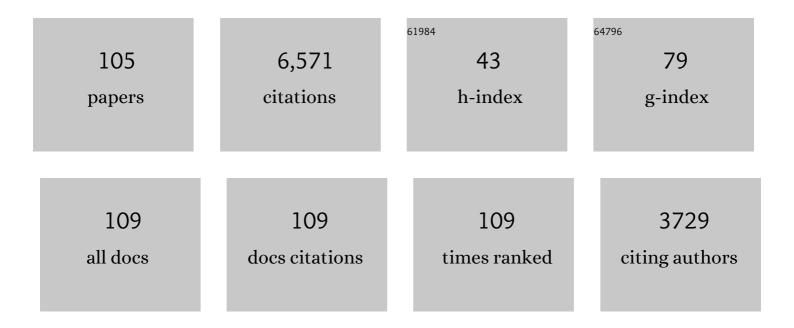
Jeffrey R Errington

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Comments on "Monte Carlo simulations for water adsorption in porous materials: Best practices and new insights― AICHE Journal, 2022, 68, . | 3.6 | 1 |
| 2 | Flat-histogram extrapolation as a useful tool in the age of big data. Molecular Simulation, 2021, 47, 395-407. | 2.0 | 7 |
| 3 | Coupled Monte Carlo and Molecular Dynamics Simulations on Interfacial Properties of Antifouling Polymer Membranes. Journal of Physical Chemistry B, 2021, 125, 8193-8204. | 2.6 | 5 |
| 4 | Application of the interface potential approach for studying wetting behavior within a molecular dynamics framework. Journal of Chemical Physics, 2019, 150, 204118. | 3.0 | 8 |
| 5 | Effect of Surface Hydrophilicity on the Interfacial Properties of a Model Octane–Water–Silica System. Journal of Physical Chemistry C, 2019, 123, 19649-19658. | 3.1 | 9 |
| 6 | Construction of the interface potential from a series of canonical ensemble simulations. Journal of Chemical Physics, 2019, 151, 044103. | 3.0 | 4 |
| 7 | Improving the efficiency of Monte Carlo simulations of ions using expanded grand canonical ensembles. Journal of Chemical Physics, 2019, 151, 144109. | 3.0 | 4 |
| 8 | Effect of Carboxylic Acid on the Wetting Properties of a Model Water–Octane–Silica System. Langmuir, 2019, 35, 6540-6549. | 3.5 | 4 |
| 9 | Using isothermal-isobaric Monte Carlo simulation to study the wetting behavior of model systems. Journal of Chemical Physics, 2019, 150, 084110. | 3.0 | 9 |
| 10 | Calculation of the Saturation Properties of a Model Octane–Water System Using Monte Carlo Simulation. Journal of Physical Chemistry B, 2018, 122, 6260-6271. | 2.6 | 6 |
| 11 | Free energy and concentration of crystalline vacancies by molecular simulation. Molecular Physics, 2018, 116, 3027-3041. | 1.7 | 9 |
| 12 | Monte Carlo Simulation Strategies to Compute the Interfacial Properties of a Model Octane–Water–Silica System. Journal of Physical Chemistry C, 2018, 122, 17309-17318. | 3.1 | 15 |
| 13 | Predicting low-temperature free energy landscapes with flat-histogram Monte Carlo methods. Journal of Chemical Physics, 2017, 146, 074101. | 3.0 | 13 |
| 14 | Connection Between Thermodynamics and Dynamics of Simple Fluids in Pores: Impact of Fluid–Fluid Interaction Range and Fluid–Solid Interaction Strength. Journal of Physical Chemistry C, 2017, 121, 16316-16327. | 3.1 | 12 |
| 15 | Temperature extrapolation of multicomponent grand canonical free energy landscapes. Journal of Chemical Physics, 2017, 147, 054105. | 3.0 | 16 |
| 16 | Position-Dependent Dynamics Explain Pore-Averaged Diffusion in Strongly Attractive Adsorptive Systems. Langmuir, 2017, 33, 13955-13963. | 3.5 | 4 |
| 17 | Multivariable extrapolation of grand canonical free energy landscapes. Journal of Chemical Physics, 2017, 147, 234111. | 3.0 | 12 |
| 18 | The rate of convergence of the virial series in confined systems. Molecular Physics, 2015, 113, 1179-1189. | 1.7 | 8 |

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| 19 | Multibody Interactions, Phase Behavior, and Clustering in Nanoparticle–Polyelectrolyte Mixtures. Journal of Physical Chemistry B, 2015, 119, 14536-14550. | 2.6 | 24 |
| 20 | Understanding the influence of Coulomb and dispersion interactions on the wetting behavior of ionic liquids. Journal of Chemical Physics, 2014, 141, 174706. | 3.0 | 15 |
