# Amadeu K. Sum

List of Publications by Year
in descending order



| 265 | 14,124 | 22548 | 28425 |
|---|---|---|---|
| papers | citations | 61 h-index | 109 g-index |

| 274 | 274 | 274 | 6994 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Experimental characterization of hydrate formation in non-emulsifying systems upon shut-in and restart conditions. Fuel, 2022, 307, 121690. | 3.4 | 9 |
| 2 | Mapping Wall Deposition Trends of Gas Hydrates: I. Gas-Water-Hydrate Systems. Industrial & Engineering Chemistry Research, 2022, 61, 2333-2345. | 1.8 | 3 |
| 3 | Experimental Analysis of Three-Phase Solid-Liquid-Gas Slug Flow with Hydrate-Like Particles. Lecture Notes in Mechanical Engineering, 2022, , 267-273. | 0.3 | 0 |
| 4 | A gas hydrate process for high-salinity water and wastewater purification. Desalination, 2022, 529, 115651. | 4.0 | 14 |
| 5 | Hydrate Management in Deadlegs: Thermal Conductivity of Hydrate Deposits. Energy & Fuels, 2021, 35, 3112-3118. | 2.5 | 3 |
| 6 | Effects of Salinity on Hydrate Phase Equilibrium and Kinetics of SF<sub>6</sub>, HFC134a, and Their Mixture. Journal of Chemical & Engineering Data, 2021, 66, 2295-2302. | 1.0 | 13 |
| 7 | Universal correlation for gas hydrates suppression temperature of inhibited systems: IV. Water activity. AICHE Journal, 2021, 67, e17293. | 1.8 | 10 |
| 8 | Editorial: Recent Advances in Promoters for Gas Hydrate Formation. Frontiers in Chemistry, 2021, 9, 708269. | 1.8 | 1 |
| 9 | Defining a Slurry Phase Map for Gas Hydrate Management in Multiphase Flow Systems. Industrial & Engineering Chemistry Research, 2021, 60, 14004-14012. | 1.8 | 4 |
| 10 | Molecular Resolution into the Nucleation and Crystal Growth of Clathrate Hydrates Formed from Methane and Propane Mixtures. Crystal Growth and Design, 2021, 21, 960-973. | 1.4 | 14 |
| 11 | Dynamic Analysis of Growth of Ice and Hydrate Crystals by In Situ Raman and Their Significance in Freezing Desalination. Crystal Growth and Design, 2021, 21, 6512-6522. | 1.4 | 9 |
| 12 | A Rheological Study of Parameters That Influence the Formation of Cyclopentane Hydrates. Energy & Fuels, 2021, 35, 18467-18477. | 2.5 | 9 |
| 13 | Advancing Laboratory Characterization and Qualification of Additives for Hydrate Slurry Flow in Multiphase Systems. Industrial & Engineering Chemistry Research, 2021, 60, 719-728. | 1.8 | 2 |
| 14 | Wax Deposition Characterization under Flowing Conditions Using an Oscillatory Flow Setup. Energy & Fuels, 2021, 35, 18495-18503. | 2.5 | 2 |
| 15 | Molecular simulations on the stability and dynamics of bulk nanobubbles in aqueous environments. Physical Chemistry Chemical Physics, 2021, 23, 27533-27542. | 1.3 | 18 |
| 16 | EXPERIMENTAL PHASE EQUILIBRIUM OF CO2 AND CH4 HYDRATES INHIBITED BY ISOPROPANOL AND SODIUM CHLORIDE. , 2021, , . | | 0 |
| 17 | A bench-scale flow loop study on hydrate deposition under multiphase flow conditions. Fuel, 2020, 262, 116558. | 3.4 | 20 |
| 18 | Phase Equilibria Data and Thermodynamic Analysis for Liquidâ€“Hydrateâ€“Vapor (LHV) with High Ethanol Concentrations. Journal of Chemical & Engineering Data, 2020, 65, 349-359. | 1.0 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Hydrate Management in Deadlegs: Effect of Pipe Size on Hydrate Deposition. Energy & Fuels, 2020, 34, 1422-1431. | 2.5 | 12 |
| 20 | Phase Equilibrium of Carbon Dioxide Hydrates Inhibited with MEG and NaCl above the Upper Quadruple Point. Journal of Chemical & Engineering Data, 2020, 65, 280-286. | 1.0 | 13 |
| 21 | A Multiscale Approach for Gas Hydrates Considering Structure, Agglomeration, and Transportability under Multiphase Flow Conditions: II. Growth Kinetic Model. Industrial & Engineering Chemistry Research, 2020, 59, 2123-2144. | 1.8 | 16 |
| 22 | Sixty Years of the van der Waals and Platteeuw Model for Clathrate Hydratesâ€"A Critical Review from Its Statistical Thermodynamic Basis to Its Extensions and Applications. Chemical Reviews, 2020, 120, 13349-13381. | 23.0 | 29 |
| 23 | A Multiscale Approach for Gas Hydrates Considering Structure, Agglomeration, and Transportability under Multiphase Flow Conditions: III. Agglomeration Model. Industrial & Engineering Chemistry Research, 2020, 59, 15357-15377. | 1.8 | 9 |
| 24 | Hydrate Management in Deadlegs: Effect of Natural Convection on Hydrate Deposition. Energy & Fuels, 2020, 34, 14094-14100. | 2.5 | 3 |
| 25 | Characterization of the coupling between gas hydrate formation and multiphase flow conditions. Journal of Natural Gas Science and Engineering, 2020, 83, 103567. | 2.1 | 16 |
| 26 | Mechanism for H2 diffusion in sII hydrates by molecular dynamics simulations. Journal of Chemical Physics, 2020, 153, 054706. | 1.2 | 8 |
| 27 | Growth Kinetics and Gas Diffusion in Formation of Gas Hydrates from Ice. Journal of Physical Chemistry C, 2020, 124, 12999-13007. | 1.5 | 23 |
| 28 | Propane and Water: The Cooperativity of Unlikely Molecules to Form Clathrate Structures. Journal of Physical Chemistry B, 2020, 124, 4661-4671. | 1.2 | 20 |
| 29 | Gas hydrates phase equilibria for brine blends: Measurements and comparison with prediction models. Fluid Phase Equilibria, 2020, 521, 112688. | 1.4 | 6 |
| 30 | Hydrate management in deadlegs: Limiting hydrate deposition with physical restriction. Fuel, 2020, 270, 117506. | 3.4 | 5 |
