

Hans Hasse

List of Publications by Year in descending order

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384
papers

12,057
citations

23500

58
h-index

49773

87
g-index

397
all docs

397
docs citations

397
times ranked

6547
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(oxymethylene) dimethyl ethers as components of tailored diesel fuel: Properties, synthesis and purification concepts. <i>Fuel</i> , 2010, 89, 3315-3319.	3.4	372
2	A Set of Molecular Models for Symmetric Quadrupolar Fluids. <i>Journal of Physical Chemistry B</i> , 2001, 105, 12126-12133.	1.2	346
3	Post combustion CO ₂ capture by reactive absorption: Pilot plant description and results of systematic studies with MEA. <i>International Journal of Greenhouse Gas Control</i> , 2012, 6, 84-112.	2.3	191
4	Comprehensive study of the vapour-liquid coexistence of the truncated and shifted Lennard-Jones fluid including planar and spherical interface properties. <i>Molecular Physics</i> , 2006, 104, 1509-1527.	0.8	189
5	Prediction of self-diffusion coefficient and shear viscosity of water and its binary mixtures with methanol and ethanol by molecular simulation. <i>Journal of Chemical Physics</i> , 2011, 134, 074508.	1.2	182
6	Online NMR spectroscopic study of species distribution in MEA-H ₂ O-CO ₂ and DEA-H ₂ O-CO ₂ . <i>Fluid Phase Equilibria</i> , 2008, 263, 131-143.	1.4	178
7	Molecular Dynamics and Experimental Study of Conformation Change of Poly(<i>N</i> -isopropylacrylamide) Hydrogels in Mixtures of Water and Methanol. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5251-5259.	1.2	145
8	Chemical Equilibrium and Reaction Kinetics of the Heterogeneously Catalyzed Formation of Poly(oxymethylene) Dimethyl Ethers from Methylal and Trioxane. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 12751-12761.	1.8	144
9	FT-IR spectroscopic investigations of hydrogen bonding in alcohol-hydrocarbon solutions. <i>Fluid Phase Equilibria</i> , 2001, 186, 1-25.	1.4	139
10	Experimental Pressure-Temperature Data on Three- and Four-Phase Equilibria of Fluid, Hydrate, and Ice Phases in the System Carbon Dioxide-Water. <i>Journal of Chemical & Engineering Data</i> , 1999, 44, 901-906.	1.0	135
11	Quantitative high-resolution on-line NMR spectroscopy in reaction and process monitoring. <i>Journal of Magnetic Resonance</i> , 2004, 166, 135-146.	1.2	135
12	¹ H- and ¹³ C-NMR-Spectroscopic Study of Chemical Equilibria in Solutions of Formaldehyde in Water, Deuterium Oxide, and Methanol. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 1022-1029.	1.8	126
13	NMR Spectroscopic and Densimetric Study of Reaction Kinetics of Formaldehyde Polymer Formation in Water, Deuterium Oxide, and Methanol. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 440-450.	1.8	124
14	Grand Equilibrium: vapour-liquid equilibria by a new molecular simulation method. <i>Molecular Physics</i> , 2002, 100, 3375-3383.	0.8	124
15	Pilot plant experimental studies of post combustion CO ₂ capture by reactive absorption with MEA and new solvents. <i>Energy Procedia</i> , 2009, 1, 963-970.	1.8	120
16	Production process for diesel fuel components poly(oxymethylene) dimethyl ethers from methane-based products by hierarchical optimization with varying model depth. <i>Chemical Engineering Research and Design</i> , 2013, 91, 2648-2662.	2.7	111
17	From methanol to the oxygenated diesel fuel poly(oxymethylene) dimethyl ether: An assessment of the production costs. <i>Fuel</i> , 2016, 185, 67-72.	3.4	110
18	A molecular simulation study of shear and bulk viscosity and thermal conductivity of simple real fluids. <i>Fluid Phase Equilibria</i> , 2004, 221, 157-163.	1.4	108

