## Ioannis Economou

List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Statistical Associating Fluid Theory:Â A Successful Model for the Calculation of Thermodynamic and<br>Phase Equilibrium Properties of Complex Fluid Mixtures. Industrial & Engineering Chemistry<br>Research, 2002, 41, 953-962.                                  | 1.8 | 320       |
| 2  | Industrial Requirements for Thermodynamics and Transport Properties. Industrial & Engineering Chemistry Research, 2010, 49, 11131-11141.  | 1.8 | 211       |
| 3  | Modeling of the Carbon Dioxide Solubility in Imidazolium-Based Ionic Liquids with the tPC-PSAFT Equation of State. Journal of Physical Chemistry B, 2006, 110, 9262-9269.   | 1.2 | 166       |
| 4  | Engineering a Molecular Model for Water Phase Equilibrium over a Wide Temperature Range. Journal of Physical Chemistry B, 1998, 102, 1029-1035.   | 1.2 | 159       |
| 5  | Associating models and mixing rules in equations of state for water/hydrocarbon mixtures. Chemical Engineering Science, 1997, 52, 511-525.  | 1.9 | 139       |
| 6  | Chemical, quasi-chemical and perturbation theories for associating fluids. AICHE Journal, 1991, 37, 1875-1894.  | 1.8 | 132       |
| 7  | Self-diffusion coefficient of bulk and confined water: a critical review of classical molecular simulation studies. Molecular Simulation, 2019, 45, 425-453.  | 0.9 | 130       |
| 8  | Adsorption of N2, CH4, CO and CO2 gases in single walled carbon nanotubes: A combined experimental and Monte Carlo molecular simulation study. Journal of Supercritical Fluids, 2010, 55, 510-523.  | 1.6 | 125       |
| 9  | ZIF-67 Framework: A Promising New Candidate for Propylene/Propane Separation. Experimental Data and Molecular Simulations. Journal of Physical Chemistry C, 2016, 120, 8116-8124.   | 1.5 | 121       |
| 10 | Water/Hydrocarbon Phase Equilibria Using the Thermodynamic Perturbation Theory. Industrial &<br>Engineering Chemistry Research, 2000, 39, 797-804.  | 1.8 | 120       |
| 11 | Extended statistical associating fluid theory (SAFT) equations of state for dipolar fluids. AICHE<br>Journal, 2005, 51, 2328-2342.  | 1.8 | 118       |
| 12 | Molecular Simulation of Phase Equilibria for Waterâ^'Methane and Waterâ^'Ethane Mixtures. Journal of<br>Physical Chemistry B, 1998, 102, 8865-8873.   | 1.2 | 115       |
| 13 | 1-Octanol/Water Partition Coefficients of <i>n</i> -Alkanes from Molecular Simulations of Absolute Solvation Free Energies. Journal of Chemical Theory and Computation, 2009, 5, 2436-2446.   | 2.3 | 115       |
| 14 | Prediction of the phase equilibria of methane hydrates using the direct phase coexistence methodology. Journal of Chemical Physics, 2015, 142, 044501.  | 1.2 | 111       |
| 15 | Perturbed Chain-Statistical Associating Fluid Theory Extended to Dipolar and Quadrupolar Molecular<br>Fluids. Journal of Physical Chemistry B, 2006, 110, 9252-9261.  | 1.2 | 110       |
| 16 | Transferable Potentials for Phase Equilibria–United Atom Description of Five- and Six-Membered Cyclic Alkanes and Ethers. Journal of Physical Chemistry B, 2012, 116, 11234-11246.  | 1.2 | 106       |
| 17 | Evaluation of Statistical Associating Fluid Theory (SAFT) and Perturbed Chain-SAFT Equations of State for the Calculation of Thermodynamic Derivative Properties of Fluids Related to Carbon Capture and Sequestration. Energy & amp; Fuels, 2011, 25, 3334-3343. | 2.5 | 105       |