| 21 | Dimensionality and Design of Isotropic Interactions that Stabilize Honeycomb, Square, Simple Cubic, and Diamond Lattices. Physical Review X, 2014, 4, . | 8.9 | 32 |
| 22 | Liquid–Vapor Phase Behavior of Asphaltene-like Molecules. Industrial & Engineering Chemistry Research, 2014, 53, 17833-17842. | 3.7 | 8 |
| 23 | Saturation Properties of 1-Alkyl-3-methylimidazolium Based Ionic Liquids. Journal of Physical Chemistry B, 2014, 118, 8734-8743. | 2.6 | 25 |
| 24 | The Use of Monte Carlo Simulation to Obtain the Wetting Properties of Water. Physics Procedia, 2014, 53, 44-49. | 1.2 | 15 |
| 25 | Evaluation of the Performance of GAFF and CGenFF in the Prediction of Liquid–Vapor Saturation Properties of Naphthalene Derivatives. Industrial & Engineering Chemistry Research, 2014, 53, 16072-16081. | 3.7 | 10 |
| 26 | Understanding wetting of immiscible liquids near a solid surface using molecular simulation. Journal of Chemical Physics, 2013, 139, 064110. | 3.0 | 14 |
| 27 | Wetting Behavior of Water near Nonpolar Surfaces. Journal of Physical Chemistry C, 2013, 117, 23017-23026. | 3.1 | 48 |
| 28 | Application of the interface potential approach to calculate the wetting properties of a water model system. Molecular Simulation, 2013, 39, 1143-1152. | 2.0 | 19 |
| 29 | Connection between Thermodynamics and Dynamics of Simple Fluids in Highly Attractive Pores. Langmuir, 2013, 29, 14527-14535. | 3.5 | 15 |
| 30 | Predicting How Nanoconfinement Changes the Relaxation Time of a Supercooled Liquid. Physical Review Letters, 2013, 111, 235901. | 7.8 | 65 |
| 31 | Impact of Small-Scale Geometric Roughness on Wetting Behavior. Langmuir, 2013, 29, 11815-11820. | 3.5 | 34 |
| 32 | Communication: Phase behavior of materials with isotropic interactions designed by inverse strategies to favor diamond and simple cubic lattice ground states. Journal of Chemical Physics, 2013, 139, 141102. | 3.0 | 14 |
| 33 | Inverse design of simple pairwise interactions with low-coordinated 3D lattice ground states. Soft Matter, 2013, 9, 3866. | 2.7 | 74 |
| 34 | Calculation of inhomogeneous-fluid cluster expansions with application to the hard-sphere/hard-wall system. Journal of Chemical Physics, 2013, 138, 134706. | 3.0 | 19 |
| 35 | Monte Carlo simulation strategies to compute interfacial and bulk properties of binary fluid mixtures. Journal of Chemical Physics, 2013, 138, 174112. | 3.0 | 21 |
| 36 | Monte Carlo Simulation Methods for Computing Liquid–Vapor Saturation Properties of Model Systems. Journal of Chemical Theory and Computation, 2013, 9, 2552-2566. | 5.3 | 76 |

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| 37 | Using Monte Carlo Simulation to Compute Liquid–Vapor Saturation Properties of Ionic Liquids. Journal of Physical Chemistry B, 2013, 117, 8018-8030. | 2.6 | 28 |
| 38 | Enhancing tracer diffusivity by tuning interparticle interactions and coordination shell structure. Soft Matter, 2012, 8, 4083-4089. | 2.7 | 14 |
| 39 | Mapping between long-time molecular and Brownian dynamics. Soft Matter, 2011, 7, 9859. | 2.7 | 30 |
| 40 | Monte Carlo simulation strategies for computing the wetting properties of fluids at geometrically rough surfaces. Journal of Chemical Physics, 2011, 135, 184702. | 3.0 | 46 |
| 41 | Implications of the effective one-component analysis of pair correlations in colloidal fluids with polydispersity. Journal of Chemical Physics, 2011, 135, 124513. | 3.0 | 16 |
