

Ville Alopaeus

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158
papers

2,436
citations

23
h-index

42
g-index

162
ext. papers

2,790
ext. citations

3.8
avg, IF

5.19
L-index

#	Paper	IF	Citations
158	Modelling aerosol transport and virus exposure with numerical simulations in relation to SARS-CoV-2 transmission by inhalation indoors. <i>Safety Science</i> , 2020 , 130, 104866	5.8	193
157	Simulation of the population balances for liquid-liquid systems in a nonideal stirred tank. Part 2: Parameter fitting and the use of the multiblock model for dense dispersions. <i>Chemical Engineering Science</i> , 2002 , 57, 1815-1825	4.4	158
156	Simulation of the population balances for liquid-liquid systems in a nonideal stirred tank. Part 1: Description and qualitative validation of the model. <i>Chemical Engineering Science</i> , 1999 , 54, 5887-5899	4.4	131
155	Modelling local bubble size distributions in agitated vessels. <i>Chemical Engineering Science</i> , 2007 , 62, 721-740	4.4	121
154	Validation of bubble breakage, coalescence and mass transfer models for gas-liquid dispersion in agitated vessel. <i>Chemical Engineering Science</i> , 2006 , 61, 218-228	4.4	120
153	CFD modeling of radial spreading of flow in trickle-bed reactors due to mechanical and capillary dispersion. <i>Chemical Engineering Science</i> , 2009 , 64, 207-218	4.4	75
152	Solubility of Organosolv Lignin in γ -Valerolactone/Water Binary Mixtures. <i>ChemSusChem</i> , 2016 , 9, 2939-2947	4.7	52
151	Modeling method for combining fluid dynamics and algal growth in a bubble column photobioreactor. <i>Chemical Engineering Journal</i> , 2013 , 229, 559-568	14.7	51
150	The Henry's law constant of N ₂ O and CO ₂ in aqueous binary and ternary amine solutions (MEA, DEA, DIPA, MDEA, and AMP). <i>Fluid Phase Equilibria</i> , 2011 , 311, 59-66	2.5	51
149	Solution of population balances with breakage and agglomeration by high-order moment-conserving method of classes. <i>Chemical Engineering Science</i> , 2006 , 61, 6732-6752	4.4	47
148	Modelling mass transfer in an aerated 0.2m ³ vessel agitated by Rushton, Phasejet and Combijet impellers. <i>Chemical Engineering Journal</i> , 2008 , 142, 95-108	14.7	44
147	Improved Hydrodynamic Model for Wetting Efficiency, Pressure Drop, and Liquid Holdup in Trickle-Bed Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 8436-8444	3.9	36
146	A Model for Chlorine Dioxide Delignification of Chemical Pulp. <i>Journal of Wood Chemistry and Technology</i> , 2010 , 30, 230-268	2	32
145	Novel micro-distillation column for process development. <i>Chemical Engineering Research and Design</i> , 2009 , 87, 705-710	5.5	32
144	Vapor-Liquid Equilibria, Excess Enthalpy, and Density of Aqueous γ -Valerolactone Solutions.. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 881-890	2.8	30
143	Dynamic modeling of local reaction conditions in an agitated aerobic fermenter. <i>AIChE Journal</i> , 2006 , 52, 1673-1689	3.6	28
142	Hydrogen solubility in heavy oil systems: Experiments and modeling. <i>Fuel</i> , 2014 , 137, 393-404	7.1	27

