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| 406 | Surface activity of poloxamines at the interfaces between airwater and hexanewater. <b>2003</b> , 212, 9-17  |     | 38        |
| 405 | Surface Tension of Aqueous Binary Mixtures of 1-Amino-2-Propanol and 3-Amino-1-Propanol, and Aqueous Ternary Mixtures of These Amines with Diethanolamine, Triethanolamine, and 2-Amino-2-methyl-1-propanol from (298.15 to 323.15) K. <i>Journal of Chemical &amp; Chemical &amp;</i> | 2.8 | 54        |
| 404 | Data, 2003, 48, 32-35  Molecular dynamics study of the n-hexane-water interface: towards a better understanding of the liquid-liquid interfacial broadening. 2004, 120, 2464-9   |     | 50        |
| 403 | Molecular Dynamics Study of a Surfactant-Mediated Decane Water Interface: Effect of Molecular Architecture of Alkyl Benzene Sulfonate. <b>2004</b> , 108, 12130-12140  |     | 187       |
| 402 | Revised implicit solvent model for the simulation of surfactants in aqueous solutions. <b>2005</b> , 109, 11762  | !-9 | 13        |
| 401 | Molecular dynamics simulation of amphiphilic bistable [2]rotaxane langmuir monolayers at the air/water interface. <b>2005</b> , 127, 14804-16  |     | 90        |
| 400 | Interfacial tension and electrocapillary measurements of the room temperature ionic liquid/aqueous interface. <b>2005</b> , 21, 12179-86   |     | 40        |
| 399 | Structures and properties of Newton black films characterized using molecular dynamics simulations. <b>2006</b> , 110, 7992-8001   |     | 91        |
| 398 | Single-molecule force spectroscopy measurements of "hydrophobic bond" between tethered hexadecane molecules. <b>2006</b> , 110, 17578-83   |     | 42        |
| 397 | Nanotubes from a vitamin C-based bolaamphiphile. <b>2006</b> , 128, 7209-14  |     | 63        |
| 396 | Role of dimensionality and axisymmetry in fluid pinch-off and coalescence. <b>2007</b> , 98, 224502  |     | 54        |
| 395 | Molecular simulations of droplet coalescence in oil/water/surfactant systems. <b>2007</b> , 127, 134701  |     | 60        |
| 394 | Lateral intermolecular forces between biomembrane lipids in two dimensions: 1,2-dipalmitin at the heptane/water interface compared with phospholipids. <b>2007</b> , 111, 74-80  |     | 3         |

## (2010-2007)

| 393 | Multi-property fitting and parameterization of a coarse grained model for aqueous surfactants. <b>2007</b> , 33, 27-36   | 353 |
|-----|--|-----|
| 392 | Vapourliquid interfacial tension of water and hydrocarbon mixture at high pressure and high temperature conditions. <b>2007</b> , 252, 66-73                       | 21  |
| 391 | Temperature dependence of structure, bending rigidity, and bilayer interactions of dioleoylphosphatidylcholine bilayers. <b>2008</b> , 94, 117-24                  | 264 |
| 390 | Mobilization and rupture of LNAPL ganglia during freeze-thaw: two-dimensional cell experiments. <b>2008</b> , 42, 5467-72  | 10  |
| 389 | Comprehensive theory for star-like polymer micelles; combining classical nucleation and polymer brush theory. <b>2008</b> , 10, 5308-16                            | 6   |
| 388 | Liquid-liquid interfaces of semifluorinated alkane diblock copolymers with water, alkanes, and perfluorinated alkanes. <b>2008</b> , 112, 16012-20                 | 10  |
| 387 | Convective instability in a liquid-liquid system due to complexation with a crown ether. 2008, 112, 7357-64  | 10  |
| 386 | Floating behavior of hydrophobic glass spheres. <b>2009</b> , 336, 743-9   | 14  |
| 385 | Guidelines for solvent selection for carrier mediated extraction of proteins. 2009, 65, 65-72  | 50  |
| 384 | Mutual solubilityInterfacial tension relationship in aqueous binary and ternary hydrocarbon systems. <b>2009</b> , 285, 24-29                                      | 12  |
| 383 | Thermodynamic modeling of the duality of linear 1-alcohols as cosurfactants and cosolvents in self-assembly of surfactant molecules. <b>2009</b> , 25, 12101-13    | 42  |
| 382 | Interfacial Tension and Density of Water + Branched Hydrocarbon Binary Systems in the Range 303B43 K. <b>2009</b> , 48, 1476-1483                                  | 22  |
| 381 | An Improved Model for Water-Hydrocarbon Surface Tension at Reservoir Conditions. 2009,   | 19  |
| 380 | Capillary Trapping in Water-Wet Sandstones: Coreflooding Experiments and Pore-Network Modeling. <b>2010</b> ,  | 15  |
| 379 | Molecular dynamics study of the water/n-alkane interface. <b>2010</b> , 53, 945-949  | 19  |
| 378 | Influence of Drop Growth Rate and Size on the Interfacial Tension of Triton X-100 Solutions as a Function of Pressure and Temperature. <b>2010</b> , 31, 2416-2424 | 9   |
| 377 | Fischer-Tropsch diesel emulsions stabilised by microfibrillated cellulose and nonionic surfactants. <b>2010</b> , 352, 585-92                                      | 36  |
| 376 | Fuel emulsions and microemulsions based on Fischer Tropsch diesel. <b>2010</b> , 354, 91-98  | 39  |

