Joachim GroÃ

List of Publications by Year
in descending order

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145	8,808	109321	43889
papers	citations	35 h-index	91 g-index

150	150	150	3125
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Perturbed-Chain SAFT:â€‰ An Equation of State Based on a Perturbation Theory for Chain Molecules. Industrial & Engineering Chemistry Research, 2001, 40, 1244-1260.	3.7	2,786
2	Application of the Perturbed-Chain SAFT Equation of State to Associating Systems. Industrial & Engineering Chemistry Research, 2002, 41, 5510-5515.	3.7	1,016
3	Modeling Polymer Systems Using the Perturbed-Chain Statistical Associating Fluid Theory Equation of State. Industrial & Engineering Chemistry Research, 2002, 41, 1084-1093.	3.7	357
4	An equation-of-state contribution for polar components: Dipolar molecules. AICHE Journal, 2006, 52, 1194-1204.	3.6	321
5	Application of perturbation theory to a hard-chain reference fluid: an equation of state for square-well chains. Fluid Phase Equilibria, 2000, 168, 183-199.	2.5	294
6	An equation-of-state contribution for polar components: Quadrupolar molecules. AICHE Journal, 2005, 51, 2556-2568.	3.6	249
7	Modeling Copolymer Systems Using the Perturbed-Chain SAFT Equation of State. Industrial & Engineering Chemistry Research, 2003, 42, 1266-1274.	3.7	191
8	Continuous-Molecular Targeting for Integrated Solvent and Process Design. Industrial & Engineering Chemistry Research, 2010, 49, 2834-2840.	3.7	126
9	Modeling of polymer phase equilibria using Perturbed-Chain SAFT. Fluid Phase Equilibria, 2002, 194-197, 541-551.	2.5	124
10	Thermodynamic modeling of complex systems using PC-SAFT. Fluid Phase Equilibria, 2005, 228-229, 89-98.	2.5	122
11	Group Contribution Method for Viscosities Based on Entropy Scaling Using the Perturbed-Chain Polar Statistical Associating Fluid Theory. Industrial & Engineering Chemistry Research, 2015, 54, 7942-7952.	3.7	113
12	An equation of state contribution for polar components: Polarizable dipoles. AICHE Journal, 2006, 52, 1951-1961.	3.6	109
13	Simultaneous Optimization of Working Fluid and Process for Organic Rankine Cycles Using PC-SAFT. Industrial & Engineering Chemistry Research, 2014, 53, 8821-8830.	3.7	108
14	A density functional theory for vapor-liquid interfaces using the PCP-SAFT equation of state. Journal of Chemical Physics, 2009, 131, 204705.	3.0	98
15	Computer-aided molecular design in the continuous-molecular targeting framework using group-contribution PC-SAFT. Computers and Chemical Engineering, 2015, 81, 278-287.	3.8	97
16	Vaporâ^'Liquid Equilibria Simulation and an Equation of State Contribution for Dipoleâ^'Quadrupole Interactions. Journal of Physical Chemistry B, 2008, 112, 51-60.	2.6	91
17	Continuous Molecular Targetingâ€“Computer-Aided Molecular Design (CoMTâ€“CAMD) for Simultaneous Process and Solvent Design for CO₂ Capture. Industrial & Engineering Chemistry Research, 2014, 53, 18029-18041.	3.7	79
18	Classical Density Functional Theory for Liquidâ€“Fluid Interfaces and Confined Systems: A Functional for the Perturbed-Chain Polar Statistical Associating Fluid Theory Equation of State. Industrial & Engineering Chemistry Research, 2017, 56, 4119-4135.	3.7	77

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19	Comparison between a Homo- and a Heterosegmented Group Contribution Approach Based on the Perturbed-Chain Polar Statistical Associating Fluid Theory Equation of State. Industrial & Engineering Chemistry Research, 2014, 53, 14854-14864.	3.7	76
20	Pure Substance and Mixture Viscosities Based on Entropy Scaling and an Analytic Equation of State. Industrial & Engineering Chemistry Research, 2018, 57, 4095-4114.	3.7	76