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19	<i>lsm</i> : The Massively Parallel Molecular Dynamics Code for Large Systems. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 4455-4464.	2.3	108
20	Prediction of Transport Properties by Molecular Simulation: Methanol and Ethanol and Their Mixture. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16664-16674.	1.2	106
21	Chemical Equilibrium of the Synthesis of Poly(oxymethylene) Dimethyl Ethers from Formaldehyde and Methanol in Aqueous Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 6409-6417.	1.8	106
22	ms2: A molecular simulation tool for thermodynamic properties. <i>Computer Physics Communications</i> , 2011, 182, 2350-2367.	3.0	102
23	Thermophysical Properties of the Lennard-Jones Fluid: Database and Data Assessment. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 4248-4265.	2.5	101
24	Hydrogen Bonding of Methanol in Supercritical CO ₂ : Comparison between ¹ H NMR Spectroscopic Data and Molecular Simulation Results. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9871-9878.	1.2	100
25	Unlike Lennard-Jones parameters for vapor-liquid equilibria. <i>Journal of Molecular Liquids</i> , 2007, 135, 170-178.	2.3	100
26	Multi-criteria optimization in chemical process design and decision support by navigation on Pareto sets. <i>Computers and Chemical Engineering</i> , 2014, 60, 354-363.	2.0	100
27	Molecular dynamics and experimental study of conformation change of poly(N-isopropylacrylamide) hydrogels in water. <i>Fluid Phase Equilibria</i> , 2010, 296, 164-172.	1.4	98
28	Octahedral molecular sieves of the type K-OMS-2 with different particle sizes and morphologies: Impact on the catalytic properties in the aerobic partial oxidation of benzyl alcohol. <i>Applied Catalysis A: General</i> , 2009, 355, 42-49.	2.2	97
29	Reaction Kinetics of the Formation of Poly(oxymethylene) Dimethyl Ethers from Formaldehyde and Methanol in Aqueous Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 12553-12560.	1.8	93
30	Fluid dynamics in reactive distillation packing Katapak [®] -S. <i>Chemical Engineering Science</i> , 1999, 54, 1367-1374.	1.9	92
31	Henry's law constants of methane, nitrogen, oxygen and carbon dioxide in ethanol from 273 to 498 K: Prediction from molecular simulation. <i>Fluid Phase Equilibria</i> , 2005, 233, 134-143.	1.4	91
32	Vapor-liquid equilibria of mixtures containing nitrogen, oxygen, carbon dioxide, and ethane. <i>AIChE Journal</i> , 2003, 49, 2187-2198.	1.8	88
33	A set of molecular models for carbon monoxide and halogenated hydrocarbons. <i>Journal of Chemical Physics</i> , 2003, 119, 11396-11407.	1.2	88
34	High-pressure multiphase behaviour of ternary systems carbon dioxide-water-polar solvent: review and modeling with the Peng-Robinson equation of state. <i>Journal of Supercritical Fluids</i> , 1998, 12, 185-221.	1.6	86
35	CO ₂ Capture for Fossil Fuel-Fired Power Plants. <i>Chemical Engineering and Technology</i> , 2011, 34, 163-172.	0.9	85
36	Quantitative NMR Spectroscopy of Complex Liquid Mixtures: Methods and Results for Chemical Equilibria in Formaldehyde-Water-Methanol at Temperatures up to 383 K. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 259-266.	1.8	82

