structure. Vibrational Spectroscopy, 2021, 117, 103315.	1.2	7

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145	Analysis of small-angle neutron scattering from Fe ¹⁸ Cr ¹⁰ Mn ¹⁶ Ni ^{0.5} N and Fe ²¹ Cr ¹⁰ Mn ¹⁷ Ni ^{0.5} C austenites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999, 264, 286-290.	2.6	6
146	SANS studies of critical phenomena in ternary mixtures. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s546-s548.	1.1	6
147	Experimental studies of phase equilibria in high-temperature ternary immiscible metallic melts. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3310-3313.	1.5	6
148	Vacancies in a strongly strained crystal at low temperatures. <i>Physics of the Solid State</i> , 2008, 50, 2270-2274.	0.2	6
149	Small-angle neutron scattering contrast variation on magnetite-myristic acid-benzene magnetic fluid. <i>Journal of Surface Investigation</i> , 2009, 3, 1-4.	0.1	6
150	Role of vacancies of a strongly strained crystal in the melting process. <i>Physics of the Solid State</i> , 2010, 52, 712-717.	0.2	6
151	Structural changes in chlorpropamide at high pressure. <i>Journal of Surface Investigation</i> , 2012, 6, 951-953.	0.1	6
152	Changes in the Area per Lipid Molecule by P [∞] V [∞] T and SANS Investigations. <i>Macromolecular Symposia</i> , 2014, 335, 58-61.	0.4	6
153	Structure of amyloid aggregates of lysozyme from small-angle X-ray scattering data. <i>Physics of the Solid State</i> , 2014, 56, 129-133.	0.2	6
154	Consideration of diffuse scattering in the analysis of specular neutron reflection at the magnetic fluid-silicon interface. <i>Journal of Surface Investigation</i> , 2015, 9, 320-325.	0.1	6
155	Impact of a physiological medium on the aggregation state of C60 and C70 fullerenes. <i>Journal of Surface Investigation</i> , 2016, 10, 1125-1128.	0.1	6
156	Monte Carlo studies of optical transmission of anisotropic suspensions. <i>Journal of Molecular Liquids</i> , 2018, 272, 1025-1029.	2.3	6
157	SANS analysis of aqueous dispersions of Eu- and Gd-grafted nanodiamond particles. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020, 28, 272-276.	1.0	6
158	Neutron Studies of the Structure of Non-Polar Magnetic Fluids with Surfactant Excess. <i>Ukrainian Journal of Physics</i> , 2013, 58, 1143-1148.	0.1	6
159	Aging of Aqueous Laponite Dispersions in the Presence of Sodium Polystyrene Sulfonate. <i>Ukrainian Journal of Physics</i> , 2014, 59, 589-595.	0.1	6
160	Anomalous Ultrasound Attenuation near the Critical Point of n-Pentanol [∞] Nitromethane Solution Stratification. <i>Ukrainian Journal of Physics</i> , 2016, 61, 375-380.	0.1	6
161	Fullerene Clustering in C70/N-Methyl-2-Pyrrolidone/Toluene Liquid System. <i>Ukrainian Journal of Physics</i> , 2018, 63, 116.	0.1	6
162	Structure and Intermolecular Interactions in Aqueous Solutions of Polyethylene Glycol. <i>Molecules</i> , 2022, 27, 2573.	1.7	6

#	ARTICLE	IF	CITATIONS
163	Molecular dynamics in aqueous solutions of β -cyclodextrin. Journal of Molecular Liquids, 2005, 120, 67-69.	2.3	5
164	Conductometric and Gravimetric Studies of the Kinetics of Graphite Sedimentation in Aqueous Dispersions. Colloid Journal, 2005, 67, 755-759.	0.5	5
165	Liquid-liquid phase equilibrium in ternary immiscible In-Tl-Te melts. Journal of Molecular Liquids, 2006, 127, 33-36.	2.3	5
166	Radiation modification of polyvinyl chloride nanocomposites with multi-walled carbon nanotubes. Materialwissenschaft Und Werkstofftechnik, 2010, 41, 675-681.	0.5	5
167	The studies of structural aspects of the cluster formation in silicate glasses doped with cerium and titanium oxides by small-angle neutron scattering. Physics of the Solid State, 2011, 53, 2431-2434.	0.2	5
