# Peter A Monson

## List of Publications by Citations



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|---|---|---|---|
| 149 papers | 6,599 citations | 46 h-index | 76 g-index |
| 159 ext. papers | 6,899 ext. citations | 3.8 avg, IF | 5.91 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 149 | Tailored Porous Materials. *Chemistry of Materials*, **1999**, 11, 2633-2656 | 9.6 | 623 |
| 148 | Adsorption in Porous Materials at High Pressure: Theory and Experiment. *Langmuir*, **2002**, 18, 10261-10273 | 4 | 315 |
| 147 | Capillary condensation in disordered porous materials: hysteresis versus equilibrium behavior. *Physical Review Letters*, **2001**, 87, 055701 | 7.4 | 240 |
| 146 | Modeling of Adsorption and Desorption in Pores of Simple Geometry Using Molecular Dynamics. *Langmuir*, **2001**, 17, 7600-7604 | 4 | 232 |
| 145 | Exploration of molecular dynamics during transient sorption of fluids in mesoporous materials. *Nature*, **2006**, 443, 965-8 | 50.4 | 201 |
| 144 | Monte Carlo calculations of cluster statistics in continuum models of composite morphology. *Journal of Chemical Physics*, **1988**, 88, 1198-1206 | 3.9 | 167 |
| 143 | Prewetting at a fluid-solid interface via Monte Carlo simulation. *Physical Review A*, **1989**, 39, 6402-6408 | 2.6 | 129 |
| 142 | Substitutionally ordered solid solutions of hard spheres. *Journal of Chemical Physics*, **1995**, 102, 3354-3360 | 3.9 | 122 |
| 141 | Solid-fluid equilibria for hard dumbbells via Monte Carlo simulation. *Journal of Chemical Physics*, **1992**, 96, 9060-9072 | 3.9 | 121 |
| 140 | Phase behavior and dynamics of fluids in mesoporous glasses. *Physical Review E*, **2003**, 67, 041207 | 2.4 | 114 |
| 139 | Monte Carlo Simulation Studies of Heats of Adsorption in Heterogeneous Solids. *Langmuir*, **1996**, 12, 5425-5432 | 4 | 105 |
| 138 | Phase diagrams of single-component fluids in disordered porous materials: Predictions from integral-equation theory. *Journal of Chemical Physics*, **1997**, 106, 264-279 | 3.9 | 102 |
| 137 | Physical adsorption of gases: the case for absolute adsorption as the basis for thermodynamic analysis. *Adsorption*, **2014**, 20, 591-622 | 2.6 | 101 |
| 136 | Does water condense in carbon pores?. *Langmuir*, **2005**, 21, 10219-25 | 4 | 101 |
| 135 | Phase equilibrium in a molecular model of a fluid confined in a disordered porous material. *Physical Review E*, **1996**, 54, R29-R32 | 2.4 | 94 |
| 134 | Adsorption of fluids in disordered porous media from integral equation theory. *Journal of Chemical Physics*, **1993**, 99, 3003-3013 | 3.9 | 93 |
| 133 | Adsorption/desorption hysteresis in inkbottle pores: a density functional theory and Monte Carlo simulation study. *Langmuir*, **2004**, 20, 4289-94 | 4 | 91 |

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| 132 | The influence of adsorbent microstructure upon adsorption equilibria: Investigations of a model system. *Journal of Chemical Physics*, **1991**, 95, 2936-2948 | 3.9 | 88 |
| 131 | Monte Carlo calculations of phase diagrams for a fluid confined in a disordered porous material. *Physical Review E*, **1996**, 54, 6557-6564 | 2.4 | 83 |
| 130 | Crystal nucleation in binary hard sphere mixtures: a Monte Carlo simulation study. *Journal of Chemical Physics*, **2006**, 125, 24508 | 3.9 | 81 |
| 129 | Density Functional Theory Study of Silica Zeolite Structures: Stabilities and Mechanical Properties of SOD, LTA, CHA, MOR, and MFI. *Journal of Physical Chemistry B*, **2004**, 108, 9208-9215 | 3.4 | 79 |
