Michal Fulem

List of Publications by Citations

102	1,654	24	35
papers	citations	h-index	g-index
106	1,946	3.3	4.95
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
102	New Static Apparatus and Vapor Pressure of Reference Materials: Naphthalene, Benzoic Acid, Benzophenone, and Ferrocene. *Journal of Chemical & Engineering Data*, **2006**, 51, 757-766	2.8	139
101	Bitumen and Heavy Oil Rheological Properties: Reconciliation with Viscosity Measurements. *Journal of Chemical & Engineering Data*, **2010**, 55, 1389-1397	2.8	82
100	Recommended Vapor Pressure of Solid Naphthalene. *Journal of Chemical & Engineering Data*, **2005**, 50, 1956-1970	2.8	80
99	Phase behaviour of Maya crude oil based on calorimetry and rheometry. *Fluid Phase Equilibria*, **2008** , 272, 32-41	2.5	48
98	Thermodynamic study of selected monoterpenes III. *Journal of Chemical Thermodynamics*, **2014**, 79, 280-289	2.9	41
97	Recommended vapor pressure and thermophysical data for ferrocene. *Journal of Chemical Thermodynamics*, **2013**, 57, 530-540	2.9	40
96	Heat Capacities of Tetracene and Pentacene. *Journal of Chemical & Engineering Data*, **2008**, 53, 2175-2181	2.8	40
95	Recommended vapor pressures for thiophene, sulfolane, and dimethyl sulfoxide. *Fluid Phase Equilibria*, **2011**, 303, 205-216	2.5	38
94	Phase Behavior of Athabasca Bitumen. *Journal of Chemical & Engineering Data*, **2011**, 56, 3242-3253	2.8	37
93	Vapor pressure of selected aliphatic alcohols by ebulliometry. Part 1. *Fluid Phase Equilibria*, **2010**, 298, 192-198	2.5	37
92	Heat capacities of alkanols. *Thermochimica Acta*, **2002**, 382, 119-128	2.9	37
91	Thermodynamic Properties of Selected Homologous Series of Ionic Liquids Calculated Using Molecular Dynamics. *Journal of Physical Chemistry B*, **2016**, 120, 2362-71	3.4	33
90	Thermodynamic Properties of Molecular Crystals Calculated within the Quasi-Harmonic Approximation. *Journal of Physical Chemistry A*, **2016**, 120, 2022-34	2.8	33
89	Thermodynamic study of selected monoterpenes II. *Journal of Chemical Thermodynamics*, **2014**, 79, 272-279	2.9	32
88	Evaluation of Accuracy of Ideal-Gas Heat Capacity and Entropy Calculations by Density Functional Theory (DFT) for Rigid Molecules. *Journal of Chemical & Engineering Data*, **2012**, 57, 227-232	2.8	32
87	Rheological Properties of Nanofiltered Athabasca Bitumen and Maya Crude Oil. *Energy & Fuels*, **2009**, 23, 5012-5021	4.1	32
86	State-of-the-Art Calculations of Sublimation Enthalpies for Selected Molecular Crystals and Their Computational Uncertainty. *Journal of Chemical Theory and Computation*, **2017**, 13, 2840-2850	6.4	31

85	CCSD(T)/CBS fragment-based calculations of lattice energy of molecular crystals. *Journal of Chemical Physics*, **2016**, 144, 064505	3.9	30
84	Vapor Pressure of Selected Organic Iodides. *Journal of Chemical & Engineering Data*, **2010**, 55, 4780-4784	2.8	29
83	Thermodynamic study of selected monoterpenes. *Journal of Chemical Thermodynamics*, **2013**, 60, 117-125	2.9	28
82	Vapor Pressures and Thermophysical Properties of Ethylene Carbonate, Propylene Carbonate, Valerolactone, and Butyrolactone. *Journal of Chemical & Engineering Data*, **2017**, 62, 4174-4186	2.8	27