| 31 | Hydrate management in deadlegs: Effect of driving force on hydrate deposition. Fuel, 2020, 279, 118481. | 3.4 | 7 |
| 32 | Sensing Hydrates in Pipes by a Combined Electrical and Optical Fiber Sensor. IEEE Sensors Journal, 2020, 20, 5012-5018. | 2.4 | 3 |
| 33 | Gas hydrates porosity and effective volume under multiphase flow conditions. Journal of Natural Gas Science and Engineering, 2020, 79, 103340. | 2.1 | 6 |
| 34 | In Situ Raman Study of the Formation and Dissociation Kinetics of Methane and Methane/Propane Hydrates. Energy & Fuels, 2020, 34, 6288-6297. | 2.5 | 27 |
| 35 | Hydrate management in Deadlegs: Effect of water vapor content on hydrate deposition. Fuel, 2020, 273, 117714. | 3.4 | 7 |
| 36 | Hydrate Management in Deadlegs: Hydrate Deposition in Pipes with Complex Geometry. Fuel, 2020, 269, 117440. | 3.4 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Flow Risk Index: A New Metric for Solid Precipitation Assessment in Flow Assurance Management Applied to Gas Hydrate Transportability. Energy & Fuels, 2020, 34, 9371-9378. | 2.5 | 13 |
| 38 | Dynamics of Hydrate Behavior in Shut-In and Restart Condition in Two and Three Phase System. , 2020, , . | | 3 |
| 39 | EXPERIMENTAL PHASE EQUILIBRIUM OF CO2 HYDRATES ABOVE Q2 INHIBITED WITH MEG, NACL AND ISOPROPANOL. , 2020, , . | | 1 |
| 40 | Functionalized Nanoparticles for the Dispersion of Gas Hydrates in Slurry Flow. ACS Omega, 2019, 4, 13496-13508. | 1.6 | 11 |
| 41 | A Multiscale Approach for Gas Hydrates Considering Structure, Agglomeration, and Transportability under Multiphase Flow Conditions: I. Phenomenological Model. Industrial & Engineering Chemistry Research, 2019, 58, 14446-14461. | 1.8 | 33 |
| 42 | Investigating the effectiveness of anti-agglomerants in gas hydrates and ice formation. Fuel, 2019, 255, 115841. | 3.4 | 20 |
| 43 | Coexistence of sI and sII in methane-propane hydrate former systems at high pressures. Chemical Engineering Science, 2019, 208, 115149. | 1.9 | 19 |
| 44 | In-situ Raman and kinetic study on the methane hydrate formation and decomposition. Energy Procedia, 2019, 158, 5615-5621. | 1.8 | 10 |
| 45 | Measurements of Hydrate Formation Behavior in Shut-In and Restart Conditions. Energy & Fuels, 2019, 33, 9457-9465. | 2.5 | 13 |
| 46 | Simultaneous in-situ macro and microscopic observation of CH4 hydrate formation/decomposition and solubility behavior using Raman spectroscopy. Applied Energy, 2019, 255, 113834. | 5.1 | 16 |
| 47 | Promoting gas hydrate formation with ice-nucleating additives for hydrate-based applications. Applied Energy, 2019, 251, 113352. | 5.1 | 43 |
| 48 | Hydrate Management for Hydrate Deposition in Gas-Filled Vertical Pipes. , 2019, , . | | 2 |
| 49 | Intrinsic Structural Features of the Human IRE1Î± Transmembrane Domain Sense Membrane Lipid Saturation. Cell Reports, 2019, 27, 307-320.e5. | 2.9 | 34 |
| 50 | Cage occupancies, lattice constants, and guest chemical potentials for structure II hydrogen clathrate hydrate from Gibbs ensemble Monte Carlo simulations. Journal of Chemical Physics, 2019, 150, 134503. | 1.2 | 19 |
| 51 | Thermodynamic and kinetic analysis of gas hydrates for desalination of saturated salinity water. Chemical Engineering Journal, 2019, 370, 980-987. | 6.6 | 68 |
| 52 | Rock-Flow Cell: An Innovative Benchtop Testing Tool for Flow Assurance Studies. Industrial & Engineering Chemistry Research, 2019, 58, 8544-8552. | 1.8 | 29 |
| 53 | Perspectives on Gas Hydrates Cold Flow Technology. Energy & Fuels, 2019, 33, 1-15. | 2.5 | 34 |
| 54 | Guestâ€“Guest Interactions and Co-Occupation by Distinct Guests in the Metastable State of Clathrate Hydrates. Journal of Physical Chemistry C, 2019, 123, 3811-3816. | 1.5 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Thermodynamic and kinetic influences of NaCl on HFC-125a hydrates and their significance in gas hydrate-based desalination. Chemical Engineering Journal, 2019, 358, 598-605. | 6.6 | 55 |
| 56 | Hydrate Formation in Non-Emulsifying Systems Under Shut-in and Restart Conditions. , 2019, , . | | 0 |
| 57 | Modeling Heat and Mass Transfer Limitation Processes of Gas Hydrate Formation Under Slug Flow. , 2019, , . | | 0 |
| 58 | A review of solidified natural gas (SNG) technology for gas storage via clathrate hydrates. Applied Energy, 2018, 216, 262-285. | 5.1 | 420 |
| 59 | Measurements of horizontal threeâ€phase solidâ€liquidâ€gas slug flow: Influence of hydrateâ€like particles on hydrodynamics. AICHE Journal, 2018, 64, 2864-2880. | 1.8 | 10 |
| 60 | Gas Hydrate Sloughing as Observed and Quantified from Multiphase Flow Conditions. Energy & Fuels, 2018, 32, 3399-3405. | 2.5 | 16 |
| 61 | Guestâ€“guest and guestâ€“host interactions in ethanol, propan-1-ol, and propan-2-ol clathrate hydrate forming systems. New Journal of Chemistry, 2018, 42, 7364-7370. | 1.4 | 3 |
| 62 | Hydrate Management in Deadlegs: Effect of Wall Temperature on Hydrate Deposition. Energy & Fuels, 2018, 32, 3254-3262. | 2.5 | 21 |
| 63 | Hydrate Management in Deadlegs: Detection of Hydrate Deposition Using Permittivity Probe. Energy & Fuels, 2018, 32, 1693-1702. | 2.5 | 16 |
| 64 | Universal correlation for gas hydrates suppression temperature of inhibited systems: II. Mixed salts and structure type. AICHE Journal, 2018, 64, 2240-2250. | 1.8 | 29 |