| 128 | Adsorption hysteresis and capillary condensation in disordered porous solids: a density functional study. *Journal of Physics Condensed Matter*, **2002**, 14, 9295-9315 | 1.8 | 79 |
| 127 | Mean field kinetic theory for a lattice gas model of fluids confined in porous materials. *Journal of Chemical Physics*, **2008**, 128, 084701 | 3.9 | 75 |
| 126 | Hysteresis in Monte Carlo and Molecular Dynamics Simulations of Adsorption in Porous Materials. *Langmuir*, **2000**, 16, 9857-9860 | 4 | 75 |
| 125 | Mean-Field Theory of Fluid Adsorption in a Porous Glass. *Langmuir*, **2001**, 17, 7472-7475 | 4 | 74 |
| 124 | Modeling spontaneous formation of precursor nanoparticles in clear-solution zeolite synthesis. *Journal of the American Chemical Society*, **2005**, 127, 14388-400 | 16.4 | 73 |
| 123 | Understanding capillary condensation and hysteresis in porous silicon: network effects within independent pores. *Physical Review E*, **2008**, 78, 060601 | 2.4 | 72 |
| 122 | Lattice model of adsorption in disordered porous materials: mean-field density functional theory and Monte Carlo simulations. *Physical Review E*, **2002**, 65, 011202 | 2.4 | 72 |
| 121 | On the stability of the plastic crystal phase of hard dumbbell solids. *Journal of Chemical Physics*, **1992**, 97, 8543-8548 | 3.9 | 70 |
| 120 | Monte Carlo Simulation Study of Water Adsorption in Activated Carbon. *Industrial & Engineering Chemistry Research*, **2006**, 45, 5649-5656 | 3.9 | 69 |
| 119 | Modeling mercury porosimetry using statistical mechanics. *Langmuir*, **2004**, 20, 6482-9 | 4 | 68 |
| 118 | Solid–fluid equilibrium for a molecular model with short ranged directional forces. *Journal of Chemical Physics*, **1998**, 109, 9938-9949 | 3.9 | 67 |
| 117 | Solid-Fluid Equilibrium: Insights from Simple Molecular Models. *Advances in Chemical Physics*, **2007**, 113-179 | | 66 |
| 116 | Understanding adsorption and desorption processes in mesoporous materials with independent disordered channels. *Physical Review E*, **2009**, 80, 031607 | 2.4 | 63 |
| 115 | Contact angles, pore condensation, and hysteresis: insights from a simple molecular model. *Langmuir*, **2008**, 24, 12295-302 | 4 | 59 |

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| 114 | Calculation of free energies and chemical potentials for gas hydrates using Monte Carlo simulations. *Journal of Physical Chemistry B*, **2007**, 111, 7274-82 | 3.4 | 57 |
| 113 | Computer simulations of phase equilibrium for a fluid confined in a disordered porous structure. *Physical Review E*, **2000**, 61, 7231-4 | 2.4 | 57 |
| 112 | The high density equation of state and solid-fluid equilibrium in systems of freely jointed chains of tangent hard spheres. *Journal of Chemical Physics*, **1997**, 107, 6899-6907 | 3.9 | 56 |
| 111 | Mean-field theory of liquid droplets on roughened solid surfaces: application to superhydrophobicity. *Langmuir*, **2006**, 22, 1595-601 | 4 | 54 |
| 110 | Plastic crystal phases of hard dumbbells and hard spherocylinders. *Journal of Chemical Physics*, **1997**, 107, 2696-2697 | 3.9 | 53 |
| 109 | Mercury porosimetry in mesoporous glasses: a comparison of experiments with results from a molecular model. *Langmuir*, **2007**, 23, 3372-80 | 4 | 52 |
| 108 | Recent Progress in the Statistical Mechanical Mechanics of Interaction Site Fluids. *Advances in Chemical Physics*, **2007**, 451-550 | | 51 |