| 42 | Monte Carlo simulation methods for computing the wetting and drying properties of model systems. Journal of Chemical Physics, 2011, 135, 234102. | 3.0 | 49 |
| 43 | Communication: Generalizing Rosenfeld's excess-entropy scaling to predict long-time diffusivity in dense fluids of Brownian particles: From hard to ultrasoft interactions. Journal of Chemical Physics, 2011, 134, 081101. | 3.0 | 51 |
| 44 | Impact of surface roughness on diffusion of confined fluids. Journal of Chemical Physics, 2011, 135, 154502. | 3.0 | 30 |
| 45 | Calculation of interfacial properties via free-energy-based molecular simulation: The influence of system size. Journal of Chemical Physics, 2010, 132, 224702. | 3.0 | 29 |
| 46 | Nanoscale Limit to the Applicability of Wenzel's Equation. Langmuir, 2010, 26, 13297-13304. | 3.5 | 61 |
| 47 | Molecular Simulation Study of Anisotropic Wetting. Langmuir, 2010, 26, 8274-8281. | 3.5 | 27 |
| 48 | Excess entropy scaling of dynamic quantities for fluids of dumbbell-shaped particles. Journal of Chemical Physics, 2010, 133, 104506. | 3.0 | 33 |
| 49 | Excess-entropy scaling of dynamics for a confined fluid of dumbbell-shaped particles. Physical Review E, 2010, 82, 041201. | 2.1 | 22 |
| 50 | On the Use of Excess Entropy Scaling To Describe Single-Molecule and Collective Dynamic Properties of Hydrocarbon Isomer Fluids. Journal of Physical Chemistry B, 2010, 114, 16487-16493. | 2.6 | 40 |
| 51 | On the Use of Excess Entropy Scaling to Describe the Dynamic Properties of Water. Journal of Physical Chemistry B, 2010, 114, 10558-10566. | 2.6 | 61 |
| 52 | Concentration and crowding effects on protein stability from a coarse-grained model. , 2009, , 1-25. | | 0 |
| 53 | Insights Into Crowding Effects on Protein Stability From a Coarse-Grained Model. Journal of Biomechanical Engineering, 2009, 131, 071002. | 1.3 | 13 |
| 54 | Composition and concentration anomalies for structure and dynamics of Gaussian-core mixtures. Journal of Chemical Physics, 2009, 131, 161101. | 3.0 | 31 |

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| 55 | Response to "Comment on â€~Residual multiparticle entropy does not generally change sign near freezing' ―[J. Chem. Phys. 130, 037101 (2009)]. Journal of Chemical Physics, 2009, 130, 037102. | 3.0 | 4 |
| 56 | Anomalous structure and dynamics of the Gaussian-core fluid. Physical Review E, 2009, 79, 031203. | 2.1 | 100 |
| 57 | Generalized Rosenfeld scalings for tracer diffusivities in not-so-simple fluids: Mixtures and soft particles. Physical Review E, 2009, 80, 061205. | 2.1 | 79 |
| 58 | Available states and available space: static properties that predict self-diffusivity of confined fluids. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P04006. | 2.3 | 43 |
| 59 | Layering and Position-Dependent Diffusive Dynamics of Confined Fluids. Physical Review Letters, 2008, 100, 145901. | 7.8 | 161 |
| 60 | Influence of Substrate Strength on Wetting Behavior. Journal of Physical Chemistry C, 2008, 112, 12905-12913. | 3.1 | 35 |
| 61 | Comparing the Use of Gibbs Ensemble and Grand-Canonical Transition-Matrix Monte Carlo Methods to Determine Phase Equilibria. Industrial & Engineering Chemistry Research, 2008, 47, 4533-4541. | 3.7 | 54 |
| 62 | Computation of interfacial properties via grand canonical transition matrix Monte Carlo simulation. Journal of Chemical Physics, 2008, 128, 014710. | 3.0 | 91 |