| 65 | A three-phase solid-liquid-gas slug flow mechanistic model coupling hydrate dispersion formation with heat and mass transfer. Chemical Engineering Science, 2018, 178, 222-237. | 1.9 | 17 |
| 66 | Phase Behavior and Raman Spectroscopic Analysis for CH<sub>4</sub> and CH<sub>4</sub>/C<sub>3</sub>H<sub>8</sub> Hydrates Formed from NaCl Brine and Monoethylene Glycol Mixtures. Journal of Chemical & Engineering Data, 2018, 63, 2179-2184. | 1.0 | 13 |
| 67 | Gas hydrates phase equilibria for structure I and II hydrates with chloride salts at high salt concentrations and up to 200 MPa. Journal of Chemical Thermodynamics, 2018, 117, 27-32. | 1.0 | 33 |
| 68 | A Review of Clathrate Hydrate Based Desalination To Strengthen Energyâ€“Water Nexus. ACS Sustainable Chemistry and Engineering, 2018, 6, 8093-8107. | 3.2 | 275 |
| 69 | Assessing thermodynamic consistency of gas hydrates phase equilibrium data for inhibited systems. Fluid Phase Equilibria, 2018, 473, 294-299. | 1.4 | 40 |
| 70 | Universal correlation for gas hydrates suppression temperature of inhibited systems: III. salts and organic inhibitors. AICHE Journal, 2018, 64, 4097-4109. | 1.8 | 39 |
| 71 | Multiphase flash calculations for gas hydrates systems. Fluid Phase Equilibria, 2018, 475, 45-63. | 1.4 | 16 |
| 72 | An Examination of the Prediction of Hydrate Formation Conditions in the Presence of Thermodynamic Inhibitors. Brazilian Journal of Chemical Engineering, 2018, 35, 265-274. | 0.7 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | A correlation to quantify hydrate plugging risk in oil and gas production pipelines based on hydrate transportability parameters. Journal of Natural Gas Science and Engineering, 2018, 58, 152-161. | 2.1 | 47 |
| 74 | Analysis of three-phase equilibrium conditions for methane hydrate by isometric-isothermal molecular dynamics simulations. Journal of Chemical Physics, 2018, 148, 184501. | 1.2 | 16 |
| 75 | Revisited Model for Inward and Outward Growth of Gas Hydrate Particles in Water-in-Oil Emulsions. , 2018, , . | | 0 |
| 76 | EXPERIMENTAL PHASE EQUILIBRIUM OF CARBON DIOXIDE HYDRATES WITH MEG ABOVE THE UPPER QUADRUPLE POINT. , 2018, , . | | 0 |
| 77 | COLD FLOW HYDRATE MANAGEMENT METHODS. , 2018, , . | | 0 |
| 78 | EXPERIMENTAL STUDY OF HYDRATE FORMATION IN NON EMULSIFYING OIL SYSTEMS IN SHUT-IN AND RESTART CONDITIONS. , 2018, , . | | 0 |
| 79 | Gas hydrate formation from high concentration KCl brines at ultra-high pressures. Journal of Industrial and Engineering Chemistry, 2017, 50, 142-146. | 2.9 | 24 |
| 80 | Steady-State and Transient Studies of Gas Hydrates Formation in Non-emulsifying Oil Systems. Energy & Fuels, 2017, 31, 2548-2556. | 2.5 | 18 |
| 81 | Characterization of slug initiation for horizontal air-water two-phase flow. Experimental Thermal and Fluid Science, 2017, 87, 80-92. | 1.5 | 25 |
| 82 | Hydrate Management for Systems with High Salinity Brines at Ultra-High Pressures. , 2017, , . | | 1 |
| 83 | Modeling the effects of hydrate wall deposition on slug flow hydrodynamics and heat transfer. Applied Thermal Engineering, 2017, 114, 245-254. | 3.0 | 20 |
| 84 | Gas Hydrates Phase Equilibria and Formation from High Concentration NaCl Brines up to 200 MPa. Journal of Chemical & Engineering Data, 2017, 62, 1910-1918. | 1.0 | 52 |
| 85 | Quantification of the risk for hydrate formation during cool down in a dispersed oil-water system. Korean Journal of Chemical Engineering, 2017, 34, 2043-2048. | 1.2 | 6 |
| 86 | Phase equilibria and characterization of CO 2 and SF 6 binary hydrates for CO 2 sequestration. Energy, 2017, 126, 306-311. | 4.5 | 14 |
| 87 | Dynamics of hydrate formation and deposition under pseudo multiphase flow. AICHE Journal, 2017, 63, 4136-4146. | 1.8 | 48 |
| 88 | Hydrate Management in Deadlegs: Effect of Header Temperature on Hydrate Deposition. Energy & Fuels, 2017, 31, 11802-11810. | 2.5 | 30 |
| 89 | Hydrate Management of Deadlegs in Oil and Gas Production Systems â€“ Background and Development of Experimental Systems. Energy & Fuels, 2017, 31, 11783-11792. | 2.5 | 25 |
| 90 | Phase equilibrium data of methane hydrates in mixed brine solutions. Journal of Natural Gas Science and Engineering, 2017, 46, 750-755. | 2.1 | 32 |

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|---|---|---|---|
| 91 | Phase Behavior of Carbon Dioxide Hydrates: A Comparison of Inhibition Between Sodium Chloride and Ethanol. Journal of Chemical & Engineering Data, 2017, 62, 3445-3451. | 1.0 | 16 |
| 92 | Rheology of Tetrahydrofuran Hydrate Slurries. Energy & Fuels, 2017, 31, 14385-14392. | 2.5 | 23 |
| 93 | Insight into increased stability of methane hydrates at high pressure from phase equilibrium data and molecular structure. Fluid Phase Equilibria, 2017, 450, 24-29. | 1.4 | 30 |
| 94 | Universal correlation for gas hydrates suppression temperature of inhibited systems: I. Single salts. AICHE Journal, 2017, 63, 5111-5124. | 1.8 | 51 |
| 95 | Hydrate Management in Deadlegs: Hydrate Deposition Characterization in a 1-in. Vertical Pipe System. Energy & Fuels, 2017, 31, 13536-13544. | 2.5 | 17 |
| 96 | Hydrate Phase Equilibrium Using Water-Based Drilling Fluid. , 2017, , . | | 1 |
| 97 | Gas Hydrates Phase Equilibrium with CaBr<sub>2</sub> and CaBr<sub>2</sub> + MEG at Ultra-High Pressures. Journal of Natural Gas Engineering, 2017, 2, 42-49. | 0.3 | 15 |
