

Vitaly P Zhelezny

List of Publications by Year in descending order

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papers

447
citations

949033

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939365

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g-index

67
all docs

67
docs citations

67
times ranked

293
citing authors

#	ARTICLE	IF	CITATIONS
1	Viscous behaviour of o-xylene/fullerene C60 solutions. Journal of Molecular Liquids, 2021, 328, 115416.	2.3	6
2	The effect of metal wool on the charging and discharging rate of the phase transition thermal storage material. Eastern-European Journal of Enterprise Technologies, 2021, 4, 12-20.	0.3	2
3	On the nonmonotonous behavior of the thermal properties of fullerene C60 / o-xylene solutions. Journal of Molecular Liquids, 2021, 338, 116629.	2.3	4
4	On Modelling the Viscosity of Fullerene-Containing Nanofluids. , 2021, , .		1
5	Paraffin Wax Enhanced with Carbon Nanostructures as Phase Change Materials: Preparation and Thermal Conductivity Measurement. , 2021, , .		2
6	Tetralin+fullerene C_{60} solutions for thermal management of flat-plate photovoltaic/thermal collector. Energy Conversion and Management, 2021, 248, 114799.	4.4	60
7	Temperature and concentration dependencies of the saturated vapor pressure for the solutions of nanoparticles Al ₂ O ₃ in isopropanol and fullerenes C60 in o-xylene. Journal of Molecular Liquids, 2020, 319, 114362.	2.3	5
8	A new approach for predicting the pool boiling heat transfer coefficient of refrigerant R141b and its mixtures with surfactant and nanoparticles using experimental data. Journal of Thermal Analysis and Calorimetry, 2020, 142, 2327-2339.	2.0	11
9	Investigation of Viscosity of O-xylene / Fullerene C60 Solutions. , 2020, , .		1
10	Density, specific heat capacity and viscosity of fullerene C ₆₀ solutions in tetralin. Journal of Physics: Conference Series, 2020, 1683, 032027.	0.3	1
11	An experimental study of Al ₂ O ₃ nanoparticles influence on caloric properties of propylene glycol based coolants. Eastern-European Journal of Enterprise Technologies, 2020, 2, 6-12.	0.3	0
12	A study of the influence of the fullerene C60 additives in compressor oils of various viscosities on the refrigerator performance parameters. Eastern-European Journal of Enterprise Technologies, 2020, 5, 55-62.	0.3	1
13	Investigation of Viscosity of O-xylene / Fullerene C60 Solutions. , 2020, , .		1
14	The Semi-empirical Approach for Newtonian Nanofluids Viscosity Predicting. , 2020, , .		1
15	Thermodynamic properties of isobutane/mineral compressor oil and isobutane/mineral compressor oil/fullerenes C60 solutions. International Journal of Refrigeration, 2019, 106, 153-162.	1.8	12
16	An experimental investigation and modelling of the thermal and caloric properties of nanofluids isopropyl alcohol - Al ₂ O ₃ nanoparticles. Thermochemica Acta, 2019, 678, 178296.	1.2	11
17	How does change of the bulk concentration affect the pool boiling of the refrigerant oil solutions and their mixtures with surfactant and nanoparticles?. International Journal of Heat and Mass Transfer, 2019, 137, 868-875.	2.5	8
18	An influence of Al ₂ O ₃ nanoparticles on the caloric properties and parameters of the phase transition of isopropyl alcohol in solid phase. Thermochemica Acta, 2019, 671, 170-180.	1.2	12