81	Reassembling and testing of a high-precision heat capacity drop calorimeter. Heat capacity of some polyphenyls at T= 298.15 K. *Journal of Chemical Thermodynamics*, **2011**, 43, 1818-1823	2.9	27
80	Indirect Determination of Vapor Pressures by Capillary Gas Liquid Chromatography: Analysis of the Reference Vapor-Pressure Data and Their Treatment. *Journal of Chemical & Engineering Data*, **2012**, 57, 1349-1368	2.8	24
79	A similarity variable for estimating the heat capacity of solid organic compounds: Part II. Application: Heat capacity calculation for ill-defined organic solids. *Fluid Phase Equilibria*, **2008**, 268, 134-141	2.5	24
78	Phase behavior and heat capacities of the 1-benzyl-3-methylimidazolium ionic liquids. *Journal of Chemical Thermodynamics*, **2016**, 100, 124-130	2.9	23
77	Evaluation of Uncertainty of Ideal-Gas Entropy and Heat Capacity Calculations by Density Functional Theory (DFT) for Molecules Containing Symmetrical Internal Rotors. *Journal of Chemical & Engineering Data*, **2013**, 58, 1382-1390	2.8	22
76	Liquid-Phase Mutual Diffusion Coefficients for Athabasca Bitumen + Pentane Mixtures. *Journal of Chemical & Engineering Data*, **2007**, 52, 691-694	2.8	22
75	Vapour pressure and heat capacities of metal organic precursors, Y(thd)3 and Zr(thd)4. *Journal of Crystal Growth*, **2004**, 264, 192-200	1.6	22
74	Polymorphism and thermophysical properties of L- and DL-menthol. *Journal of Chemical Thermodynamics*, **2019**, 131,	2.9	21
73	New Static Apparatus for Vapor Pressure Measurements: Reconciled Thermophysical Data for Benzophenone. *Journal of Chemical & Engineering Data*, **2016**, 61, 3627-3639	2.8	20
72	Vapour pressure measurement of metal organic precursors used for MOVPE. *Journal of Chemical Thermodynamics*, **2006**, 38, 312-322	2.9	20
71	Vapor Pressures and Thermophysical Properties of Dimethyl Carbonate, Diethyl Carbonate, and Dipropyl Carbonate. *Journal of Chemical & Engineering Data*, **2017**, 62, 3206-3215	2.8	18
70	Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol. *Fluid Phase Equilibria*, **2015**, 402, 18-29	2.5	17
69	Vapor pressures and thermophysical properties of selected monoterpenoids. *Fluid Phase Equilibria*, **2015**, 406, 124-133	2.5	17
68	First-principles calculation of ideal-gas thermodynamic properties of long-chain molecules by R1SM approach-Application to n-alkanes. *Journal of Chemical Physics*, **2019**, 150, 224101	3.9	16

67	Recommended sublimation pressure and enthalpy of benzene. *Journal of Chemical Thermodynamics* , **2014**, 68, 40-47	2.9	16
66	Solid-liquid equilibrium and heat capacity trend in the alkylimidazolium PF6 series. *Journal of Molecular Liquids*, **2017**, 248, 678-687	6	15
65	Thermodynamic study of alkane-□diamines □Evidence of odd□even pattern of sublimation properties. *Fluid Phase Equilibria*, **2014**, 371, 93-105	2.5	15
64	Intramolecularly Coordinated Stannanechalcogenones: X-ray Structure of [2,6-(Me2NCH2)2C6H3](Ph)Sn?Te. *Organometallics*, **2011**, 30, 5904-5910	3.8	15
63	Heat Capacities of l-Alanine, l-Valine, l-Isoleucine, and l-Leucine: Experimental and Computational Study. *Journal of Chemical & Engineering Data*, **2020**, 65, 1833-1849	2.8	14
62	Evidence of an odd□even effect on the thermodynamic parameters of odd fluorotelomer alcohols. *Journal of Chemical Thermodynamics*, **2012**, 54, 171-178	2.9	14