| 107 | Probing memory effects in confined fluids via diffusion measurements. *Langmuir*, **2008**, 24, 6429-32 | 4 | 50 |
| 106 | Modeling desorption of fluids from disordered mesoporous materials. *Langmuir*, **2004**, 20, 4743-7 | 4 | 50 |
| 105 | Further studies of prewetting transitions via Monte Carlo simulation. *Journal of Chemical Physics*, **1993**, 99, 6897-6906 | 3.9 | 48 |
| 104 | Solid-fluid equilibrium in molecular models of n-alkanes. *Journal of Chemical Physics*, **1999**, 110, 664-675 | 3.9 | 47 |
| 103 | Solution of the Ornstein–Zernike equation in the vicinity of the critical point of a simple fluid. *Journal of Chemical Physics*, **1985**, 82, 4303-4311 | 3.9 | 46 |
| 102 | Vapour-liquid equilibria for two centre Lennard-Jones diatomics and dipolar diatomics. *Molecular Physics*, **1993**, 80, 997-1007 | 1.7 | 44 |
| 101 | A cell theory for solid solutions: Application to hard sphere mixtures. *Journal of Chemical Physics*, **1993**, 99, 8914-8921 | 3.9 | 44 |
| 100 | Liquid–liquid equilibrium in a slit pore: Monte Carlo simulation and mean field density functional theory. *Journal of Chemical Physics*, **1995**, 102, 3712-3719 | 3.9 | 41 |
| 99 | Theory of monolayer physical adsorption. II. Fluid phases on a periodic surface. *Journal of Chemical Physics*, **1981**, 74, 6431-6439 | 3.9 | 41 |
| 98 | Numerical solution of the RISM equations for the site-site 12-6 potential. *Molecular Physics*, **1982**, 47, 435-442 | 1.7 | 40 |
| 97 | Molecular Modeling of Adsorption in Activated Carbon: Comparison of Monte Carlo Simulations with Experiment. *Adsorption*, **2005**, 11, 5-13 | 2.6 | 38 |

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| 96 | Virial equation of state for rigid spherocylinders. *Molecular Physics*, **1978**, 35, 1337-1342 | 1.7 | 38 |
| 95 | On the mechanical properties and phase behavior of silica: a simple model based on low coordination and strong association. *Journal of Chemical Physics*, **2004**, 121, 8415-22 | 3.9 | 36 |
| 94 | Dynamic aspects of mercury porosimetry: a lattice model study. *Langmuir*, **2005**, 21, 3179-86 | 4 | 35 |
| 93 | Monte Carlo Simulations of Silica Polymerization and Network Formation. *Journal of Physical Chemistry C*, **2011**, 115, 15988-16000 | 3.8 | 34 |
| 92 | Probing the Mechanism of Silica Polymerization at Ambient Temperatures using Monte Carlo Simulations. *Journal of Physical Chemistry Letters*, **2010**, 1, 3219-3224 | 6.4 | 32 |
| 91 | Solidfluid equilibria for quadrupolar hard dumbbells via Monte Carlo simulation. *Journal of Chemical Physics*, **1995**, 102, 1361-1372 | 3.9 | 32 |
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| 89 | Mixtures of hard spherocylinders and hard spheres. *Molecular Physics*, **1980**, 39, 977-988 | 1.7 | 32 |
| 88 | Modeling Relaxation Processes for Fluids in Porous Materials Using Dynamic Mean Field Theory: An Application to Partial Wetting. *Journal of Low Temperature Physics*, **2009**, 157, 395-409 | 1.3 | 31 |
| 87 | Calculating the Phase Behavior of Gas-Hydrate-Forming Systems from Molecular Models. *Industrial & Engineering Chemistry Research*, **2006**, 45, 424-431 | 3.9 | 28 |
| 86 | Molecular Modeling of Mercury Porosimetry. *Adsorption*, **2005**, 11, 325-329 | 2.6 | 28 |
| 85 | Phase behavior of a hard sphere interaction site model of benzene. *Journal of Chemical Physics*, **2000**, 112, 8950-8957 | 3.9 | 27 |