| 98 | Study of Hydrate Formation in Transient Conditions. , 2017, , . | | 0 |
| 99 | Development of Kinetic Model for THF-Hydrate Formation. , 2017, , . | | 0 |
| 100 | Influence of Hydrate-Like Solid Particles in Horizontal Gas-Liquid Slug Flows. , 2017, , . | | 0 |
| 101 | Studies of hydrate accumulation under multiphase flow conditions. , 2017, , . | | 1 |
| 102 | NUMERICAL AND EXPERIMENTAL STUDY OF FREE SURFACE FLOWS IN A ROCK-FLOW CELL. , 2017, , . | | 0 |
| 103 | Multiphase Flash in Presence of Hydrates and Mixture of Inhibitors. , 2017, , . | | 0 |
| 104 | Inhibition of Carbon Dioxide Hydrates by Ethanol and Sodium Chloride. , 2017, , . | | 0 |
| 105 | Experimental study of the formation and deposition of gas hydrates in non-emulsifying oil and condensate systems. Chemical Engineering Science, 2016, 155, 111-126. | 1.9 | 32 |
| 106 | Inhibition of methane and natural gas hydrate formation by altering the structure of water with amino acids. Scientific Reports, 2016, 6, 31582. | 1.6 | 153 |
| 107 | Molecular dynamics simulations of the formation of ethane clathrate hydrates. Fluid Phase Equilibria, 2016, 413, 229-234. | 1.4 | 21 |
| 108 | Enclathration of tert-butyl alcohol in sII hydrates and its implications in gas storage and CO2 sequestration. Fuel, 2016, 164, 237-244. | 3.4 | 30 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Methane hydrate phase equilibria for systems containing NaCl, KCl, and NH 4 Cl. Fluid Phase Equilibria, 2016, 413, 2-9. | 1.4 | 95 |
| 110 | Cage occupancy of methane hydrates from Gibbs ensemble Monte Carlo simulations. Fluid Phase Equilibria, 2016, 413, 242-248. | 1.4 | 36 |
| 111 | Experimental measurements and modelling of carbon dioxide hydrate phase equilibrium with and without ethanol. Fluid Phase Equilibria, 2016, 413, 176-183. | 1.4 | 29 |
| 112 | How Properties of Solid Surfaces Modulate the Nucleation of Gas Hydrate. Scientific Reports, 2015, 5, 12747. | 1.6 | 79 |
| 113 | Development of a Tool to Assess Hydrate-Plug-Formation Risk in Oil-Dominant Pipelines. SPE Journal, 2015, 20, 884-892. | 1.7 | 21 |
| 114 | Multiphase Flow Modeling for Gas Hydrates in Flow Assurance. , 2015, , . | | 6 |
| 115 | Insights into the Kinetics of Methane Hydrate Formation in a Stirred Tank Reactor by Inâ€...Situ Raman Spectroscopy. Energy Technology, 2015, 3, 925-934. | 1.8 | 35 |
| 116 | Clathrate hydrate equilibrium modeling: Do self-consistent cell models provide unique equilibrium solutions?. Canadian Journal of Chemistry, 2015, 93, 826-830. | 0.6 | 2 |
| 117 | Raman spectra measurements on DEPC liposome and cell membrane of living neuron under xenon pressure. Canadian Journal of Chemistry, 2015, 93, 831-838. | 0.6 | 4 |
| 118 | Nucleation rate analysis of methane hydrate from molecular dynamics simulations. Faraday Discussions, 2015, 179, 463-474. | 1.6 | 57 |
| 119 | Influences of large molecular alcohols on gas hydrates and their potential role in gas storage and CO2 sequestration. Chemical Engineering Journal, 2015, 267, 117-123. | 6.6 | 42 |
| 120 | A molecular dynamics study of guestâ€“host hydrogen bonding in alcohol clathrate hydrates. Physical Chemistry Chemical Physics, 2015, 17, 12639-12647. | 1.3 | 24 |
| 121 | Micromechanical Cohesion Force between Gas Hydrate Particles Measured under High Pressure and Low Temperature Conditions. Langmuir, 2015, 31, 3884-3888. | 1.6 | 27 |
| 122 | Modifying the Flexibility of Water Cages by Co-Including Acidic Species within Clathrate Hydrate. Journal of Physical Chemistry C, 2015, 119, 8904-8911. | 1.5 | 14 |
| 123 | Design Principles for Nanoparticles Enveloped by a Polymer-Tethered Lipid Membrane. ACS Nano, 2015, 9, 9942-9954. | 7.3 | 22 |
| 124 | Effect of Hydrogen-to-Methane Concentration Ratio on the Phase Equilibria of Quaternary Hydrate Systems. Journal of Chemical & Engineering Data, 2015, 60, 418-423. | 1.0 | 16 |
| 125 | Phase Equilibrium Data and Model Comparisons for H<sub>2</sub>S Hydrates. Journal of Chemical & Engineering Data, 2015, 60, 403-408. | 1.0 | 49 |
| 126 | Equilibrium Data of Gas Hydrates containing Methane, Propane, and Hydrogen Sulfide. Journal of Chemical & Engineering Data, 2015, 60, 424-428. | 1.0 | 30 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Insights into the formation mechanism of hydrate plugging in pipelines. Chemical Engineering Science, 2015, 122, 284-290. | 1.9 | 81 |
| 128 | Vibrational spectra of deuterated methane and water molecules in structure I clathrate hydrate fromab initioMD simulation. Molecular Simulation, 2015, 41, 813-817. | 0.9 | 2 |
| 129 | Development of a high pressure micromechanical force apparatus. Review of Scientific Instruments, 2014, 85, 095120. | 0.6 | 19 |
| 130 | Observation of Interstitial Molecular Hydrogen in Clathrate Hydrates. Angewandte Chemie - International Edition, 2014, 53, 10710-10713. | 7.2 | 14 |
| 131 | Investigating the Thermodynamic Stabilities of Hydrogen and Methane Binary Gas Hydrates. Journal of Physical Chemistry C, 2014, 118, 3783-3788. | 1.5 | 45 |
| 132 | Measurements of hydrate film fracture under conditions simulating the rise of hydrated gas bubbles in deep water. Chemical Engineering Science, 2014, 116, 109-117. | 1.9 | 27 |