21	1-stage CoMT-CAMD: An approach for integrated design of ORC process and working fluid using PC-SAFT. Chemical Engineering Science, 2017, 159, 217-230.	3.8	74
22	Thermal Conductivity of Real Substances from Excess Entropy Scaling Using PCP-SAFT. Industrial & Engineering Chemistry Research, 2017, 56, 4527-4538.	3.7	74
23	Dehydration performance of a hydrophobic DD3R zeolite membrane. Journal of Membrane Science, 2008, 321, 344-349.	8.2	69
24	Adsorption and Diffusion of Water, Methanol, and Ethanol in All-Silica DD3R: Experiments and Simulation. Journal of Physical Chemistry C, 2009, 113, 14290-14301.	3.1	69
25	Modeling the phase equilibria of hydrogen sulfide and carbon dioxide in mixture with hydrocarbons and water using the PCP-SAFT equation of state. Fluid Phase Equilibria, 2010, 293, 11-21.	2.5	64
26	From molecules to dollars: integrating molecular design into thermo-economic process design using consistent thermodynamic modeling. Molecular Systems Design and Engineering, 2017, 2, 301-320.	3.4	54
27	Performance and stability of multi-channel MFI zeolite membranes detemplated by calcination and ozonication in ethanol/water pervaporation. Journal of Membrane Science, 2009, 339, 261-274.	8.2	49
28	A Density Functional Theory for Vaporâ€“Liquid Interfaces of Mixtures Using the Perturbed-Chain Polar Statistical Associating Fluid Theory Equation of State. Industrial & Engineering Chemistry Research, 2014, 53, 6169-6178.	3.7	48
29	Transferable Anisotropic United-Atom Force Field Based on the Mie Potential for Phase Equilibrium Calculations: n-Alkanes and n-Olefins. Journal of Physical Chemistry B, 2015, 119, 11695-11707.	2.6	46
30	Self-Diffusion Coefficients from Entropy Scaling Using the PCP-SAFT Equation of State. Industrial & Engineering Chemistry Research, 2018, 57, 12942-12950.	3.7	44
31	Modeling of interfacial properties of multicomponent systems using density gradient theory and PCP-SAFT. Fluid Phase Equilibria, 2017, 439, 31-42.	2.5	43
32	Detemplation of DDR type zeolites by ozonication. Microporous and Mesoporous Materials, 2009, 120, 12-18.	4.4	38
33	Equation of state for aqueous electrolyte systems based on the semirestricted non-primitive mean spherical approximation. Fluid Phase Equilibria, 2010, 297, 23-33.	2.5	38
34	A non-equilibrium thermodynamics approach to model mass and heat transport for water pervaporation through a zeolite membrane. Journal of Membrane Science, 2009, 330, 388-398.	8.2	37
35	Phase Behavior of Hyperbranched Polymer Systems: Experiments and Application of the Perturbed-Chain Polar SAFT Equation of State. Journal of Physical Chemistry B, 2009, 113, 1022-1029.	2.6	36
36	Grand Canonical Monte Carlo Simulations Guided by an Analytic Equation of Stateâ€”Transferable Anisotropic Mie Potentials for Ethers. Journal of Physical Chemistry B, 2015, 119, 7087-7099.	2.6	34

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37	Determining Force Field Parameters Using a Physically Based Equation of State. Journal of Physical Chemistry B, 2011, 115, 7872-7880.	2.6	33
38	Numerical aspects of classical density functional theory for one-dimensional vapor-liquid interfaces. Fluid Phase Equilibria, 2017, 444, 1-12.	2.5	32
39	Reactive Phase Equilibria in Silica Aerogel Synthesis:Â Experimental Study and Prediction of the Complex Phase Behavior Using the PC-SAFT Equation of State. Industrial & Engineering Chemistry Research, 2004, 43, 4457-4464.	3.7	31
40	Developments in the pre-combustion CO2 capture pilot plant at the Buggenum IGCC. Energy Procedia, 2011, 4, 1214-1221.	1.8	31
