

Gabriele Raabe

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38

papers

836

citations

18

h-index

28

g-index

39

ext. papers

925

ext. citations

3.5

avg, IF

5.14

L-index

#	Paper	IF	Citations
38	Molecular dynamics simulation of the dielectric constant of water: the effect of bond flexibility. <i>Journal of Chemical Physics</i> , 2011 , 134, 234501	3.9	70
37	Molecular Simulation Studies on the Vapor-Liquid Phase Equilibria of Binary Mixtures of R-1234yf and R-1234ze(E) with R-32 and CO ₂ . <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1867-1873	2.8	68
36	A force field for 3,3,3-fluoro-1-propenes, including HFO-1234yf. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 10133-42	3.4	62
35	Thermodynamical and structural properties of imidazolium based ionic liquids from molecular simulation. <i>Journal of Chemical Physics</i> , 2008 , 128, 154509	3.9	56
34	Molecular modeling of fluoropropene refrigerants. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5744-51	3.4	49
33	Molecular dynamics simulation of the effect of bond flexibility on the transport properties of water. <i>Journal of Chemical Physics</i> , 2012 , 137, 104512	3.9	47
32	Molecular simulation of the vapor-liquid coexistence of mercury. <i>Journal of Chemical Physics</i> , 2003 , 119, 6691-6697	3.9	41
31	Molecular Modeling of the Vapor-Liquid Equilibrium Properties of the Alternative Refrigerant 2,3,3,3-Tetrafluoro-1-propene (HFO-1234yf). <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 93-96	6.4	40
30	Influence of bond flexibility on the vapor-liquid phase equilibria of water. <i>Journal of Chemical Physics</i> , 2007 , 126, 044701	3.9	40
29	Evaluation of R-1234ze(Z) as drop-in replacement for R-245fa in Organic Rankine Cycles [From thermophysical properties to cycle performance. <i>Energy</i> , 2015 , 93, 266-274	7.9	39
28	Molecular Simulation Studies on the Vapor-Liquid Equilibria of the cis- and trans-HCFO-1233zd and the cis- and trans-HFO-1336mzz. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 2412-2419	2.8	36
27	Thermodynamical and structural properties of binary mixtures of imidazolium chloride ionic liquids and alcohols from molecular simulation. <i>Journal of Chemical Physics</i> , 2008 , 129, 144503	3.9	34
26	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	6.4	32
25	Experimental studies of phase equilibria in mixtures relevant for the description of natural gases. <i>Fluid Phase Equilibria</i> , 2001 , 185, 199-208	2.5	27
24	Description of HFO-1234yf with BACKONE equation of state. <i>Fluid Phase Equilibria</i> , 2011 , 305, 204-211	2.5	26
23	Molecular simulation studies in hydrofluoroolefine (HFO) working fluids and their blends. <i>Science and Technology for the Built Environment</i> , 2016 , 22, 1077-1089	1.8	24
22	Molecular dynamics studies on liquid-phase dynamics and structures of four different fluoropropenes and their binary mixtures with R-32 and CO ₂ . <i>Journal of Physical Chemistry B</i> , 2014 , 118, 240-54	3.4	22

21	Molecular Simulation Studies on the Thermophysical Properties of the Refrigerant Blend R-445A. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 3470-3476	2.8	20
20	Molecular simulation studies on refrigerants past [present] [future]. <i>Fluid Phase Equilibria</i> , 2019 , 485, 190-198	2.5	17
19	Phase equilibria in the system nitrogen-ethane and their prediction using cubic equations of state with different types of mixing rules. <i>Fluid Phase Equilibria</i> , 2004 , 222-223, 3-9	2.5	13
18	Comparison of RESP and IPolQ-Mod Partial Charges for Solvation Free Energy Calculations of Various Solute/Solvent Pairs. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 6266-6274	6.4	12
17	Molecular Simulation Studies on Thermophysical Properties. <i>Molecular Modeling and Simulation</i> , 2017 ,		11
16	Molecular simulation of the shear viscosity and the self-diffusion coefficient of mercury along the vapor-liquid coexistence curve. <i>Journal of Chemical Physics</i> , 2005 , 123, 34511	3.9	9
15	Efficient solvation free energy simulations: impact of soft-core potential and a new adaptive spacing method. <i>Molecular Physics</i> , 2017 , 115, 1322-1334	1.7	8
14	Transient evaluation of a city bus air conditioning system with R-445A as drop-in [From the molecules to the system. <i>International Journal of Thermal Sciences</i> , 2015 , 96, 355-361	4.1	8
13	Use of ab initio interaction energies for the prediction of phase equilibria in the system nitrogen-ethane. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 926-930	3.6	6
12	Parameterization Approach for a Systematic Extension of the Hydrofluoroolefin Force Field to Fluorinated Butenes and Hydrochlorofluoroolefin Compounds. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 1234-1242	2.8	5
11	Genetic Parameterization of Interfacial Force Fields Based on Classical Bulk Force Fields and Ab Initio Data: Application to the Methanol-ZnO Interfaces. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 6033-6043	6.1	4
10	Purely Predictive Vapor-Liquid Equilibrium Properties of 3,3,4,4,4-Pentafluoro-1-butene (HFO-1345fz), 2,3,3,4,4,4-Hexafluoro-1-butene (HFO-1336yf), and trans-1-Chloro-2,3,3,3-tetrafluoropropene (HCFO-1224yd(E)) from Molecular Simulation. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 1316-1327	2.8	4
9	Molecular simulation data for the vapor-liquid phase equilibria of binary mixtures of HFO-1123 with R-32, R-1234yf, R-1234ze(E), R-134a and CO and their modelling by the PCP-SAFT equation of state. <i>Data in Brief</i> , 2019 , 25, 104014	1.2	1
8	GAFF/IPolQ-Mod+LJ-Fit: Optimized force field parameters for solvation free energy predictions.. <i>ADMET and DMPK</i> , 2020 , 8, 274-296	1.3	1
7	Monte Carlo Simulations. <i>Molecular Modeling and Simulation</i> , 2017 , 31-82		1
6	Applications of Molecular Simulations to Studies on Working Fluids. <i>Molecular Modeling and Simulation</i> , 2017 , 257-289		1
5	Applicability of a thermodynamic cycle approach for a force field parametrization targeting non-aqueous solvation free energies. <i>Journal of Computer-Aided Molecular Design</i> , 2020 , 34, 71-82	4.2	1
4	Dielectric properties of binary hydrofluoroolefin refrigerant mixtures: Comparisons of new experimental data with molecular dynamics simulations. <i>Journal of Chemical Thermodynamics</i> , 2020 , 142, 105985	2.9	1

- 3 Comparison of the GAFF, OPLSAA and CHARMM27 force field for the reproduction of the thermodynamics properties of furfural, 2-methylfuran, 2,5-dimethylfuran and 5-hydroxymethylfurfural. *Fluid Phase Equilibria*, **2022**, 554, 113331 2.5 0
- 2 Molecular Models (Force Fields). *Molecular Modeling and Simulation*, **2017**, 145-189
- 1 Thermophysical and Structural Properties from Molecular Simulation. *Molecular Modeling and Simulation*, **2017**, 191-256