| 375 | Interfacial tensions of imidazolium-based ionic liquids with water and n-alkanes. 2010, 294, 139-147   | 51  |
|-----|--|-----|
| 374 | EFFECT OF SPREADING COEFFICIENT ON GAS-LIQUID MASS TRANSFER IN GAS-LIQUID-LIQUID DISPERSIONS IN A STIRRED TANK. <b>2010</b> , 197, 1515-1526   | 8   |
| 373 | Direct measurements of contact force between clathrate hydrates and water. <b>2010</b> , 26, 9187-90   | 36  |
| 372 | Poly(N-isopropylacrylamide) microgels at the oil-water interface: interfacial properties as a function of temperature. <b>2010</b> , 26, 13839-46  | 82  |
| 371 | Correlating interfacial tensions with surface tensions: a gibbsian approach. <b>2010</b> , 26, 5568-75   | 31  |
| 370 | Phase Equilibrium, Volumetric, and Interfacial Properties of the Ionic Liquid,<br>1-Hexyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide and 1-Octene. <i>Journal of Chemical</i> 2.8<br>& amp; Engineering Data, <b>2010</b> , 55, 1611-1617   | 44  |
| 369 | Mechanism of Metal Oxide Nanoparticle Loading in SBA-15 by the Double Solvent Technique. <b>2010</b> , 114, 3507-3515  | 75  |
| 368 | Molecular thermodynamic modeling of specific ion effects on micellization of ionic surfactants. <b>2010</b> , 26, 15177-91   | 77  |
| 367 | Interfacial Tension of n-Alkane and Ionic Liquid Systems. <i>Journal of Chemical &amp; Data</i> , <b>2010</b> , 55, 4687-4690  | 19  |
| 366 | Second harmonic generation monitoring of nitric acid extraction by a monoamide at the water-dodecane interface. <b>2011</b> , 13, 19580-6  | 14  |
| 365 | Interfacial mechanisms governing cyclopentane clathrate hydrate adhesion/cohesion. 2011, 13, 19796-806   | 164 |
| 364 | Polymer-modified Fe0 nanoparticles target entrapped NAPL in two dimensional porous media: effect of particle concentration, NAPL saturation, and injection strategy. <b>2011</b> , 45, 6102-9  | 77  |
| 363 | Concentration-Induced Wetting Transition in WaterITetrahydrofuranIBobutane Systems. <b>2011</b> , 115, 18235-18238   | 3   |
| 362 | How do (fluorescent) surfactants affect particle-stabilized emulsions?. <b>2011</b> , 7, 7965  | 28  |
| 361 | Measurements of the capillary trapping of super-critical carbon dioxide in Berea sandstone. <b>2011</b> , 38, n/a-n/a  | 226 |
| 360 | Interfacial Tensions of Imidazolium-Based Ionic Liquids with N-Alkanes and Cyclohexane. <i>Journal of Chemical &amp; Chemical &amp;</i> | 26  |
| 359 | Amphiphilic silica nanoparticles at the decane-water interface: insights from atomistic simulations. <b>2011</b> , 27, 5264-74   | 99  |
| 358 | Coreflood Measurements of CO2 Trapping. <b>2011</b> ,  | 3   |