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19	The relationship between the surface tension and the saturated vapor pressure of model nanofluids. HolodilĖnaĖ Tehnika I TehnologĖ, 2019, 55, 40-46.	0.0	0
20	Effect of Al ₂ O ₃ . International Journal of Thermophysics, 2018, 39, 1.	1.0	11
21	Study of pool boiling process for the refrigerant R11, isopropanol and isopropanol/Al ₂ O ₃ nanofluid. International Journal of Heat and Mass Transfer, 2018, 118, 746-757.	2.5	26
22	An experimental study of the effect of nanoparticle additives to the refrigerant r141b on the pool boiling process. Eastern-European Journal of Enterprise Technologies, 2018, 4, 59-66.	0.3	4
23	Experimental study of the effect of nanoparticles of TiO ₂ on the thermophysical properties of the refrigerant R141b. Eastern-European Journal of Enterprise Technologies, 2018, 6, 33-42.	0.3	1
24	Experimental study of the effect of nanoparticles of TiO ₂ on the thermophysical properties of the refrigerant R141b. Eastern-European Journal of Enterprise Technologies, 2018, 6, 33-42.	0.3	1
25	Experimental study of the effect of nanoparticles of TiO ₂ on the thermophysical properties of the refrigerant R141b. Eastern-European Journal of Enterprise Technologies, 2018, 6, 33-42.	0.3	1
26	Experimental study of the effect of nanoparticles of TiO ₂ on the thermophysical properties of the refrigerant R141b. Eastern-European Journal of Enterprise Technologies, 2018, 6, 33-42.	0.3	1
27	A complex investigation of the nanofluids R600a-mineral oil-Al ₂ O ₃ and R600a-mineral oil-TiO ₂ . Thermophysical properties. International Journal of Refrigeration, 2017, 74, 488-504.	1.8	42
28	Ecological and energy efficiency analysis of ejector and vapor compression air conditioners. International Journal of Refrigeration, 2017, 74, 129-137.	1.8	9
29	Prediction of nanofluids properties: the density and the heat capacity. Journal of Physics: Conference Series, 2017, 891, 012347.	0.3	5
30	Research into the influence OF AL ₂ O ₃ nanoparticle admixtures on the magnitude of isopropanol molar volume. Eastern-European Journal of Enterprise Technologies, 2017, 2, 33-39.	0.3	5
31	Experimental study of heat exchange and hydrodynamics at the laminar flow of nanocoolant based on propylene glycol and Al ₂ O ₃ nanoparticles. Eastern-European Journal of Enterprise Technologies, 2017, 1, 4-12.	0.3	6
32	AN EXPERIMENTAL STUDY OF THE EFFECT OF SURFACTANT AND TiO ₂ NANOPARTICLES ADDITIVES IN R141B ON THE NUCLEATE POOL BOILING PROCESS. Promyshlennaya Teplotekhnika, 2017, 39, 37-40.	0.2	0
33	VISCOSITY OF TERNARY SOLUTIONS COMPOSED OF PROPYLENE GLYCOL, ETHANOL AND WATER. HolodilĖnaĖ Tehnika I TehnologĖ, 2016, 52, .	0.0	2
34	An experimental investigation and modelling of flow boiling heat transfer of isobutane-compressor oil solution in a horizontal smooth tube. International Journal of Refrigeration, 2015, 58, 137-145.	1.8	6
35	An influence of the nanoparticles Al ₂ O ₃ and TiO ₂ admixtures on thermophysical properties and flow boiling heat transfer coefficient of the R600a/mineral oil solutions. , 2015, , .		0
36	Nanorefrigerants application possibilities study to increase the equipment ecological-energy efficiency. Eastern-European Journal of Enterprise Technologies, 2015, 3, 32.	0.3	3