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37	Mutual diffusion in the ternary mixture of water + methanol + ethanol and its binary subsystems. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3985.	1.3	76
38	Osmotic Virial Coefficients of Aqueous Poly(ethylene glycol) from Laser-Light Scattering and Isoopiestic Measurements. <i>Macromolecules</i> , 1995, 28, 3540-3552.	2.2	74
39	Integration of a chemical process model in a power plant modelling tool for the simulation of an amine based CO2 scrubber. <i>Fuel</i> , 2009, 88, 2481-2488.	3.4	74
40	Comprehensive study of the vapour-liquid equilibria of the pure two-centre Lennard-Jones plus pointquadrupole fluid. <i>Fluid Phase Equilibria</i> , 2001, 179, 339-362.	1.4	73
41	Modification of the classical nucleation theory based on molecular simulation data for surface tension, critical nucleus size, and nucleation rate. <i>Physical Review E</i> , 2008, 78, 011603.	0.8	73
42	Influence of ion-exchange resin catalysts on side reactions of the esterification of methyl acetate . <i>Chemical Engineering Science</i> , 2007, 62, 5613-5620.	1.9	72
43	Development of a new industrial process for trioxane production. <i>Chemical Engineering Science</i> , 2007, 62, 5613-5620.	1.9	71
44	Molecular model for carbon dioxide optimized to vapor-liquid equilibria. <i>Journal of Chemical Physics</i> , 2010, 132, 234512.	1.2	71
45	Contact Angle of Sessile Drops in Lennard-Jones Systems. <i>Langmuir</i> , 2014, 30, 13606-13614.	1.6	71
46	A molecular simulation tool for thermodynamic properties, release 3.0. <i>Computer Physics Communications</i> , 2017, 221, 343-351.	3.0	70
47	A molecular simulation tool for thermodynamic properties, new version release. <i>Computer Physics Communications</i> , 2014, 185, 3302-3306.	3.0	67
48	Selection and Pilot Plant Tests of New Absorbents for Post-Combustion Carbon Dioxide Capture. <i>Chemical Engineering Research and Design</i> , 2007, 85, 510-515.	2.7	66
49	The influence of the liquid slab thickness on the planar vapor-liquid interfacial tension. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 2359-2367.	1.2	66
50	Solubility of Carbon Dioxide in Aqueous Solutions of Monoethanolamine in the Low and High Gas Loading Regions. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 883-895.	1.0	66
51	Phase Equilibrium in Formaldehyde Containing Multicomponent Mixtures: Experimental Results for Formaldehyde + N_2 . <i>Chemistry Research</i> , 2006, 45, 5155-5164.	1.8	65
52	MolMod - an open access database of force fields for molecular simulations of fluids. <i>Molecular Simulation</i> , 2019, 45, 806-814.	0.9	65
53	Pilot plant experiments for post combustion carbon dioxide capture by reactive absorption with novel solvents. <i>Energy Procedia</i> , 2011, 4, 1-8.	1.8	62
54	A set of molecular models for alkali and halide ions in aqueous solution. <i>Journal of Chemical Physics</i> , 2012, 136, 084501.	1.2	62

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55	Multi-objective optimization using reduced models in conceptual design of a fuel additive production process. <i>Chemical Engineering Science</i> , 2013, 99, 118-126.	1.9	61
56	Conceptual Design of a Novel Process for the Production of Poly(oxymethylene) Dimethyl Ethers from Formaldehyde and Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11519-11530.	1.8	61
57	Equation of state for the Lennard-Jones truncated and shifted fluid with a cut-off radius of 2.5σ based on perturbation theory and its applications to interfacial thermodynamics. <i>Molecular Physics</i> , 2018, 116, 2083-2094.	0.8	61
58	Vapor-Liquid Interface of the Lennard-Jones Truncated and Shifted Fluid: Comparison of Molecular Simulation, Density Gradient Theory, and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24705-24715.	1.5	61
59	Methyl Acetate Hydrolysis in a Reactive Divided Wall Column. <i>Chemical Engineering Research and Design</i> , 2007, 85, 149-154.	2.7	59
60	Pilot plant study of post-combustion carbon dioxide capture by reactive absorption: Methodology, comparison of different structured packings, and comprehensive results for monoethanolamine. <i>Chemical Engineering Research and Design</i> , 2011, 89, 1216-1228.	2.7	58
61	Pilot plant study of four new solvents for post combustion carbon dioxide capture by reactive absorption and comparison to MEA. <i>International Journal of Greenhouse Gas Control</i> , 2012, 8, 205-216.	2.3	58
62	Review and comparison of equations of state for the Lennard-Jones fluid. <i>Fluid Phase Equilibria</i> , 2020, 523, 112772.	1.4	58
63	On the application of force fields for predicting a wide variety of properties: Ethylene oxide as an example. <i>Fluid Phase Equilibria</i> , 2008, 274, 16-26.	1.4	56
64	Pilot plant study of two new solvents for post combustion carbon dioxide capture by reactive absorption and comparison to monoethanolamine. <i>Chemical Engineering Science</i> , 2011, 66, 5512-5522.	1.9	56
65	Enrichment at vapour-liquid interfaces of mixtures: establishing a link between nanoscopic and macroscopic properties. <i>International Reviews in Physical Chemistry</i> , 2020, 39, 319-349.	0.9	56
66	Experimental study and model of reaction kinetics of heterogeneously catalyzed methylal synthesis. <i>Chemical Engineering Research and Design</i> , 2012, 90, 696-703.	2.7	55
67	Machine Learning in Thermodynamics: Prediction of Activity Coefficients by Matrix Completion. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 981-985.	2.1	55
68	Vapor-liquid equilibrium of formaldehyde mixtures: New data and model revision. <i>AIChE Journal</i> , 1996, 42, 1741-1752.	1.8	54
69	Online NMR Spectroscopic Study of Species Distribution in MDEA-H ₂ O-CO ₂ and MDEA-PIPA-H ₂ O-CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 7917-7926.	1.8	54
70	Molecular models for 267 binary mixtures validated by vapor-liquid equilibria: A systematic approach. <i>Fluid Phase Equilibria</i> , 2009, 279, 120-135.	1.4	54
71	Interfacial properties of binary Lennard-Jones mixtures by molecular simulation and density gradient theory. <i>Journal of Chemical Physics</i> , 2019, 150, 174704.	1.2	53
72	Vapor-Liquid and Liquid-Liquid Equilibria in Binary and Ternary Mixtures of Water, Methanol, and Methylal. <i>Journal of Chemical & Engineering Data</i> , 2001, 46, 897-903.	1.0	52

