

# Vitaly P Zhelezny

## List of Publications by Year in descending order

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66  
papers

447  
citations

840776

11  
h-index

839539

18  
g-index

67  
all docs

67  
docs citations

67  
times ranked

269  
citing authors

#	ARTICLE	IF	CITATIONS
1	A complex investigation of the nanofluids R600Đ°-mineral oil-Al <sub>2</sub> O <sub>3</sub> and R600Đ°-mineral oil-TiO <sub>2</sub> . Thermophysical properties. International Journal of Refrigeration, 2017, 74, 488-504.	3.4	42
2	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.	1.7	33
3	An experimental investigation and modelling of the thermodynamic properties of isobutane compressor oil solutions: Some aspects of experimental methodology. International Journal of Refrigeration, 2007, 30, 433-445.	3.4	29
4	Study of pool boiling process for the refrigerant R11, isopropanol and isopropanol/Al <sub>2</sub> O <sub>3</sub> nanofluid. International Journal of Heat and Mass Transfer, 2018, 118, 746-757.	4.8	26
5	Comparison of thermophysical properties for oil/refrigerant mixtures by use of the pulse heating method. International Journal of Refrigeration, 2003, 26, 721-728.	3.4	21
6	A New Scaling Principles 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.	1.9	19
7	An experimental investigation and modelling of the viscosity refrigerant/oil solutions. International Journal of Refrigeration, 2009, 32, 1389-1395.	3.4	14
8	Phase behaviors of ammonia/R-125 mixtures. Fluid Phase Equilibria, 2001, 185, 177-188.	2.5	12
9	Thermodynamic properties of isobutane/mineral compressor oil and isobutane/mineral compressor oil/fullerenes C <sub>60</sub> solutions. International Journal of Refrigeration, 2019, 106, 153-162.	3.4	12
10	An influence of Al <sub>2</sub> O <sub>3</sub> nanoparticles on the caloric properties and parameters of the phase transition of isopropyl alcohol in solid phase. Thermochemica Acta, 2019, 671, 170-180.	2.7	12
11	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.	2.1	11
12	Determination of the pseudocritical parameters for refrigerant/oil solutions. Fluid Phase Equilibria, 2003, 212, 285-302.	2.5	11
13	Prediction of phase equilibria and thermodynamic properties of refrigerant/oil solutions. Fluid Phase Equilibria, 2004, 215, 29-38.	2.5	11
14	Effect of Al <sub>2</sub> O <sub>3</sub> . International Journal of Thermophysics, 2018, 39, 1.	2.1	11
15	An experimental investigation and modelling of the thermal and caloric properties of nanofluids isopropyl alcohol - Al <sub>2</sub> O <sub>3</sub> nanoparticles. Thermochemica Acta, 2019, 678, 178296.	2.7	11
16	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.	3.6	11
17	The temperature dependence of parachor. Russian Journal of Physical Chemistry A, 2009, 83, 182-186.	0.6	10
18	Prediction of the surface tension for refrigerants and refrigerant-oil solutions (ROS). International Journal of Refrigeration, 2014, 40, 241-245.	3.4	10