| 133 | Methane Hydrate Formation and Dissociation on Suspended Gas Bubbles in Water. Journal of Chemical & Engineering Data, 2014, 59, 1045-1051. | 1.0 | 51 |
| 134 | Mechanism of Cohesive Forces of Cyclopentane Hydrates with and without Thermodynamic Inhibitors. Industrial & Engineering Chemistry Research, 2014, 53, 18189-18193. | 1.8 | 26 |
| 135 | Reaction Coordinate of Incipient Methane Clathrate Hydrate Nucleation. Journal of Physical Chemistry B, 2014, 118, 13236-13243. | 1.2 | 83 |
| 136 | Two-component order parameter for quantifying clathrate hydrate nucleation and growth. Journal of Chemical Physics, 2014, 140, 164506. | 1.2 | 55 |
| 137 | Quantitative measurement and mechanisms for CH<sub>4</sub> production from hydrates with the injection of liquid CO<sub>2</sub>. Physical Chemistry Chemical Physics, 2014, 16, 14922-14927. | 1.3 | 88 |
| 138 | Adhesion force interactions between cyclopentane hydrate and physically and chemically modified surfaces. Physical Chemistry Chemical Physics, 2014, 16, 25121-25128. | 1.3 | 45 |
| 139 | Synergistic Hydrate Inhibition of Monoethylene Glycol with Poly(vinylcaprolactam) in Thermodynamically Underinhibited System. Journal of Physical Chemistry B, 2014, 118, 9065-9075. | 1.2 | 78 |
| 140 | Effect of Kinetic Hydrate Inhibitor Polyvinylcaprolactam on Cyclopentane Hydrate Cohesion Forces and Growth. Energy & Fuels, 2014, 28, 3632-3637. | 2.5 | 22 |
| 141 | Seawater desalination by gas hydrate process and removal characteristics of dissolved ions (Na+, K+,) Tj ETQq1 1 0.784314 rgBT /Ove | 4.0 | 299 |
| 142 | New Observations and Insights into the Morphology and Growth Kinetics of Hydrate Films. Scientific Reports, 2014, 4, 4129. | 1.6 | 65 |
| 143 | Model Water-in-Oil Emulsions for Gas Hydrate Studies in Oil Continuous Systems. Energy & Fuels, 2013, 27, 4564-4573. | 2.5 | 65 |
| 144 | Advances in molecular simulations of clathrate hydrates. Current Opinion in Chemical Engineering, 2013, 2, 184-190. | 3.8 | 63 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Measurements of Cohesion Hysteresis between Cyclopentane Hydrates in Liquid Cyclopentane. Energy & Fuels, 2013, 27, 5168-5174. | 2.5 | 9 |
| 146 | Adhesion Force between Cyclopentane Hydrate and Mineral Surfaces. Langmuir, 2013, 29, 15551-15557. | 1.6 | 53 |
| 147 | Orifice jamming of fluid-driven granular flow. Physical Review E, 2013, 87, 042204. | 0.8 | 50 |
| 148 | Molecular Dynamics Simulations of Pegylated Compounds in Dopc Lipid Bilayer. Biophysical Journal, 2013, 104, 663a. | 0.2 | 0 |
| 149 | Computational and Experimental Analyses of the Transmembrane Domain Dimerization of IRE1Î± Protein. Biophysical Journal, 2013, 104, 406a. | 0.2 | 1 |
| 150 | Experimental flowloop investigations of gas hydrate formation in high water cut systems. Chemical Engineering Science, 2013, 97, 198-209. | 1.9 | 172 |
| 151 | Multiphase flow modeling of gas hydrates with a simple hydrodynamic slug flow model. Chemical Engineering Science, 2013, 99, 298-304. | 1.9 | 59 |
| 152 | Surfactant Adsorption and Interfacial Tension Investigations on Cyclopentane Hydrate. Langmuir, 2013, 29, 2676-2682. | 1.6 | 92 |
| 153 | Water proton configurations in structures I, II, and H clathrate hydrate unit cells. Journal of Chemical Physics, 2013, 138, 124504. | 1.2 | 193 |
| 154 | Gas Hydrate Deposition on a Cold Surface in Water-Saturated Gas Systems. Industrial & Engineering Chemistry Research, 2013, 52, 6262-6269. | 1.8 | 94 |
| 155 | Biophysical changes induced by xenon on phospholipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 1347-1356. | 1.4 | 54 |
| 156 | Dendritic Amphiphiles Strongly Affect the Biophysical Properties of DPPC Bilayer Membranes. Journal of Physical Chemistry B, 2013, 117, 1810-1818. | 1.2 | 4 |
| 157 | Gas Hydrate Deposition in Flowlines: A Challenging Problem in Flow Assurance. , 2013, , . | | 2 |
| 158 | Interfacial Tension and Mineral Adhesion Properties of Cyclopentane Hydrate. , 2013, , . | | 0 |
| 159 | Multiphase Flow Modeling of Gas-Water-Hydrate Systems. , 2013, , . | | 5 |
| 160 | Prevention, Management, and Remediation Approaches for Gas Hydrates in the Flow Assurance of Oil/Gas Flowlines. , 2013, , . | | 7 |
| 161 | Energy Production from Gas Hydrate Systems using CO2 and CO2/N2 Injection. , 2013, , . | | 2 |
| 162 | Thermodynamic Stability of Structure H Hydrates Based on the Molecular Properties of Large Guest Molecules. Energies, 2012, 5, 459-465. | 1.6 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Jamming of particles in a two-dimensional fluid-driven flow. Physical Review E, 2012, 86, 061311. | 0.8 | 46 |
| 164 | High pressure rheometer for in situ formation and characterization of methane hydrates. Review of Scientific Instruments, 2012, 83, 015106. | 0.6 | 31 |
| 165 | Rapid hydrogen hydrate growth from non-stoichiometric tuning mixtures during liquid nitrogen quenching. Journal of Chemical Physics, 2012, 136, 234504. | 1.2 | 16 |
| 166 | Predicting Hydrate Blockages in Oil, Gas and Water-Dominated Systems. , 2012, , . | | 31 |
| 167 | Hydrate Risk Assessment and Restart-Procedure Optimization of an Offshore Well Using a Transient Hydrate Prediction Model. Oil and Gas Facilities, 2012, 1, 49-56. | 0.4 | 26 |
| 168 | Palmitate Effect on the Trasmembrane Domain of IRE1Î± Protein. Biophysical Journal, 2012, 102, 399a. | 0.2 | 0 |