| 84 | Equilibrium properties of the Gaussian overlap fluid. Monte Carlo simulation and thermodynamic perturbation theory. *The Journal of Physical Chemistry*, **1983**, 87, 2852-2858 | | 25 |
| 83 | Modelling the assembly of nanoporous silica materials. *International Reviews in Physical Chemistry*, **2015**, 34, 35-70 | 7 | 24 |
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| 79 | Modeling the Influence of Heterogeneous Adsorbent Microstructure upon Adsorption Equilibria for Binary Mixtures. *Langmuir*, **1994**, 10, 530-537 | 4 | 23 |

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| 78 | Thermodynamic properties of molecular fluids from the site-site Ornstein-Zernike equation. *Molecular Physics*, **1984**, 53, 1209-1223 | 1.7 | 23 |
| 77 | Filling dynamics of closed end nanocapillaries. *Langmuir*, **2014**, 30, 1290-4 | 4 | 22 |
| 76 | Phase equilibrium in a quadrupolar hard sphere interaction site model of benzene. *Journal of Chemical Physics*, **2001**, 114, 4124-4130 | 3.9 | 22 |
| 75 | Molecular dynamics simulations of hard sphere solidification at constant pressure. *Physical Review E*, **2001**, 64, 061703 | 2.4 | 22 |
| 74 | Integral equations for polar molecular fluids. *Molecular Physics*, **1983**, 48, 181-191 | 1.7 | 22 |
| 73 | Multiscale Model for the Templated Synthesis of Mesoporous Silica: The Essential Role of Silica Oligomers. *Chemistry of Materials*, **2016**, 28, 2715-2727 | 9.6 | 22 |
| 72 | Modeling Nanoparticle Formation during Early Stages of Zeolite Growth: A Low-Coordination Lattice Model of Template Penetration. *Journal of Physical Chemistry C*, **2010**, 114, 14393-14401 | 3.8 | 21 |
| 71 | Monte Carlo simulation study of adsorption from a liquid mixture at states near liquid–liquid coexistence. *Journal of Chemical Physics*, **1993**, 99, 8238-8243 | 3.9 | 21 |
| 70 | Dynamic mean field theory of condensation and evaporation processes for fluids in porous materials: application to partial drying and drying. *Faraday Discussions*, **2010**, 146, 167-84; discussion 195-215, 395-403 | 3.6 | 19 |
| 69 | Modelling the thermal stability of precursor nanoparticles in zeolite synthesis. *Molecular Physics*, **2006**, 104, 3513-3522 | 1.7 | 19 |
| 68 | Understanding congruent melting in binary solids: Molecular models of benzene–hexafluorobenzene mixtures. *Journal of Chemical Physics*, **2003**, 118, 2815 | 3.9 | 19 |
| 67 | Recent Progress in Molecular Modeling of Adsorption and Hysteresis in Mesoporous Materials. *Adsorption*, **2005**, 11, 29-35 | 2.6 | 19 |
| 66 | Normal mode approach for predicting the mechanical properties of solids from first principles: Application to compressibility and thermal expansion of zeolites. *Physical Review B*, **2005**, 71, | 3.3 | 19 |
| 65 | Reply to "Comment on 'Prewetting at a solid-fluid interface via Monte Carlo simulation' ". *Physical Review A*, **1990**, 42, 2458-2459 | 2.6 | 19 |
| 64 | Computer simulation of adsorption equilibrium for a gas on a solid surface using the potential distribution theory. *Journal of Chemical Physics*, **1986**, 84, 1909-1915 | 3.9 | 19 |
| 63 | Simulating the formation of surfactant-templated mesoporous silica materials: a model with both surfactant self-assembly and silica polymerization. *Langmuir*, **2013**, 29, 766-80 | 4 | 18 |
| 62 | Wetting of rings on a nanopatterned surface: a lattice model study. *Physical Review E*, **2006**, 73, 041603 | 2.4 | 18 |
