

Ioannis Economou

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3549281/publications.pdf>

Version: 2024-02-01

236
papers

8,618
citations

38660

50
h-index

69108

77
g-index

252
all docs

252
docs citations

252
times ranked

5251
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Rigorous Phase Equilibrium Calculation Methods for Strong Electrolyte Solutions: The Isothermal Flash. <i>Fluid Phase Equilibria</i> , 2022, 558, 113441. | 1.4 | 4 |
| 2 | Data mining for predicting gas diffusivity in zeolitic-imidazolate frameworks (ZIFs). <i>Journal of Materials Chemistry A</i> , 2022, 10, 13697-13703. | 5.2 | 11 |
| 3 | Diffusion of fluids confined in carbonate minerals: A molecular dynamics simulation study for carbon dioxide and methane-ethane mixture within calcite. <i>Fuel</i> , 2022, 325, 124800. | 3.4 | 4 |
| 4 | Molecular Dynamics Simulation of the <i>n</i> -Octacosane-Water Mixture Confined in Graphene Mesopores: Comparison of Atomistic and Coarse-Grained Calculations and the Effect of Catalyst Nanoparticle. <i>Energy & Fuels</i> , 2021, 35, 4313-4332. | 2.5 | 5 |
| 5 | Delayed Linker Addition (DLA) Synthesis for Hybrid SOD ZIFs with Unsubstituted Imidazolate Linkers for Propylene/Propane and n-Butane/i-Butane Separations. <i>Angewandte Chemie</i> , 2021, 133, 10191-10199. | 1.6 | 5 |
| 6 | Delayed Linker Addition (DLA) Synthesis for Hybrid SOD ZIFs with Unsubstituted Imidazolate Linkers for Propylene/Propane and n-Butane/i-Butane Separations. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10103-10111. | 7.2 | 23 |
| 7 | Industrial Requirements for Thermodynamic and Transport Properties: 2020. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4987-5013. | 1.8 | 90 |
| 8 | Water-Hydrocarbon Phase Equilibria with SAFT-VR Mie Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 5278-5299. | 1.8 | 8 |
| 9 | Modeling confined fluids with the multicomponent potential theory of adsorption and the SAFT-VR Mie equation of state. <i>Fluid Phase Equilibria</i> , 2021, 534, 112941. | 1.4 | 6 |
| 10 | Assessment of the Perturbed Chain-Statistical Associating Fluid Theory Equation of State against a Benchmark Database of High-Quality Binary-System Data. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 8935-8946. | 1.8 | 20 |
| 11 | Monte Carlo Molecular Simulation Study of Carbon Dioxide Sequestration into Dry and Wet Calcite Pores Containing Methane. <i>Energy & Fuels</i> , 2021, 35, 11393-11402. | 2.5 | 7 |
| 12 | Modeling of Gas Solubility in Aqueous Electrolyte Solutions with the eSAFT-VR Mie Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 15327-15342. | 1.8 | 19 |
| 13 | What is the Optimal Activity Coefficient Model to Be Combined with the <i>consistent</i> Peng-Robinson Equation of State through Advanced Mixing Rules? Cross-Comparison and Grading of the Wilson, UNIQUAC, and NRTL <i>E</i> Models against a Benchmark Database Involving 200 Binary Systems. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 17229-17247. | 1.8 | 12 |
| 14 | Construction of phase envelopes for binary and multicomponent mixtures with Euler-Newton predictor-corrector methods. <i>Fluid Phase Equilibria</i> , 2020, 505, 112338. | 1.4 | 5 |
| 15 | A Practical Methodology to Estimate the H_2 Storage Capacity of Pure and Binary Hydrates Based on Monte Carlo Simulations. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 1289-1299. | 1.0 | 10 |
| 16 | On the validity of the Stokes-Einstein relation for various water force fields. <i>Molecular Physics</i> , 2020, 118, e1702729. | 0.8 | 22 |
| 17 | Thermophysical properties of diphenylmethane and dicyclohexylmethane as a reference liquid organic hydrogen carrier system from experiments and molecular simulations. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28903-28919. | 3.8 | 38 |
| 18 | Benchmark Database Containing Binary-System-High-Quality-Certified Data for Cross-Comparing Thermodynamic Models and Assessing Their Accuracy. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14981-15027. | 1.8 | 32 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Molecular dynamics simulation of the n-octacosane-water mixture confined in hydrophilic and hydrophobic mesopores: The effect of oxygenates. <i>Fluid Phase Equilibria</i> , 2020, 526, 112816. | 1.4 | 3 |
| 20 | Encapsulation of [bmim ⁺][Tf ₂ N ⁻] in different ZIF-8 metal analogues and evaluation of their CO ₂ selectivity over CH ₄ and N ₂ using molecular simulation. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1230-1238. | 1.7 | 9 |
| 21 | Novel methodology for the calculation of the enthalpy of enclathration of methane hydrates using molecular dynamics simulations. <i>Molecular Physics</i> , 2020, 118, e1711976. | 0.8 | 1 |
| 22 | Kirkwood-Buff Integrals Using Molecular Simulation: Estimation of Surface Effects. <i>Nanomaterials</i> , 2020, 10, 771. | 1.9 | 21 |
| 23 | Characterization of Long Linear and Branched Alkanes and Alcohols for Temperatures up to 573.15 K by Surface Light Scattering and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4146-4163. | 1.2 | 46 |
| 24 | Defining New Limits in Gas Separations Using Modified ZIF Systems. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20536-20547. | 4.0 | 22 |
| 25 | Efficient and robust methods for direct saturation point calculations. <i>Fluid Phase Equilibria</i> , 2019, 500, 112242. | 1.4 | 4 |