141	Solubility of carbon dioxide in aqueous solutions of diisopropanolamine and methyldiethanolamine. <i>Fluid Phase Equilibria</i> , 2010 , 293, 101-109	2.5	27
140	Numerical solution of moment-transformed population balance equation with fixed quadrature points. <i>Chemical Engineering Science</i> , 2006 , 61, 4919-4929	4.4	27
139	Measurements and modeling of CO ₂ solubility in 1,8-diazabicyclo-[5.4.0]-undec-7-ene-glycerol solutions. <i>Fluid Phase Equilibria</i> , 2014 , 374, 25-36	2.5	25
138	Compartmental modeling of large stirred tank bioreactors with high gas volume fractions. <i>Chemical Engineering Journal</i> , 2018 , 334, 2319-2334	14.7	25
137	Experimental and Theoretical Thermodynamic Study of Distillable Ionic Liquid 1,5-Diazabicyclo[4.3.0]non-5-enium Acetate. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 10445-10454	3.9	24
136	Catalyst Screening and Kinetic Modeling for CO Production by High Pressure and Temperature Reverse Water Gas Shift for Fischer-Tropsch Applications. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13262-13272	3.9	23
135	An Analytical Model for Capillary Pressure Saturation Relation for Gas-Liquid System in a Packed-Bed of Spherical Particles. <i>Transport in Porous Media</i> , 2009 , 77, 17-40	3.1	23
134	Lignin oxidation mechanisms under oxygen delignification conditions. Part 3. Reaction pathways and modeling. <i>Holzforschung</i> , 2011 , 65,	2	22
133	A new simple approach for the scale-up of aerated stirred tanks. <i>Chemical Engineering Research and Design</i> , 2015 , 95, 150-161	5.5	21
132	Heavy oil characterization method for PC-SAFT. <i>Fuel</i> , 2014 , 133, 216-223	7.1	21
131	Characteristics of liquid and tracer dispersion in trickle-bed reactors: Effect on CFD modeling and experimental analyses. <i>Computers and Chemical Engineering</i> , 2011 , 35, 41-49	4	21
130	Solution of population balances with growth and nucleation by high order moment-conserving method of classes. <i>Chemical Engineering Science</i> , 2007 , 62, 2277-2289	4.4	21
129	Chemical Recovery of γ -Valerolactone/Water Biorefinery. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 15147-15158	3.9	20
128	Hydrogen solubility in furfural and 2-propanol: Experiments and modeling. <i>Journal of Chemical Thermodynamics</i> , 2017 , 112, 1-6	2.9	19
127	Development of a unique modular distillation column using 3D printing. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016 , 109, 136-148	3.7	19
126	Vapor Pressures, Densities, and PC-SAFT Parameters for 11 Bio-compounds. <i>International Journal of Thermophysics</i> , 2019 , 40, 1	2.1	19
125	Analysis of stirred tanks with two-zone models. <i>AIChE Journal</i> , 2009 , 55, 2545-2552	3.6	19
124	Feasibility of thermal separation in recycling of the distillable ionic liquid [DBNH][OAc] in cellulose fiber production. <i>Chemical Engineering Research and Design</i> , 2016 , 114, 287-298	5.5	19