61	Measurement of vapour pressure of In-based metalorganics for MOVPE. *Journal of Crystal Growth*, **2004**, 272, 42-46	1.6	14
60	Heat capacities of some phthalate esters. *Magyar Apr□ad K□elem□nyek*, **2002**, 70, 455-466	0	14
59	Vapor pressure and thermophysical properties of eugenol and (+)-carvone. *Fluid Phase Equilibria*, **2019**, 499, 112248	2.5	13
58	Heat capacities of selected cycloalcohols. *Thermochimica Acta*, **2014**, 596, 98-108	2.9	13
57	Vapor pressure of germanium precursors. *Journal of Crystal Growth*, **2008**, 310, 4720-4723	1.6	13
56	Physical stability of hydroxypropyl methylcellulose-based amorphous solid dispersions: Experimental and computational study. *International Journal of Pharmaceutics*, **2020**, 589, 119845	6.5	12
55	Cohesive properties of the crystalline phases of twenty proteinogenic □aminoacids from first-principles calculations. *Physical Chemistry Chemical Physics*, **2019**, 21, 18501-18515	3.6	11
54	Deep-Vacuum Fractionation of Heavy Oil and Bitumen, Part II: Interconversion Method. *Energy & Fuels*, **2014**, 28, 2866-2873	4.1	11
53	Vapor Pressure of Di-tert-butylsilane. *Journal of Chemical & Engineering Data*, **2005**, 50, 1613-1615	2.8	11
52	Ideal-gas thermodynamic properties of proteinogenic aliphatic amino acids calculated by R1SM approach. *Journal of Chemical Physics*, **2019**, 151, 144504	3.9	10
51	Analysis of Uncertainty in the Calculation of Ideal-Gas Thermodynamic Properties Using the One-Dimensional Hindered Rotor (1-DHR) Model. *Journal of Chemical & Engineering Data*, **2017** , 62, 445-455	2.8	9
50	Recommended vapor pressures for aniline, nitromethane, 2-aminoethanol, and 1-methyl-2-pyrrolidone. *Fluid Phase Equilibria*, **2015**, 406, 34-46	2.5	9

49	Vapor pressure, heat capacities, and phase transitions of tetrakis(tert-butoxy)hafnium. *Fluid Phase Equilibria*, **2011**, 311, 25-29	2.5	9
48	Heat capacities of alkanols: III. Some 1-alkanols from C10 to C20. *Thermochimica Acta*, **2004**, 421, 35-41	2.9	9
47	Vapor pressure predictions of multi-functional oxygen-containing organic compounds with COSMO-RS. *Atmospheric Environment*, **2016**, 133, 135-144	5.3	9
46	Reconciled thermophysical data for anthracene. *Journal of Chemical Thermodynamics*, **2019**, 129, 61-72	2.9	9
45	Impact of Hot-Melt Extrusion Processing Conditions on Physicochemical Properties of Amorphous Solid Dispersions Containing Thermally Labile Acrylic Copolymer. *Journal of Pharmaceutical Sciences* , **2020**, 109, 1008-1019	3.9	9
44	Recommended vapor pressures for acenaphthylene, fluoranthene, and fluorene. *Fluid Phase Equilibria*, **2017**, 434, 74-86	2.5	8
43	Multi-scale analysis of amorphous solid dispersions prepared by freeze drying of ibuprofen loaded acrylic polymer nanoparticles. *Journal of Drug Delivery Science and Technology*, **2019**, 53, 101182	4.5	8
42	Thermodynamic Properties of Three Pyridine Carboxylic Acid Methyl Ester Isomers. *Journal of Chemical & Engineering Data*, **2007**, 52, 580-585	2.8	8
41	Thermodynamic study of selected monoterpenes IV. *Journal of Chemical Thermodynamics*, **2020**, 144, 106013	2.9	8
40	Calorimetric and FTIR study of selected aliphatic heptanols. *Fluid Phase Equilibria*, **2016**, 423, 43-54	2.5	7