| 26 | Molecular Dynamics Simulation of Pure <i>n</i> -Alkanes and Their Mixtures at Elevated Temperatures Using Atomistic and Coarse-Grained Force Fields. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6229-6243. | 1.2 | 56 |
| 27 | Quantifying Pore Width Effects on Diffusivity via a Novel 3D Stochastic Approach with Input from Atomistic Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6907-6922. | 2.3 | 21 |
| 28 | Recent Advances in Experimental Measurements of Mixed-Gas Three-Phase Hydrate Equilibria for Gas Mixture Separation and Energy-Related Applications. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 4991-5016. | 1.0 | 17 |
| 29 | Computational investigation of the performance of ZIF-8 with encapsulated ionic liquids towards CO ₂ capture. <i>Molecular Physics</i> , 2019, 117, 3791-3805. | 0.8 | 13 |
| 30 | Enthalpy of dissociation of methane hydrates at a wide pressure and temperature range. <i>Fluid Phase Equilibria</i> , 2019, 489, 30-40. | 1.4 | 30 |
| 31 | Molecular dynamics simulation of electrolyte solutions confined by calcite mesopores. <i>Fluid Phase Equilibria</i> , 2019, 487, 24-32. | 1.4 | 11 |
| 32 | Self-diffusion coefficient of bulk and confined water: a critical review of classical molecular simulation studies. <i>Molecular Simulation</i> , 2019, 45, 425-453. | 0.9 | 130 |
| 33 | Modeling the phase equilibria of asymmetric hydrocarbon mixtures using molecular simulation and equations of state. <i>AIChE Journal</i> , 2019, 65, 792-803. | 1.8 | 11 |
| 34 | A thermodynamic model for strong aqueous electrolytes based on the eSAFT-VR Mie equation of state. <i>Fluid Phase Equilibria</i> , 2018, 464, 47-63. | 1.4 | 47 |
| 35 | Transport Properties of Shale Gas in Relation to Kerogen Porosity. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6166-6177. | 1.5 | 55 |
| 36 | Modeling of physical properties and vapor-liquid equilibrium of ethylene and ethylene mixtures with equations of state. <i>Fluid Phase Equilibria</i> , 2018, 470, 149-163. | 1.4 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Tailoring the gas separation efficiency of metal organic framework ZIF-8 through metal substitution: a computational study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4879-4892. | 1.3 | 47 |
| 38 | Molecular Dynamics Simulation of <i>n</i> -Alkanes and CO ₂ Confined by Calcite Nanopores. <i>Energy & Fuels</i> , 2018, 32, 1934-1941. | 2.5 | 93 |
| 39 | Solubility of Methane and Carbon Dioxide in the Aqueous Phase of the Ternary (Methane + Carbon) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 505 | 1.0 | 15 |
| 40 | Predictions of water/oil interfacial tension at elevated temperatures and pressures: A molecular dynamics simulation study with biomolecular force fields. <i>Fluid Phase Equilibria</i> , 2018, 476, 30-38. | 1.4 | 32 |
| 41 | Identification of conditions for increased methane storage capacity in sll and sH clathrate hydrates from Monte Carlo simulations. <i>Journal of Chemical Thermodynamics</i> , 2018, 117, 128-137. | 1.0 | 17 |
| 42 | Monte Carlo simulation studies of clathrate hydrates: A review. <i>Journal of Supercritical Fluids</i> , 2018, 134, 51-60. | 1.6 | 28 |
| 43 | Monte Carlo simulations of the separation of a binary gas mixture (CH ₄ +) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 505 | 1.3 | 17 |
| 44 | On the Efficient Separation of Gas Mixtures with the Mixed-Linker Zeolitic-Imidazolate Framework-7-8. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39631-39644. | 4.0 | 32 |
| 45 | CO ₂ selective metal organic framework ZIF-8 modified through ionic liquid encapsulation: A computational study. <i>Journal of Computational Science</i> , 2018, 27, 183-191. | 1.5 | 17 |
| 46 | Using clathrate hydrates for gas storage and gas-mixture separations: experimental and computational studies at multiple length scales. <i>Molecular Physics</i> , 2018, 116, 2041-2060. | 0.8 | 18 |
| 47 | Molecular Dynamics Simulation of Water-Based Fracturing Fluids in Kaolinite Slit Pores. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17170-17183. | 1.5 | 33 |
| 48 | Computation of partial molar properties using continuous fractional component Monte Carlo. <i>Molecular Physics</i> , 2018, 116, 3331-3344. | 0.8 | 28 |
| 49 | Solidâ€“Liquidâ€“Gas Equilibrium of Methaneâ€“ <i>n</i> -Alkane Binary Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 8566-8583. | 1.8 | 5 |
| 50 | Storage of H ₂ in Clathrate Hydrates: Evaluation of Different Force-Fields used in Monte Carlo Simulations. <i>Molecular Physics</i> , 2017, 115, 1274-1285. | 0.8 | 16 |
| 51 | Phase Equilibria of Water/CO ₂ and Water/ <i>n</i> -Alkane Mixtures from Polarizable Models. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1386-1395. | 1.2 | 26 |
| 52 | Molecular Modeling of Thermodynamic and Transport Properties for CO ₂ and Aqueous Brines. <i>Accounts of Chemical Research</i> , 2017, 50, 751-758. | 7.6 | 26 |
| 53 | Thermophysical Properties of Homologous Tetracyanoborate-Based Ionic Liquids Using Experiments and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4145-4157. | 1.2 | 16 |
| 54 | Modeling of Bulk Kerogen Porosity: Methods for Control and Characterization. <i>Energy & Fuels</i> , 2017, 31, 6004-6018. | 2.5 | 49 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Statistical Mechanical Model for Adsorption Coupled with SAFT-VR Mie Equation of State. <i>Langmuir</i> , 2017, 33, 11291-11298. | 1.6 | 29 |
