Ville Alopaeus

List of Publications by Year in Descending Order

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	Application-Related Consideration of the Thermal Stability of [mTBDH][OAc] Compared to Amidine-Based Ionic Liquids in the Presence of Various Amounts of Water. *Industrial & Engineering Chemistry Research*, **2022**, 61, 259-268	3.9	2
157	Liquid–liquid equilibria in binary and ternary systems of phenol + hydrocarbons (n-dodecane or n-hexadecane) and water + phenol + hydrocarbons (n-dodecane or n-hexadecane) at temperatures between 298K and 353K. *Fluid Phase Equilibria*, **2022**, 556, 113402	2.5	0
156	Modeling surfactant and drop size dynamics in polydisperse liquid-liquid systems with population balances. *Chemical Engineering Science*, **2022**, 248, 117269	4.4	3
155	Modelling the kraft pulping process on a fibre scale by considering the intrinsic heterogeneous nature of the lignocellulosic feedstock. *Chemical Engineering Journal*, **2022**, 438, 135548	14.7	2
154	Vapor- liquid equilibrium for the n-dodecane + phenol and n-hexadecane + phenol systems at 523 K and 573 K. *Fluid Phase Equilibria*, **2021**, 537, 112991	2.5	3
153	Liquid–liquid Equilibria for the n-Pentyl acetate, n-Hexyl acetate, n-Pentanol, or n-Hexanol + Furfural + Water Systems at 298 and 323 K. *Journal of Chemical & Engineering Data*, **2021**, 66, 210-221	2.8	1
152	Volumetric Properties of Aqueous Solutions of Zinc Sulfate at Temperatures from 298.15 to 393.15 K and Pressures up to 10 MPa. *Journal of Chemical & Engineering Data*, **2021**, 66, 45-57	2.8	2
151	Toward solvent screening in the extractive desulfurization using ionic liquids: QSPR modeling and experimental validations. *Fuel*, **2021**, 302, 121159	7.1	3
150	Vapor–liquid Equilibrium of Ionic Liquid 7-Methyl-1,5,7-triazabicyclo[4.4.0]dec-5-enium Acetate and Its Mixtures with Water. *Journal of Chemical & Engineering Data*, **2020**, 65, 2405-2421	2.8	7
149	Application of GaInSn Liquid Metal Alloy Replacing Mercury in a Phase Equilibrium Cell: Vapor Pressures of Toluene, Hexylbenzene, and 2-Ethylnaphthalene. *Journal of Chemical & Engineering Data*, **2020**, 65, 3270-3276	2.8	2
148	Modelling aerosol transport and virus exposure with numerical simulations in relation to SARS-CoV-2 transmission by inhalation indoors. *Safety Science*, **2020**, 130, 104866	5.8	193
147	Hydrodeoxygenation Model Compounds δ-Heptalactone and δ-Nonalactone: Density from 293 to 473 K and H2 Solubility from 479 to 582 K. *Journal of Chemical & Engineering Data*, **2020**, 65, 2764-2773	2.8	2
146	Analytical time-stepping solution of the discretized population balance equation. *Computers and Chemical Engineering*, **2020**, 135, 106741	4	2
145	Detailed Modeling of Kraft Pulping Chemistry. Delignification. *Industrial & Engineering Chemistry Research*, **2020**, 59, 12977-12985	3.9	13
144	Detailed modeling of the kraft pulping chemistry: carbohydrate reactions. *AICHE Journal*, **2020**, 66, e16252	3.6	7
143	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. *International Journal of Thermophysics*, **2020**, 41, 1	2.1	3
142	Approximating Catalyst Effectiveness Factors with Reaction Rate Profiles. *Catalysts*, **2019**, 9, 255	4	1

141	Physical Properties of 7-Methyl-1,5,7-triazabicyclo[4.4.0]dec-5-ene (mTBD). *International Journal of Thermophysics*, **2019**, 40, 1	2.1	10
140	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. *Industrial & Engineering Chemistry Research*, **2019**, 58, 22350-22362	3.9	3
139	Vapor Pressures, Densities, and PC-SAFT Parameters for 11 Bio-compounds. *International Journal of Thermophysics*, **2019**, 40, 1	2.1	19