39	Vapor pressures and thermophysical properties of selected ethanolamines. *Fluid Phase Equilibria*, **2018**, 473, 245-254	2.5	7
38	Infrared spectroscopy of the symmetric branched isomers of n-heptanol. *Journal of Molecular Liquids*, **2017**, 244, 528-532	6	7
37	Vapor pressure of selected aliphatic alcohols by ebulliometry. Part 2. *Fluid Phase Equilibria*, **2010**, 298, 199-205	2.5	7
36	Vapor Pressures of Solid and Liquid Xanthene and Phenoxathiin from Effusion and Static Studies. *Journal of Chemical & Engineering Data*, **2008**, 53, 1922-1926	2.8	7
35	Effect of Isomerism on the Liquid□liquid Phase Behavior of Mixtures of 1-Alkyl-3-methylimidazolium Bis((trifluoromethyl)sulfonyl)amide Ionic Liquids with Heptanol. *Journal of Chemical & Engineering Data*, **2019**, 64, 2395-2405	2.8	6
34	Heat capacities of 2-propenol and selected cyclohexylalcohols. *Thermochimica Acta*, **2014**, 587, 67-71	2.9	5
33	Extracting Vapor Pressure Data from GLC Retention Times. Part 1: Analysis of Single Reference Approach. *Journal of Chemical & Engineering Data*, **2017**, 62, 3542-3550	2.8	5
32	Single-Crystal-to-Single-Crystal Transition in an Enantiopure [7]Helquat Salt: The First Observation of a Reversible Phase Transition in a Helicene-Like Compound. *Chemistry - A European Journal*, **2015** , 21, 13508-12	4.8	5

31	Probing the Accuracy of First-Principles Modeling of Molecular Crystals: Calculation of Sublimation Pressures. *Crystal Growth and Design*, **2019**, 19, 808-820	3.5	5
30	Calorimetric and FTIR study of selected aliphatic octanols. *Journal of Thermal Analysis and Calorimetry*, **2018**, 134, 2157-2170	4.1	4
29	Vapor pressures of dimethylcadmium, trimethylbismuth, and tris(dimethylamino)antimony. *Fluid Phase Equilibria*, **2013**, 360, 106-110	2.5	4
28	Vapor Pressure of Trimethylantimony and tert-Butyldimethylantimony. *Journal of Chemical & Engineering Data*, **2010**, 55, 362-365	2.8	4
27	Vapor Pressure of Tetrakis(dimethylamino)germanium. *Journal of Chemical & Engineering Data*, **2010**, 55, 4095-4097	2.8	4
26	Thermodynamic study of acetamides. *Journal of Molecular Liquids*, **2020**, 319, 114019	6	4
25	Comparative Study of DSC-Based Protocols for API-Polymer Solubility Determination. *Molecular Pharmaceutics*, **2021**, 18, 1742-1757	5.6	4
24	Vapor Pressures and Thermophysical Properties of 1-Heptanol, 1-Octanol, 1-Nonanol, and 1-Decanol: Data Reconciliation and PC-SAFT Modeling. *Journal of Chemical & Engineering Data*, **2021**, 66, 805-821	2.8	4
23	Phosphonium carbosilane dendrimers - interaction with a simple biological membrane model. *Physical Chemistry Chemical Physics*, **2018**, 20, 14753-14764	3.6	4
22	Heat capacities of selected active pharmaceutical ingredients. *Journal of Chemical Thermodynamics*, **2021**, 163, 106585	2.9	4
21	Organohydridosilanes containing Y,C,Y-chelating ligands: Reactivity and vapour pressure studies. *Journal of Organometallic Chemistry*, **2014**, 772-773, 1-6	2.3	3
20	Measurement of low-temperature heat capacity by relaxation technique: Calorimeter performance testing and heat capacity of benzo[b]fluoranthene, benzo[k]fluoranthene, and indeno[1,2,3-cd]pyrene. *Journal of Chemical Thermodynamics*, **2020**, 142, 105964	2.9	3