| 56 | Computational Study of ZIF-8 and ZIF-67 Performance for Separation of Gas Mixtures. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17999-18011. | 1.5 | 70 |
| 57 | Two- and three-phase equilibrium experimental measurements for the ternary CH ₄ + CO ₂ + H ₂ O mixture. <i>Fluid Phase Equilibria</i> , 2017, 451, 96-105. | 1.4 | 15 |
| 58 | Characterization of Water Solubility in <i>n</i> -Octacosane Using Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10665-10673. | 1.2 | 13 |
| 59 | Two-body perturbation theory versus first order perturbation theory: A comparison based on the square-well fluid. <i>Journal of Chemical Physics</i> , 2017, 147, 214108. | 1.2 | 11 |
| 60 | 13 The Role of Molecular Thermodynamics in Developing Industrial Processes and Novel Products That Meet the Needs for a Sustainable Future. <i>Green Chemistry and Chemical Engineering</i> , 2017, , 633-660. | 0.0 | 2 |
| 61 | The effect of lattice constant on the storage capacity of hydrogen hydrates: a Monte Carlo study. <i>Molecular Physics</i> , 2016, 114, 2664-2671. | 0.8 | 18 |
| 62 | Calculation of the phase envelope of multicomponent mixtures with the bead spring method. <i>AIChE Journal</i> , 2016, 62, 868-879. | 1.8 | 14 |
| 63 | Atomistic Molecular Dynamics Simulations of Carbon Dioxide Diffusivity in <i>n</i> -Hexane, <i>n</i> -Decane, <i>n</i> -Hexadecane, Cyclohexane, and Squalane. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12890-12900. | 1.2 | 53 |
| 64 | Lattice constants of pure methane and carbon dioxide hydrates at low temperatures. Implementing quantum corrections to classical molecular dynamics studies. <i>Journal of Chemical Physics</i> , 2016, 144, 124512. | 1.2 | 20 |
| 65 | System-size corrections for self-diffusion coefficients calculated from molecular dynamics simulations: The case of CO ₂ , <i>n</i> -alkanes, and poly(ethylene glycol) dimethyl ethers. <i>Journal of Chemical Physics</i> , 2016, 145, 074109. | 1.2 | 101 |
| 66 | Anisotropic parallel self-diffusion coefficients near the calcite surface: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2016, 145, 084702. | 1.2 | 51 |
| 67 | Equation-of-State Modeling of Solid-Liquid-Gas Equilibrium of CO ₂ Binary Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6213-6226. | 1.8 | 15 |
| 68 | Phase Equilibrium with External Fields: Application to Confined Fluids. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 2873-2885. | 1.0 | 15 |
| 69 | Diffusion in Homogeneous and in Inhomogeneous Media: A New Unified Approach. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5247-5255. | 2.3 | 34 |
| 70 | Molecular Simulation of <i>n</i> -Octacosane-Water Mixture in Titania Nanopores at Elevated Temperature and Pressure. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24743-24753. | 1.5 | 14 |
| 71 | Techno-economic assessment of CO ₂ quality effect on its storage and transport: CO ₂ QUEST. <i>International Journal of Greenhouse Gas Control</i> , 2016, 54, 662-681. | 2.3 | 25 |
| 72 | Thermophysical properties of imidazolium tricyanomethanide ionic liquids: experiments and molecular simulation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23121-23138. | 1.3 | 31 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Direct phase coexistence molecular dynamics study of the phase equilibria of the ternary methane-carbon dioxide-water hydrate system. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23538-23548. | 1.3 | 39 |
| 74 | Thermodynamics 2015 Conference Copenhagen, Denmark, 15-18 September 2015. <i>Molecular Physics</i> , 2016, 114, 2569-2573. | 0.8 | 3 |
| 75 | Thermodynamic interpolation for the simulation of two-phase flow of non-ideal mixtures. <i>Computers and Chemical Engineering</i> , 2016, 95, 49-57. | 2.0 | 13 |
| 76 | Storage of Methane in Clathrate Hydrates: Monte Carlo Simulations of sl Hydrates and Comparison with Experimental Measurements. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 2886-2896. | 1.0 | 26 |
| 77 | Molecular dynamics simulations of pure methane and carbon dioxide hydrates: lattice constants and derivative properties. <i>Molecular Physics</i> , 2016, 114, 2672-2687. | 0.8 | 24 |
| 78 | Diffusivities of Ternary Mixtures of <i>n</i> -Alkanes with Dissolved Gases by Dynamic Light Scattering. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10808-10823. | 1.2 | 28 |
| 79 | Hydrogen-Bonding Polarizable Intermolecular Potential Model for Water. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12358-12370. | 1.2 | 40 |
| 80 | Kenneth R. Hall - A Distinguished Educator, Scientist, and University Administrator. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 2649-2650. | 1.0 | 1 |
| 81 | Development of a novel experimental apparatus for hydrate equilibrium measurements. <i>Fluid Phase Equilibria</i> , 2016, 424, 152-161. | 1.4 | 10 |
| 82 | Hydrate fluid phase equilibria modeling using PC-SAFT and Peng-Robinson equations of state. <i>Fluid Phase Equilibria</i> , 2016, 413, 209-219. | 1.4 | 30 |
| 83 | ZIF-67 Framework: A Promising New Candidate for Propylene/Propane Separation. <i>Experimental Data and Molecular Simulations. Journal of Physical Chemistry C</i> , 2016, 120, 8116-8124. | 1.5 | 121 |
| 84 | Molecular simulations of imidazolium-based tricyanomethanide ionic liquids using an optimized classical force field. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6850-6860. | 1.3 | 15 |