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73	Self Diffusion and Binary Maxwell-Stefan Diffusion in Simple Fluids with the Green-Kubo Method. <i>International Journal of Thermophysics</i> , 2004, 25, 175-186.	1.0	52
74	Set of Molecular Models Based on Quantum Mechanical Ab Initio Calculations and Thermodynamic Data. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12710-12721.	1.2	51
75	Comprehensive study of the vapour-liquid equilibria of the pure two-centre Lennard-Jones plus pointdipole fluid. <i>Fluid Phase Equilibria</i> , 2003, 209, 29-53.	1.4	50
76	A short-cut method for assessing absorbents for post-combustion carbon dioxide capture. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 413-421.	2.3	50
77	Interfacial tension and adsorption in the binary system ethanol and carbon dioxide: Experiments, molecular simulation and density gradient theory. <i>Fluid Phase Equilibria</i> , 2016, 427, 476-487.	1.4	50
78	Revised vapor-liquid equilibrium model for multicomponent formaldehyde mixtures. <i>AIChE Journal</i> , 1990, 36, 1807-1814.	1.8	49
79	Chemical potential of quadrupolar two-centre Lennard-Jones fluids by gradual insertion. <i>Chemical Physics Letters</i> , 2002, 356, 431-436.	1.2	49
80	Synthesis of n-hexyl acetate by reactive distillation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2004, 43, 397-409.	1.8	48
81	Round Robin Study: Molecular Simulation of Thermodynamic Properties from Models with Internal Degrees of Freedom. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4270-4280.	2.3	48
82	Kinetics of oligomerization reactions in formaldehyde solutions: NMR experiments up to 373K and thermodynamically consistent model. <i>Chemical Engineering and Processing: Process Intensification</i> , 2005, 44, 653-660.	1.8	47
83	Prediction of Joule-Thomson inversion curves for pure fluids and one mixture by molecular simulation. <i>Cryogenics</i> , 2005, 45, 253-258.	0.9	47
84	Molecular models of unlike interactions in fluid mixtures. <i>Molecular Simulation</i> , 2005, 31, 215-221.	0.9	47
85	Quantitative NMR spectroscopy of complex technical mixtures using a virtual reference: chemical equilibria and reaction kinetics of formaldehyde-water-1,3,5-trioxane. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 910-917.	1.9	47
86	An optimised molecular model for ammonia. <i>Molecular Physics</i> , 2008, 106, 1039-1046.	0.8	47
87	Modeling and simulation of reactive absorption of CO ₂ with MEA: Results for four different packings on two different scales. <i>Chemical Engineering Science</i> , 2014, 105, 179-190.	1.9	47
88	Multi-Objective Optimization and Decision Support in Process Engineering – Implementation and Application. <i>Chemie-Ingenieur-Technik</i> , 2014, 86, 1065-1072.	0.4	46
89	Excess equimolar radius of liquid drops. <i>Physical Review E</i> , 2012, 85, 031605.	0.8	44
90	Quantitative and qualitative ¹ H, ¹³ C, and ¹⁵ N NMR spectroscopic investigation of the urea-formaldehyde resin synthesis. <i>Magnetic Resonance in Chemistry</i> , 2014, 52, 138-162.	1.1	44