| 18 | Nonrandom Hydrogen-Bonding Model of Fluids and Their Mixtures. 1. Pure Fluids. Industrial &<br>Engineering Chemistry Research, 2004, 43, 6592-6606.   | 1.8 | 103       |

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|----|--|-----|-----------|
| 19 | Nonrandom Hydrogen-Bonding Model of Fluids and Their Mixtures. 2. Multicomponent Mixtures.<br>Industrial & Engineering Chemistry Research, 2007, 46, 2628-2636.  | 1.8 | 102       |
| 20 | System-size corrections for self-diffusion coefficients calculated from molecular dynamics<br>simulations: The case of CO2, <i>n</i> -alkanes, and poly(ethylene glycol) dimethyl ethers. Journal of<br>Chemical Physics, 2016, 145, 074109.   | 1.2 | 101       |
| 21 | Evaluation of Cubic, SAFT, and PC-SAFT Equations of State for the Vapor–Liquid Equilibrium Modeling<br>of CO <sub>2</sub> Mixtures with Other Gases. Industrial & Engineering Chemistry Research, 2013,<br>52, 3933-3942.  | 1.8 | 100       |
| 22 | Molecular Simulation Studies of the Diffusion of Methane, Ethane, Propane, and Propylene in ZIF-8.<br>Journal of Physical Chemistry C, 2015, 119, 27028-27037.   | 1.5 | 94        |
| 23 | tPC-PSAFT Modeling of Gas Solubility in Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry<br>C, 2007, 111, 15487-15492.   | 1.5 | 93        |
| 24 | Molecular Dynamics Simulation of <i>n</i> -Alkanes and CO <sub>2</sub> Confined by Calcite<br>Nanopores. Energy & Fuels, 2018, 32, 1934-1941.  | 2.5 | 93        |
| 25 | Molecular Modeling of Imidazolium-Based [Tf <sub>2</sub> N <sup>â^²</sup> ] Ionic Liquids: Microscopic<br>Structure, Thermodynamic and Dynamic Properties, and Segmental Dynamics. Journal of Physical<br>Chemistry B, 2009, 113, 7211-7224.   | 1.2 | 92        |
| 26 | Industrial Requirements for Thermodynamic and Transport Properties: 2020. Industrial &<br>Engineering Chemistry Research, 2021, 60, 4987-5013.   | 1.8 | 90        |
| 27 | Mutual solubilities of hydrocarbons and water: III. 1-hexene; 1-octene; C10C12 hydrocarbons. AICHE<br>Journal, 1997, 43, 535-546.   | 1.8 | 85        |
| 28 | Effect of the Integration Method on the Accuracy and Computational Efficiency of Free Energy<br>Calculations Using Thermodynamic Integration. Journal of Chemical Theory and Computation, 2010, 6,<br>1018-1027.   | 2.3 | 83        |
| 29 | Atomistic Molecular Dynamics Simulations of CO <sub>2</sub> Diffusivity in H <sub>2</sub> O for a Wide Range of Temperatures and Pressures. Journal of Physical Chemistry B, 2014, 118, 5532-5541.   | 1.2 | 83        |
| 30 | Density-tuned polyolefin phase equilibria. 2. Multicomponent solutions of alternating<br>poly(ethylene-propylene) in subcritical and supercritical olefins. Experiment and SAFT model.<br>Macromolecules, 1992, 25, 4987-4995.   | 2.2 | 82        |
| 31 | Equation of state with multiple associating sites for water and water-hydrocarbon mixtures.<br>Industrial & Engineering Chemistry Research, 1992, 31, 2388-2394.   | 1.8 | 73        |
| 32 | Evaluation of the Truncated Perturbed Chain-Polar Statistical Associating Fluid Theory for Complex<br>Mixture Fluid Phase Equilibria. Industrial & Engineering Chemistry Research, 2006, 45, 6063-6074.  | 1.8 | 73        |
| 33 | Computational Study of ZIF-8 and ZIF-67 Performance for Separation of Gas Mixtures. Journal of Physical Chemistry C, 2017, 121, 17999-18011.   | 1.5 | 70        |