138	Modelling a molten salt thermal energy system – A validation study. *Applied Energy*, **2019**, 233-234, 126-145	8.7	9
137	The effect of microwave on the crystallization process of magnesium carbonate from aqueous solutions. *Powder Technology*, **2018**, 328, 358-366	5.2	7
136	Quaternary and ternary LLE measurements for solvent (2-methyltetrahydrofuran and cyclopentyl methyl ether) + furfural + acetic acid + water between 298 and 343 K. *Journal of Chemical Thermodynamics*, **2018**, 119, 61-75	2.9	9
135	Temperature and Pressure Dependence of Density of a Shale Oil and Derived Thermodynamic Properties. *Industrial & Engineering Chemistry Research*, **2018**, 57, 5128-5135	3.9	3
134	Vapor pressure, vapor-liquid equilibria, liquid-liquid equilibria and excess enthalpy of the system consisting of isophorone, furfural, acetic acid and water. *Chemical Engineering Science*, **2018**, 176, 19-34	4.4	13
133	Population balance model and experimental validation for reactive dissolution of particle agglomerates. *Computers and Chemical Engineering*, **2018**, 108, 240-249	4	8
132	Compartmental modeling of large stirred tank bioreactors with high gas volume fractions. *Chemical Engineering Journal*, **2018**, 334, 2319-2334	14.7	25
131	Physicochemical Modeling for Pressurized Hot Water Extraction of Spruce Wood. *Industrial & Engineering Chemistry Research*, **2018**, 57, 16664-16674	3.9	4
130	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. *Journal of Chemical & Engineering Data*, **2018**,	2.8	5
129	Chemical Recovery of γ-Valerolactone/Water Biorefinery. *Industrial & Engineering Chemistry Research*, **2018**, 57, 15147-15158	3.9	20
128	Modeling of nickel-based hydrotalcite catalyst coated on heat exchanger reactors for CO2 methanation. *Chemical Engineering Journal*, **2018**, 349, 694-707	14.7	16
127	Ternary and binary LLE measurements for solvent (2-methyltetrahydrofuran and cyclopentyl methyl ether) + furfural + water between 298 and 343 K. *Journal of Chemical Thermodynamics*, **2017**, 110, 127-136	2.9	14
126	Hydrogen solubility in furfural and 2-propanol: Experiments and modeling. *Journal of Chemical Thermodynamics*, **2017**, 112, 1-6	2.9	19
125	A high-order moment-conserving method of classes (HMMC) based population balance model for mechanical flotation cells. *Minerals Engineering*, **2017**, 108, 36-52	4.9	5
124	Modelling and dynamic simulation of a large MSF plant using local phase equilibrium and simultaneous mass, momentum, and energy solver. *Computers and Chemical Engineering*, **2017**, 97, 242-258	4	8

123	Application of the compartmental model to the gas–liquid precipitation of CO2-Ca(OH)2 aqueous system in a stirred tank. *AICHE Journal*, **2017**, 63, 378-386	3.6	16
122	Micro-scale piloting of a process for production of 2-methoxy-2,4,4-trimethylpentane. *Chemical Engineering and Processing: Process Intensification*, **2017**, 122, 143-154	3.7	2
121	CFD analysis of laboratory scale phase equilibrium cell operation. *Review of Scientific Instruments*, **2017**, 88, 105110	1.7	1
120	Study of CO2 Absorption into Phase Change Solvents MAPA and DEEA. *Journal of Chemical & Engineering Data*, **2017**, 62, 2261-2271	2.8	2
119	Hydrogen Solubility of Shale Oil Containing Polar Phenolic Compounds. *Industrial & Engineering Chemistry Research*, **2017**, 56, 8738-8747	3.9	7
118	6. Process intensification for microdistillation using the equipment miniaturization approach **2017**, 213-240		
117	Catalyst Screening and Kinetic Modeling for CO Production by High Pressure and Temperature Reverse Water Gas Shift for Fischer–Tropsch Applications. *Industrial & Engineering Chemistry Research*, **2017**, 56, 13262-13272	3.9	23