| 63 | Phase Behavior of Model Confined Fluids. Influence of Substrateâ^'Fluid Interaction Strength. Journal of Physical Chemistry B, 2008, 112, 14911-14919. | 2.6 | 12 |
| 64 | Structure, Stability, and Rupture of Free and Supported Liquid Films and Assemblies in Molecular Simulations. Industrial & Engineering Chemistry Research, 2008, 47, 3582-3590. | 3.7 | 28 |
| 65 | Fluid phase behavior of a model colloid-polymer mixture: Influence of polymer size and interaction strength. Journal of Chemical Physics, 2008, 129, 164907. | 3.0 | 14 |
| 66 | Residual multiparticle entropy does not generally change sign near freezing. Journal of Chemical Physics, 2008, 128, 161101. | 3.0 | 14 |
| 67 | Tuning Density Profiles and Mobility of Inhomogeneous Fluids. Physical Review Letters, 2008, 100, 106001. | 7.8 | 60 |
| 68 | Calculation of surface tension via area sampling. Journal of Chemical Physics, 2007, 127, 174709. | 3.0 | 99 |
| 69 | Relationships between Self-Diffusivity, Packing Fraction, and Excess Entropy in Simple Bulk and Confined Fluids. Journal of Physical Chemistry B, 2007, 111, 10054-10063. | 2.6 | 94 |
| 70 | Does confining the hard-sphere fluid between hard walls change its average properties?. Journal of Chemical Physics, 2007, 126, 244708. | 3.0 | 65 |
| 71 | Confinement, entropy, and single-particle dynamics of equilibrium hard-sphere mixtures. Journal of Chemical Physics, 2007, 127, 154513. | 3.0 | 32 |
| 72 | Coarse-Grained Strategy for Modeling Protein Stability in Concentrated Solutions. III: Directional Protein Interactions. Biophysical Journal, 2007, 92, 4316-4324. | 0.5 | 25 |

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| 73 | Investigation of the Phase Behavior of an Embedded Charge Protein Model through Molecular Simulation. Journal of Physical Chemistry B, 2007, 111, 12591-12598. | 2.6 | 25 |
| 74 | Comparative Study of the Effect of Tail Corrections on Surface Tension Determined by Molecular Simulation. Journal of Physical Chemistry B, 2007, 111, 6198-6207. | 2.6 | 78 |
| 75 | Recent developments in the theory of amorphous aqueous systems. Special Publication - Royal Society of Chemistry, 2007, , 115-120. | 0.0 | 0 |
| 76 | Thermodynamics Predicts How Confinement Modifies the Dynamics of the Equilibrium Hard-Sphere Fluid. Physical Review Letters, 2006, 96, 177804. | 7.8 | 133 |
| 77 | Relationship between thermodynamics and dynamics of supercooled liquids. Journal of Chemical Physics, 2006, 125, 076102. | 3.0 | 106 |
| 78 | Calculation of Phase Coexistence Properties and Surface Tensions of n-Alkanes with Grand-Canonical Transition-Matrix Monte Carlo Simulation and Finite-Size Scaling. Journal of Physical Chemistry B, 2006, 110, 1369-1376. | 2.6 | 91 |
| 79 | Coarse-Grained Strategy for Modeling Protein Stability in Concentrated Solutions. II: Phase Behavior. Biophysical Journal, 2006, 90, 1949-1960. | 0.5 | 34 |
| 80 | Excess-entropy-based anomalies for a waterlike fluid. Journal of Chemical Physics, 2006, 125, 244502. | 3.0 | 148 |
| 81 | Quantitative Link between Single-Particle Dynamics and Static Structure of Supercooled Liquids. Journal of Physical Chemistry B, 2006, 110, 18147-18150. | 2.6 | 95 |
| 82 | Nucleation and cavitation of spherical, cylindrical, and slablike droplets and bubbles in small systems. Journal of Chemical Physics, 2006, 125, 034705. | 3.0 | 123 |
