Andreas JÃ¤ger

List of Publications by Year
in descending order

23 papers	477 citations	759233 12 h-index	677142 22 g-index
24 all docs	24 docs citations	24 times ranked	402 citing authors

#	Article	IF	Citations
1	A Benchmark Open-Source Implementation of COSMO-SAC. Journal of Chemical Theory and Computation, 2020, 16, 2635-2646.	5.3	74
2	Equation of State for Solid Carbon Dioxide Based on the Gibbs Free Energy. Journal of Chemical & Engineering Data, 2012, 57, 590-597.	1.9	63
3	Calculation of phase equilibria for multi-component mixtures using highly accurate Helmholtz energy equations of state. Fluid Phase Equilibria, 2014, 375, 209-218.	2.5	63
4	Phase equilibria with hydrate formation in H2O+CO2 mixtures modeled with reference equations of state. Fluid Phase Equilibria, 2013, 338, 100-113.	2.5	40
5	Helmholtz Energy Transformations of Common Cubic Equations of State for Use with Pure Fluids and Mixtures. Journal of Research of the National Institute of Standards and Technology, 2016, 121, 238.	1.2	36
6	Model for gas hydrates applied to CCS systems part I. Parameter study of the van der Waals and Platteeuw model. Fluid Phase Equilibria, 2016, 427, 268-281.	2.5	23
7	Model for gas hydrates applied to CCS systems part III. Results and implementation in TREND 2.0. Fluid Phase Equilibria, 2016, 429, 55-66.	2.5	22
8	Calculation of critical points from Helmholtz-energy-explicit mixture models. Fluid Phase Equilibria, 2017, 433, 159-173.	2.5	22
9	Model for gas hydrates applied to CCS systems part II. Fitting of parameters for models of hydrates of pure gases. Fluid Phase Equilibria, 2017, 435, 104-117.	2.5	19
10	Accurate Thermodynamic-Property Models for CO2-Rich Mixtures. Energy Procedia, 2013, 37, 2914-2922.	1.8	18
11	A combination of multi-fluid mixture models with COSMO-SAC. Fluid Phase Equilibria, 2018, 476, 147-156.	2.5	13
12	A theoretically based departure function for multi-fluid mixture models. Fluid Phase Equilibria, 2018, 469, 56-69.	2.5	12
13	A new approach to model mixed hydrates. Fluid Phase Equilibria, 2018, 459, 170-185.	2.5	12
14	Influence of equations of state and mixture models on the design of a refrigeration process. International Journal of Refrigeration, 2021, 121, 193-205.	3.4	10
15	Algorithm to Identify Vaporâ€"Liquidâ€"Liquid Equilibria of Binary Mixtures from Vaporâ€"Liquid Equilibria. Industrial & Engineering Chemistry Research, 2022, 61, 2592-2599.	3.7	10
16	Modification of a model for mixed hydrates to represent double cage occupancy. Fluid Phase Equilibria, 2019, 490, 48-60.	2.5	9
17	Systematic analysis of additives on the performance parameters of sCO2 cycles and their individual effects on the cycle characteristics. Energy, 2022, 252, 123957.	8.8	7
18	Temperature and pressure correlation for volume of gas hydrates with crystal structures sI and sII. EPJ Web of Conferences, 2017, 143, 02141.	0.3	6

#	Article	IF	Citations
19	The Representation of Cross Second Virial Coefficients by Multifluid Mixture Models and Other Equations of State. Industrial & Engineering Chemistry Research, 2021, 60, 9286-9295.	3.7	4
20	Phase equilibria of carbon dioxide and methane gas-hydrates predicted with the modified analytical S-L-V equation of state. EPJ Web of Conferences, 2012, 25, 01098.	0.3	3
21	Carrier-Fluid Screening for a Three-Phase Sublimation Refrigeration Cycle with CO₂ Using Reference Equations of State and COSMO-SAC. Journal of Chemical & Engineering Data, 2020, 65, 1124-1134.	1.9	3
22	Experimental investigation of a novel cascade refrigeration system with a CO2 sublimation cycle as the lower stage. International Journal of Refrigeration, 2021, 131, 938-946.	3.4	3
23	Ideal Gas Heat Capacity and Critical Properties of HFE-Type Engineering Fluids: Ab Initio Predictions of Cpig, Modeling of Phase Behavior and Thermodynamic Properties Using Pengâ€“Robinson and Volume-Translated Pengâ€“Robinson Equations of State. International Journal of Thermophysics, 2022, 43, 1.	2.1	3