| 169 | Hydrates in the Ocean beneath, around, and above Production Equipment. Energy & Fuels, 2012, 26, 4167-4176. | 2.5 | 13 |
| 170 | Kinetic Studies on Methane Hydrate Formation in the Presence of Kinetic Inhibitor via in Situ Raman Spectroscopy. Energy & Fuels, 2012, 26, 7045-7050. | 2.5 | 49 |
| 171 | Lowering of Clathrate Hydrate Cohesive Forces by Surface Active Carboxylic Acids. Energy & Fuels, 2012, 26, 5102-5108. | 2.5 | 50 |
| 172 | High-Pressure Rheology of Hydrate Slurries Formed from Water-in-Oil Emulsions. Energy & Fuels, 2012, 26, 3504-3509. | 2.5 | 97 |
| 173 | Synthesis and Characterization of sI Clathrate Hydrates Containing Hydrogen. Journal of Physical Chemistry C, 2012, 116, 18557-18563. | 1.5 | 42 |
| 174 | Thermodynamic and Spectroscopic Identification of Guest Gas Enclathration in the Double Tetra-n-butylammonium Fluoride Semiclathrates. Journal of Physical Chemistry B, 2012, 116, 9075-9081. | 1.2 | 62 |
| 175 | State of the art: Natural gas hydrates as a natural resource. Journal of Natural Gas Science and Engineering, 2012, 8, 132-138. | 2.1 | 180 |
| 176 | Droplet Size Scaling of Water-in-Oil Emulsions under Turbulent Flow. Langmuir, 2012, 28, 104-110. | 1.6 | 176 |
| 177 | Overview of CSMHyK: A transient hydrate formation model. Journal of Petroleum Science and Engineering, 2012, 98-99, 122-129. | 2.1 | 99 |
| 178 | Voronoi Tessellation Analysis of Clathrate Hydrates. Journal of Physical Chemistry C, 2012, 116, 20040-20046. | 1.5 | 22 |
| 179 | Developing a Comprehensive Understanding and Model of Hydrate in Multiphase Flow: From Laboratory Measurements to Field Applications. Energy & Fuels, 2012, 26, 4046-4052. | 2.5 | 101 |
| 180 | Vibrational modes of methane in the structure H clathrate hydrate from ab initio molecular dynamics simulation. Journal of Chemical Physics, 2012, 137, 144306. | 1.2 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Molecular vibrations of methane molecules in the structure I clathrate hydrate from ab initio molecular dynamics simulation. Journal of Chemical Physics, 2012, 136, 044508. | 1.2 | 43 |
| 182 | Micromechanical cohesion force measurements to determine cyclopentane hydrate interfacial properties. Journal of Colloid and Interface Science, 2012, 376, 283-288. | 5.0 | 91 |
| 183 | Measurements of methane hydrate equilibrium in systems inhibited with NaCl and methanol. Journal of Chemical Thermodynamics, 2012, 48, 1-6. | 1.0 | 109 |
| 184 | Interfacial mechanisms governing cyclopentane clathrate hydrate adhesion/cohesion. Physical Chemistry Chemical Physics, 2011, 13, 19796. | 1.3 | 203 |
| 185 | A Special Tribute to Stan Sandler: The Reach and Impact of a Life-Long Dedication to the Chemical Engineering Profession. Industrial & Engineering Chemistry Research, 2011, 50, 1-2. | 1.8 | 4 |
| 186 | Fundamentals and Applications of Gas Hydrates. Annual Review of Chemical and Biomolecular Engineering, 2011, 2, 237-257. | 3.3 | 367 |
| 187 | Hydrate Plug Dissociation via Nitrogen Purge: Experiments and Modeling. Energy & Fuels, 2011, 25, 2572-2578. | 2.5 | 27 |
| 188 | Thermodynamic properties of methane/water interface predicted by molecular dynamics simulations. Journal of Chemical Physics, 2011, 134, 144702. | 1.2 | 55 |
| 189 | Xenon Hydrate Dissociation Measurements With Model Protein Systems. Journal of Physical Chemistry B, 2011, 115, 10270-10276. | 1.2 | 11 |
| 190 | Surface Chemistry and Gas Hydrates in Flow Assurance. Industrial & Engineering Chemistry Research, 2011, 50, 188-197. | 1.8 | 164 |
| 191 | The cages, dynamics, and structuring of incipient methane clathrate hydrates. Physical Chemistry Chemical Physics, 2011, 13, 19951. | 1.3 | 127 |
| 192 | The Effect of Chemistry and System Conditions on Hydrate Interparticle Adhesion Forces Toward Aggregation and Hydrate Plug Formation. , 2011, , . | | 4 |
| 193 | Generation of Best Practices in Flow Assurance Using a Transient Hydrate Kinetics Model. , 2011, , . | | 8 |
| 194 | Hydrate Risk Assessment and Restart Procedure Optimization of an Offshore Well Using a Transient Hydrate Prediction Model. , 2011, , . | | 2 |
| 195 | Methane Hydrate Nucleation Rates from Molecular Dynamics Simulations: Effects of Aqueous Methane Concentration, Interfacial Curvature, and System Size. Journal of Physical Chemistry C, 2011, 115, 21241-21248. | 1.5 | 187 |
| 196 | A new apparatus for seawater desalination by gas hydrate process and removal characteristics of dissolved minerals (Na+, Mg2+, Ca2+, K+, B3+). Desalination, 2011, 274, 91-96. | 4.0 | 320 |
| 197 | Viscosity and yield stresses of ice slurries formed in water-in-oil emulsions. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 859-866. | 1.0 | 41 |
| 198 | Challenges, Uncertainties, and Issues Facing Gas Production From Gas-Hydrate Deposits. SPE Reservoir Evaluation and Engineering, 2011, 14, 76-112. | 1.1 | 257 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Molecular dynamics simulations of vapor/liquid coexistence using the nonpolarizable water models. Journal of Chemical Physics, 2011, 134, 124708. | 1.2 | 60 |
| 200 | Energy science of clathrate hydrates: Simulation-based advances. MRS Bulletin, 2011, 36, 205-210. | 1.7 | 17 |
| 201 | Where and How Are Hydrate Plugs Formed?. , 2011, , 13-36. | | 20 |