41	Modeling properties of the one-dimensional vapor-liquid interface: Application of classical density functional and density gradient theory. Fluid Phase Equilibria, 2018, 458, 243-252.	2.5	31
42	Renormalization-Group Corrections to the Perturbed-Chain Statistical Associating Fluid Theory for Binary Mixtures. Industrial & Engineering Chemistry Research, 2010, 49, 9436-9444.	3.7	30
43	Density Functional Theory for Liquidâ€“Liquid Interfaces of Mixtures Using the Perturbed-Chain Polar Statistical Associating Fluid Theory Equation of State. Industrial & Engineering Chemistry Research, 2015, 54, 4633-4642.	3.7	30
44	Detailed pedagogical review and analysis of Wertheim's thermodynamic perturbation theory. Fluid Phase Equilibria, 2016, 428, 121-152.	2.5	30
45	Prediction of Adsorption Isotherms and Selectivities: Comparison between Classical Density Functional Theory Based on the Perturbed-Chain Statistical Associating Fluid Theory Equation of State and Ideal Adsorbed Solution Theory. Langmuir, 2019, 35, 11690-11701.	3.5	30
46	Thermal Conductivity from Entropy Scaling: A Group-Contribution Method. Industrial & Engineering Chemistry Research, 2019, 58, 20441-20449.	3.7	30
47	Nonequilibrium thermodynamics of interfaces using classical density functional theory. Journal of Chemical Physics, 2008, 129, 184703.	3.0	27
48	A critical evaluation of perturbation theories by Monte Carlo simulation of the first four perturbation terms in a Helmholtz energy expansion for the Lennard-Jones fluid. Journal of Chemical Physics, 2017, 147, 014503.	3.0	27
49	Prediction of Contact Angles and Density Profiles of Sessile Droplets Using Classical Density Functional Theory Based on the PCP-SAFT Equation of State. Langmuir, 2018, 34, 12519-12531.	3.5	26
50	On the Selection of Boundary Conditions for Droplet Evaporation and Condensation at high Pressure and Temperature Conditions from interfacial Transport Resistivities. International Journal of Heat and Mass Transfer, 2020, 151, 119450.	4.8	26
51	Modeling of Solid/Fluid Phase Equilibria in Multicomponent Systems at High Pressure. Chemical Engineering and Technology, 2001, 24, 607-612.	1.5	25
52	Simultaneous process and working fluid optimisation for Organic Rankine Cycles (ORC) using PC-SAFT. Computer Aided Chemical Engineering, 2012, , 572-576.	0.5	25
53	Detemplation of [B]MFI zeolite crystals by ozonication. Microporous and Mesoporous Materials, 2009, 120, 35-38.	4.4	24
54	Density functional theory for calculating surface tensions with a simple renormalization formalism for the critical point. Journal of Supercritical Fluids, 2010, 55, 735-742.	3.2	24

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55	Efficient Conversion of Thermal Energy into Hydrogen: Comparing Two Methods to Reduce Exergy Losses in a Sulfuric Acid Decomposition Reactor. Industrial & Engineering Chemistry Research, 2009, 48, 8500-8507.	3.7	23
56	Analysis of Interfacial Transport Resistivities of Pure Components and Mixtures Based on Density Functional Theory. Industrial & Engineering Chemistry Research, 2015, 54, 11483-11492.	3.7	23
57	Transferable Anisotropic United-Atom Force Field Based on the Mie Potential for Phase Equilibria: Aldehydes, Ketones, and Small Cyclic Alkanes. Industrial & Engineering Chemistry Research, 2016, 55, 12123-12132.	3.7	23
58	Surface tension of droplets and Tolman lengths of real substances and mixtures from density functional theory. Journal of Chemical Physics, 2018, 148, 164703.	3.0	23
59	On the importance of non-equilibrium models for describing the coupling of heat and mass transfer at high pressure. International Communications in Heat and Mass Transfer, 2018, 98, 49-58.	5.6	23