| 85 | Gaussian-Charge Polarizable and Nonpolarizable Models for CO ₂ . <i>Journal of Physical Chemistry B</i> , 2016, 120, 984-994. | 1.2 | 34 |
| 86 | Modeling of CO ₂ solubility in single and mixed electrolyte solutions using statistical associating fluid theory. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 176, 185-197. | 1.6 | 22 |
| 87 | Molecular Dynamics Simulation of Highly Confined Glassy Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1013-1024. | 1.5 | 29 |
| 88 | Molecular dynamics simulations of the diffusion coefficients of light n-alkanes in water over a wide range of temperature and pressure. <i>Fluid Phase Equilibria</i> , 2016, 407, 236-242. | 1.4 | 39 |
| 89 | Self-diffusion coefficients of the binary (H ₂ O + CO ₂) mixture at high temperatures and pressures. <i>Journal of Chemical Thermodynamics</i> , 2016, 93, 424-429. | 1.0 | 45 |
| 90 | The role of intermolecular interactions in the prediction of the phase equilibria of carbon dioxide hydrates. <i>Journal of Chemical Physics</i> , 2015, 143, 094506. | 1.2 | 58 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Atomistic Simulations of Clathrate Hydrates. , 2015, , 351-359. | | 2 |
| 92 | Prediction of the phase equilibria of methane hydrates using the direct phase coexistence methodology. Journal of Chemical Physics, 2015, 142, 044501. | 1.2 | 111 |
| 93 | Evaluation of the Efficiency of Clathrate Hydrates in Storing Energy Gases. Journal of Physics: Conference Series, 2015, 640, 012026. | 0.3 | 4 |
| 94 | Gas Solubility in Aqueous Solutions Under Two-Phase (H ₂ O) Hydrate Equilibrium Conditions. , 2015, , 205-212. | | 0 |
| 95 | Mutual and Self-Diffusivities in Binary Mixtures of [EMIM][B(CN) ₄] with Dissolved Gases by Using Dynamic Light Scattering and Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2015, 119, 8583-8592. | 1.2 | 31 |
| 96 | Thermodynamic and Transport Properties of H ₂ O + NaCl from Polarizable Force Fields. Journal of Chemical Theory and Computation, 2015, 11, 3802-3810. | 2.3 | 63 |
| 97 | Atomistic molecular dynamics simulations of H ₂ O diffusivity in liquid and supercritical CO ₂ . Molecular Physics, 2015, 113, 2805-2814. | 0.8 | 38 |
| 98 | 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 |
| 99 | Molecular Simulation Studies of the Diffusion of Methane, Ethane, Propane, and Propylene in ZIF-8. Journal of Physical Chemistry C, 2015, 119, 27028-27037. | 1.5 | 94 |
| 100 | Molecular Thermodynamic Models for CO ₂ and Mixtures: Recent Developments and Applications for Process Design. , 2015, , 361-370. | | 0 |
| 101 | CO ₂ PipeHaz: Quantitative Hazard Assessment for Next Generation CO ₂ Pipelines. Energy Procedia, 2014, 63, 2510-2529. | 1.8 | 29 |
| 102 | CO ₂ QUEST: Techno-economic Assessment of CO ₂ Quality Effect on Its Storage and Transport. Energy Procedia, 2014, 63, 2622-2629. | 1.8 | 19 |
| 103 | Influence of combining rules on the cavity occupancy of clathrate hydrates using van der Waals's "Platteeuw-theory-based modelling. Chemical Engineering Research and Design, 2014, 92, 2992-3007. | 2.7 | 12 |
| 104 | Industrial use of thermodynamics workshop: Round table discussion on 8 July 2014. Chemical Engineering Research and Design, 2014, 92, 2795-2796. | 2.7 | 14 |
| 105 | Influence of combining rules on the cavity occupancy of clathrate hydrates by Monte Carlo simulations. Molecular Physics, 2014, 112, 2258-2274. | 0.8 | 32 |
| 106 | Molecular simulation of thermodynamic and transport properties for the H ₂ O+NaCl system. Journal of Chemical Physics, 2014, 141, 234507. | 1.2 | 63 |
| 107 | Methane solubility in aqueous solutions under two-phase (H ₂ O) hydrate equilibrium conditions. Fluid Phase Equilibria, 2014, 371, 106-120. | 1.4 | 37 |
| 108 | Analysis of the heterogeneous dynamics of imidazolium-based [Tf ₂ N ⁺] ⁺ ionic liquids using molecular simulation. Molecular Physics, 2014, 112, 2694-2706. | 0.8 | 14 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Atomistic Molecular Dynamics Simulations of CO ₂ Diffusivity in H ₂ O for a Wide Range of Temperatures and Pressures. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5532-5541. | 1.2 | 83 |
| 110 | Optimization of Intermolecular Potential Parameters for the CO ₂ /H ₂ O Mixture. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11504-11511. | 1.2 | 35 |
| 111 | Simultaneous Determination of Thermal and Mutual Diffusivity of Binary Mixtures of <i>n</i> -Octacosane with Carbon Monoxide, Hydrogen, and Water by Dynamic Light Scattering. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3981-3990. | 1.2 | 41 |
| 112 | An integrated, multi-scale modelling approach for the simulation of multiphase dispersion from accidental CO ₂ pipeline releases in realistic terrain. <i>International Journal of Greenhouse Gas Control</i> , 2014, 27, 221-238. | 2.3 | 40 |
| 113 | Thermophysical Properties of the Ionic Liquids [EMIM][B(CN) ₄] and [HMIM][B(CN) ₄]. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8512-8523. | 1.2 | 39 |
| 114 | Influence of simulation protocols on the efficiency of Gibbs ensemble Monte Carlo simulations. <i>Molecular Simulation</i> , 2013, 39, 1135-1142. | 0.9 | 40 |
| 115 | Thermodynamic and transport property models for carbon capture and sequestration (CCS) processes with emphasis on CO ₂ transport. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1793-1806. | 2.7 | 36 |