168	Peculiarities in the behavior of the entropy diameter for molecular liquids as the reflection of molecular rotations and the excluded volume effects. Journal of Molecular Liquids, 2011, 161, 19-29.	2.3	5
169	On determination of the structural parameters of polydisperse magnetic fluids by small-angle neutron scattering. Journal of Surface Investigation, 2013, 7, 99-104.	0.1	5
170	Studying the structural features of oxide nanoclusters of cerium and titanium in a silicate glass by means of the small-angle neutron scattering. Journal of Surface Investigation, 2014, 8, 98-103.	0.1	5
171	Molecular mechanism of the viscosity of aqueous glucose solutions. Russian Journal of Physical Chemistry A, 2017, 91, 89-93.	0.1	5
172	Relaxation and Vitrification Processes of Disordered Iron Based Systems. Springer Proceedings in Physics, 2018, , 331-372.	0.1	5
173	Self-Organization of Pristine C60 Fullerene and its Complexes with Chemotherapy Drugs in Aqueous Solution as Promising Anticancer Agents. Springer Proceedings in Physics, 2018, , 3-22.	0.1	5
174	Disruption of amyloid aggregates by artificial ferritins. Journal of Magnetism and Magnetic Materials, 2019, 473, 215-220.	1.0	5
175	Fractal aggregation in silica sols in basic tetraethoxysilane/ethanol/water solutions by small-angle neutron scattering. Journal of Molecular Liquids, 2020, 304, 112736.	2.3	5
176	Energy Spectra Correlation of Vibrational and Electronic Excitations and Their Dispersion in Graphite and Graphene. Ukrainian Journal of Physics, 2018, 63, 431.	0.1	5
177	Dissipative Rayleigh-Taylor Instability and its Contribution to the Formation of an Interface between Biomaterials at Their Electric Welding. Ukrainian Journal of Physics, 2018, 63, 747.	0.1	5
178	Cluster-cluster interaction in nanodiamond hydrosols by small-angle scattering. Journal of Molecular Liquids, 2022, 354, 118816.	2.3	5
179	<title>Raman study of molecular associations in methanol</title>. , 2004, , .		4
180	Specifics of C60 Fullerene Cluster Formation in a Solvent Mixture of Toluene and N-Methyl-2-Pyrrolidone. Journal of Surface Investigation, 2018, 12, 872-876.	0.1	4

#	ARTICLE	IF	CITATIONS
181	Regulation of nanoporous structure of detonation nanodiamond powders by pressure: SANS study. Fullerenes Nanotubes and Carbon Nanostructures, 2022, 30, 171-176.	1.0	4
182	Mechanisms of Heteroassociation of Ceftriaxone and Doxorubicin Drugs with Bovine Serum Albumin. Springer Proceedings in Physics, 2022, , 219-245.	0.1	4
183	Neutron reflectometry for structural studies in thin films of polymer nanocomposites. Modeling. Nuclear Physics and Atomic Energy, 2018, 19, 376-382.	0.2	4
184	Sensitivity of Small-Angle Neutron Scattering Method at Determining the Structural Parameters in Magnetic Fluids with Low Magnetite Concentrations. Ukrainian Journal of Physics, 2013, 58, 735-741.	0.1	4
185	Two-step percolation in aggregating systems. Condensed Matter Physics, 2017, 20, 13602.	0.3	4
186	Influence Of Fluorination On The Physical Properties Of Normal Aliphatic Alcohols. Ukrainian Journal of Physics, 2015, 60, 428-432.	0.1	4
187	The Model Calculation of the Phase (P-T) Diagram for Fullerene C60. Fullerenes, Nanotubes, and Carbon Nanostructures, 2000, 8, 615-622.	0.6	3
188	Investigation of the critical region in monotectic systems by viscosity measurements. Journal of Physics: Conference Series, 2008, 98, 022007.	0.3	3
189	Calculating the chemical potential of components of a binary solution in a plane-parallel pore. Russian Journal of Physical Chemistry A, 2010, 84, 225-228.	0.1	3