60	Towards optimal mixtures of working fluids: Integrated design of processes and mixtures for Organic Rankine Cycles. Renewable and Sustainable Energy Reviews, 2021, 135, 110179.	16.4	23
61	On the Driving Force of Methanol Pervaporation through a Microporous Methylated Silica Membrane. Industrial & Engineering Chemistry Research, 2007, 46, 4091-4099.	3.7	22
62	Thermal Conductivity via Entropy Scaling: An Approach That Captures the Effect of Intramolecular Degrees of Freedom. Industrial & Engineering Chemistry Research, 2019, 58, 18432-18438.	3.7	22
63	Multiobjective Optimization of PCP-SAFT Parameters for Water and Alcohols Using Surface Tension Data. Journal of Chemical & Engineering Data, 2020, 65, 5698-5707.	1.9	22
64	Application of Infinite Dilution Activity Coefficients for Determining Binary Equation of State Parameters. Industrial & Engineering Chemistry Research, 2010, 49, 7646-7653.	3.7	21
65	Guide to efficient solution of PC-SAFT classical Density Functional Theory in various Coordinate Systems using fast Fourier and similar Transforms. Fluid Phase Equilibria, 2020, 504, 112306.	2.5	21
66	Integration of process and solvent design towards a novel generation of CO2 absorption capture systems. Energy Procedia, 2011, 4, 282-290.	1.8	20
67	Integrated design of ORC process and working fluid using process flowsheeting software and PC-SAFT. Energy Procedia, 2017, 129, 129-136.	1.8	20
68	Estimation of the binary interaction parameter k of the PC-SAFT Equation of State based on pure component parameters using a QSPR method. Fluid Phase Equilibria, 2016, 416, 138-149.	2.5	18
69	Non-Equilibrium Thermodynamics for Engineers. , 2017, , .		18
70	Surfactant Modeling Using Classical Density Functional Theory and a Group Contribution PC-SAFT Approach. Industrial & Engineering Chemistry Research, 2021, 60, 7111-7123.	3.7	17
71	The isotropic-nematic phase transition of tangent hard-sphere chain fluidsâ€”Pure components. Journal of Chemical Physics, 2013, 139, 034505.	3.0	16
72	Modified Stokesâ€“Einstein Equation for Molecular Self-Diffusion Based on Entropy Scaling. Industrial & Engineering Chemistry Research, 2021, 60, 4453-4459.	3.7	16

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73	Phase behavior of the system hyperbranched polyglycerol+methanol+carbon dioxide. Fluid Phase Equilibria, 2010, 299, 252-258.	2.5	15
74	Predictive density gradient theory based on nonlocal density functional theory. Physical Review E, 2018, 98, .	2.1	15
75	Free-Energy-Averaged Potentials for Adsorption in Heterogeneous Slit Pores Using PC-SAFT Classical Density Functional Theory. Langmuir, 2021, 37, 3538-3549.	3.5	15
76	Two performance indicators for the characterization of the entropy production in a process unit. Energy, 2011, 36, 3727-3732.	8.8	14
77	Bayesian Model Selection Helps To Choose Objectively between Thermodynamic Models: A Demonstration of Selecting a Viscosity Model Based on Entropy Scaling. Industrial & Engineering Chemistry Research, 2016, 55, 10191-10207.	3.7	14
78	Characterisation of acidâ€“base surface free energy components of ureaâ€“water solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 538, 774-780.	4.7	14
79	A classical density functional theory for vapor-liquid interfaces consistent with the heterosegmented group-contribution perturbed-chain polar statistical associating fluid theory. Fluid Phase Equilibria, 2018, 472, 117-127.	2.5	14
80	Reply to Comment on â€œPerturbed-Chain SAFT: An Equation of State Based on a Perturbation Theory for Chain Moleculesâ€• Industrial & Engineering Chemistry Research, 2019, 58, 5744-5745.	3.7	14