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19	Ecological and energy efficiency analysis of ejector and vapor compression air conditioners. International Journal of Refrigeration, 2017, 74, 129-137.	3.4	9
20	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
21	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.	4.8	8
22	Prediction of the Surface Tension of Refrigerants and Their Binary Mixtures. International Journal of Thermophysics, 1999, 20, 1699-1709.	2.1	7
23	The Methods of Prediction of the Properties for Substances on the Coexistence Curve Including Vicinity of the Critical Point. , 2004, , 163-175.		7
24	Influence of compressor oil admixtures on theoretical efficiency of a compressor system. International Journal of Refrigeration, 2009, 32, 1526-1535.	3.4	7
25	Experimental Investigation of the Enthalpy of Isobutane Compressor Oil Solutions. Journal of Chemical & Engineering Data, 2010, 55, 1322-1326.	1.9	6
26	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.	3.4	6
27	Viscous behaviour of o-xylene/fullerene C60 solutions. Journal of Molecular Liquids, 2021, 328, 115416.	4.9	6
28	Tetralin + Fullerene $C_{60}$ solutions for thermal management of flat-plate photovoltaic/thermal collector. Energy Conversion and Management, 2021, 248, 114799.	9.2	6
29	Experimental study of heat exchange and hydrodynamics at the laminar flow of nanocoolant based on propylene glycol and Al <sub>2</sub> O <sub>3</sub> nanoparticles. Eastern-European Journal of Enterprise Technologies, 2017, 1, 4-12.	0.5	6
30	Prediction of nanofluids properties: the density and the heat capacity. Journal of Physics: Conference Series, 2017, 891, 012347.	0.4	5
31	Temperature and concentration dependencies of the saturated vapor pressure for the solutions of nanoparticles Al <sub>2</sub> O <sub>3</sub> in isopropanol and fullerenes C <sub>60</sub> in o-xylene. Journal of Molecular Liquids, 2020, 319, 114362.	4.9	5
32	New vapour-pressure equation for nonassociated substances. High Temperatures - High Pressures, 1999, 31, 163-167.	0.3	5
33	Research into the influence OF Al <sub>2</sub> O <sub>3</sub> nanoparticle admixtures on the magnitude of isopropanol molar volume. Eastern-European Journal of Enterprise Technologies, 2017, 2, 33-39.	0.5	5
34	Predicting the viscosity of halogenated alkane mixtures at the boiling line. Russian Journal of Physical Chemistry A, 2010, 84, 1079-1081.	0.6	4
35	Cubical equations of state for predicting the phase equilibria of poorly studied substances. Russian Journal of Physical Chemistry A, 2013, 87, 883-889.	0.6	4
36	On the nonmonotonous behavior of the thermal properties of fullerene C <sub>60</sub> / o-xylene solutions. Journal of Molecular Liquids, 2021, 338, 116629.	4.9	4

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37	Thermal properties of HFC-134a in liquid and solid states. High Temperatures - High Pressures, 1999, 31, 169-172.	0.3	4
38	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.	0.5	4
39	Saturated vapour pressure of solutions of synthetic compressor oils (XMPA) in ammonia. High Temperatures - High Pressures, 2001, 33, 707-713.	0.3	3
40	Nanorefrigerants application possibilities study to increase the equipment ecological-energy efficiency. Eastern-European Journal of Enterprise Technologies, 2015, 3, 32.	0.5	3
41	Modifying gradient theory to predict the surface properties of halogenated hydrocarbons. Russian Journal of Physical Chemistry A, 2014, 88, 851-857.	0.6	2
42	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.	0.5	2
43	Paraffin Wax Enhanced with Carbon Nanostructures as Phase Change Materials: Preparation and Thermal Conductivity Measurement. , 2021, , .		2
44	VISCOSITY OF TERNARY SOLUTIONS COMPOSED OF PROPYLENE GLYCOL, ETHANOL AND WATER. Holodilnâ Tehnika I Tehnologii, 2016, 52, .	0.0	2
45	The Influence of Adsorption on PVT Measurements in the Gaseous Phase. International Journal of Thermophysics, 1999, 20, 1711-1719.	2.1	1
46	Thermodynamic properties of polar fluids: ozone-safe refrigerants in gaseous and liquid states. High Temperatures - High Pressures, 1997, 29, 313-318.	0.3	1
47	Experimental study of the effect of nanoparticles of $\text{CO}_2$ on the thermophysical properties of the refrigerant R141b. Eastern-European Journal of Enterprise Technologies, 2018, 6, 33-42.	0.5	1
48	On Modelling the Viscosity of Fullerene-Containing Nanofluids. , 2021, , .		1
49	Methodological features in research of pool boiling processes of nanofluid isopropanol/ $\text{Al}_2\text{O}_3$ . Eastern-European Journal of Enterprise Technologies, 2014, 2, 39.	0.5	1
50	Investigation of the surface layer of dimethyl ether/triethylene glycol solutions. Eastern-European Journal of Enterprise Technologies, 2014, 5, 56.	0.5	1
51	Density, specific heat capacity and viscosity of fullerene $\text{C}_{60}$ solutions in tetralin. Journal of Physics: Conference Series, 2020, 1683, 032027.	0.4	1
52	A study of the influence of the fullerene $\text{C}_{60}$ additives in compressor oils of various viscosities on the refrigerator performance parameters. Eastern-European Journal of Enterprise Technologies, 2020, 5, 55-62.	0.5	1
53	Investigation of Viscosity of O-xylene / Fullerene $\text{C}_{60}$ Solutions. , 2020, , .		1
54	The Semi-empirical Approach for Newtonian Nanofluids Viscosity Predicting. , 2020, , .		1