190	Thermodynamic analysis of multifragmentation phenomena. Physical Review C, 2011, 84, .	1.1	3
191	The studies of nanoparticles formed in silicate glasses doped by cerium and titanium oxides by means of small angle neutron scattering. Journal of Physics: Conference Series, 2012, 351, 012017.	0.3	3
192	Global Isomorphism Approach: Main Results and Perspectives. Springer Proceedings in Physics, 2015, , 53-75.	0.1	3
193	Radiation influence on the temperature-dependent parameters of fluids. Physical Review E, 2016, 93, 032133.	0.8	3
194	Concentration Dependences of the Dynamic Properties of NaCl Aqueous Solution on the Basis of the Results of Molecular Dynamics and Quasi-Elastic Neutron Scattering Researches. Ukrainian Journal of Physics, 2015, 60, 503-510.	0.1	3
195	Small-Angle X-Ray Scattering and Differential Scanning Calorimetry Studies of DPPC Multilamellar Structures Containing Membranotropic Agents of Different Chemical Nature. Ukrainian Journal of Physics, 2015, 60, 905-909.	0.1	3
196	Impact of Aggregation on the Percolation Anisotropy on a Square Lattice in an Elongated Geometry. Ukrainian Journal of Physics, 2015, 60, 910-916.	0.1	3
197	Refractometry of Water-Ethanol Solutions near Their Contraction Point. Ukrainian Journal of Physics, 2015, 60, 1108-1114.	0.1	3
198	Relaxation Time of Concentration Fluctuations in a Vicinity of the Critical Stratification Point of the Binary Mixture n-Pentanol-Nitromethane. Ukrainian Journal of Physics, 2016, 61, 879-885.	0.1	3

#	ARTICLE	IF	CITATIONS
199	Neutron studies of self-diffusion of water molecules in electrolyte solutions. Journal of Structural Chemistry, 1992, 33, 61-67.	0.3	2
200	Anisotropic and isotropic phases of polymer melts. Journal of Molecular Liquids, 2005, 120, 139-141.	2.3	2
201	Critical phenomena in high-energy lepton- and hadron-induced reactions. Physics of Particles and Nuclei, 2010, 41, 924-927.	0.2	2
202	Using torsional oscillations to study liquid-solid transitions. Technical Physics Letters, 2010, 36, 279-281.	0.2	2
203	Diagnostic and analysis of aggregation stability of magnetic fluids for biomedical applications by small-angle neutron scattering. Journal of Physics: Conference Series, 2012, 345, 012028.	0.3	2
204	Changes in the crystalline structure of chlorpropamide at high pressures and temperatures. Journal of Surface Investigation, 2013, 7, 1143-1147.	0.1	2
205	Models of hydration and isomeric transitions of glucose molecules in aqueous solutions. Russian Journal of Physical Chemistry A, 2014, 88, 803-806.	0.1	2
206	Large-scaled clusters in aqueous glucose solutions. Colloid Journal, 2015, 77, 261-266.	0.5	2
207	Physics of Liquid Matter: Modern Problems. Springer Proceedings in Physics, 2015, , .	0.1	2
208	Study of silicate glasses with PbS nanoparticles using small-angle neutron scattering. Journal of Surface Investigation, 2016, 10, 187-190.	0.1	2
209	Crystallisation of aqueous ferrofluids at the free liquid interface investigated by specular and off-specular x-ray reflectometry. Journal of Physics: Conference Series, 2018, 994, 012008.	0.3	2
210	On the in-depth density distribution of layered assemblies of Au nanoparticles on planar interfaces. Chemical Physics Letters, 2018, 706, 601-606.	1.2	2
211	The covalent radii derived from the first-principle data. Molecular Physics, 2020, 118, e1742937.	0.8	2
212	Saccharide Solutions under the Magnetic Field Action. Ukrainian Journal of Physics, 2016, 61, 583-587.	0.1	2
213	Isoscattering point in SANS contrast variation study of aqueous magnetic fluids. Soft Materials, 2022, 20, S44-S49.	0.8	2