| 34 | Evaluation of the Nonrandom Hydrogen Bonding (NRHB) Theory and the Simplified<br>Perturbed-Chainâ~'Statistical Associating Fluid Theory (sPC-SAFT). 1. Vaporâ~'Liquid Equilibria. Industrial<br>& Engineering Chemistry Research, 2008, 47, 5636-5650.   | 1.8 | 68        |
| 35 | Evaluation of the Nonrandom Hydrogen Bonding (NRHB) Theory and the Simplified<br>Perturbed-Chainâ^Statistical Associating Fluid Theory (sPC-SAFT). 2. Liquidâ^'Liquid Equilibria and<br>Prediction of Monomer Fraction in Hydrogen Bonding Systems. Industrial & Engineering<br>Chemistry Research 2008 47 5651-5659 | 1.8 | 68        |
| 36 | Viscosity, Interfacial Tension, Self-Diffusion Coefficient, Density, and Refractive Index of the Ionic<br>Liquid 1-Ethyl-3-methylimidazolium Tetracyanoborate as a Function of Temperature at Atmospheric<br>Pressure. Journal of Chemical & Engineering Data, 2012, 57, 828-835.                                    | 1.0 | 68        |

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|----|---|-----|-----------|
| 37 | Morphology and Organization of Poly(propylene imine) Dendrimers in the Melt from Molecular<br>Dynamics Simulation. Macromolecules, 2002, 35, 1814-1821.   | 2.2 | 66        |
| 38 | On the calculation of the chemical potential using the particle deletion scheme. Molecular Physics, 1999, 96, 905-913.  | 0.8 | 64        |
| 39 | Molecular Simulation of Diffusion of Hydrogen, Carbon Monoxide, and Water in Heavy<br><i>n</i> -Alkanes. Journal of Physical Chemistry B, 2011, 115, 1429-1439.   | 1.2 | 63        |
| 40 | Molecular simulation of thermodynamic and transport properties for the H2O+NaCl system. Journal of Chemical Physics, 2014, 141, 234507.   | 1.2 | 63        |
| 41 | Thermodynamic and Transport Properties of H <sub>2</sub> O + NaCl from Polarizable Force Fields.<br>Journal of Chemical Theory and Computation, 2015, 11, 3802-3810.  | 2.3 | 63        |
| 42 | The role of intermolecular interactions in the prediction of the phase equilibria of carbon dioxide hydrates. Journal of Chemical Physics, 2015, 143, 094506.   | 1.2 | 58        |
| 43 | Phase Equilibria of Mixtures Containing Chain Molecules Predicted through a Novel Simulation Scheme. Physical Review Letters, 1998, 80, 4466-4469.  | 2.9 | 57        |
| 44 | Thermodynamics of pharmaceuticals: Prediction of solubility in pure and mixed solvents with PC-SAFT.<br>Fluid Phase Equilibria, 2011, 302, 331-337.   | 1.4 | 56        |
| 45 | Molecular Dynamics Simulation of Pure <i>n</i> -Alkanes and Their Mixtures at Elevated Temperatures<br>Using Atomistic and Coarse-Grained Force Fields. Journal of Physical Chemistry B, 2019, 123, 6229-6243.                | 1.2 | 56        |
| 46 | Use of monomer fraction data in the parametrization of association theories. Fluid Phase Equilibria, 2010, 296, 219-229.  | 1.4 | 55        |
| 47 | Transport Properties of Shale Gas in Relation to Kerogen Porosity. Journal of Physical Chemistry C, 2018, 122, 6166-6177.   | 1.5 | 55        |
| 48 | Molecular Dynamics Simulations of Electric Field Poled Nonlinear Optical Chromophores<br>Incorporated in a Polymer Matrix. Journal of Physical Chemistry B, 2004, 108, 588-596.   | 1.2 | 54        |
| 49 | Atomistic Molecular Dynamics Simulations of Carbon Dioxide Diffusivity in <i>n</i> -Hexane,<br><i>n</i> -Decane, <i>n</i> -Hexadecane, Cyclohexane, and Squalane. Journal of Physical Chemistry B,<br>2016, 120, 12890-12900. | 1.2 | 53        |