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91	TweTriS: Twenty trillion-atom simulation. International Journal of High Performance Computing Applications, 2019, 33, 838-854.	2.4	43
92	Vapor-liquid equilibrium of formaldehyde-containing mixtures at temperatures below 320 K. Fluid Phase Equilibria, 1991, 64, 185-199.	1.4	42
93	Thermodynamics of Phase and Chemical Equilibrium in a Strongly Nonideal Esterification System. Journal of Chemical & Engineering Data, 2005, 50, 92-101.	1.0	42
94	Multicriteria optimization of molecular force fields by Pareto approach. Fluid Phase Equilibria, 2014, 373, 100-108.	1.4	42
95	Quantitative on-line high-resolution NMR spectroscopy in process engineering applications. Analytical and Bioanalytical Chemistry, 2003, 375, 1111-1115.	1.9	41
96	Phase Equilibria for Hexyl Acetate Reactive Distillation. Journal of Chemical & Engineering Data, 2005, 50, 1677-1683.	1.0	41
97	Multiphase high-pressure equilibria of carbon dioxide-water-isopropanol. Journal of Supercritical Fluids, 1993, 6, 211-222.	1.6	40
98	Self-Diffusion and Binary Maxwell-Stefan Diffusion Coefficients of Quadrupolar Real Fluids from Molecular Simulation. International Journal of Thermophysics, 2005, 26, 1389-1407.	1.0	40
99	Comparison and validation of simulation codes against sixteen sets of data from four different pilot plants. Energy Procedia, 2009, 1, 1249-1256.	1.8	40
100	Chemical Equilibrium and Reaction Kinetics of Heterogeneously Catalyzed Hexyl Acetate Esterification. Industrial & Engineering Chemistry Research, 2006, 45, 4123-4132.	1.8	38
101	Kinetics of the poly(oxymethylene) glycol formation in aqueous formaldehyde solutions. Industrial & Engineering Chemistry Research, 1991, 30, 2195-2200.	1.8	37
102	Thermodynamic Properties of Aqueous Poly(vinylpyrrolidone) Solutions from Laser-Light-Scattering, Membrane Osmometry, and Isopiestic Measurements. Journal of Chemical & Engineering Data, 2003, 48, 689-698.	1.0	37
103	Joule-Thomson inversion curves of mixtures by molecular simulation in comparison to advanced equations of state: Natural gas as an example. Fluid Phase Equilibria, 2007, 258, 34-40.	1.4	37
104	Molecular dispersion energy parameters for alkali and halide ions in aqueous solution. Journal of Chemical Physics, 2014, 140, 044504.	1.2	36
105	Development of an Integrated Reaction-Distillation Process for the Production of Methylal. Industrial & Engineering Chemistry Research, 2017, 56, 575-582.	1.8	36
106	Influence of dispersive long-range interactions on properties of vapour-liquid equilibria and interfaces of binary Lennard-Jones mixtures. Molecular Physics, 2020, 118, e1699185.	0.8	36
107	Molecular interactions at vapor-liquid interfaces: Binary mixtures of simple fluids. Physical Review E, 2020, 101, 012802.	0.8	36
108	Mass transfer through vapour-liquid interfaces: a molecular dynamics simulation study. Molecular Physics, 2021, 119, e1810798.	0.8	36