214	Influence Of Radiation On The Local Structure In A NaCl Aqueous Solution. Ukrainian Journal of Physics, 2015, 60, 422-427.	0.1	2
215	Investigation of the cluster structure in aqueous suspensions of nanodiamonds by small-angle neutron scattering. Nuclear Physics and Atomic Energy, 2015, 16, 198-202.	0.2	2
216	Phase Transitions at Dehydration of Glucose. Ukrainian Journal of Physics, 2017, 62, 502-507.	0.1	2

#	ARTICLE	IF	CITATIONS
235	Physical Properties of Liquid Eutectic Ionic Systems NaF ⁺ LaF ₃ and NaF ⁺ NdF ₃ . Ukrainian Journal of Physics, 2014, 59, 769-774.	0.1	1
236	Anomalous Asymptotic of Small-Angle Neutron Scattering Intensity. Ukrainian Journal of Physics, 2015, 60, 314-317.	0.1	1
237	Phonon Energy Spectra and Stationary Elastic Waves in Single-Walled Carbon Nanotubes and Graphite Bulk Crystals. Ukrainian Journal of Physics, 2015, 60, 925-931.	0.1	1
238	Computer Simulation of Evaporation Process of NaCl Aqueous Solution. Ukrainian Journal of Physics, 2016, 61, 812-818.	0.1	1
239	Evaluation of Arterial Wall Elasticity during Ultra-sound Diagnostics. Ukrainian Journal of Physics, 2017, 62, 378-381.	0.1	1
240	Temperature Dependence of the Bulk Elasticity Modulus of Aliphatic Alcohols and Their Fluorinated Analogs. Ukrainian Journal of Physics, 2018, 63, 134.	0.1	1
241	Anomalies of the Sound Absorption Coefficient for Binary Solutions with a Critical Stratification Temperature. Ukrainian Journal of Physics, 2018, 63, 308.	0.1	1
242	Interfacial Layers and the Shear Elasticity of the Collagen ⁺ Water System. Ukrainian Journal of Physics, 2019, 64, 34.	0.1	1
243	Oligomeric and Polymeric Ionic Liquids: Engineering Architecture and Morphology. Springer Proceedings in Physics, 2019, , 93-118.	0.1	1
244	Application of Mayer ⁺ s activity expansions to the Ising problem. Physica A: Statistical Mechanics and Its Applications, 2022, 598, 127307.	1.2	1
245	Electric field-induced assembly of magnetic nanoparticles from dielectric ferrofluids on planar interface. Journal of Molecular Liquids, 2022, 362, 119773.	2.3	1
246	Special features of the behaviour of a polymer-solvent system near the critical coexistence point. Polymer Science USSR, 1987, 29, 1712-1717.	0.2	0
247	Diffusion of a precipitant in a polymeric gel. Polymer Science USSR, 1991, 33, 1728-1735.	0.2	0
248	Study of micellar solutions of ethoxylated diisononylphenol by small-angle neutron scattering. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1995, 94, 53-57.	2.3	0
249	Effect of absorption of low-molecular-weight compounds by some polymer flocculants. Macromolecular Symposia, 1997, 114, 263-269.	0.4	0
250	Small-Angle Neutron Scattering in Austenitic Fe-18Cr-10Mn-16Ni-0.5N and Fe-21Cr-10Mn-17Ni-0.5C Steels. Materials Science Forum, 1999, 318-320, 315-320.	0.3	0
251	Elasticity of a cryo-insulation polymer foam coating in the temperature range 8 ⁺ 293 K. Technical Physics, 1999, 44, 239-241.	0.2	0
252	Density profile of liquid in finite-size system. Journal of Molecular Liquids, 2003, 105, 127-130.	2.3	0

#	ARTICLE	IF	CITATIONS
253	The influence of pressure on freezing in molecular liquids. Journal of Molecular Liquids, 2005, 120, 59-61.	2.3	0
254	Neutron scattering in β -cyclodextrin solutions. Journal of Molecular Liquids, 2006, 127, 44-46.	2.3	0
255	Flicker-noise in liquids. Journal of Molecular Liquids, 2006, 127, 87-89.	2.3	0
256	Gravimetric and electric conductivity studies of settling in binary graphite and kaolin suspensions. Journal of Molecular Liquids, 2006, 127, 132-133.	2.3	0