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37	A New Scaling Principlesâ€“Quantitative Structure Property Relationship Model (SP-QSPR) for Predicting the Physicochemical Properties of Substances at the Saturation Line. Journal of Chemical & Engineering Data, 2014, 59, 485-493.	1.0	19
38	Modifying gradient theory to predict the surface properties of halogenated hydrocarbons. Russian Journal of Physical Chemistry A, 2014, 88, 851-857.	0.1	2
39	Prediction of the surface tension for refrigerants and refrigerant-oil solutions (ROS). International Journal of Refrigeration, 2014, 40, 241-245.	1.8	10
40	THE LOCAL HEAT TRANSFER COEFFICIENT VARIATION AT THE BOILING OF THE ISOBUTANE/COMPRESSOR OIL SOLUTION FLOW IN THE PIPE. , 2014, , .		0
41	EFFECT OF NANOPARTICLES ON POOL BOILING CHARACTERISTICS. , 2014, , .		0
42	Methodological features in research of pool boiling processes of nanofluid isopropanol/Al ₂ O ₃ . Eastern-European Journal of Enterprise Technologies, 2014, 2, 39.	0.3	1
43	Investigation of the surface layer of dimethyl ether/triethylene glycol solutions. Eastern-European Journal of Enterprise Technologies, 2014, 5, 56.	0.3	1
44	Cubical equations of state for predicting the phase equilibria of poorly studied substances. Russian Journal of Physical Chemistry A, 2013, 87, 883-889.	0.1	4
45	SURFACE TENSION, VISCOSITY, AND THERMAL CONDUCTIVITY OF NANOLUBRICANTS AND VAPOR PRESSURE OF REFRIGERANT/NANOLUBRICANT MIXTURES. , 2011, , .		0
46	Predicting the viscosity of halogenated alkane mixtures at the boiling line. Russian Journal of Physical Chemistry A, 2010, 84, 1079-1081.	0.1	4
47	Experimental Investigation of the Enthalpy of Isobutaneâ€“Compressor Oil Solutions. Journal of Chemical & Engineering Data, 2010, 55, 1322-1326.	1.0	6
48	Influence of compressor oil admixtures on theoretical efficiency of a compressor system. International Journal of Refrigeration, 2009, 32, 1526-1535.	1.8	7
49	An experimental investigation and modelling of the viscosity refrigerant/oil solutions. International Journal of Refrigeration, 2009, 32, 1389-1395.	1.8	14
50	The temperature dependence of parachor. Russian Journal of Physical Chemistry A, 2009, 83, 182-186.	0.1	10
51	Thermophysical properties of compressor oils for refrigerating plant. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 2008, 25, 57-73.	0.7	8
52	An experimental investigation and modelling of the thermodynamic properties of isobutaneâ€“compressor oil solutions: Some aspects of experimental methodology. International Journal of Refrigeration, 2007, 30, 433-445.	1.8	29
53	An experimental investigation and modelling of the solubility, density and surface tension of 1,1,1,3,3-pentafluoropropane (R-245fa)/synthetic polyolester compressor oil solutions. Journal of Fluorine Chemistry, 2007, 128, 1029-1038.	0.9	33
54	Prediction of phase equilibria and thermodynamic properties of refrigerant/oil solutions. Fluid Phase Equilibria, 2004, 215, 29-38.	1.4	11

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55	The Methods of Prediction of the Properties for Substances on the Coexistence Curve Including Vicinity of the Critical Point. , 2004, , 163-175.		7
56	Comparison of thermophysical properties for oil/refrigerant mixtures by use of the pulse heating method. International Journal of Refrigeration, 2003, 26, 721-728.	1.8	21
57	Determination of the pseudocritical parameters for refrigerant/oil solutions. Fluid Phase Equilibria, 2003, 212, 285-302.	1.4	11
58	Phase behaviors of ammonia/R-125 mixtures. Fluid Phase Equilibria, 2001, 185, 177-188.	1.4	12
59	Saturated vapour pressure of solutions of synthetic compressor oils (XMPA) in ammonia. High Temperatures - High Pressures, 2001, 33, 707-713.	0.3	3
60	Temperature and concentration dependences of surface tension of binary mixtures of ozone-safe refrigerants. High Temperatures - High Pressures, 2001, 33, 685-691.	0.3	0
61	Prediction of the Surface Tension of Refrigerants and Their Binary Mixtures. International Journal of Thermophysics, 1999, 20, 1699-1709.	1.0	7
62	The Influence of Adsorption on PVT Measurements in the Gaseous Phase. International Journal of Thermophysics, 1999, 20, 1711-1719.	1.0	1
63	Thermal properties of HFC-134a in liquid and solid states. High Temperatures - High Pressures, 1999, 31, 169-172.	0.3	4
64	New vapour-pressure equation for nonassociated substances. High Temperatures - High Pressures, 1999, 31, 163-167.	0.3	5
65	Thermodynamic properties of polar fluids: ozone-safe refrigerants in gaseous and liquid states. High Temperatures - High Pressures, 1997, 29, 313-318.	0.3	1
66	Thermodynamic and transport properties of some alternative ozone-safe refrigerants for industrial refrigeration equipment: Study in Belarus and Ukraine. International Journal of Thermophysics, 1996, 17, 535-549.	1.0	11