81	An analytical approximation for the orientation-dependent excluded volume of tangent hard sphere chains of arbitrary chain length and flexibility. Journal of Chemical Physics, 2012, 137, 044906.	3.0	13
82	Computer-aided Molecular Design of ORC Working Fluids using PC-SAFT. Computer Aided Chemical Engineering, 2014, , 357-362.	0.5	13
83	Three-body effects in triplets of capped gold nanocrystals. Molecular Physics, 2017, 115, 1031-1040.	1.7	13
84	Heat release at the wetting front during capillary filling of cellulosic micro-substrates. Journal of Colloid and Interface Science, 2017, 504, 751-757.	9.4	13
85	Adsorption of light gases in covalent organic frameworks: comparison of classical density functional theory and grand canonical Monte Carlo simulations. Microporous and Mesoporous Materials, 2021, 324, 111263.	4.4	13
86	An equation of state for the isotropic phase of linear, partially flexible and fully flexible tangent hard-sphere chain fluids. Molecular Physics, 2014, 112, 919-928.	1.7	12
87	A new perturbation theory for electrolyte solutions. Journal of Chemical Physics, 2014, 141, 054103.	3.0	12
88	An analytical equation of state for describing isotropic-nematic phase equilibria of Lennard-Jones chain fluids with variable degree of molecular flexibility. Journal of Chemical Physics, 2015, 142, 244903.	3.0	11
89	Accurate first-order perturbation theory for fluids: uf-theory. Journal of Chemical Physics, 2021, 154, 041102.	3.0	11
90	Accurate thermodynamics of simple fluids and chain fluids based on first-order perturbation theory and second virial coefficients: uv-theory. Journal of Chemical Physics, 2021, 155, 244501.	3.0	11

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91	Basic parameter study for the separation of a isopropanolâ€“water mixture by using FricDiff technology. Chemical Engineering and Processing: Process Intensification, 2007, 46, 810-817.	3.6	10
92	A new equation of state for linear hard chains: Analysis of a third-order expansion of Wertheim's Thermodynamic Perturbation Theory. Fluid Phase Equilibria, 2016, 416, 18-26.	2.5	10
93	Transferability of cross-interaction pair potentials: Vapor-liquid phase equilibria of n-alkane/nitrogen mixtures using the TAMie force field. Fluid Phase Equilibria, 2018, 456, 124-130.	2.5	10
94	Modeling Subsurface Hydrogen Storage With Transport Properties From Entropy Scaling Using the PCâ€SAFT Equation of State. Water Resources Research, 2022, 58, .	4.2	10
95	Effective potentials between gold nano crystals â€“ functional dependence on temperature. Molecular Simulation, 2015, 41, 1153-1158.	2.0	9
96	A Continuous Targeting Approach for Integrated Solvent and Process Design Based on Molecular Thermodynamic Models. Computer Aided Chemical Engineering, 2009, 27, 813-818.	0.5	8
97	Grand canonical Monte Carlo simulations of vapor-liquid equilibria using a bias potential from an analytic equation of state. Journal of Chemical Physics, 2013, 138, 234106.	3.0	8
98	Integrating working fluid design into the thermo-economic design of ORC processes using PC-SAFT. Energy Procedia, 2017, 129, 121-128.	1.8	8
99	Individualized force fields for alkanes, olefins, ethers and ketones based on the transferable anisotropic Mie potential. Fluid Phase Equilibria, 2018, 470, 101-108.	2.5	8
100	Direct numerical simulation of sublimating ice particles. International Journal of Thermal Sciences, 2019, 145, 105953.	4.9	8
101	Dipolar Hard Spheres: Comprehensive Data from Monte Carlo Simulations. Journal of Chemical & Engineering Data, 2019, 64, 827-832.	1.9	8
102	A Modified Shifted Force Approach to the Wolf Summation. Journal of Chemical Theory and Computation, 2019, 15, 572-583.	5.3	8