| 50 | A transient outflow model for pipeline puncture. Chemical Engineering Science, 2003, 58, 4591-4604.   | 1.9 | 52        |
| 51 | Anisotropic parallel self-diffusion coefficients near the calcite surface: A molecular dynamics study.<br>Journal of Chemical Physics, 2016, 145, 084702.   | 1.2 | 51        |
| 52 | Equations of state: From the ideas of van der Waals to association theories. Journal of Supercritical Fluids, 2010, 55, 421-437.  | 1.6 | 50        |
| 53 | Modeling of Bulk Kerogen Porosity: Methods for Control and Characterization. Energy & Fuels, 2017, 31, 6004-6018.   | 2.5 | 49        |
| 54 | Thermodynamics of Chain Fluids from Atomistic Simulation:  A Test of the Chain Increment Method for Chemical Potential. Macromolecules, 1997, 30, 4744-4755.  | 2.2 | 47        |

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|----|--|-----|-----------|
| 55 | Molecular Simulation of Phase Equilibria for Waterâ^'n-Butane and Waterâ^'n-Hexane Mixtures. Journal of Physical Chemistry B, 2000, 104, 4958-4963.  | 1.2 | 47        |
| 56 | A thermodynamic model for strong aqueous electrolytes based on the eSAFT-VR Mie equation of state.<br>Fluid Phase Equilibria, 2018, 464, 47-63.  | 1.4 | 47        |
| 57 | Tailoring the gas separation efficiency of metal organic framework ZIF-8 through metal substitution:<br>a computational study. Physical Chemistry Chemical Physics, 2018, 20, 4879-4892.   | 1.3 | 47        |
| 58 | Molecular Dynamics Simulation of Structure and Thermodynamic Properties of<br>Poly(dimethylsilamethylene) and Hydrocarbon Solubility Therein: Toward the Development of Novel<br>Membrane Materials for Hydrocarbon Separation. Macromolecules, 2004, 37, 1102-1112. | 2.2 | 46        |
| 59 | Modeling the Phase Behavior in Mixtures of Pharmaceuticals with Liquid or Supercritical Solvents.<br>Journal of Physical Chemistry B, 2009, 113, 6446-6458.  | 1.2 | 46        |
| 60 | Characterization of Long Linear and Branched Alkanes and Alcohols for Temperatures up to 573.15 K by<br>Surface Light Scattering and Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2020,<br>124, 4146-4163.                                       | 1.2 | 46        |
| 61 | Self-diffusion coefficients of the binary (H 2 O + CO 2 ) mixture at high temperatures and pressures.<br>Journal of Chemical Thermodynamics, 2016, 93, 424-429.  | 1.0 | 45        |
| 62 | Equations of state for hydrogen bonding systems. Fluid Phase Equilibria, 1996, 116, 518-529.   | 1.4 | 44        |
| 63 | Equation of state modeling of the phase equilibria of ionic liquid mixtures at low and high pressure.<br>Physical Chemistry Chemical Physics, 2008, 10, 6160.  | 1.3 | 44        |
| 64 | Prediction of the <i>n</i> â€hexane/water and 1â€octanol/water partition coefficients for<br>environmentally relevant compounds using molecular simulation. AICHE Journal, 2012, 58, 1929-1938.  | 1.8 | 44        |
| 65 | Modeling the phase equilibria of a H <sub>2</sub> O–CO <sub>2</sub> mixture with PC-SAFT and tPC-PSAFT equations of state. Molecular Physics, 2012, 110, 1205-1212.  | 0.8 | 42        |
| 66 | Calculation of the chemical potential of chain molecules using the staged particle deletion scheme.<br>Journal of Chemical Physics, 2001, 115, 8231-8237.  | 1.2 | 41        |