116	Solubility of carbon monoxide in bio-oil compounds. *Journal of Chemical Thermodynamics*, **2017**, 105, 296-311	2.9	4
115	Hydrogen solubility measurements of analyzed tall oil fractions and a solubility model. *Journal of Chemical Thermodynamics*, **2017**, 105, 15-20	2.9	6
114	Experimental and Theoretical Thermodynamic Study of Distillable Ionic Liquid 1,5-Diazabicyclo[4.3.0]non-5-enium Acetate. *Industrial & Engineering Chemistry Research*, **2016**, 55, 10445-10454	3.9	24
113	Development of a unique modular distillation column using 3D printing. *Chemical Engineering and Processing: Process Intensification*, **2016**, 109, 136-148	3.7	19
112	Solubility of Organosolv Lignin in γ-Valerolactone/Water Binary Mixtures. *ChemSusChem*, **2016**, 9, 2939-2947	8.5	52
111	Quaternary, Ternary and Binary LLE Measurements for 2-Methoxy-2-methylbutane + Furfural + Acetic Acid + Water at Temperatures between 298 and 341 K. *Journal of Chemical & Engineering Data*, **2016**, 61, 3730-3739	2.8	4
110	Quaternary, Ternary, and Binary LLE Measurements for 2-Methoxy-2-methylpropane + Furfural + Acetic Acid + Water at Temperatures between 298 and 307 K. *Journal of Chemical & Engineering Data*, **2016**, 61, 2458-2466	2.8	9
109	Mathematical model of precipitation of magnesium carbonate with carbon dioxide from the magnesium hydroxide slurry. *Computers and Chemical Engineering*, **2016**, 87, 180-189	4	10
108	Vapor–Liquid Equilibria, Excess Enthalpy, and Density of Aqueous γ-Valerolactone Solutions.. *Journal of Chemical & Engineering Data*, **2016**, 61, 881-890	2.8	30
107	Ternary and Binary LLE Measurements for Solvent (4-Methyl-2-pentanone and 2-Methyl-2-butanol) + Furfural + Water between 298 and 401 K. *Journal of Chemical & Engineering Data*, **2016**, 61, 903-911	2.8	16
106	Prototyping a calorimeter mixing cell with direct metal laser sintering. *Chemical Engineering Research and Design*, **2016**, 108, 146-151	5.5	4

105	Dew points of pure DBN and DBU and vapor–liquid equilibria of water+DBN and water+DBU systems for cellulose solvent recycling. *Fluid Phase Equilibria*, **2016**, 408, 79-87	2.5	10
104	Feasibility of thermal separation in recycling of the distillable ionic liquid [DBNH][OAc] in cellulose fiber production. *Chemical Engineering Research and Design*, **2016**, 114, 287-298	5.5	19
103	Physicochemical Modeling for Hot Water Extraction of Birch Wood. *Industrial & Engineering Chemistry Research*, **2016**, 55, 11062-11073	3.9	5
102	Design of Equilibrium Cells for Phase Equilibria and PVT Measurements in Large Ranges of Temperatures and Pressures. I. Vapor–liquid–liquid Equilibria. *Journal of Chemical & Engineering Data*, **2016**, 61, 2700-2711	2.8	5
101	Solubility of hydrogen in bio-oil compounds. *Journal of Chemical Thermodynamics*, **2016**, 102, 406-412	2.9	12
100	Modeling outdoors algal cultivation with compartmental approach. *Chemical Engineering Journal*, **2015**, 259, 945-960	14.7	9
99	Measurements and modeling for the density of 2-methoxy-2,4,4-trimethylpentane, HE for (methanol + 2-methoxy-2,4,4-trimethylpentane), LLE for (water + 2-methoxy-2,4,4-trimethylpentane) and LLE for (water + methanol + 2-methoxy-2,4,4-trimethylpentane). *Journal of Chemical Thermodynamics*, **2015**, 91, 313-320	2.9	1
98	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. *Journal of Chemical & Engineering Data*, **2015**, 60, 2655-2664	2.8	2
97	A comprehensive study of CO 2 solubility in aqueous 2-HEAA and MEA + 2-HEAA solutions – Measurements and modeling. *International Journal of Greenhouse Gas Control*, **2015**, 42, 296-306	4.2	3
96	Population balance based modeling of changes in cellulose molecular weight distribution during ageing. *Cellulose*, **2015**, 22, 151-163	5.5	10