| 116 | Evaluation of Cubic, SAFT, and PC-SAFT Equations of State for the Vapor-Liquid Equilibrium Modeling of CO ₂ Mixtures with Other Gases. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 3933-3942. | 1.8 | 100 |
| 117 | Transferable Potentials for Phase Equilibria—United Atom Description of Five- and Six-Membered Cyclic Alkanes and Ethers. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11234-11246. | 1.2 | 106 |
| 118 | Monte Carlo simulation of carbon monoxide, carbon dioxide and methane adsorption on activated carbon. <i>Molecular Physics</i> , 2012, 110, 1153-1160. | 0.8 | 38 |
| 119 | Viscosity, Interfacial Tension, Self-Diffusion Coefficient, Density, and Refractive Index of the Ionic Liquid 1-Ethyl-3-methylimidazolium Tetracyanoborate as a Function of Temperature at Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 828-835. | 1.0 | 68 |
| 120 | Thermodynamics 2011 Conference Athens, Greece, 31 August–3 September 2011 http://www.thermodynamics2011.org/ . <i>Molecular Physics</i> , 2012, 110, 1053-1056. | 0.8 | 5 |
| 121 | Modeling the phase equilibria of a H ₂ O–CO ₂ mixture with PC-SAFT and tPC-PSAFT equations of state. <i>Molecular Physics</i> , 2012, 110, 1205-1212. | 0.8 | 42 |
| 122 | Structure, thermodynamic and transport properties of imidazolium-based bis(trifluoromethylsulfonyl)imide ionic liquids from molecular dynamics simulations. <i>Molecular Physics</i> , 2012, 110, 1139-1152. | 0.8 | 23 |
| 123 | Molecular simulation and macroscopic modeling of the diffusion of hydrogen, carbon monoxide and water in heavy n-alkane mixtures. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4133. | 1.3 | 17 |
| 124 | Prediction of the <i>n</i> -hexane/water and 1-octanol/water partition coefficients for environmentally relevant compounds using molecular simulation. <i>AIChE Journal</i> , 2012, 58, 1929-1938. | 1.8 | 44 |
| 125 | Development of a united-atom force field for 1-ethyl-3-methylimidazolium tetracyanoborate ionic liquid. <i>Molecular Physics</i> , 2012, 110, 1115-1126. | 0.8 | 28 |
| 126 | Molecular Modeling of Gas Treatment Processes with Emphasis to GTL Process. , 2012, , 319-325. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | 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. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 17384. | 1.3 | 22 |
| 128 | Phase Equilibria in Binary Mixtures of Propane and Phenanthrene: Experimental Data and Modeling with the GC-EoS. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 1407-1413. | 1.0 | 2 |
| 129 | Using molecular simulation to predict solute solvation and partition coefficients in solvents of different polarity. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9155. | 1.3 | 30 |
| 130 | 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. <i>Energy & Fuels</i> , 2011, 25, 3334-3343. | 2.5 | 105 |
| 131 | Molecular Simulation of Diffusion of Hydrogen, Carbon Monoxide, and Water in Heavy <i>n</i> -Alkanes. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1429-1439. | 1.2 | 63 |
| 132 | Thermodynamics of pharmaceuticals: Prediction of solubility in pure and mixed solvents with PC-SAFT. <i>Fluid Phase Equilibria</i> , 2011, 302, 331-337. | 1.4 | 56 |
| 133 | Molecular simulation of structure, thermodynamic and transport properties of polyacrylonitrile, polystyrene and their alternating copolymers in high temperatures. <i>European Polymer Journal</i> , 2011, 47, 735-745. | 2.6 | 17 |
| 134 | Partition coefficients of organic molecules in squalane and water/ethanol mixtures by molecular dynamics simulations. <i>Fluid Phase Equilibria</i> , 2011, 306, 162-170. | 1.4 | 2 |
| 135 | Structural and dynamical analysis of monodisperse and polydisperse colloidal systems. <i>Journal of Chemical Physics</i> , 2010, 133, 224901. | 1.2 | 6 |
| 136 | Effect of the Integration Method on the Accuracy and Computational Efficiency of Free Energy Calculations Using Thermodynamic Integration. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1018-1027. | 2.3 | 83 |
| 137 | Molecular simulation of the hydration Gibbs energy of barbiturates. <i>Fluid Phase Equilibria</i> , 2010, 289, 148-155. | 1.4 | 17 |
| 138 | Molecular simulation of absolute hydration Gibbs energies of polar compounds. <i>Fluid Phase Equilibria</i> , 2010, 296, 110-115. | 1.4 | 18 |
| 139 | Use of monomer fraction data in the parametrization of association theories. <i>Fluid Phase Equilibria</i> , 2010, 296, 219-229. | 1.4 | 55 |
| 140 | Adsorption of N ₂ , CH ₄ , CO and CO ₂ gases in single walled carbon nanotubes: A combined experimental and Monte Carlo molecular simulation study. <i>Journal of Supercritical Fluids</i> , 2010, 55, 510-523. | 1.6 | 125 |
| 141 | Predicting fluid phase equilibrium via histogram reweighting with Gibbs ensemble Monte Carlo simulations. <i>Journal of Supercritical Fluids</i> , 2010, 55, 503-509. | 1.6 | 7 |
| 142 | Equations of state: From the ideas of van der Waals to association theories. <i>Journal of Supercritical Fluids</i> , 2010, 55, 421-437. | 1.6 | 50 |
| 143 | Prediction of microscopic structure and physical properties of complex fluid mixtures based on molecular simulation. <i>Fluid Phase Equilibria</i> , 2010, 296, 125-132. | 1.4 | 11 |
| 144 | The Role of Molecular Thermodynamics and Simulation in Natural Gas Sustainable Processes. , 2010, , 299-309. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Inductive construction of 2-connected graphs for calculating the virial coefficients. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 315004. | 0.7 | 0 |