| 61 | Molecular Simulations of the Synthesis of Periodic Mesoporous Silica Phases at High Surfactant Concentrations. *Journal of Physical Chemistry C*, **2017**, 121, 4564-4575 | 3.8 | 17 |

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| 60 | Prewetting at a liquid mixture–solid interface: A comparison of Monte Carlo simulations with mean field density functional theory. *Journal of Chemical Physics*, **1994**, 101, 10947-10952 | 3.9 | 17 |
| 59 | Dynamics of capillary condensation in lattice gas models of confined fluids: a comparison of dynamic mean field theory with dynamic Monte Carlo simulations. *Journal of Chemical Physics*, **2013**, 138, 234709 | 3.9 | 16 |
| 58 | Diffusion hysteresis in mesoporous materials. *European Physical Journal: Special Topics*, **2007**, 141, 107-112 | 2.3 | 16 |
| 57 | Solid-fluid and solid-solid phase equilibrium in a model of n-alkane mixtures. *Journal of Chemical Physics*, **2004**, 120, 2980-8 | 3.9 | 16 |
| 56 | Phase diagrams of a fluid confined in a disordered porous material. *Journal of Physics Condensed Matter*, **1996**, 8, 9621-9625 | 1.8 | 16 |
| 55 | Clustering and percolation in assemblies of anisotropic particles: Perturbation theory and Monte Carlo simulation. *Physical Review A*, **1988**, 38, 5376-5383 | 2.6 | 16 |
| 54 | Modeling the self-assembly of silica-templated nanoparticles in the initial stages of zeolite formation. *Langmuir*, **2015**, 31, 4940-9 | 4 | 15 |
| 53 | Physical adsorption in heterogeneous porous materials: an analytical study of a one-dimensional model. *Langmuir*, **1993**, 9, 561-567 | 4 | 15 |
| 52 | An analysis of the statistical model adsorption isotherm. *AICHE Journal*, **1992**, 38, 1979-1989 | 3.6 | 15 |
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| 50 | Non-additive three body contributions to the lattice energies of nitrogen and carbon dioxide. *Molecular Physics*, **1980**, 39, 1163-1168 | 1.7 | 15 |
| 49 | Modeling three-dimensional network formation with an atomic lattice model: application to silicic acid polymerization. *Journal of Chemical Physics*, **2011**, 134, 134703 | 3.9 | 14 |
| 48 | Equilibrium properties of molecular fluids with charge distributions of quadrupolar symmetry. *Journal of Chemical Physics*, **1983**, 78, 4126-4132 | 3.9 | 14 |
| 47 | Emergence of Zeolite Analogs and other Microporous Crystals in an Atomic Lattice Model of Silica and Related Materials. *Journal of Physical Chemistry Letters*, **2012**, 3, 761-5 | 6.4 | 13 |
| 46 | Solid-fluid and solid-solid equilibrium in hard sphere united atom models of n-alkanes: rotator phase stability. *Journal of Physical Chemistry B*, **2009**, 113, 13866-73 | 3.4 | 13 |
| 45 | Studies of a Lattice Model of Water Confined in a Slit Pore. *Journal of Physical Chemistry C*, **2007**, 111, 15976-15981 | 3.8 | 13 |
| 44 | Molecular thermodynamics of solid-fluid and solid-solid equilibria. *AICHE Journal*, **2008**, 54, 1122-1128 | 3.6 | 13 |
| 43 | Surface Roughness Effects in Molecular Models of Adsorption in Heterogeneous Porous Solids. *Langmuir*, **1998**, 14, 4880-4886 | 4 | 13 |

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| 42 | On the pair distribution function in fluids of hard non-spherical molecules. *Molecular Physics*, **1979**, 38, 1699-1702 | 1.7 | 13 |
| 41 | Morphology of Fluids Confined in Physically Reconstructed Mesoporous Silica: Experiment and Mean Field Density Functional Theory. *Langmuir*, **2018**, 34, 9936-9945 | 4 | 12 |