| 202 | Synthesis and characterization of clathrate hydrates containing carbon dioxide and ethanol. Physical Chemistry Chemical Physics, 2010, 12, 9927. | 1.3 | 41 |
| 203 | A new apparatus to enhance the rate of gas hydrate formation: Application to capture of carbon dioxide. International Journal of Greenhouse Gas Control, 2010, 4, 630-637. | 2.3 | 255 |
| 204 | Adhesion force between cyclopentane hydrates and solid surface materials. Journal of Colloid and Interface Science, 2010, 343, 529-536. | 5.0 | 137 |
| 205 | Predicting hydrate plug formation in oil-dominated flowlines. Journal of Petroleum Science and Engineering, 2010, 72, 302-309. | 2.1 | 68 |
| 206 | Gas Hydrate Stability and Sampling: The Future as Related to the Phase Diagram. Energies, 2010, 3, 1991-2000. | 1.6 | 27 |
| 207 | Hydrogen Storage in tri-Methylamine Clathrates. , 2010, , . | | 0 |
| 208 | Measurement and Calibration of Droplet Size Distributions in Water-in-Oil Emulsions by Particle Video Microscope and a Focused Beam Reflectance Method. Industrial & Engineering Chemistry Research, 2010, 49, 1412-1418. | 1.8 | 116 |
| 209 | In Situ Studies of the Mass Transfer Mechanism across a Methane Hydrate Film Using High-Resolution Confocal Raman Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 1173-1180. | 1.5 | 137 |
| 210 | Influence of Model Oil with Surfactants and Amphiphilic Polymers on Cyclopentane Hydrate Adhesion Forces. Energy & Fuels, 2010, 24, 5441-5445. | 2.5 | 87 |
| 211 | Correlation of Hydrate-Film Growth Rate at the Guest/Liquid-Water Interface to Mass Transfer Resistance. Industrial & Engineering Chemistry Research, 2010, 49, 7102-7103. | 1.8 | 39 |
| 212 | Calculation of Liquid Waterâ^'Hydrateâ^'Methane Vapor Phase Equilibria from Molecular Simulations. Journal of Physical Chemistry B, 2010, 114, 5775-5782. | 1.2 | 118 |
| 213 | Large-Cage Occupancies of Hydrogen in Binary Clathrate Hydrates Dependent on Pressures and Guest Concentrations. Journal of Physical Chemistry C, 2010, 114, 15218-15222. | 1.5 | 68 |
| 214 | Microsecond Simulations of Spontaneous Methane Hydrate Nucleation and Growth. Science, 2009, 326, 1095-1098. | 6.0 | 644 |
| 215 | Simulation and Experimental Studies of Jamming for Model Two-Dimensional Particles Under Flow. , 2009, , . | | 0 |
| 216 | Surfactant effects on SF6 hydrate formation. Journal of Colloid and Interface Science, 2009, 331, 55-59. | 5.0 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Properties of the clathrates of hydrogen and developments in their applicability for hydrogen storage. Chemical Physics Letters, 2009, 478, 97-109. | 1.2 | 162 |
| 218 | Molecular Binding of Catechins to Biomembranes: Relationship to Biological Activity. Journal of Agricultural and Food Chemistry, 2009, 57, 6720-6728. | 2.4 | 138 |
| 219 | Structural Transformations of sVI tert-Butylamine Hydrates to sII Binary Hydrates with Methane. Journal of Physical Chemistry A, 2009, 113, 11311-11315. | 1.1 | 11 |
| 220 | Micromechanical Adhesion Force Measurements between Hydrate Particles in Hydrocarbon Oils and Their Modifications. Energy & Fuels, 2009, 23, 5966-5971. | 2.5 | 94 |
| 221 | The role of fatty acid unsaturation in minimizing biophysical changes on the structure and local effects of bilayer membranes. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1508-1516. | 1.4 | 88 |
| 222 | Increasing Hydrogen Storage Capacity Using Tetrahydrofuran. Journal of the American Chemical Society, 2009, 131, 14616-14617. | 6.6 | 158 |
| 223 | Hydrogen Storage in Double Clathrates with tert-Butylamine. Journal of Physical Chemistry A, 2009, 113, 6540-6543. | 1.1 | 59 |
| 224 | Gas hydrates: Unlocking the energy from icy cages. Journal of Applied Physics, 2009, 106, . | 1.1 | 124 |
| 225 | Phase Equilibria and Thermodynamic Modeling of Ethane and Propane Hydrates in Porous Silica Gels. Journal of Physical Chemistry B, 2009, 113, 5487-5492. | 1.2 | 61 |
| 226 | Clathrate Hydrates: From Laboratory Science to Engineering Practice. Industrial & Engineering Chemistry Research, 2009, 48, 7457-7465. | 1.8 | 347 |
| 227 | Tetra-n-butylammonium Borohydride Semiclathrate: A Hybrid Material for Hydrogen Storage. Journal of Physical Chemistry A, 2009, 113, 6415-6418. | 1.1 | 70 |
| 228 | Molecular Dynamics Study on the Biophysical Interactions of Seven Green Tea Catechins with Lipid Bilayers of Cell Membranes. Journal of Agricultural and Food Chemistry, 2008, 56, 7750-7758. | 2.4 | 157 |
| 229 | Experimental and Computational Studies Investigating Trehalose Protection of HepG2 Cells from Palmitate-Induced Toxicity. Biophysical Journal, 2008, 94, 2869-2883. | 0.2 | 32 |
| 230 | Molecular Dynamics Study on the Stabilization of Dehydrated Lipid Bilayers with Glucose and Trehalose. Journal of Physical Chemistry B, 2008, 112, 10732-10740. | 1.2 | 34 |
| 231 | Molecular Characterization of Gel and Liquid-Crystalline Structures of Fully Hydrated POPC and POPE Bilayers. Journal of Physical Chemistry B, 2007, 111, 6026-6033. | 1.2 | 114 |
| 232 | Molecular studies of the gel to liquid-crystalline phase transition for fully hydrated DPPC and DPPE bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 354-365. | 1.4 | 148 |