95	A new simple approach for the scale-up of aerated stirred tanks. *Chemical Engineering Research and Design*, **2015**, 95, 150-161	5.5	21
94	Measurement of activity coefficient at infinite dilution for some bio-oil components in water and mass transfer study of bubbles in the dilutor. *Fluid Phase Equilibria*, **2015**, 392, 1-11	2.5	5
93	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). *Journal of Chemical Thermodynamics*, **2015**, 85, 120-128	2.9	9
92	Isothermal vapor–liquid equilibrium and excess molar enthalpies of the binary mixtures furfural+methyl isobutyl ketone, +2-butanol and +2-methyl-2-butanol. *Fluid Phase Equilibria*, **2014**, 372, 85-99	2.5	9
91	Modeling of Mass Transfer and Reactions in Anisotropic Biomass Particles with Reduced Computational Load. *Industrial & Engineering Chemistry Research*, **2014**, 53, 4096-4103	3.9	4
90	Hydrogen solubility in heavy oil systems: Experiments and modeling. *Fuel*, **2014**, 137, 393-404	7.1	27
89	A modified continuous flow apparatus for gas solubility measurements at high pressure and temperature with camera system. *Fluid Phase Equilibria*, **2014**, 382, 150-157	2.5	8
88	Measurements and modeling of CO2 solubility in 1,8-diazabicyclo-[5.4.0]-undec-7-ene–glycerol solutions. *Fluid Phase Equilibria*, **2014**, 374, 25-36	2.5	25

87	Comparative study: Absorption enthalpy of carbon dioxide into aqueous diisopropanolamine and monoethanolamine solutions and densities of the carbonated amine solutions. *Fluid Phase Equilibria*, **2014**, 376, 85-95	2.5	7
86	Heavy oil characterization method for PC-SAFT. *Fuel*, **2014**, 133, 216-223	7.1	21
85	Distillable Protic Ionic Liquid 2-(Hydroxy)ethylammonium Acetate (2-HEAA): Density, Vapor Pressure, Vapor–Liquid Equilibrium, and Solid–Liquid Equilibrium. *Industrial & Engineering Chemistry Research*, **2014**, 53, 19322-19330	3.9	10
84	Modeling of alkaline extraction chemistry and kinetics of softwood kraft pulp. *Holzforschung*, **2014**, 68, 733-746	2	2
83	A comprehensive thermodynamic study of heat stable acetic acid salt of monoethanolamine. *International Journal of Greenhouse Gas Control*, **2014**, 22, 313-324	4.2	16
82	Analysis of concentration polydispersity in mixed liquid–liquid systems. *Chemical Engineering Research and Design*, **2014**, 92, 612-618	5.5	8
81	Modeling method for combining fluid dynamics and algal growth in a bubble column photobioreactor. *Chemical Engineering Journal*, **2013**, 229, 559-568	14.7	51
80	A new moment analysis method to estimate the characteristic parameters in chromatographic general rate model. *Computers and Chemical Engineering*, **2013**, 55, 50-60	4	3
79	Moment based weighted residual method—New numerical tool for a nonlinear multicomponent chromatographic general rate model. *Computers and Chemical Engineering*, **2013**, 53, 153-163	4	6
78	A novel continuous flow apparatus with a video camera system for high pressure phase equilibrium measurements. *Fluid Phase Equilibria*, **2013**, 356, 291-300	2.5	6
77	Measurements of H2S solubility in aqueous diisopropanolamine solutions and vapour pressure of diisopropanolamine. *Fluid Phase Equilibria*, **2013**, 338, 164-171	2.5	17
76	The use of microplants in process development—Case study of etherification of 2-ethoxy-2-methylbutane. *Chemical Engineering and Processing: Process Intensification*, **2013**, 74, 75-82	3.7	5
75	Control of reflux and reboil flow rates for milli and micro distillation. *Chemical Engineering Research and Design*, **2013**, 91, 753-760	5.5	10
74	Vapor–liquid equilibrium measurements of dimethylsulfide, +ethanol, +dimethylether, +methylacetate with a static total pressure method. *Fluid Phase Equilibria*, **2013**, 355, 34-39	2.5	1