| 40 | An application of classical thermodynamics to solid-fluid equilibrium in hard sphere mixtures. *Journal of Chemical Physics*, **1997**, 107, 6855-6858 | 3.9 | 12 |
| 39 | Further studies of a simple atomistic model of silica: thermodynamic stability of zeolite frameworks as silica polymorphs. *Journal of Chemical Physics*, **2007**, 126, 144701 | 3.9 | 12 |
| 38 | A study of the phase behavior of a simple model of chiral molecules and enantiomeric mixtures. *Journal of Chemical Physics*, **2005**, 122, 54505 | 3.9 | 12 |
| 37 | Deviations from two-dimensionality in classical adsorbed films. *Surface Science*, **1982**, 122, 401-407 | 1.8 | 12 |
| 36 | Modeling the Impact of Mesoporous Silica Microstructures on the Adsorption Hysteresis Loop. *Journal of Physical Chemistry C*, **2020**, 124, 21646-21655 | 3.8 | 11 |
| 35 | Dynamic density functional theory with hydrodynamic interactions: theoretical development and application in the study of phase separation in gas-liquid systems. *Journal of Chemical Physics*, **2015**, 142, 094706 | 3.9 | 10 |
| 34 | Dynamical aspects of the adsorption hysteresis phenomenon. *Magnetic Resonance Imaging*, **2007**, 25, 481-4 | 3.3 | 10 |
| 33 | Cluster integrals for square well particles: Application to percolation. *Journal of Chemical Physics*, **1991**, 94, 3070-3082 | 3.9 | 10 |
| 32 | Reactive Ensemble Monte Carlo Simulations of Silica Polymerization That Yield Zeolites and Related Crystalline Microporous Structures. *Journal of Physical Chemistry C*, **2015**, 119, 26628-26635 | 3.8 | 9 |
| 31 | Lattice model for silica polymerization: Monte Carlo simulations of the transition between gel and nanoparticle phases. *Journal of Physical Chemistry B*, **2014**, 118, 10989-99 | 3.4 | 9 |
| 30 | The phase behavior of a hard sphere chain model of a binary n-alkane mixture. *Journal of Chemical Physics*, **2000**, 112, 2870-2877 | 3.9 | 9 |
| 29 | Isobaric ensemble Monte Carlo simulation of adsorption at fluid-solid interfaces. *Langmuir*, **1989**, 5, 639-644 | 4 | 9 |
| 28 | Local compositions and the square-well fluid. *International Journal of Thermophysics*, **1986**, 7, 367-379 | 2.1 | 9 |
| 27 | Solution of the Percus-Yevick equation in the coexistence region of a simple fluid. *International Journal of Thermophysics*, **1985**, 6, 573-584 | 2.1 | 9 |
| 26 | Lattice Monte Carlo Simulations in Search of Zeolite Analogues: Effects of Structure Directing Agents. *Journal of Physical Chemistry C*, **2015**, 119, 28046-28054 | 3.8 | 8 |
| 25 | An application of cell theory to molecular models of n-alkane solids. *Molecular Physics*, **2000**, 98, 363-370 | 1.7 | 8 |

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| 24 | Dynamic mean field theory for lattice gas models of fluids confined in porous materials: higher order theory based on the Bethe-Peierls and path probability method approximations. *Journal of Chemical Physics*, **2014**, 141, 024706 | 3.9 | 7 |
| 23 | Modelling relaxation processes for fluids in porous materials using dynamic mean field theory: application to pore networks. *Adsorption*, **2011**, 17, 769-776 | 2.6 | 7 |
| 22 | On series expansions of orientation-dependent properties of pairs of non-spherical molecules. *Molecular Physics*, **1983**, 49, 251-274 | 1.7 | 7 |
| 21 | Modeling the Role of Excluded Volume in Zeolite Structure Direction. *Journal of Physical Chemistry Letters*, **2018**, 9, 3703-3707 | 6.4 | 6 |