| 67 | Simultaneous Determination of Thermal and Mutual Diffusivity of Binary Mixtures of<br><i>n</i> -Octacosane with Carbon Monoxide, Hydrogen, and Water by Dynamic Light Scattering.<br>Journal of Physical Chemistry B, 2014, 118, 3981-3990.                          | 1.2 | 41        |
| 68 | Fast numerical simulation for full bore rupture of pressurized pipelines. AICHE Journal, 1999, 45, 1191-1201.  | 1.8 | 40        |
| 69 | Phase equilibrium calculations for multi-component polar fluid mixtures with tPC-PSAFT. Fluid Phase Equilibria, 2007, 261, 265-271.  | 1.4 | 40        |
| 70 | Influence of simulation protocols on the efficiency of Gibbs ensemble Monte Carlo simulations.<br>Molecular Simulation, 2013, 39, 1135-1142.   | 0.9 | 40        |
| 71 | An integrated, multi-scale modelling approach for the simulation of multiphase dispersion from accidental CO2 pipeline releases in realistic terrain. International Journal of Greenhouse Gas Control, 2014, 27, 221-238.  | 2.3 | 40        |
| 72 | Hydrogen-Bonding Polarizable Intermolecular Potential Model for Water. Journal of Physical Chemistry B, 2016, 120, 12358-12370.  | 1.2 | 40        |

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|----|--|-----|-----------|
| 73 | Thermophysical Properties of the Ionic Liquids [EMIM][B(CN) <sub>4</sub> ] and<br>[HMIM][B(CN) <sub>4</sub> ]. Journal of Physical Chemistry B, 2013, 117, 8512-8523.  | 1.2 | 39        |
| 74 | Direct phase coexistence molecular dynamics study of the phase equilibria of the ternary<br>methane–carbon dioxide–water hydrate system. Physical Chemistry Chemical Physics, 2016, 18,<br>23538-23548.  | 1.3 | 39        |
| 75 | Molecular dynamics simulations of the diffusion coefficients of light n-alkanes in water over a wide range of temperature and pressure. Fluid Phase Equilibria, 2016, 407, 236-242.  | 1.4 | 39        |
| 76 | Structure and Volumetric Properties of Linear and Triarm Star Polyethylenes from Atomistic Monte<br>Carlo Simulation Using New Internal Rearrangement Moves. Macromolecules, 2005, 38, 386-397.  | 2.2 | 38        |
| 77 | Monte Carlo simulation of carbon monoxide, carbon dioxide and methane adsorption on activated carbon. Molecular Physics, 2012, 110, 1153-1160.   | 0.8 | 38        |
| 78 | Atomistic molecular dynamics simulations of H <sub>2</sub> O diffusivity in liquid and supercritical CO <sub>2</sub> . Molecular Physics, 2015, 113, 2805-2814.  | 0.8 | 38        |
| 79 | Thermophysical properties of diphenylmethane and dicyclohexylmethane as a reference liquid organic<br>hydrogen carrier system from experiments and molecular simulations. International Journal of<br>Hydrogen Energy, 2020, 45, 28903-28919.          | 3.8 | 38        |
| 80 | Methane solubility in aqueous solutions under two-phase (H–Lw) hydrate equilibrium conditions.<br>Fluid Phase Equilibria, 2014, 371, 106-120.  | 1.4 | 37        |
| 81 | Henry's Constant Analysis for Water and Nonpolar Solvents from Experimental Data, Macroscopic<br>Models, and Molecular Simulation. Journal of Physical Chemistry B, 2001, 105, 7792-7798.  | 1.2 | 36        |
| 82 | Thermodynamic and transport property models for carbon capture and sequestration (CCS) processes with emphasis on CO2 transport. Chemical Engineering Research and Design, 2013, 91, 1793-1806.  | 2.7 | 36        |
| 83 | Optimization of Intermolecular Potential Parameters for the CO <sub>2</sub> /H <sub>2</sub> O<br>Mixture. Journal of Physical Chemistry B, 2014, 118, 11504-11511.   | 1.2 | 35        |