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109	Vapor-liquid equilibria of hydrogen chloride, phosgene, benzene, chlorobenzene, ortho-dichlorobenzene, and toluene by molecular simulation. <i>AIChE Journal</i> , 2011, 57, 1043-1060.	1.8	35
110	Analysis of homogeneous distillation processes. <i>Chemical Engineering Science</i> , 2012, 84, 315-332.	1.9	35
111	Interfacial properties of binary mixtures of simple fluids and their relation to the phase diagram. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12544-12564.	1.3	35
112	591 TFLOPS Multi-trillion Particles Simulation on SuperMUC. <i>Lecture Notes in Computer Science</i> , 2013, , 1-12.	1.0	34
113	Parametrization of two-center Lennard-Jones plus point-quadrupole force field models by multicriteria optimization. <i>Fluid Phase Equilibria</i> , 2016, 411, 33-42.	1.4	34
114	Multi-criteria optimization for parameterization of SAFT-type equations of state for water. <i>AIChE Journal</i> , 2018, 64, 226-237.	1.8	34
115	Solubility of Formaldehyde and Trioxane in Aqueous Solutions. <i>Journal of Chemical & Engineering Data</i> , 2004, 49, 642-646.	1.0	33
116	Molecular Modeling and Simulation of Vapor-Liquid Equilibria of Ethylene Oxide, Ethylene Glycol, and Water as Well as their Binary Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7428-7440.	1.8	33
117	Molecular modelling and simulation of the surface tension of real quadrupolar fluids. <i>Chemical Engineering Science</i> , 2015, 121, 110-117.	1.9	32
118	Interfacial and bulk properties of vapor-liquid equilibria in the system toluene-hydrogen chloride-carbon dioxide by molecular simulation and density gradient theory-PC-SAFT. <i>Fluid Phase Equilibria</i> , 2016, 427, 219-230.	1.4	32
119	Thermostatted micro-reactor NMR probe head for monitoring fast reactions. <i>Journal of Magnetic Resonance</i> , 2014, 242, 155-161.	1.2	31
120	Liquid-liquid equilibrium in binary and ternary mixtures containing formaldehyde, water, methanol, methylal, and poly(oxyethylene) dimethyl ethers. <i>Fluid Phase Equilibria</i> , 2016, 425, 127-135.	1.4	31
121	Transport properties of the Lennard-Jones truncated and shifted fluid from non-equilibrium molecular dynamics simulations. <i>Fluid Phase Equilibria</i> , 2019, 482, 38-47.	1.4	31
122	ms2: A molecular simulation tool for thermodynamic properties, release 4.0. <i>Computer Physics Communications</i> , 2021, 262, 107860.	3.0	31
123	Microcalorimetric study of adsorption of human monoclonal antibodies on cation exchange chromatographic materials. <i>Journal of Chromatography A</i> , 2008, 1205, 1-9.	1.8	30
124	Homogeneous nucleation in supersaturated vapors of methane, ethane, and carbon dioxide predicted by brute force molecular dynamics. <i>Journal of Chemical Physics</i> , 2008, 128, 164510.	1.2	30
125	Microcalorimetric study of the adsorption of PEGylated lysozyme on a strong cation exchange resin. <i>Journal of Chromatography A</i> , 2011, 1218, 4720-4726.	1.8	30
126	Thermodynamic and IR spectroscopic studies of solutions with simultaneous association and solvation. <i>Fluid Phase Equilibria</i> , 2003, 208, 23-51.	1.4	29