| 83 | Determination of surface tension in binary mixtures using transition-matrix Monte Carlo. Journal of Chemical Physics, 2006, 124, 024721. | 3.0 | 29 |
| 84 | Using available volume to predict fluid diffusivity in random media. Physical Review E, 2006, 74, 040102. | 2.1 | 22 |
| 85 | Determination of Henry's law constants through transition matrix Monte Carlo simulation. Fluid Phase Equilibria, 2005, 236, 58-65. | 2.5 | 42 |
| 86 | Prewetting Boundary Tensions from MonteÂCarlo Simulation. Physical Review Letters, 2005, 95, 226107. | 7.8 | 36 |
| 87 | Determination of fluid-phase behavior using transition-matrix Monte Carlo: Binary Lennard-Jones mixtures. Journal of Chemical Physics, 2005, 122, 064508. | 3.0 | 63 |
| 88 | Direct evaluation of multicomponent phase equilibria using flat-histogram methods. Journal of Chemical Physics, 2005, 123, 164103. | 3.0 | 41 |
| 89 | A computational study of hydration, solution structure, and dynamics in dilute carbohydrate solutions. Journal of Chemical Physics, 2005, 122, 204511. | 3.0 | 166 |
| 90 | Metastability and Instability in the Lennard-Jones Fluid Investigated by Transition-Matrix Monte Carloâ€,â€j. Journal of Physical Chemistry B, 2004, 108, 19595-19606. | 2.6 | 45 |

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| 91 | A Calorimetric and Spectroscopic Study of DNA at Low Hydration. Journal of Physical Chemistry B, 2004, 108, 3098-3106. | 2.6 | 50 |
| 92 | Prewetting Transitions for a Model Argon on Solid Carbon Dioxide System. Langmuir, 2004, 20, 3798-3804. | 3.5 | 76 |
| 93 | Solid–liquid phase coexistence of the Lennard-Jones system through phase-switch Monte Carlo simulation. Journal of Chemical Physics, 2004, 120, 3130-3141. | 3.0 | 68 |
| 94 | Evaluating surface tension using grand-canonical transition-matrix Monte Carlo simulation and finite-size scaling. Physical Review E, 2003, 67, 012102. | 2.1 | 154 |
| 95 | Quantification of order in the Lennard-Jones system. Journal of Chemical Physics, 2003, 118, 2256-2263. | 3.0 | 124 |
| 96 | Direct calculation of liquid–vapor phase equilibria from transition matrix Monte Carlo simulation. Journal of Chemical Physics, 2003, 118, 9915-9925. | 3.0 | 262 |
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| 98 | Cooperative Origin of Low-Density Domains in Liquid Water. Physical Review Letters, 2002, 89, 215503. | 7.8 | 103 |
| 99 | Relationship between structural order and the anomalies of liquid water. Nature, 2001, 409, 318-321. | 27.8 | 1,320 |
| 100 | Molecular Simulation of Phase Equilibria for Waterâ^'n-Butane and Waterâ^'n-Hexane Mixtures. Journal of Physical Chemistry B, 2000, 104, 4958-4963. | 2.6 | 47 |
| 101 | New intermolecular potential models for benzene and cyclohexane. Journal of Chemical Physics, 1999, 111, 9731-9738. | 3.0 | 113 |
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| 103 | Phase equilibria of the modified Buckingham exponential-6 potential from Hamiltonian scaling grand canonical Monte Carlo. Journal of Chemical Physics, 1998, 109, 1093-1100. | 3.0 | 98 |
| 104 | A Fixed Point Charge Model for Water Optimized to the Vaporâ^'Liquid Coexistence Properties. Journal of Physical Chemistry B, 1998, 102, 7470-7475. | 2.6 | 178 |
| 105 | Molecular Simulation of Phase Equilibria for Waterâ^'Methane and Waterâ^'Ethane Mixtures. Journal of Physical Chemistry B, 1998, 102, 8865-8873. | 2.6 | 115 |