257	The influence of fluctuation inhomogeneity in a volume phase on one-layer adsorption. Russian Journal of Physical Chemistry A, 2012, 86, 632-634.	0.1	0
258	The heavy ion irradiation influence on the thermodynamic parameters of liquids in human body. Biophysics (Russian Federation), 2014, 59, 420-424.	0.2	0
259	Evaporation of a sessile droplet resting on a thin vanadium dioxide film. AIP Conference Proceedings, 2019, . .	0.3	0
260	Neutron investigation of interaction between anionic surfactant micelles and poly (ethylene glycol) polymer brush system. Nuclear Physics and Atomic Energy, 2021, 22, 149-156.	0.2	0
261	Axisymmetric Normal Sound Waves in an Infinite Cylindrical Three-Layer Waveguide with a Thin Intermediate Layer. Acoustical Physics, 2000, 46, 233.	0.2	0
262	Entropy Production in the Diffusion-Driven Regime of Droplet Evaporation. Ukrainian Journal of Physics, 2013, 58, 201-204.	0.1	0
263	Neutron and Optical Researches of Multicomponent Crystalline $Y_3Al_5O_{12}:Ce^{3+}/Lu_2O_3$ and $Lu_3Al_5O_{12}:Ce^{3+}/Lu_2O_3$ luminophors. Ukrainian Journal of Physics, 2014, 59, 901-905.	0.1	0
264	Calculation of Equilibrium Constant for Dimerization of Heavy Water Molecules in Saturated Vapor. Ukrainian Journal of Physics, 2015, 60, 263-267.	0.1	0
265	Radiation-Induced Damages in Multi-Walled Carbon Nanotubes at Electron Irradiation. Ukrainian Journal of Physics, 2015, 60, 1150-1154.	0.1	0
266	Structure of Aqueous Monovalent Electrolyte Solutions. Ukrainian Journal of Physics, 2015, 60, 1218-1223.	0.1	0
267	Influence of irradiation on the phase equilibrium parameters in liquids. Nuclear Physics and Atomic Energy, 2016, 17, 38-46.	0.2	0
268	Influence of magnetic field to the allocation of impurity molecules in the structure of optically transparent polymer films. Polymer Journal, 2016, 38, 205-210.	0.3	0
269	Turbulence in Aqueous Glucose Solutions Induced by Magnetic Field. Ukrainian Journal of Physics, 2016, 61, 722-726.	0.1	0
270	Influence of Radiation on the Phase Transition Temperature in Liquids. Ukrainian Journal of Physics, 2016, 61, 819-825.	0.1	0

#	ARTICLE	IF	CITATIONS
271	The mechanism of spraying of paraffin-based fuel by using of plasma transferred arc. Kosmoh Nauka i Tehnologii, 2017, 23, 30-35.	0.1	0
272	Dependence of the concentrations of ¹³⁷ Cs and potassium in extracted soil solutions on soil humidity before centrifugation. Nuclear Physics and Atomic Energy, 2017, 18, 87-92.	0.2	0
273	Dielectric properties of aqueous cellulose nanocrystals and nanofibers suspensions. Journal of Physical Studies, 2018, 22, .	0.2	0
274	Investigation of Mechanisms of Potassium and Cesium-137 Uptake by Plants with Optical and Gamma Spectrometries in the Field under Water-Stressed Conditions. Ukrainian Journal of Physics, 2018, 63, 238.	0.1	0
275	Mechanism of Interaction Between the Boundary Layer of a Polymer Membrane and a Gas Environment. Ukrainian Journal of Physics, 2018, 63, 333.	0.1	0
276	Small-angle neutron scattering by liquid systems of fullerenes C ₆₀ and C ₇₀ . Nuclear Physics and Atomic Energy, 2018, 19, 252-257.	0.2	0
277	Current Problems in the Quasi-elastic Incoherent Neutron Scattering and the Collective Drift of Molecules. Springer Proceedings in Physics, 2019, , 41-72.	0.1	0
278	Electron Structure and Optical Properties of Conjugated Systems in Solutions. Springer Proceedings in Physics, 2019, , 225-248.	0.1	0
279	Collaboration with JINR as Key for Nuclear Physics Development in Ukraine. Nauka Ta Innovacii, 2020, 16, 73-82.	0.2	0
280	Collaboration with JINR as Key for Nuclear Physics Development in Ukraine. Science and Innovation, 2020, 16, 72-81.	0.2	0