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127	Distillation of formaldehyde containing mixtures: laboratory experiments, equilibrium stage modeling and simulation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2005, 44, 687-694.	1.8	29
128	Thermal properties of the metastable supersaturated vapor of the Lennard-Jones fluid. <i>Journal of Chemical Physics</i> , 2005, 122, 144506.	1.2	29
129	New Experimental Results for the Vapor-Liquid Equilibrium of the Binary System (Trioxane + Water) and the Ternary System (Formaldehyde + Trioxane + Water). <i>Journal of Chemical & Engineering Data</i> , 2005, 50, 1218-1223.	1.0	29
130	On-line ¹ H NMR spectroscopic investigation of hydrogen bonding in supercritical and near critical CO ₂ -methanol up to 35MPa and 403K. <i>Journal of Supercritical Fluids</i> , 2007, 43, 267-275.	1.6	29
131	A calorimetric study of carbamate formation. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 664-669.	1.0	29
132	A Set of Molecular Models for Alkaline-Earth Cations in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5448-5457.	1.2	29
133	Hydrogen bonding of ethanol in supercritical mixtures with CO ₂ by ¹ H NMR spectroscopy and molecular simulation. <i>Journal of Supercritical Fluids</i> , 2012, 68, 94-103.	1.6	29
134	Design of a Production Process for Poly(oxyethylene) Dimethyl Ethers from Dimethyl Ether and Trioxane. <i>Chemie-Ingenieur-Technik</i> , 2018, 90, 1489-1496.	0.4	29
135	The Influence of Lubrication and the Solid-Fluid Interaction on Thermodynamic Properties in a Nanoscopic Scratching Process. <i>Langmuir</i> , 2019, 35, 16948-16960.	1.6	29
136	Vapor-liquid interfacial properties of the system cyclohexane + CO ₂ : Experiments, molecular simulation and density gradient theory. <i>Fluid Phase Equilibria</i> , 2020, 518, 112583.	1.4	29
137	Engineering Molecular Models: Efficient Parameterization Procedure and Cyclohexanol as Case Study. <i>Soft Materials</i> , 2012, 10, 3-25.	0.8	28
138	On-Line NMR Spectroscopic Reaction Kinetic Study of Urea-Formaldehyde Resin Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 12602-12613.	1.8	28
139	Characterization of Alkylsilane Self-Assembled Monolayers by Molecular Simulation. <i>Langmuir</i> , 2015, 31, 2630-2638.	1.6	28
140	Solvent activity in electrolyte solutions from molecular simulation of the osmotic pressure. <i>Journal of Chemical Physics</i> , 2016, 144, 084112.	1.2	28
141	Multiphase high-pressure equilibria of carbon dioxide-water-acetone. <i>Journal of Supercritical Fluids</i> , 1994, 7, 245-250.	1.6	27
142	Microcalorimetric Study of the Adsorption of PEGylated Lysozyme and PEG on a Mildly Hydrophobic Resin: Influence of Ammonium Sulfate. <i>Langmuir</i> , 2012, 28, 11376-11383.	1.6	27
143	Pilot plant experiments for two new amine solvents for post-combustion carbon dioxide capture. <i>International Journal of Greenhouse Gas Control</i> , 2013, 18, 305-314.	2.3	27
144	Long-range correction for multi-site Lennard-Jones models and planar interfaces. <i>Molecular Physics</i> , 2014, 112, 2227-2234.	0.8	27

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145	Removal of carbon dioxide from flue gases with aqueous MEA solution containing ethanol. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 75, 81-89.	1.8	27
146	Separation of water from mixtures containing formaldehyde, water, methanol, methylal, and poly(oxymethylene) dimethyl ethers by pervaporation. <i>Journal of Membrane Science</i> , 2018, 564, 806-812.	4.1	27
147	Molecular dynamics and phase field simulations of droplets on surfaces with wettability gradient. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 361, 112773.	3.4	27
148	Temperature Dependence of the Density of Aqueous Alkali Halide Salt Solutions by Experiment and Molecular Simulation. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 3434-3448.	1.0	26
149	INES – An Interface Between Experiments and Simulation to Support the Development of Robust Process Designs. <i>Chemie-Ingenieur-Technik</i> , 2015, 87, 1810-1825.	0.4	26
150	Reaction Monitoring by Benchtop NMR Spectroscopy Using a Novel Stationary Flow Reactor Setup. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18125-18133.	1.8	26
151	Application of IR-spectroscopy in thermodynamic investigations of associating solutions. <i>Fluid Phase Equilibria</i> , 2003, 205, 195-214.	1.4	25
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