| 20 | Dynamic mean field theory for lattice gas models of fluid mixtures confined in mesoporous materials. *Langmuir*, **2013**, 29, 13808-20 | 4 | 6 |
| 19 | Mean-field theory of ice phase stability. *Journal of Chemical Physics*, **2003**, 118, 7005-7011 | 3.9 | 6 |
| 18 | Isobaric molecular dynamics simulations of hard sphere systems. *Physical Review E*, **2001**, 63, 061106 | 2.4 | 6 |
| 17 | A new method for the numerical solution of integral equation approximations. *International Journal of Thermophysics*, **1990**, 11, 97-107 | 2.1 | 6 |
| 16 | Sorption Isotherm Reconstruction and Extraction of Pore Size Distributions for Serially Connected Pore Model (SCPM) Structures Employing Algorithmic and Statistical Models. *Journal of Physical Chemistry C*, **2020**, 124, 21591-21607 | 3.8 | 6 |
| 15 | Modelling the dynamics of condensation and evaporation of fluids in three-dimensional slit pores. *Molecular Physics*, **2015**, 113, 1250-1260 | 1.7 | 5 |
| 14 | On the mechanical stability of the body-centered cubic phase and the emergence of a metastable cI16 phase in classical hard sphere solids. *Journal of Chemical Physics*, **2018**, 148, 024502 | 3.9 | 5 |
| 13 | Additions and corrections. Equilibrium Properties of the Gaussian Overlap Fluid. *The Journal of Physical Chemistry*, **1984**, 88, 2678-2678 | | 4 |
| 12 | Nonequilibrium Steady States in Fluid Transport through Mesopores: Dynamic Mean Field Theory and Nonequilibrium Molecular Dynamics. *Langmuir*, **2019**, 35, 5702-5710 | 4 | 3 |
| 11 | Modeling the influence of side stream and ink bottle structures on adsorption/desorption dynamics of fluids in long pores. *Langmuir*, **2015**, 31, 188-98 | 4 | 3 |
| 10 | Modeling fluids confined in three-dimensionally ordered mesoporous carbons. *Adsorption*, **2021**, 27, 253-264 | 2.6 | 3 |
| 9 | Enhanced replica exchange reactive Monte Carlo simulations for constructing zeolite frameworks. *Molecular Simulation*, **2018**, 44, 453-462 | 2 | 3 |
| 8 | Density-functional theory study of the body-centered-cubic and cI16 hard-sphere crystals. *Journal of Chemical Physics*, **2019**, 150, 134506 | 3.9 | 2 |
| 7 | Modeling permporometry of mesoporous membranes using dynamic mean field theory. *AICHE Journal*, **2015**, 61, 2958-2967 | 3.6 | 2 |

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| 6 | Studies of a primitive model of mixtures of nonpolar molecules with water. *Molecular Physics*, **2004**, 102, 2071-2079 | 1.7 | 2 |
| 5 | A comparison of dynamic mean field theory and grand canonical molecular dynamics for the dynamics of pore filling and capillary condensation of fluids in mesopores. *Journal of Chemical Physics*, **2018**, 149, 014703 | 3.9 | 1 |
| 4 | Modeling Mesoscale Structure in Comb Polymer Materials for Anhydrous Proton Transport Applications. *Macromolecules*, **2010**, 43, 9549-9554 | 5.5 | 1 |
| 3 | Heats of Adsorption from Molecular Models of Adsorption in Heterogeneous Solids. *Kluwer International Series in Engineering and Computer Science*, **1996**, 1009-1018 | | 1 |
| 2 | Comment on Computer Simulation of Static and Dynamic Properties During Transient Sorption of Fluids in Mesoporous Materials *Journal of Physical Chemistry C*, **2010**, 114, 9187-9188 | 3.8 | |
| 1 | Connecting dynamic pore filling mechanisms with equilibrium and out of equilibrium configurations of fluids in nanopores.. *Journal of Chemical Physics*, **2022**, 156, 134702 | 3.9 | |