| 146 | Industrial Requirements for Thermodynamics and Transport Properties. Industrial & Engineering Chemistry Research, 2010, 49, 11131-11141. | 1.8 | 211 |
| 147 | Cubic and Generalized van der Waals Equations of State. , 2010, , 53-83. | | 5 |
| 148 | Phase equilibrium of colloidal suspensions with particle size dispersity: A Monte Carlo study. Journal of Chemical Physics, 2009, 130, 194902. | 1.2 | 11 |
| 149 | Modeling the solid-liquid equilibrium in pharmaceutical-solvent mixtures: Systems with complex hydrogen bonding behavior. AIChE Journal, 2009, 55, 756-770. | 1.8 | 34 |
| 150 | Molecular Modeling of Imidazolium-Based [Tf ₂ N ⁺] ⁻ Ionic Liquids: Microscopic Structure, Thermodynamic and Dynamic Properties, and Segmental Dynamics. Journal of Physical Chemistry B, 2009, 113, 7211-7224. | 1.2 | 92 |
| 151 | Evaluation of the Nonrandom Hydrogen Bonding (NRHB) Theory and the Simplified Perturbed-Chain-Statistical Associating Fluid Theory (sPC-SAFT). 2. Liquid-Liquid Equilibria and Prediction of Monomer Fraction in Hydrogen Bonding Systems. Industrial & Engineering Chemistry Research, 2009, 48, 7860-7860. | 1.8 | 3 |
| 152 | 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 |
| 153 | Modeling the Phase Behavior in Mixtures of Pharmaceuticals with Liquid or Supercritical Solvents. Journal of Physical Chemistry B, 2009, 113, 6446-6458. | 1.2 | 46 |
| 154 | Determination of liquid-gas partition coefficients of BuA and MMA by headspace-gas chromatography utilizing the phase ratio variation method. Fluid Phase Equilibria, 2008, 266, 21-30. | 1.4 | 1 |
| 155 | Equation of state modeling of the phase equilibria of ionic liquid mixtures at low and high pressure. Physical Chemistry Chemical Physics, 2008, 10, 6160. | 1.3 | 44 |
| 156 | Evaluation of the Nonrandom Hydrogen Bonding (NRHB) Theory and the Simplified Perturbed-Chain-Statistical Associating Fluid Theory (sPC-SAFT). 1. Vapor-Liquid Equilibria. Industrial & Engineering Chemistry Research, 2008, 47, 5636-5650. | 1.8 | 68 |
| 157 | Evaluation of the Nonrandom Hydrogen Bonding (NRHB) Theory and the Simplified Perturbed-Chain-Statistical Associating Fluid Theory (sPC-SAFT). 2. Liquid-Liquid Equilibria and Prediction of Monomer Fraction in Hydrogen Bonding Systems. Industrial & Engineering Chemistry Research, 2008, 47, 5651-5659. | 1.8 | 68 |
| 158 | Atomistic Simulation of the Sorption of Small Gas Molecules in Polyisobutylene. Macromolecules, 2008, 41, 6228-6238. | 2.2 | 20 |
| 159 | Atomistic Simulation of Poly(dimethylsiloxane) Permeability Properties to Gases and <i>n</i> -Alkanes. Macromolecules, 2008, 41, 5899-5907. | 2.2 | 23 |
| 160 | Multi-scale Modeling of Structure, Dynamic and Thermodynamic Properties of Imidazolium-based Ionic Liquids: Ab initio DFT Calculations, Molecular Simulation and Equation of State Predictions. Oil and Gas Science and Technology, 2008, 63, 283-293. | 1.4 | 20 |
| 161 | Solubility of gases and solvents in silicon polymers: molecular simulation and equation of state modeling. Molecular Simulation, 2007, 33, 851-860. | 0.9 | 17 |
| 162 | Atomistic Simulation of Poly(dimethylsiloxane): Force Field Development, Structure, and Thermodynamic Properties of Polymer Melt and Solubility of <i>n</i> -Alkanes, <i>n</i> -Perfluoroalkanes, and Noble and Light Gases. Macromolecules, 2007, 40, 1720-1729. | 2.2 | 33 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Nonrandom Hydrogen-Bonding Model of Fluids and Their Mixtures. 2. Multicomponent Mixtures. Industrial & Engineering Chemistry Research, 2007, 46, 2628-2636. | 1.8 | 102 |
| 164 | Novel Monte Carlo Molecular Simulation Scheme Using Identity-Altering Elementary Moves for the Calculation of Structure and Thermodynamic Properties of Polyolefin Blends. Macromolecules, 2007, 40, 2904-2914. | 2.2 | 8 |
| 165 | tPC-PSAFT Modeling of Gas Solubility in Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry C, 2007, 111, 15487-15492. | 1.5 | 93 |
| 166 | Molecular Modeling of Polydimethylsiloxane Mixtures. AIP Conference Proceedings, 2007, , . | 0.3 | 0 |
| 167 | Phase Equilibrium of Colloid Systems with Particle Size Dispersity: A Monte Carlo Study. AIP Conference Proceedings, 2007, , . | 0.3 | 0 |
| 168 | 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 |
| 169 | Phase equilibrium calculations for multi-component polar fluid mixtures with tPC-PSAFT. Fluid Phase Equilibria, 2007, 261, 265-271. | 1.4 | 40 |
| 170 | Amorphous and crystalline states of ultrasoft colloids: a molecular dynamics study. Rheologica Acta, 2007, 46, 755-764. | 1.1 | 2 |
| 171 | Calculation of the effect of macromolecular architecture on structure and thermodynamic properties of linear tri-arm polyethylene blends from Monte Carlo simulation. Polymer, 2007, 48, 3883-3892. | 1.8 | 6 |
| 172 | Evaluation of the Truncated Perturbed Chain-Polar Statistical Associating Fluid Theory for Complex Mixture Fluid Phase Equilibria. Industrial & Engineering Chemistry Research, 2006, 45, 6063-6074. | 1.8 | 73 |
| 173 | Perturbed Chain-Statistical Associating Fluid Theory Extended to Dipolar and Quadrupolar Molecular Fluids. Journal of Physical Chemistry B, 2006, 110, 9252-9261. | 1.2 | 110 |
| 174 | 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 |
| 175 | Monte Carlo Simulation of the Phase Behavior of Model Dendrimers. Macromolecules, 2006, 39, 6298-6305. | 2.2 | 16 |