| 233 | Correlation of methane Raman Î½<sub>1</sub> band position with fluid density and interactions at the molecular level. Journal of Raman Spectroscopy, 2007, 38, 1510-1515. | 1.2 | 33 |
| 234 | Modeling of biological membranes in the study of natural polyphenol compounds. Chemistry and Physics of Lipids, 2007, 149, S16. | 1.5 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Molecular investigation of the interactions of trehalose with lipid bilayers of DPPC, DPPE and their mixture. Molecular Simulation, 2006, 32, 219-230. | 0.9 | 30 |
| 236 | Molecular Simulation Study of Structural and Dynamic Properties of Mixed DPPC/DPPE Bilayers. Biophysical Journal, 2006, 90, 3951-3965. | 0.2 | 147 |
| 237 | Molecular Dynamics Study of the Properties of Capsaicin in an 1-Octanol/Water System. Journal of Physical Chemistry B, 2006, 110, 2351-2357. | 1.2 | 17 |
| 238 | Molecular study of the diffusional process of DMSO in double lipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 1751-1758. | 1.4 | 19 |
| 239 | Structural effects of small molecules on phospholipid bilayers investigated by molecular simulations. Fluid Phase Equilibria, 2005, 228-229, 135-140. | 1.4 | 20 |
| 240 | Methaneâ€“ethane and methaneâ€“propane hydrate formation and decomposition on water droplets. Chemical Engineering Science, 2005, 60, 4203-4212. | 1.9 | 88 |
| 241 | Molecular Simulation Study of the Influence of Small Molecules on the Dynamic and Structural Properties of Phospholipid Bilayers. Chemistry and Biodiversity, 2005, 2, 1503-1516. | 1.0 | 7 |
| 242 | Gas hydrates: A cleaner source of energy and opportunity for innovative technologies. Korean Journal of Chemical Engineering, 2005, 22, 671-681. | 1.2 | 205 |
| 243 | Modulating Membrane Properties:Â The Effect of Trehalose and Cholesterol on a Phospholipid Bilayer. Journal of Physical Chemistry B, 2005, 109, 24173-24181. | 1.2 | 63 |
| 244 | Monte Carlo molecular simulation of the hydration of Naâ€“montmorillonite at reservoir conditions. Journal of Chemical Physics, 2004, 120, 939-946. | 1.2 | 32 |
| 245 | Structural effects of small molecules on phospholipid bilayers investigated by molecular simulations. Fluid Phase Equilibria, 2004, 225, 63-68. | 1.4 | 39 |
| 246 | Simulation of Vaporâ^'Liquid Phase Equilibria of Primary Alcohols and Alcoholâ^'Alkane Mixtures. Journal of Physical Chemistry B, 2004, 108, 10071-10076. | 1.2 | 37 |
| 247 | Predictive Molecular Model for the Thermodynamic and Transport Properties of Triacylglycerols. Journal of Physical Chemistry B, 2003, 107, 14443-14451. | 1.2 | 61 |
| 248 | Molecular Simulation Study of Phospholipid Bilayers and Insights of the Interactions with Disaccharides. Biophysical Journal, 2003, 85, 2830-2844. | 0.2 | 200 |
| 249 | Molecular Simulation Study on the Influence of Dimethylsulfoxide on the Structure of Phospholipid Bilayers. Biophysical Journal, 2003, 85, 3636-3645. | 0.2 | 87 |
| 250 | Ab initiopair potential and phase equilibria predictions for hydrogen chloride. Journal of Chemical Physics, 2003, 118, 4086-4093. | 1.2 | 23 |
| 251 | Prediction of the phase behavior of acetonitrile and methanol with ab initio pair potentials. I. Pure components. Journal of Chemical Physics, 2002, 116, 7627-7636. | 1.2 | 27 |
| 252 | Prediction of the phase behavior of acetonitrile and methanol with ab initio pair potentials. II. The mixture. Journal of Chemical Physics, 2002, 116, 7637-7644. | 1.2 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Ab initio pair potential and phase equilibria predictions for the refrigerant methyl fluoride. Molecular Physics, 2002, 100, 2433-2447. | 0.8 | 10 |
| 254 | The use of quantum chemistry to predict phase behavior for environmental and process engineering. Fluid Phase Equilibria, 2002, 194-197, 61-75. | 1.4 | 16 |
| 255 | Ab initio pair potentials and phase equilibria predictions of halogenated compounds. Fluid Phase Equilibria, 2002, 199, 5-13. | 1.4 | 13 |
| 256 | Some chemical engineering applications of quantum chemical calculations. Advances in Chemical Engineering, 2001, 28, 313-351. | 0.5 | 2 |
| 257 | Computer simulation of acetonitrile and methanol with ab initio-based pair potentials. Journal of Chemical Physics, 2000, 113, 5401. | 1.2 | 27 |
| 258 | Ab Initio Calculations of Cooperativity Effects on Clusters of Methanol, Ethanol, 1-Propanol, and Methanethiol. Journal of Physical Chemistry A, 2000, 104, 1121-1129. | 1.1 | 112 |
| 259 | Use of ab initio methods to make phase equilibria predictions using activity coefficient models. Fluid Phase Equilibria, 1999, 158-160, 375-380. | 1.4 | 26 |
| 260 | A Novel Approach to Phase Equilibria Predictions UsingAb InitioMethods. Industrial & Engineering Chemistry Research, 1999, 38, 2849-2855. | 1.8 | 40 |
| 261 | Measurement of Clathrate Hydrates via Raman Spectroscopy. Journal of Physical Chemistry B, 1997, 101, 7371-7377. | 1.2 | 534 |
| 262 | Effective kinetic inhibitors for natural gas hydrates. Chemical Engineering Science, 1996, 51, 1221-1229. | 1.9 | 368 |
| 263 | Unconventional energy sources: gas hydrates. , 0, , 137-146. | | 0 |
| 264 | Experimental and Modeling of Carbon Dioxide Hydrate Phase Equilibrium in the Presence of Thermodynamic Inhibitors. , 0, , . | | 0 |
| 265 | An Investigation of the Prediction of Hydrate Formation Conditions in the Presence of Thermodynamic Inhibitors. , 0, , . | | 0 |