123	Investigation of drag models in CFD modeling and comparison to experiments of liquid-solid fluidized systems. <i>International Journal of Mineral Processing</i> , 2012 , 104-105, 58-70		18
122	Measurements of H ₂ S solubility in aqueous diisopropanolamine solutions and vapour pressure of diisopropanolamine. <i>Fluid Phase Equilibria</i> , 2013 , 338, 164-171	2.5	17
121	A dynamic model for plug flow reactor state profiles. <i>Computers and Chemical Engineering</i> , 2008 , 32, 1494-1506	4	17
120	Approximate high flux corrections for multicomponent mass transfer models and some explicit methods. <i>Chemical Engineering Science</i> , 1999 , 54, 4267-4271	4.4	17
119	Application of the compartmental model to the gas-liquid precipitation of CO ₂ -Ca(OH) ₂ aqueous system in a stirred tank. <i>AIChE Journal</i> , 2017 , 63, 378-386	3.6	16
118	Ternary and Binary LLE Measurements for Solvent (4-Methyl-2-pentanone and 2-Methyl-2-butanol) + Furfural + Water between 298 and 401 K. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 903-911	2.8	16
117	A comprehensive thermodynamic study of heat stable acetic acid salt of monoethanolamine. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 22, 313-324	4.2	16
116	Thermodynamics of aqueous solutions of methyldiethanolamine and diisopropanolamine. <i>Fluid Phase Equilibria</i> , 2010 , 299, 51-59	2.5	16
115	Modeling of nickel-based hydrotalcite catalyst coated on heat exchanger reactors for CO ₂ methanation. <i>Chemical Engineering Journal</i> , 2018 , 349, 694-707	14.7	16
114	Ternary and binary LLE measurements for solvent (2-methyltetrahydrofuran and cyclopentyl methyl ether) + furfural + water between 298 and 343 K. <i>Journal of Chemical Thermodynamics</i> , 2017 , 110, 127-136	2.9	14
113	Vapor-Liquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing Methyl Isobutyl Ketone (MIBK) and 2-Butanol, tert-Pentanol, or 2-Ethyl-1-hexanol. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3092-3101	2.8	14
112	A calculation method for multicomponent mass transfer coefficient correlations. <i>Computers and Chemical Engineering</i> , 1999 , 23, 1177-1182	4	14
111	Detailed Modeling of Kraft Pulping Chemistry. Delignification. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12977-12985	3.9	13
110	Vapor pressure, vapor-liquid equilibria, liquid-liquid equilibria and excess enthalpy of the system consisting of isophorone, furfural, acetic acid and water. <i>Chemical Engineering Science</i> , 2018 , 176, 19-34	4.4	13
109	Modeling of Gas-Liquid Packed-Bed Reactors with Momentum Equations and Local Interaction Closures. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 8189-8198	3.9	13
108	Mass-transfer calculation methods for transient diffusion within particles. <i>AIChE Journal</i> , 2000 , 46, 2369-2372	3.2	13
107	Model for Degradation of Galactoglucomannan in Hot Water Extraction Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 10338-10344	3.9	12
106	The moment method for one-dimensional dynamic reactor models with axial dispersion. <i>Computers and Chemical Engineering</i> , 2011 , 35, 423-433	4	12