| 84 | Modeling the solid–liquid equilibrium in pharmaceuticalâ€ <b>s</b> olvent mixtures: Systems with complex<br>hydrogen bonding behavior. AICHE Journal, 2009, 55, 756-770.   | 1.8 | 34        |
| 85 | Diffusion in Homogeneous and in Inhomogeneous Media: A New Unified Approach. Journal of Chemical Theory and Computation, 2016, 12, 5247-5255.  | 2.3 | 34        |
| 86 | Gaussian-Charge Polarizable and Nonpolarizable Models for CO <sub>2</sub> . Journal of Physical<br>Chemistry B, 2016, 120, 984-994.  | 1.2 | 34        |
| 87 | Atomistic Simulation of Poly(dimethylsiloxane):Â Force Field Development, Structure, and<br>Thermodynamic Properties of Polymer Melt and Solubility ofn-Alkanes,n-Perfluoroalkanes, and Noble<br>and Light Gases. Macromolecules, 2007, 40, 1720-1729. | 2.2 | 33        |
| 88 | Molecular Dynamics Simulation of Water-Based Fracturing Fluids in Kaolinite Slit Pores. Journal of<br>Physical Chemistry C, 2018, 122, 17170-17183.  | 1.5 | 33        |
| 89 | Equation of State Description of Thermodynamic Properties of Near-Critical and Supercritical Water.<br>The Journal of Physical Chemistry, 1994, 98, 12080-12085.   | 2.9 | 32        |
| 90 | Influence of combining rules on the cavity occupancy of clathrate hydrates by Monte Carlo simulations. Molecular Physics, 2014, 112, 2258-2274.  | 0.8 | 32        |

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|-----|---|-----|-----------|
| 91  | Predictions of water/oil interfacial tension at elevated temperatures and pressures: A molecular<br>dynamics simulation study with biomolecular force fields. Fluid Phase Equilibria, 2018, 476, 30-38.                                 | 1.4 | 32        |
| 92  | On the Efficient Separation of Gas Mixtures with the Mixed-Linker Zeolitic-Imidazolate Framework-7-8.<br>ACS Applied Materials & Interfaces, 2018, 10, 39631-39644.   | 4.0 | 32        |
| 93  | Benchmark Database Containing Binary-System-High-Quality-Certified Data for Cross-Comparing<br>Thermodynamic Models and Assessing Their Accuracy. Industrial & Engineering Chemistry<br>Research, 2020, 59, 14981-15027.                | 1.8 | 32        |
| 94  | Mutual and Self-Diffusivities in Binary Mixtures of [EMIM][B(CN) <sub>4</sub> ] with Dissolved Gases<br>by Using Dynamic Light Scattering and Molecular Dynamics Simulations. Journal of Physical Chemistry<br>B, 2015, 119, 8583-8592. | 1.2 | 31        |
| 95  | Thermophysical properties of imidazolium tricyanomethanide ionic liquids: experiments and molecular simulation. Physical Chemistry Chemical Physics, 2016, 18, 23121-23138.   | 1.3 | 31        |
| 96  | Using molecular simulation to predict solute solvation and partition coefficients in solvents of different polarity. Physical Chemistry Chemical Physics, 2011, 13, 9155.   | 1.3 | 30        |
| 97  | Hydrate – fluid phase equilibria modeling using PC-SAFT and Peng–Robinson equations of state. Fluid<br>Phase Equilibria, 2016, 413, 209-219.  | 1.4 | 30        |
| 98  | Enthalpy of dissociation of methane hydrates at a wide pressure and temperature range. Fluid Phase<br>Equilibria, 2019, 489, 30-40.   | 1.4 | 30        |
| 99  | Phase behavior of LCST and UCST solutions of branchy copolymers: experiment and SAFT modelling.<br>Fluid Phase Equilibria, 1993, 83, 391-398.   | 1.4 | 29        |