| 176 | Molecular Dynamics Simulation of Structure, Thermodynamic, and Dynamic Properties of Poly(dimethylsilamethylene), Poly(dimethylsilatrimethylene) and Their Alternating Copolymer. Journal of Physical Chemistry B, 2006, 110, 16047-16058. | 1.2 | 21 |
| 177 | Molecular simulation of structure and thermodynamic properties of pure tri- and tetra-ethylene glycols and their aqueous mixtures. Fluid Phase Equilibria, 2006, 248, 134-146. | 1.4 | 12 |
| 178 | Temperature-induced crystallization in concentrated suspensions of multiarm star polymers: A molecular dynamics study. Journal of Chemical Physics, 2006, 124, 044905. | 1.2 | 15 |
| 179 | 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 |
| 180 | Molecular simulation of structure, thermodynamic and transport properties of polymeric membrane materials for hydrocarbon separation. Fluid Phase Equilibria, 2005, 228-229, 15-20. | 1.4 | 16 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 181 | Structure and Volumetric Properties of Linear and Triarm Star Polyethylenes from Atomistic Monte Carlo Simulation Using New Internal Rearrangement Moves. <i>Macromolecules</i> , 2005, 38, 386-397. | 2.2 | 38 |
| 182 | Extended statistical associating fluid theory (SAFT) equations of state for dipolar fluids. <i>AIChE Journal</i> , 2005, 51, 2328-2342. | 1.8 | 118 |
| 183 | Peculiarities of electric field alignment of nonlinear optical chromophores incorporated into thin film polymer matrix. <i>Theoretical Chemistry Accounts</i> , 2005, 114, 153-158. | 0.5 | 4 |
| 184 | Molecular Simulation of Phase Equilibria for Industrial Applications. <i>Computer Aided Chemical Engineering</i> , 2004, , 279-307. | 0.3 | 4 |
| 185 | Modeling of multicomponent vapor-liquid equilibria for polymer-solvent systems. <i>Fluid Phase Equilibria</i> , 2004, 220, 11-20. | 1.4 | 22 |
| 186 | Transport properties of silmethylene homo-polymers and random copolymers: experimental measurements and molecular simulation. <i>Polymer</i> , 2004, 45, 6933-6944. | 1.8 | 25 |
| 187 | Molecular Dynamics Simulations of Electric Field Poled Nonlinear Optical Chromophores Incorporated in a Polymer Matrix. <i>Journal of Physical Chemistry B</i> , 2004, 108, 588-596. | 1.2 | 54 |
| 188 | Molecular Dynamics Simulation of Structure and Thermodynamic Properties of Poly(dimethylsilamethylene) and Hydrocarbon Solubility Therein: Toward the Development of Novel Membrane Materials for Hydrocarbon Separation. <i>Macromolecules</i> , 2004, 37, 1102-1112. | 2.2 | 46 |
| 189 | Nonrandom Hydrogen-Bonding Model of Fluids and Their Mixtures. 1. Pure Fluids. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 6592-6606. | 1.8 | 103 |
| 190 | A transient outflow model for pipeline puncture. <i>Chemical Engineering Science</i> , 2003, 58, 4591-4604. | 1.9 | 52 |
| 191 | Modeling of Liquid-Liquid Phase Equilibria in Aqueous Solutions of Poly(ethylene glycol) with a UNIFAC-Based Model. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 5399-5408. | 1.8 | 11 |
| 192 | Morphology and Organization of Poly(propylene imine) Dendrimers in the Melt from Molecular Dynamics Simulation. <i>Macromolecules</i> , 2002, 35, 1814-1821. | 2.2 | 66 |
| 193 | Statistical Associating Fluid Theory: A Successful Model for the Calculation of Thermodynamic and Phase Equilibrium Properties of Complex Fluid Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 953-962. | 1.8 | 320 |
| 194 | Henry's Constant Analysis for Water and Nonpolar Solvents from Experimental Data, Macroscopic Models, and Molecular Simulation. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7792-7798. | 1.2 | 36 |
| 195 | Monte Carlo simulation of phase equilibria of aqueous systems. <i>Fluid Phase Equilibria</i> , 2001, 183-184, 259-269. | 1.4 | 19 |
| 196 | Calculation of the chemical potential of chain molecules using the staged particle deletion scheme. <i>Journal of Chemical Physics</i> , 2001, 115, 8231-8237. | 1.2 | 41 |
| 197 | Modeling fluid phase transition effects on dynamic behavior of ESDV. <i>AIChE Journal</i> , 2000, 46, 997-1006. | 1.8 | 27 |
| 198 | Investigation of the physicochemical characteristics of ancient mortars by static and dynamic studies. <i>Cement and Concrete Research</i> , 2000, 30, 1151-1155. | 4.6 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 199 | Molecular Simulation of Phase Equilibria for Water ⁿ -Butane and Water ⁿ -Hexane Mixtures. Journal of Physical Chemistry B, 2000, 104, 4958-4963. | 1.2 | 47 |
| 200 | Lattice-Fluid Theory Prediction of High-Density Polyethylene ⁿ -Branched Polyolefin Blend Miscibility. Macromolecules, 2000, 33, 4954-4960. | 2.2 | 14 |
| 201 | Water/Hydrocarbon Phase Equilibria Using the Thermodynamic Perturbation Theory. Industrial & Engineering Chemistry Research, 2000, 39, 797-804. | 1.8 | 120 |
| 202 | On the calculation of the chemical potential using the particle deletion scheme. Molecular Physics, 1999, 96, 905-913. | 0.8 | 64 |
| 203 | Fast numerical simulation for full bore rupture of pressurized pipelines. AIChE Journal, 1999, 45, 1191-1201. | 1.8 | 40 |
| 204 | Estimation of endoglucanase and lysozyme effective diffusion coefficients in polysulphone membranes. Journal of Biotechnology, 1999, 72, 77-83. | 1.9 | 14 |
| 205 | Molecular Simulation of α -Olefins Using a New United-Atom Potential Model: α -Vapor ⁿ -Liquid Equilibria of Pure Compounds and Mixtures. Journal of the American Chemical Society, 1999, 121, 3407-3413. | 6.6 | 29 |