105	The Kinetics and Stoichiometry of the Reaction between Hypochlorous Acid and Chlorous Acid in Mildly Acidic Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 6280-6286	3.9	12
104	Solubility of hydrogen in bio-oil compounds. <i>Journal of Chemical Thermodynamics</i> , 2016 , 102, 406-412	2.9	12
103	Population balance based modeling of changes in cellulose molecular weight distribution during ageing. <i>Cellulose</i> , 2015 , 22, 151-163	5.5	10
102	Mathematical model of precipitation of magnesium carbonate with carbon dioxide from the magnesium hydroxide slurry. <i>Computers and Chemical Engineering</i> , 2016 , 87, 180-189	4	10
101	Dew points of pure DBN and DBU and vapor-liquid equilibria of water+DBN and water+DBU systems for cellulose solvent recycling. <i>Fluid Phase Equilibria</i> , 2016 , 408, 79-87	2.5	10
100	Physical Properties of 7-Methyl-1,5,7-triazabicyclo[4.4.0]dec-5-ene (mTBD). <i>International Journal of Thermophysics</i> , 2019 , 40, 1	2.1	10
99	Control of reflux and reboil flow rates for milli and micro distillation. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 753-760	5.5	10
98	Distillable Protic Ionic Liquid 2-(Hydroxy)ethylammonium Acetate (2-HEAA): Density, Vapor Pressure, Vapor-Liquid Equilibrium, and Solid-Liquid Equilibrium. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 19322-19330	3.9	10
97	Vapor-Liquid Equilibrium at 350 K, Excess Molar Enthalpies at 298 K, and Excess Molar Volumes at 298 K of Binary Mixtures Containing Ethyl Acetate, Butyl Acetate, and 2-Butanol. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1011-1019	2.8	10
96	The role of Donnan effect in kraft cooking liquor impregnation and hot water extraction of wood. <i>Holzforschung</i> , 2013 , 67, 511-521	2	10
95	Vapor-Liquid Equilibrium for Methoxymethane + Methyl Formate, Methoxymethane + Hexane, and Methyl Formate + Methanol. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2634-2640	2.8	10
94	Phase equilibria of binary systems of 3-methylthiophene with four different hydrocarbons. <i>Fluid Phase Equilibria</i> , 2010 , 288, 155-160	2.5	10
93	Modeling outdoors algal cultivation with compartmental approach. <i>Chemical Engineering Journal</i> , 2015 , 259, 945-960	14.7	9
92	Quaternary and ternary LLE measurements for solvent (2-methyltetrahydrofuran and cyclopentyl methyl ether) + furfural + acetic acid + water between 298 and 343 K. <i>Journal of Chemical Thermodynamics</i> , 2018 , 119, 61-75	2.9	9
91	Quaternary, Ternary, and Binary LLE Measurements for 2-Methoxy-2-methylpropane + Furfural + Acetic Acid + Water at Temperatures between 298 and 307 K. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2458-2466	2.8	9
90	Isothermal vapor-liquid equilibrium and excess molar enthalpies of the binary mixtures furfural+methyl isobutyl ketone, +2-butanol and +2-methyl-2-butanol. <i>Fluid Phase Equilibria</i> , 2014 , 372, 85-99	2.5	9
89	Measurements and modeling of LLE and HE for (methanol + 2,4,4-trimethyl-1-pentene), and LLE for (water + methanol + 2,4,4-trimethyl-1-pentene). <i>Journal of Chemical Thermodynamics</i> , 2015 , 85, 120-128	2.9	9
88	Vapor-Liquid Equilibrium for Methoxymethane + Thiophene, + Diethylsulfide, + 2-Methyl-2-propanethiol and 1-Hexene, + 1-Propanethiol. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 956-963	2.8	9

87	Modelling of crystal growth of KDP in a 100dm ³ suspension crystallizer using combination of CFD and multiblock model. <i>Chemical Engineering Research and Design</i> , 2010 , 88, 1297-1303	5.5	9
86	Solution of population balances by high order moment-conserving method of classes: reconstruction of a non-negative density distribution. <i>Chemical Engineering Science</i> , 2008 , 63, 2741-2751	4.4	9
85	Modelling a molten salt thermal energy system A validation study. <i>Applied Energy</i> , 2019 , 233-234, 126-145	5.7	9
84	Modelling and dynamic simulation of a large MSF plant using local phase equilibrium and simultaneous mass, momentum, and energy solver. <i>Computers and Chemical Engineering</i> , 2017 , 97, 242-258	4.8	8
83	Population balance model and experimental validation for reactive dissolution of particle agglomerates. <i>Computers and Chemical Engineering</i> , 2018 , 108, 240-249	4	8
82	A modified continuous flow apparatus for gas solubility measurements at high pressure and temperature with camera system. <i>Fluid Phase Equilibria</i> , 2014 , 382, 150-157	2.5	8
81	Analysis of concentration polydispersity in mixed liquid-liquid systems. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 612-618	5.5	8
80	Vapor-Liquid Equilibria, Excess Enthalpy, and Excess Volume of Binary Mixtures Containing an Alcohol (1-Butanol, 2-Butanol, or 2-Methyl-2-butanol) and 2-Ethoxy-2-methylbutane. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3502-3509	2.8	8
79	Appropriate Simplifications in Calculation of Mass Transfer in a Multicomponent Rate-Based Distillation Tray Model. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 4336-4345	3.9	8
78	Vapor-Liquid Equilibrium of Ionic Liquid 7-Methyl-1,5,7-triazabicyclo[4.4.0]dec-5-enium Acetate and Its Mixtures with Water. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 2405-2421	2.8	7
77	Detailed modeling of the kraft pulping chemistry: carbohydrate reactions. <i>AIChE Journal</i> , 2020 , 66, e16258	5.8	7
76	The effect of microwave on the crystallization process of magnesium carbonate from aqueous solutions. <i>Powder Technology</i> , 2018 , 328, 358-366	5.2	7
75	Comparative study: Absorption enthalpy of carbon dioxide into aqueous diisopropanolamine and monoethanolamine solutions and densities of the carbonated amine solutions. <i>Fluid Phase Equilibria</i> , 2014 , 376, 85-95	2.5	7
74	Hydrogen Solubility of Shale Oil Containing Polar Phenolic Compounds. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 8738-8747	3.9	7
73	Comparison and validation of CFD models in liquid-solid suspensions. <i>Canadian Journal of Chemical Engineering</i> , 2011 , 89, 696-706	2.3	7
72	Isobaric vapor-liquid equilibrium for binary systems containing benzothiophene. <i>Fluid Phase Equilibria</i> , 2011 , 307, 180-184	2.5	7
71	Modeling and Simulation of an Industrial Trickle-Bed Reactor for Benzene Hydrogenation: Model Validation against Plant Data. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 1866-1872	3.9	7
70	Phase equilibria on five binary systems containing 1-butanethiol and 3-methylthiophene in hydrocarbons. <i>Fluid Phase Equilibria</i> , 2010 , 293, 157-163	2.5	7