103	Transferable Anisotropic Mie-Potential Force Field for n-Alcohols: Static and Dynamic Fluid Properties of Pure Substances and Binary Mixtures. Industrial & Engineering Chemistry Research, 2020, 59, 919-929.	3.7	8
104	Modeling the phase equilibria of CO2 and H2S in aqueous electrolyte systems at elevated pressure. Energy Procedia, 2009, 1, 1807-1814.	1.8	7
105	Phase Behavior of the System Linear Polyglycerol + Methanol + Carbon Dioxide. Journal of Chemical & Engineering Data, 2011, 56, 2927-2931.	1.9	7
106	Using an Analytic Equation of State to Obtain Quantitative Solubilities of CO2 by Molecular Simulation. Journal of Physical Chemistry Letters, 2011, 2, 393-396.	4.6	7
107	Theory of model electrolyte solutions: Assessing the short- and long-ranged contributions by molecular simulations. Fluid Phase Equilibria, 2016, 430, 195-206.	2.5	7
108	Modification of the Wolf Method and Evaluation for Molecular Simulation of Vaporâ€“Liquid Equilibria. Journal of Chemical Theory and Computation, 2018, 14, 2198-2206.	5.3	7

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109	An improved group contribution method for PC-SAFT applied to branched alkanes: Data analysis and parameterization. Fluid Phase Equilibria, 2018, 473, 183-191.	2.5	7
110	Transferable Anisotropic United-Atom Mie (TAMie) Force Field: Transport Properties from Equilibrium Molecular Dynamic Simulations. Industrial & Engineering Chemistry Research, 2020, 59, 8855-8869.	3.7	7
111	Hydrodynamic density functional theory for mixtures from a variational principle and its application to droplet coalescence. Journal of Chemical Physics, 2021, 155, 134101.	3.0	7
112	Dielectric constant of mixed solvents based on perturbation theory. Fluid Phase Equilibria, 2022, 555, 113346.	2.5	7
113	Acceleration of Monte-Carlo molecular simulations on hybrid computing architectures. , 2012, , .		6
114	On the Treatment of Electrostatic Interactions of Non-spherical Molecules in Equation of State Models. Soft Materials, 2012, 10, 81-105.	1.7	6
115	Predicting solvation free energies in non-polar solvents using classical density functional theory based on the PC-SAFT equation of state. Journal of Chemical Physics, 2021, 154, 244106.	3.0	6
116	Perturbation theories for fluids with short-ranged attractive forces: A case study of the Lennard-Jones spline fluid. Journal of Chemical Physics, 2022, 156, 104504.	3.0	6
117	Influence of layer slipping on adsorption of light gases in covalent organic frameworks: A combined experimental and computational study. Microporous and Mesoporous Materials, 2022, 336, 111796.	4.4	6
118	Investigating mass transport in zeolite pores by tuning the framework polarity. Studies in Surface Science and Catalysis, 2007, , 942-948.	1.5	5
119	Tuning the framework polarity in MFI membranes by deboronation: Effect on mass transport. Microporous and Mesoporous Materials, 2009, 125, 39-45.	4.4	5
120	The isotropic-nematic and nematic-nematic phase transition of binary mixtures of tangent hard-sphere chain fluids: An analytical equation of state. Journal of Chemical Physics, 2014, 140, 034504.	3.0	5
121	Chemical osmosis in two-phase flow and salinity-dependent capillary pressures in rocks with microporosity. Water Resources Research, 2014, 50, 763-789.	4.2	5
122	On the vapor-liquid equilibrium of attractive chain fluids with variable degree of molecular flexibility. Journal of Chemical Physics, 2015, 142, 224504.	3.0	5
123	Chemical potential of model electrolyte solutions consisting of hard sphere ions and hard dipoles from molecular simulations. Fluid Phase Equilibria, 2016, 429, 205-213.	2.5	5