73	Vapor–Liquid 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. *Journal of Chemical & Engineering Data*, **2013**, 58, 943-950	2.8	5
72	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. *Journal of Chemical & Engineering Data*, **2013**, 58, 1011-1019	2.8	10
71	Vapor–Liquid Equilibrium for Methoxymethane + Thiophene, + Diethylsulfide, + 2-Methyl-2-propanethiol and 1-Hexene, + 1-Propanethiol. *Journal of Chemical & Engineering Data*, **2013**, 58, 956-963	2.8	9
70	The role of Donnan effect in kraft cooking liquor impregnation and hot water extraction of wood. *Holzforschung*, **2013**, 67, 511-521	2	10

69	Implementation aspects of modeling equilibrium reactions and thermodynamic data in a flowsheet simulator. *Computer Aided Chemical Engineering*, **2013**, 32, 127-132	0.6	0
68	Investigation of drag models in CFD modeling and comparison to experiments of liquid–solid fluidized systems. *International Journal of Mineral Processing*, **2012**, 104-105, 58-70		18
67	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. *Journal of Chemical & Engineering Data*, **2012**, 57, 3502-3509	2.8	8
66	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. *Journal of Chemical & Engineering Data*, **2012**, 57, 3092-3101	2.8	14
65	Model for Degradation of Galactoglucomannan in Hot Water Extraction Conditions. *Industrial & Engineering Chemistry Research*, **2012**, 51, 10338-10344	3.9	12
64	Three-Phase CFD-Model for Trickle Bed Reactors. *International Journal of Nonlinear Sciences and Numerical Simulation*, **2012**, 13,	1.8	3
63	The Henry's law constant of N2O and CO2 in aqueous binary and ternary amine solutions (MEA, DEA, DIPA, MDEA, and AMP). *Fluid Phase Equilibria*, **2011**, 311, 59-66	2.5	51
62	Lignin oxidation mechanisms under oxygen delignification conditions. Part 3. Reaction pathways and modeling. *Holzforschung*, **2011**, 65,	2	22
61	Comparison and validation of CFD models in liquid–solid suspensions. *Canadian Journal of Chemical Engineering*, **2011**, 89, 696-706	2.3	7
60	Isobaric vapor–liquid equilibrium for binary systems containing benzothiophene. *Fluid Phase Equilibria*, **2011**, 307, 180-184	2.5	7
59	Vapor–liquid Equilibrium for Methoxymethane + Methyl Formate, Methoxymethane + Hexane, and Methyl Formate + Methanol. *Journal of Chemical & Engineering Data*, **2011**, 56, 2634-2640	2.8	10
58	Vapor–liquid Equilibrium for Dimethyl Disulfide + Butane, + trans-But-2-ene, + 2-Methylpropane, + 2-Methylpropene, + Ethanol, and 2-Ethoxy-2-methylpropane. *Journal of Chemical & Engineering Data*, **2011**, 56, 2501-2510	2.8	6
57	Vapor–liquid Equilibrium for Thiophene + Butane, + trans-But-2-ene, + 2-Methylpropane, and + 2-Methylpropene. *Journal of Chemical & Engineering Data*, **2011**, 56, 614-621	2.8	3
56	The moment method for one-dimensional dynamic reactor models with axial dispersion. *Computers and Chemical Engineering*, **2011**, 35, 423-433	4	12
55	Characteristics of liquid and tracer dispersion in trickle-bed reactors: Effect on CFD modeling and experimental analyses. *Computers and Chemical Engineering*, **2011**, 35, 41-49	4	21
54	Phase equilibria on binary systems containing diethyl sulfide. *Fluid Phase Equilibria*, **2011**, 301, 200-205	2.5	6
53	New model for predicting tensile strength and density of eucalyptus handsheets based on an activation parameter calculated from fiber distribution characteristics. *Holzforschung*, **2010**, 64,	2	1
52	A Model for Chlorine Dioxide Delignification of Chemical Pulp. *Journal of Wood Chemistry and Technology*, **2010**, 30, 230-268	2	32

51	Dynamic Simulation of Continuous-Contact Separation Processes with the Moment Transformation Method. *Industrial & Engineering Chemistry Research*, **2010**, 49, 3365-3373	3.9	1