69	Utilization of population balances in simulation of liquid-liquid systems in mixed tanks. <i>Chemical Engineering Communications</i> , 2003 , 190, 1468-1484	2.2	7
68	Moment based weighted residual methodNew numerical tool for a nonlinear multicomponent chromatographic general rate model. <i>Computers and Chemical Engineering</i> , 2013 , 53, 153-163	4	6
67	A novel continuous flow apparatus with a video camera system for high pressure phase equilibrium measurements. <i>Fluid Phase Equilibria</i> , 2013 , 356, 291-300	2.5	6
66	Hydrogen solubility measurements of analyzed tall oil fractions and a solubility model. <i>Journal of Chemical Thermodynamics</i> , 2017 , 105, 15-20	2.9	6
65	VaporLiquid Equilibrium for Dimethyl Disulfide + Butane, + trans-But-2-ene, + 2-Methylpropane, + 2-Methylpropene, + Ethanol, and 2-Ethoxy-2-methylpropane. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 2501-2510	2.8	6
64	Phase equilibria on binary systems containing diethyl sulfide. <i>Fluid Phase Equilibria</i> , 2011 , 301, 200-205	2.5	6
63	VapourLiquid equilibrium for the systems diethyl sulphide+1-butene, +cis-2-butene, +2-methylpropane, +2-methylpropene, +n-butane, +trans-2-butene. <i>Fluid Phase Equilibria</i> , 2010 , 291, 180-187	2.5	6
62	VaporLiquid Equilibrium for the Systems trans-2-Butene + Methanol, + 1-Propanol, + 2-Propanol, + 2-Butanol, and + 2-Methyl-2-propanol at 364.5 K. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 607-612	2.8	6
61	VaporLiquid Equilibrium for 1-Butene + Methanol, + 1-Propanol, + 2-Propanol, + 2-Butanol, and 2-Methyl-2-propanol (TBA) at 364.5 K. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 1829-1835	2.8	6
60	A cellular automata model for liquid distribution in trickle bed reactors. <i>Chemical Engineering Science</i> , 2006 , 61, 4930-4943	4.4	6
59	On approximate calculation of multicomponent mass transfer fluxes. <i>Computers and Chemical Engineering</i> , 2002 , 26, 461-466	4	6
58	A high-order moment-conserving method of classes (HMMC) based population balance model for mechanical flotation cells. <i>Minerals Engineering</i> , 2017 , 108, 36-52	4.9	5
57	The use of microplants in process developmentCase study of etherification of 2-ethoxy-2-methylbutane. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013 , 74, 75-82	3.7	5
56	Measurement of activity coefficient at infinite dilution for some bio-oil components in water and mass transfer study of bubbles in the dilutor. <i>Fluid Phase Equilibria</i> , 2015 , 392, 1-11	2.5	5
55	VaporLiquid Equilibrium, Excess Molar Enthalpies, and Excess Molar Volumes of Binary Mixtures Containing 2-Ethoxy-2-methylpropane or 2-Ethoxy-2-methylbutane and Acetonitrile or Propanenitrile. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 943-950	2.8	5
54	Isothermal Binary VaporLiquid Equilibrium for 2-Methylpropane and n-Butane with 1,2-Ethanedithiol and 2-Methyl-2-propanethiol. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 291-296	2.8	5
53	VaporLiquid Equilibrium for Tetrahydrothiophene + n-Butane, + trans-2-Butene, + 2-Methylpropane, and + 2-Methylpropene. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1311-1317	2.8	5
52	Phase equilibrium measurements for systems containing propanenitrile with tert-butyl ethyl ether and C4-hydrocarbons. <i>Fluid Phase Equilibria</i> , 2010 , 299, 148-160	2.5	5