| 100 | Molecular Simulation of α-Olefins Using a New United-Atom Potential Model:  Vaporâ^'Liquid Equilibria<br>of Pure Compounds and Mixtures. Journal of the American Chemical Society, 1999, 121, 3407-3413.                                | 6.6 | 29        |
| 101 | Modeling of fluid phase equilibria with two thermodynamic theories: Non-random hydrogen bonding (NRHB) and statistical associating fluid theory (SAFT). Fluid Phase Equilibria, 2007, 253, 19-28.                                       | 1.4 | 29        |
| 102 | CO2PipeHaz: Quantitative Hazard Assessment for Next Generation CO2 Pipelines. Energy Procedia, 2014, 63, 2510-2529.   | 1.8 | 29        |
| 103 | Molecular Dynamics Simulation of Highly Confined Glassy Ionic Liquids. Journal of Physical Chemistry C, 2016, 120, 1013-1024.   | 1.5 | 29        |
| 104 | Statistical Mechanical Model for Adsorption Coupled with SAFT-VR Mie Equation of State. Langmuir, 2017, 33, 11291-11298.  | 1.6 | 29        |
| 105 | Mean field calculations of thermodynamic properties of supercritical fluids. AICHE Journal, 1990, 36, 1920-1925.  | 1.8 | 28        |
| 106 | Equations of state and activity coefficient models for vapor-liquid equilibria of polymer solutions.<br>AICHE Journal, 1994, 40, 1711-1727.   | 1.8 | 28        |
| 107 | Development of a united-atom force field for 1-ethyl-3-methylimidazolium tetracyanoborate ionic<br>liquid. Molecular Physics, 2012, 110, 1115-1126.   | 0.8 | 28        |
| 108 | Diffusivities of Ternary Mixtures of <i>n</i> -Alkanes with Dissolved Gases by Dynamic Light<br>Scattering. Journal of Physical Chemistry B, 2016, 120, 10808-10823.  | 1.2 | 28        |

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| 109 | Monte Carlo simulation studies of clathrate hydrates: A review. Journal of Supercritical Fluids, 2018, 134, 51-60.  | 1.6 | 28        |
| 110 | Computation of partial molar properties using continuous fractional component Monte Carlo.<br>Molecular Physics, 2018, 116, 3331-3344.  | 0.8 | 28        |
| 111 | Modeling fluid phase transition effects on dynamic behavior of ESDV. AICHE Journal, 2000, 46, 997-1006.   | 1.8 | 27        |
| 112 | Thermodynamics of Lewis acid-base mixtures. AICHE Journal, 1990, 36, 1851-1864.   | 1.8 | 26        |
| 113 | Water-Salt Phase Equilibria at Elevated Temperatures and Pressures: Model Development and Mixture<br>Predictions. The Journal of Physical Chemistry, 1995, 99, 6182-6193.   | 2.9 | 26        |
| 114 | Storage of Methane in Clathrate Hydrates: Monte Carlo Simulations of sI Hydrates and Comparison with Experimental Measurements. Journal of Chemical & Engineering Data, 2016, 61, 2886-2896.  | 1.0 | 26        |
| 115 | Phase Equilibria of Water/CO <sub>2</sub> and Water/ <i>n</i> Alkane Mixtures from Polarizable<br>Models. Journal of Physical Chemistry B, 2017, 121, 1386-1395.  | 1.2 | 26        |
| 116 | Molecular Modeling of Thermodynamic and Transport Properties for CO <sub>2</sub> and Aqueous<br>Brines. Accounts of Chemical Research, 2017, 50, 751-758.   | 7.6 | 26        |
| 117 | Transport properties of silmethylene homo-polymers and random copolymers: experimental measurements and molecular simulation. Polymer, 2004, 45, 6933-6944.   | 1.8 | 25        |
| 118 | Techno-economic assessment of CO 2 quality effect on its storage and transport: CO 2 QUEST.<br>International Journal of Greenhouse Gas Control, 2016, 54, 662-681.  | 2.3 | 25        |