50	Isothermal Binary Vapor−liquid Equilibrium for 2-Methylpropane and n-Butane with 1,2-Ethanedithiol and 2-Methyl-2-propanethiol. *Journal of Chemical & Engineering Data*, **2010**, 55, 291-296	2.8	5
49	Vapor−liquid equilibrium for the binary systems tetrahydrothiophene + toluene and tetrahydrothiophene + o-xylene at 368.15 K and 383.15 K. *Fluid Phase Equilibria*, **2010**, 296, 4-8	2.5	4
48	Solubility of carbon dioxide in aqueous solutions of diisopropanolamine and methyldiethanolamine. *Fluid Phase Equilibria*, **2010**, 293, 101-109	2.5	27
47	Phase equilibrium measurements for systems containing propanenitrile with tert-butyl ethyl ether and C4-hydrocarbons. *Fluid Phase Equilibria*, **2010**, 299, 148-160	2.5	5
46	Modelling of crystal growth of KDP in a 100dm3 suspension crystallizer using combination of CFD and multiblock model. *Chemical Engineering Research and Design*, **2010**, 88, 1297-1303	5.5	9
45	Vapour−liquid equilibrium for the systems diethyl sulphide+1-butene, +cis-2-butene, +2-methylpropane, +2-methylpropene, +n-butane, +trans-2-butene. *Fluid Phase Equilibria*, **2010**, 291, 180-187	2.5	6
44	Phase equilibria on five binary systems containing 1-butanethiol and 3-methylthiophene in hydrocarbons. *Fluid Phase Equilibria*, **2010**, 293, 157-163	2.5	7
43	Vapor−liquid equilibrium for binary system of tetrahydrothiophene+2,2,4-trimethylpentane and tetrahydrothiophene+2,4,4-trimethyl-1-pentene at 358.15 and 368.15K. *Fluid Phase Equilibria*, **2010**, 296, 159-163	2.5	
42	Thermodynamics of aqueous solutions of methyldiethanolamine and diisopropanolamine. *Fluid Phase Equilibria*, **2010**, 299, 51-59	2.5	16
41	Phase equilibria of binary systems of 3-methylthiophene with four different hydrocarbons. *Fluid Phase Equilibria*, **2010**, 288, 155-160	2.5	10
40	Phase equilibria for systems containing dimethyl disulfide and diethyl disulfide with hydrocarbons at 368.15K. *Fluid Phase Equilibria*, **2010**, 293, 175-181	2.5	5
39	Infinite dilution activity coefficient and vapour liquid equilibrium measurements for dimethylsulphide and tetrahydrothiophene with hydrocarbons. *Fluid Phase Equilibria*, **2010**, 295, 17-25	2.5	3
38	Analysis of stirred tanks with two-zone models. *AICHE Journal*, **2009**, 55, 2545-2552	3.6	19
37	An Analytical Model for Capillary Pressure−Saturation Relation for Gas−Liquid System in a Packed-Bed of Spherical Particles. *Transport in Porous Media*, **2009**, 77, 17-40	3.1	23
36	CFD modeling of radial spreading of flow in trickle-bed reactors due to mechanical and capillary dispersion. *Chemical Engineering Science*, **2009**, 64, 207-218	4.4	75
35	Novel micro-distillation column for process development. *Chemical Engineering Research and Design* , **2009**, 87, 705-710	5.5	32
34	Chlorate Formation in Chlorine Dioxide Delignification−An Analysis via Elementary Kinetic Modeling. *Journal of Wood Chemistry and Technology*, **2009**, 29, 191-213	2	4

33	Vapor–liquid Equilibrium for Tetrahydrothiophene + n-Butane, + trans-2-Butene, + 2-Methylpropane, and + 2-Methylpropene. *Journal of Chemical & Engineering Data*, **2009**, 54, 1311-1317	2.8	5
32	The Kinetics and Stoichiometry of the Reaction between Hypochlorous Acid and Chlorous Acid in Mildly Acidic Solutions. *Industrial & Engineering Chemistry Research*, **2009**, 48, 6280-6286	3.9	12
31	Modeling and Simulation of an Industrial Trickle-Bed Reactor for Benzene Hydrogenation: Model Validation against Plant Data. *Industrial & Engineering Chemistry Research*, **2009**, 48, 1866-1872	3.9	7