124	On the use of transport properties to discriminate Mie-type molecular models for 1-propanol optimized against VLE data. European Physical Journal: Special Topics, 2019, 227, 1529-1545.	2.6	5
125	Perturbed-Chain-SAFT. , 2004, , 295-322.		4
126	Identifying Pure-Component Parameters of an Analytic Equation of State Using Experimental Surface Tension or Molecular Simulations with a Transferable Force Field. Industrial & Engineering Chemistry Research, 2018, 57, 12254-12263.	3.7	4

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127	Phase Equilibria of Solid and Fluid Phases from Molecular Dynamics Simulations with Equilibrium and Nonequilibrium Free Energy Methods. Journal of Chemical Theory and Computation, 2019, 15, 3778-3792.	5.3	4
128	Nonprimitive Model Electrolyte Solutions: Comprehensive Data from Monte Carlo Simulations. Journal of Chemical & Engineering Data, 2020, 65, 634-639.	1.9	4
129	Perturbation approaches for describing dipolar fluids and electrolyte solutions. Journal of Chemical Physics, 2020, 153, 044102.	3.0	4
130	Force Fields with Fixed Bond Lengths and with Flexible Bond Lengths: Comparing Static and Dynamic Fluid Properties. Journal of Chemical & Engineering Data, 2020, 65, 1583-1593.	1.9	4
131	A third and fourth order perturbation theory for dipolar hard spheres. Journal of Chemical Physics, 2018, 149, 044901.	3.0	3
132	Polarizable Transferable Anisotropic United-Atom Force Field Based on the Mie Potential for Phase Equilibria: Ethers, n-Alkanes, and Nitrogen. Journal of Chemical Theory and Computation, 2019, 15, 2561-2573.	5.3	3
133	Phase equilibria of binary mixtures with alkanes, ketones, and esters based on the Transferable Anisotropic Mie force field. Fluid Phase Equilibria, 2019, 490, 123-132.	2.5	3
134	A fast inverse Hankel Transform of first Order for computing vector-valued weight Functions appearing in Fundamental Measure Theory in cylindrical Coordinates. Fluid Phase Equilibria, 2020, 511, 112500.	2.5	3
135	Different ways of looking at the force between two nanocrystals. Journal of Chemical Physics, 2015, 143, 244115.	3.0	2
136	One-stage approach for the integrated design of ORC processes and working fluid using PC-SAFT. Computer Aided Chemical Engineering, 2016, 38, 1335-1340.	0.5	2
137	Integrated thermo-economic design of ORC process, working fluid and equipment using PC-SAFT. Computer Aided Chemical Engineering, 2017, , 1795-1800.	0.5	2
138	An equation of state for Stockmayer fluids based on a perturbation theory for dipolar hard spheres. Journal of Chemical Physics, 2019, 151, 104102.	3.0	2
139	Particle methods in natural science and engineering. European Physical Journal: Special Topics, 2019, 227, 1493-1499.	2.6	2
140	Experimental Investigation of Droplet Injections in the Vicinity of the Critical Point: A comparison of different model approaches. , 0, , .		2
141	Extension of Wertheimâ€™s thermodynamic perturbation theory to include higher order graph integrals. Journal of Chemical Physics, 2019, 150, 244902.	3.0	1
142	EquationÂof state and Helmholtz energy functional for fused heterosegmented hard chains. Physical Review E, 2022, 105, 034110.	2.1	1
143	Berechnung von Fest/Fluid-Phasengleichgewichten bei erhÃ¶hten DrÃ¼cken. Chemie-Ingenieur-Technik, 2000, 72, 722-727.	0.8	0
144	Physically-based Thermodynamic Models in Integrated Process and Molecular Design. Computer Aided Chemical Engineering, 2014, 33, 67-72.	0.5	0

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145	Germany's next top molecule: PrÃdiktive Thermodynamik als SchlÃ¼ssel der simultanen Optimierung von Prozess und LÃ¶sungsmittel. Chemie-Ingenieur-Technik, 2018, 90, 1304-1304.	0.8	0