# Wael A Fouad

List of Publications by Year
in descending order

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Version: 2024-02-01

| 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 | Combination of monovalent and divalent sites on an associating species: Application to water. AICHE Journal, 2021, 67, e17146. | 3.6 | 3 |
| 2 | How Molecular Modelling Tools Can Help in Mitigating Climate Change. Molecular Modeling and Simulation, 2021, , 181-220. | 0.2 | 2 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | Next generation of low global warming potential refrigerants: Thermodynamic properties molecular modeling. AICHE Journal, 2018, 64, 250-262. | 3.6 | 58 |
| 10 | 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 |
| 11 | On the anomalous composition dependence of viscosity and surface tension in refrigerant blends. Journal of Molecular Liquids, 2018, 268, 190-200. | 4.9 | 22 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Understanding the Thermodynamics of Hydrogen Bonding in Alcohol-Containing Mixtures: Cross-Association. Journal of Physical Chemistry B, 2016, 120, 3388-3402. | 2.6 | 46 |
| 16 | Extensions of the SAFT model for complex association in the bulk and interface. Fluid Phase Equilibria, 2016, 416, 62-71. | 2.5 | 10 |
| 17 | PC-SAFT predictions of VLE and LLE of systems related to biodiesel production. Fluid Phase Equilibria, 2016, 416, 130-137. | 2.5 | 27 |
| 18 | High pressure measurements and molecular modeling of the water content of acid gas containing mixtures. AICHE Journal, 2015, 61, 3038-3052. | 3.6 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Application of molecular modeling to the vaporâ€“liquid equilibrium of alkyl esters (biodiesel) and alcohols systems. Fuel, 2015, 161, 34-42. | 6.4 | 25 |
| 20 | Solvation of nitrogen compounds in Titanâ€™s seas, precipitates, and atmosphere. Icarus, 2015, 256, 1-12. | 2.5 | 18 |
| 21 | 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 |
| 22 | Understanding the Thermodynamics of Hydrogen Bonding in Alcohol-Containing Mixtures: Self Association. Journal of Physical Chemistry B, 2015, 119, 14086-14101. | 2.6 | 31 |
| 23 | Isolating the non-polar contributions to the intermolecular potential for water-alkane interactions. Journal of Chemical Physics, 2014, 141, 064905. | 3.0 | 26 |
| 24 | 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 |
| 25 | 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 |
| 26 | Using mixed tertiary amines for gas sweetening energy requirement reduction. Journal of Natural Gas Science and Engineering, 2013, 11, 12-17. | 4.4 | 44 |
| 27 | Prediction of H<sub>2</sub>S and CO<sub>2</sub> Solubilities in Aqueous Triethanolamine Solutions Using a Simple Model of Kentâ€“Eisenberg Type. Industrial & Engineering Chemistry Research, 2012, 51, 6591-6597. | 3.7 | 23 |