30	CPMAS 13C NMR Analysis of Fully Bleached Eucalypt Pulp Samples: Links to Handsheet Hygroexpansivity and Strength Properties. *Journal of Applied Sciences*, **2009**, 9, 3991-3998	0.3	3
29	Improved Hydrodynamic Model for Wetting Efficiency, Pressure Drop, and Liquid Holdup in Trickle-Bed Reactors. *Industrial & Engineering Chemistry Research*, **2008**, 47, 8436-8444	3.9	36
28	Vapor–liquid Equilibrium for the cis-2-Butene + Methanol, + 2-Propanol, + 2-Butanol, + 2-Methyl-2-propanol Systems at 364.5 K. *Journal of Chemical & Engineering Data*, **2008**, 53, 1539-1544	2.8	5
27	Vapor–liquid Equilibrium for the Systems trans-2-Butene + Methanol, + 1-Propanol, + 2-Propanol, + 2-Butanol, and + 2-Methyl-2-propanol at 364.5 K. *Journal of Chemical & Engineering Data*, **2008**, 53, 607-612	2.8	6
26	Modeling of Catalyst Activity Profiles in Fixed-Bed Reactors with a Moment Transformation Method. *Industrial & Engineering Chemistry Research*, **2008**, 47, 8192-8196	3.9	2
25	Vapor–liquid Equilibrium for 1-Butene + Methanol, + 1-Propanol, + 2-Propanol, + 2-Butanol, and 2-Methyl-2-propanol (TBA) at 364.5 K. *Journal of Chemical & Engineering Data*, **2008**, 53, 1829-1835	2.8	6
24	Vapor–liquid Equilibrium for 1-Butanol + 1-Butene at (318.4 and 364.5) K and Vapor–liquid Equilibrium of 1-Butanol + 2-Methylpropane, + n-Butane and 1-Butene + 2-Methylpropane at 318.4 K. *Journal of Chemical & Engineering Data*, **2008**, 53, 2454-2461	2.8	2
23	Vapor–liquid Equilibrium for the Systems 2-Methylpropane + Methanol, + 2-Propanol, + 2-Butanol, and + 2-Methyl-2-propanol at 364.5 K. *Journal of Chemical & Engineering Data*, **2008**, 53, 913-918	2.8	3
22	Modelling mass transfer in an aerated 0.2m3 vessel agitated by Rushton, Phasejet and Combijet impellers. *Chemical Engineering Journal*, **2008**, 142, 95-108	14.7	44
21	Solution of population balances by high order moment-conserving method of classes: reconstruction of a non-negative density distribution. *Chemical Engineering Science*, **2008**, 63, 2741-2751	4.4	9
20	A dynamic model for plug flow reactor state profiles. *Computers and Chemical Engineering*, **2008**, 32, 1494-1506	4	17
19	Modelling local bubble size distributions in agitated vessels. *Chemical Engineering Science*, **2007**, 62, 721-740	4.4	121
18	Solution of population balances with growth and nucleation by high order moment-conserving method of classes. *Chemical Engineering Science*, **2007**, 62, 2277-2289	4.4	21
17	Numerical solution of moment-transformed population balance equation with fixed quadrature points. *Chemical Engineering Science*, **2006**, 61, 4919-4929	4.4	27
16	A cellular automata model for liquid distribution in trickle bed reactors. *Chemical Engineering Science*, **2006**, 61, 4930-4943	4.4	6

15	Dynamic modeling of local reaction conditions in an agitated aerobic fermenter. *AICHE Journal*, **2006**, 52, 1673-1689	3.6	28
14	Modeling of Gas–liquid Packed-Bed Reactors with Momentum Equations and Local Interaction Closures. *Industrial & Engineering Chemistry Research*, **2006**, 45, 8189-8198	3.9	13
13	Validation of bubble breakage, coalescence and mass transfer models for gas–liquid dispersion in agitated vessel. *Chemical Engineering Science*, **2006**, 61, 218-228	4.4	120
12	Solution of population balances with breakage and agglomeration by high-order moment-conserving method of classes. *Chemical Engineering Science*, **2006**, 61, 6732-6752	4.4	47
11	Utilization of population balances in simulation of liquid-liquid systems in mixed tanks. *Chemical Engineering Communications*, **2003**, 190, 1468-1484	2.2	7
10	CFD modelling of drag reduction effects in pipe flows. *Computer Aided Chemical Engineering*, **2003**, 14, 737-742	0.6	1
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