51	Phase equilibria for systems containing dimethyl disulfide and diethyl disulfide with hydrocarbons at 368.15K. <i>Fluid Phase Equilibria</i> , 2010 , 293, 175-181	2.5	5
50	Vapor-Liquid Equilibrium for the cis-2-Butene + Methanol, + 2-Propanol, + 2-Butanol, + 2-Methyl-2-propanol Systems at 364.5 K. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 1539-1544	2.8	5
49	Physicochemical Modeling for Hot Water Extraction of Birch Wood. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 11062-11073	3.9	5
48	Design of Equilibrium Cells for Phase Equilibria and PVT Measurements in Large Ranges of Temperatures and Pressures. I. Vapor-Liquid-Liquid Equilibria. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2700-2711	2.8	5
47	Isobaric Vapor-Liquid Equilibrium of Furfural + γ -Valerolactone at 30 kPa and Isothermal Liquid-Liquid Equilibrium of Carbon Dioxide + γ -Valerolactone + Water at 298 K. <i>Journal of Chemical & Engineering Data</i> , 2018 ,	2.8	5
46	Quaternary, Ternary and Binary LLE Measurements for 2-Methoxy-2-methylbutane + Furfural + Acetic Acid + Water at Temperatures between 298 and 341 K. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 3730-3739	2.8	4
45	Prototyping a calorimeter mixing cell with direct metal laser sintering. <i>Chemical Engineering Research and Design</i> , 2016 , 108, 146-151	5.5	4
44	Modeling of Mass Transfer and Reactions in Anisotropic Biomass Particles with Reduced Computational Load. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 4096-4103	3.9	4
43	Solubility of carbon monoxide in bio-oil compounds. <i>Journal of Chemical Thermodynamics</i> , 2017 , 105, 296-311	2.9	4
42	Chlorate Formation in Chlorine Dioxide Delignification—An Analysis via Elementary Kinetic Modeling. <i>Journal of Wood Chemistry and Technology</i> , 2009 , 29, 191-213	2	4
41	Vapor-Liquid equilibrium for the binary systems tetrahydrothiophene + toluene and tetrahydrothiophene + o-xylene at 368.15 K and 383.15 K. <i>Fluid Phase Equilibria</i> , 2010 , 296, 4-8	2.5	4
40	Physicochemical Modeling for Pressurized Hot Water Extraction of Spruce Wood. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16664-16674	3.9	4
39	A comprehensive study of CO ₂ solubility in aqueous 2-HEAA and MEA + 2-HEAA solutions — Measurements and modeling. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 42, 296-306	4.2	3
38	Temperature and Pressure Dependence of Density of a Shale Oil and Derived Thermodynamic Properties. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5128-5135	3.9	3
37	110th Anniversary: Critical Properties and High Temperature Vapor Pressures for Furan, 2-Methylfuran, 2-Methoxy-2-methylpropane, 2-Ethoxy-2-methylbutane, n-Hexane, and Ethanol and Bubble Points of Mixtures with a New Apparatus. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 22350-22362	3.9	3
36	A new moment analysis method to estimate the characteristic parameters in chromatographic general rate model. <i>Computers and Chemical Engineering</i> , 2013 , 55, 50-60	4	3
35	Vapor-Liquid Equilibrium for Thiophene + Butane, + trans-But-2-ene, + 2-Methylpropane, and + 2-Methylpropene. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 614-621	2.8	3
34	Three-Phase CFD-Model for Trickle Bed Reactors. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2012 , 13,	1.8	3