| 119 | Molecular dynamics simulations of pure methane and carbon dioxide hydrates: lattice constants and derivative properties. Molecular Physics, 2016, 114, 2672-2687.   | 0.8 | 24        |
| 120 | Evaluation of SAFT and PC-SAFT models for the description of homo- and co-polymer solution phase equilibria. Polymer, 2005, 46, 10772-10781.  | 1.8 | 23        |
| 121 | Atomistic Simulation of Poly(dimethylsiloxane) Permeability Properties to Gases and <i>n</i> -Alkanes.<br>Macromolecules, 2008, 41, 5899-5907.  | 2.2 | 23        |
| 122 | Structure, thermodynamic and transport properties of imidazolium-based<br>bis(trifluoromethylsulfonyl)imide ionic liquids from molecular dynamics simulations. Molecular<br>Physics, 2012, 110, 1139-1152.  | 0.8 | 23        |
| 123 | Delayed Linker Addition (DLA) Synthesis for Hybrid SOD ZIFs with Unsubstituted Imidazolate Linkers for<br>Propylene/Propane and nâ€Butane/iâ€Butane Separations. Angewandte Chemie - International Edition, 2021,<br>60, 10103-10111.                             | 7.2 | 23        |
| 124 | Solubilities of solid polynuclear aromatics (PNA's) in supercritical ethylene and ethane from<br>statistical associating fluid theory (SAFT): toward separating PNA's by size and structure. Industrial<br>& Engineering Chemistry Research, 1992, 31, 2620-2624. | 1.8 | 22        |
| 125 | Modeling of multicomponent vapor–liquid equilibria for polymer–solvent systems. Fluid Phase<br>Equilibria, 2004, 220, 11-20.  | 1.4 | 22        |
| 126 | Predicting hydration Gibbs energies of alkyl-aromatics using molecular simulation: a comparison of current force fields and the development of a new parameter set for accurate solvation data. Physical Chemistry Chemical Physics, 2011, 13, 17384.             | 1.3 | 22        |

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| 127 | Modeling of CO2 solubility in single and mixed electrolyte solutions using statistical associating fluid theory. Geochimica Et Cosmochimica Acta, 2016, 176, 185-197.  | 1.6 | 22        |
| 128 | On the validity of the Stokes–Einstein relation for various water force fields. Molecular Physics,<br>2020, 118, e1702729.   | 0.8 | 22        |
| 129 | Defining New Limits in Cas Separations Using Modified ZIF Systems. ACS Applied Materials &<br>Interfaces, 2020, 12, 20536-20547.   | 4.0 | 22        |
| 130 | Molecular Dynamics Simulation of Structure, Thermodynamic, and Dynamic Properties of<br>Poly(dimethylsilamethylene), Poly(dimethylsilatrimethylene) and Their Alternating Copolymer. Journal<br>of Physical Chemistry B, 2006, 110, 16047-16058.             | 1.2 | 21        |
| 131 | Viscosity of heavy n -alkanes and diffusion of gases therein based on molecular dynamics simulations and empirical correlations. Journal of Chemical Thermodynamics, 2015, 91, 101-107.  | 1.0 | 21        |
| 132 | Quantifying Pore Width Effects on Diffusivity via a Novel 3D Stochastic Approach with Input from<br>Atomistic Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2019, 15,<br>6907-6922.  | 2.3 | 21        |
| 133 | Kirkwood-Buff Integrals Using Molecular Simulation: Estimation of Surface Effects. Nanomaterials, 2020, 10, 771.   | 1.9 | 21        |
| 134 | Atomistic Simulation of the Sorption of Small Gas Molecules in Polyisobutylene. Macromolecules, 2008, 41, 6228-6238.   | 2.2 | 20        |
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