19	Heat Capacities of l-Histidine, l-Phenylalanine, l-Proline, l-Tryptophan and l-Tyrosine. *Molecules*, **2021**, 26,	4.8	3
18	An environmentally benign methodology to elaborating polymer nanocomposites with tunable properties using core-shell nanoparticles and cellulose nanocrystals. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 553, 169-179	5.1	3
17	Vapor Pressure of 4-Ethylmorpholine Revisited: Thermodynamically Consistent Vapor Pressure Equation. *Journal of Chemical & Engineering Data*, **2019**, 64, 1605-1610	2.8	2
16	A combined thermodynamic and crystallographic study of 1,3-diisopropylnaphthalene. *Journal of Chemical Thermodynamics*, **2020**, 150, 106193	2.9	2
15	Glucose-modified carbosilane dendrimers: Interaction with model membranes and human serum albumin. *International Journal of Pharmaceutics*, **2020**, 579, 119138	6.5	2
14	Vapor pressure and thermal properties of heavy oil distillation cuts. *Fuel*, **2016**, 181, 503-521	7.1	2

13	Ball milling and hot-melt extrusion of indomethacin-L-arginine-vinylpyrrolidone-vinyl acetate copolymer: Solid-state properties and dissolution performance.. *International Journal of Pharmaceutics*, **2021**, 613, 121424	6.5	2
12	Vapor Pressures and Thermophysical Properties of Dimethoxymethane, 1,2-Dimethoxyethane, 2-Methoxyethanol, and 2-Ethoxyethanol: Data Reconciliation and Perturbed-Chain Statistical Associating Fluid Theory Modeling. *Journal of Chemical & Engineering Data*, **2021**, 66, 2640-2654	2.8	2
11	Extracting Vapor Pressure Data from Gas−Liquid Chromatography Retention Times. Part 2: Analysis of Double Reference Approach. *Journal of Chemical & Engineering Data*, **2018**,	2.8	2
10	Heat Capacity and Phase Behavior of Selected Oligo(ethylene glycol)s. *Journal of Chemical & Engineering Data*, **2019**, 64, 2742-2749	2.8	1
9	Heat capacities of selected chlorohydrocarbons. *Fluid Phase Equilibria*, **2012**, 336, 128-136	2.5	1
8	Vapor pressure and thermophysical properties of explosive taggants. *Chemical Thermodynamics and Thermal Analysis*, **2021**, 3-4, 100020		1
7	Comparison between two multicomponent drug delivery systems based on PEGylated-poly (l-lactide-co-glycolide) and superparamagnetic nanoparticles: Nanoparticulate versus nanocluster systems. *Journal of Drug Delivery Science and Technology*, **2021**, 64, 102643	4.5	1
6	API solubility in semi-crystalline polymer: Kinetic and thermodynamic phase behavior of PVA-based solid dispersions. *International Journal of Pharmaceutics*, **2022**, 121855	6.5	1
5	Regression against Temperature of Gas−Liquid Chromatography Retention Factors. Van't Hoff Analysis. *Journal of Chemical & Engineering Data*, **2020**, 65, 3109-3120	2.8	0
4	Heat Capacities of l-Arginine, l-Aspartic Acid, l-Glutamic Acid, l-Glutamine, and l-Asparagine. *International Journal of Thermophysics*, **2021**, 42, 1	2.1	0
3	Vapor Pressures of (3-(Dimethylamino)propyl)dimethylindium, (tert-Butylimino)bis(diethylamino)cyclopentadienyltantalum, and (tert-Butylimino)tris(ethylmethylamino)tantalum. *Journal of Chemical & Engineering Data*, **2014**, 59, 4179-4183	2.8	
2	CHAPTER 17. Calculation of Thermodynamic Functions from Volumetric Properties **2014**, 476-492		
1	Polymorphism of anhydrous oxalic acid unravelled. *Journal of Chemical Thermodynamics*, **2021**, 160, 106488	2.8	