33	Infinite dilution activity coefficient and vapour liquid equilibrium measurements for dimethylsulphide and tetrahydrothiophene with hydrocarbons. <i>Fluid Phase Equilibria</i> , 2010 , 295, 17-25	2.5	3
32	Vapor-Liquid Equilibrium for the Systems 2-Methylpropane + Methanol, + 2-Propanol, + 2-Butanol, and + 2-Methyl-2-propanol at 364.5 K. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 913-918	2.8	3
31	Modeling surfactant and drop size dynamics in polydisperse liquid-liquid systems with population balances. <i>Chemical Engineering Science</i> , 2022 , 248, 117269	4.4	3
30	CPMAS ¹³ C NMR Analysis of Fully Bleached Eucalypt Pulp Samples: Links to Handsheet Hygroexpansivity and Strength Properties. <i>Journal of Applied Sciences</i> , 2009 , 9, 3991-3998	0.3	3
29	Densities, Viscosities, and Thermal Conductivities of the Ionic Liquid 7-Methyl-1,5,7-triazabicyclo[4.4.0]dec-5-enium Acetate and Its Mixtures with Water. <i>International Journal of Thermophysics</i> , 2020 , 41, 1	2.1	3
28	Vapor- liquid equilibrium for the n-dodecane- π -phenol and n-hexadecane- π -phenol systems at 523 K and 573 K. <i>Fluid Phase Equilibria</i> , 2021 , 537, 112991	2.5	3
27	Toward solvent screening in the extractive desulfurization using ionic liquids: QSPR modeling and experimental validations. <i>Fuel</i> , 2021 , 302, 121159	7.1	3
26	Micro-scale piloting of a process for production of 2-methoxy-2,4,4-trimethylpentane. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 122, 143-154	3.7	2
25	Isothermal and Isobaric Vapor-Liquid Equilibrium and Excess Molar Enthalpy of the Binary Mixtures of 2-Methoxy-2-methylpropane + 2-Methyl-2-butanol or + 2-Butanol. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 2655-2664	2.8	2
24	Application of GaInSn Liquid Metal Alloy Replacing Mercury in a Phase Equilibrium Cell: Vapor Pressures of Toluene, Hexylbenzene, and 2-Ethyl-naphthalene. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 3270-3276	2.8	2
23	Hydrodeoxygenation Model Compounds π -Heptalactone and π -Nonalactone: Density from 293 to 473 K and H ₂ Solubility from 479 to 582 K. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 2764-2773	2.8	2
22	Analytical time-stepping solution of the discretized population balance equation. <i>Computers and Chemical Engineering</i> , 2020 , 135, 106741	4	2
21	Study of CO ₂ Absorption into Phase Change Solvents MAPA and DEEA. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 2261-2271	2.8	2
20	Modeling of alkaline extraction chemistry and kinetics of softwood kraft pulp. <i>Holzforschung</i> , 2014 , 68, 733-746	2	2
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14	CFD analysis of laboratory scale phase equilibrium cell operation. <i>Review of Scientific Instruments</i> , 2017 , 88, 105110	1.7	1
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