Wael A Fouad

List of Publications by Year
in descending order

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27	602	567281 15	580821 25
papers	citations	h-index	g-index

28	28	28	533
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Next generation of low global warming potential refrigerants: Thermodynamic properties molecular modeling. AICHE Journal, 2018, 64, 250-262.	3.6	58
2	Transport properties of HFC and HFO based refrigerants using an excess entropy scaling approach. Journal of Supercritical Fluids, 2018, 131, 106-116.	3.2	52
3	Understanding the Thermodynamics of Hydrogen Bonding in Alcohol-Containing Mixtures: Cross-Association. Journal of Physical Chemistry B, 2016, 120, 3388-3402.	2.6	46
4	Using mixed tertiary amines for gas sweetening energy requirement reduction. Journal of Natural Gas Science and Engineering, 2013, 11, 12-17.	4.4	44
5	The phase and interfacial properties of azeotropic refrigerants: the prediction of aneotropes from molecular theory. Physical Chemistry Chemical Physics, 2017, 19, 8977-8988.	2.8	36
6	Understanding the Thermodynamics of Hydrogen Bonding in Alcohol-Containing Mixtures: Self Association. Journal of Physical Chemistry B, 2015, 119, 14086-14101.	2.6	31
7	PC-SAFT predictions of VLE and LLE of systems related to biodiesel production. Fluid Phase Equilibria, 2016, 416, 130-137.	2.5	27
8	Isolating the non-polar contributions to the intermolecular potential for water-alkane interactions. Journal of Chemical Physics, 2014, 141, 064905.	3.0	26
9	Application of molecular modeling to the vaporâ€“liquid equilibrium of alkyl esters (biodiesel) and alcohols systems. Fuel, 2015, 161, 34-42.	6.4	25
10	Molecular modeling of the solubility of low global warming potential refrigerants in polyol ester lubricants. International Journal of Refrigeration, 2019, 103, 145-154.	3.4	25
11	Prediction of H₂S and CO₂ Solubilities in Aqueous Triethanolamine Solutions Using a Simple Model of Kentâ€“Eisenberg Type. Industrial & Engineering Chemistry Research, 2012, 51, 6591-6597.	3.7	23
12	Interfacial anomaly in low global warming potential refrigerant blends as predicted by molecular dynamics simulations. Physical Chemistry Chemical Physics, 2019, 21, 22092-22102.	2.8	23
13	On the anomalous composition dependence of viscosity and surface tension in refrigerant blends. Journal of Molecular Liquids, 2018, 268, 190-200.	4.9	22
14	High pressure measurements and molecular modeling of the water content of acid gas containing mixtures. AICHE Journal, 2015, 61, 3038-3052.	3.6	21
15	Solvation of nitrogen compounds in Titanâ€™s seas, precipitates, and atmosphere. Icarus, 2015, 256, 1-12.	2.5	18
16	Examining the Consistency of Water Content Data in Alkanes Using the Perturbed-Chain Form of the Statistical Associating Fluid Theory Equation of State. Journal of Chemical & Engineering Data, 2014, 59, 1016-1023.	1.9	16
17	Molecular dynamic simulation and SAFT modeling of the viscosity and self-diffusion coefficient of low global warming potential refrigerants. Journal of Molecular Liquids, 2020, 317, 113998.	4.9	16
18	Phase behavior of sour natural gas systems using classical and statistical thermodynamic equations of states. Fluid Phase Equilibria, 2013, 356, 136-145.	2.5	15

#	Article	IF	Citations
19	Thermal Conductivity of Pure Fluids and Multicomponent Mixtures Using Residual Entropy Scaling with PC-SAFTâ€"Application to Refrigerant Blends. Journal of Chemical & Engineering Data, 2020, 65, 5688-5697.	1.9	14
20	Predictive Model for Pressureâ€"Volumeâ€"Temperature Properties and Asphaltene Instability of Crude Oils under Gas Injection. Energy & Fuels, 2018, 32, 8318-8328.	5.1	12
21	A combined heat, hydrogen and power tri-generation system based on the use of catalytic membrane reactors with a dual-loop organic Rankine cycle. Energy Conversion and Management, 2020, 222, 113255.	9.2	12
22	Extensions of the SAFT model for complex association in the bulk and interface. Fluid Phase Equilibria, 2016, 416, 62-71.	2.5	10
23	Activity Coefficients from an Equation of State: Novel Approach for Fast Phase Equilibrium Calculations. Industrial & Engineering Chemistry Research, 2021, 60, 17733-17744.	3.7	8
24	Experimental Measurements and Molecular Modeling of the Hydrate Equilibrium as a Function of Water Content for Pressures up to 40 MPa. Industrial & Engineering Chemistry Research, 2015, 54, 9637-9644.	3.7	7
25	Response to â€œComment on â€˜Isolating the non-polar contributions to the intermolecular potential for water-alkane interactionsâ€â€™ [J. Chem. Phys. 144, 137101 (2016)]. Journal of Chemical Physics, 2016, 144, 137102.	3.0	7
26	Combination of monovalent and divalent sites on an associating species: Application to water. AICHE Journal, 2021, 67, e17146.	3.6	3
27	How Molecular Modelling Tools Can Help in Mitigating Climate Change. Molecular Modeling and Simulation, 2021, , 181-220.	0.2	2