| 206 | Molecular Simulation of the Puren-Hexadecane Vapor ⁿ -Liquid Equilibria at Elevated Temperature. Macromolecules, 1998, 31, 1430-1431. | 2.2 | 10 |
| 207 | Molecular Simulation of Phase Equilibria for Water ⁿ -Methane and Water ⁿ -Ethane Mixtures. Journal of Physical Chemistry B, 1998, 102, 8865-8873. | 1.2 | 115 |
| 208 | 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 |
| 209 | Phase Equilibria of Mixtures Containing Chain Molecules Predicted through a Novel Simulation Scheme. Physical Review Letters, 1998, 80, 4466-4469. | 2.9 | 57 |
| 210 | Thermodynamics of Chain Fluids from Atomistic Simulation: α -A Test of the Chain Increment Method for Chemical Potential. Macromolecules, 1997, 30, 4744-4755. | 2.2 | 47 |
| 211 | Associating models and mixing rules in equations of state for water/hydrocarbon mixtures. Chemical Engineering Science, 1997, 52, 511-525. | 1.9 | 139 |
| 212 | A Study of the Dynamic Response of Emergency Shutdown Valves Following Full Bore Rupture of Gas Pipelines. Chemical Engineering Research and Design, 1997, 75, 201-209. | 2.7 | 15 |
| 213 | Mutual solubilities of hydrocarbons and water: III. 1-hexene; 1-octene; C ₁₀ -C ₁₂ hydrocarbons. AIChE Journal, 1997, 43, 535-546. | 1.8 | 85 |
| 214 | Equations of state for hydrogen bonding systems. Fluid Phase Equilibria, 1996, 116, 518-529. | 1.4 | 44 |
| 215 | Phase behavior of the binary refrigerant mixture chlorodifluoro-ethane (R22)-1,1,1,2-tetrafluoro-ethane (R134a): experimental investigation and theoretical modelling using the perturbed-anisotropic-chain theory (PACT). Fluid Phase Equilibria, 1995, 111, 239-252. | 1.4 | 3 |
| 216 | Water-Salt Phase Equilibria at Elevated Temperatures and Pressures: Model Development and Mixture Predictions. The Journal of Physical Chemistry, 1995, 99, 6182-6193. | 2.9 | 26 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 217 | Phase Equilibria Prediction of Hydrogen Fluoride Systems from an Associating Model. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 1868-1872. | 1.8 | 15 |
| 218 | Equation of State Description of Thermodynamic Properties of Near-Critical and Supercritical Water. <i>The Journal of Physical Chemistry</i> , 1994, 98, 12080-12085. | 2.9 | 32 |
| 219 | Equations of state and activity coefficient models for vapor-liquid equilibria of polymer solutions. <i>AIChE Journal</i> , 1994, 40, 1711-1727. | 1.8 | 28 |
| 220 | Modeling the thermodynamic properties of CFC and HCFC compounds, and the vapor-liquid equilibria of CFC and HCFC mixtures and CFC/HCFC-hydrocarbon mixtures, with the perturbed anisotropic chain theory (PACT). <i>Fluid Phase Equilibria</i> , 1994, 97, 13-28. | 1.4 | 7 |
| 221 | Phase behavior of LCST and UCST solutions of branchy copolymers: experiment and SAFT modelling. <i>Fluid Phase Equilibria</i> , 1993, 83, 391-398. | 1.4 | 29 |
| 222 | Equation-of-state calculations of chemical reaction equilibrium in nonideal systems. <i>International Journal of Thermophysics</i> , 1993, 14, 199-213. | 1.0 | 3 |
| 223 | Comments on "Thermodynamic inconsistencies in and accuracy of chemical equations of state for associating fluids". <i>Industrial & Engineering Chemistry Research</i> , 1993, 32, 245-246. | 1.8 | 4 |
| 224 | Density-tuned polyolefin phase equilibria. 2. Multicomponent solutions of alternating poly(ethylene-propylene) in subcritical and supercritical olefins. Experiment and SAFT model. <i>Macromolecules</i> , 1992, 25, 4987-4995. | 2.2 | 82 |
| 225 | Equation of state with multiple associating sites for water and water-hydrocarbon mixtures. <i>Industrial & Engineering Chemistry Research</i> , 1992, 31, 2388-2394. | 1.8 | 73 |
| 226 | Thermodynamic inconsistencies in and accuracy of chemical equations of state for associating fluids. <i>Industrial & Engineering Chemistry Research</i> , 1992, 31, 1203-1211. | 1.8 | 16 |
| 227 | Solubilities of solid polynuclear aromatics (PNA's) in supercritical ethylene and ethane from statistical associating fluid theory (SAFT): toward separating PNA's by size and structure. <i>Industrial & Engineering Chemistry Research</i> , 1992, 31, 2620-2624. | 1.8 | 22 |
| 228 | Effect of hard-sphere structure on pure-component equation of state calculations. <i>Fluid Phase Equilibria</i> , 1992, 73, 39-55. | 1.4 | 15 |
| 229 | Closed-form expressions for chemical theory of associating mixtures. <i>AIChE Journal</i> , 1992, 38, 611-614. | 1.8 | 3 |
| 230 | Hydrogen bonding in polymer-solvent mixtures. <i>Macromolecules</i> , 1991, 24, 5058-5067. | 2.2 | 6 |
| 231 | Measurement of infinite dilution activity coefficients using high performance liquid chromatography. <i>Fluid Phase Equilibria</i> , 1991, 68, 131-149. | 1.4 | 4 |
| 232 | Chemical, quasi-chemical and perturbation theories for associating fluids. <i>AIChE Journal</i> , 1991, 37, 1875-1894. | 1.8 | 132 |
| 233 | Thermodynamics of Lewis acid-base mixtures. <i>AIChE Journal</i> , 1990, 36, 1851-1864. | 1.8 | 26 |
| 234 | Mean field calculations of thermodynamic properties of supercritical fluids. <i>AIChE Journal</i> , 1990, 36, 1920-1925. | 1.8 | 28 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 235 | On the calculation of the chemical potential using the particle deletion scheme. , 0, . | | 3 |
| 236 | Atomistic and Coarse-Grained Simulations of Bulk Amorphous Amylose Above and Below the Glass Transition. Macromolecules, 0, , . | 2.2 | 2 |