| 357 | Molecular Thermodynamic Modeling of Micellar and Microemulsion Solutions. 2011,  | Ο   |
|-----|--|-----|
| 356 | Interfacial tension measurements with microfluidic tapered channels. <b>2011</b> , 389, 38-42  | 21  |
| 355 | Interfacial Tension Measurements of the (H2O +n-Decane + CO2) Ternary System at Elevated Pressures and Temperatures. <i>Journal of Chemical &amp; Data, 2011, 56, 4900-4908</i>        | 62  |
| 354 | Probing diffusion of single nanoparticles at water-oil interfaces. <b>2011</b> , 7, 3502-7   | 35  |
| 353 | Effect of surface properties of SBA-15 on confined Ag nanomaterials via double solvent technique. <b>2011</b> , 144, 171-175   | 21  |
| 352 | Interfacial profiles in fluid/liquid systems: a description based on the storing of elastic energy. <b>2011</b> , 358, 301-6   | 1   |
| 351 | Synthesis of confined Ag nanowires within mesoporous silica via double solvent technique and their catalytic properties. <b>2011</b> , 359, 40-6                                       | 54  |
| 350 | Capillary-Trapping Capacity of Sandstones and Sandpacks. <b>2011</b> , 16, 778-783   | 69  |
| 349 | Inertial modes of a periodically forced buoyant drop attached to a capillary. 2011, 23, 102104   | 13  |
| 348 | A New Correlation to Calculate Oil-Water Interfacial Tension. 2012,  | 2   |
| 347 | Contact Angle Measurement for OilMineralWater System on a Micro Scale. <b>2012</b> , 121, 31-38  | 2   |
| 346 | Enhanced oil recovery using the ionic liquid trihexyl(tetradecyl)phosphonium chloride: phase behaviour and properties. <b>2012</b> , 2, 9392   | 73  |
| 345 | Molecular simulation of hydrophobin adsorption at an oil-water interface. 2012, 28, 8730-6   | 49  |
| 344 | Unraveling the 3D localization and deformation of responsive microgels at oil/water interfaces: a step forward in understanding soft emulsion stabilizers. <b>2012</b> , 28, 15770-6   | 157 |
| 343 | Competition of hydrophobic steroids with sodium dodecyl sulfate, dodecyltrimethylammonium bromide, or dodecyl D-maltoside for the dodecane/water interface. <b>2012</b> , 28, 16927-32 | 6   |
| 342 | Membrane emulsification and solvent pervaporation processes for the continuous synthesis of functional magnetic and Janus nanobeads. <b>2012</b> , 28, 9748-58                         | 20  |
| 341 | Effect of surface roughness and softness on water capillary adhesion in apolar media. 2012, 116, 6481-8  | 17  |
| 340 | Origin and control of adhesion between emulsion drops stabilized by thermally sensitive soft colloidal particles. <b>2012</b> , 28, 3744-55  | 89  |

| 339 | Mass transfer model of triethylamine across the n-decane/water interface derived from dynamic interfacial tension experiments. <b>2012</b> , 28, 6803-15  | 8   |
|-----|---|-----|
| 338 | Capillary trapping in sandstones and carbonates: Dependence on pore structure. <b>2012</b> , 48,  | 110 |
| 337 | Clay interaction with liquid and supercritical CO2: The relevance of electrical and capillary forces. <b>2012</b> , 10, 351-362   | 50  |
| 336 | Nitric acid extraction with monoamide and diamide monitored by second harmonic generation at the water/dodecane interface. <b>2012</b> , 413, 130-135   | 8   |
| 335 | Nanoscale structure of surfactant-induced nanoparticle monolayers at the oil water interface. <b>2012</b> , 8, 11478  | 55  |
| 334 | Mechanical properties of binary DPPC/DPPS bilayers. <b>2012</b> , 2, 11743  | 15  |
| 333 | A Classical Density Functional Theory Study of the Neat n-Alkane/Water Interface. 2012, 116, 17641-17649  | 18  |
| 332 | Molecular thermodynamic modeling of droplet-type microemulsions. <b>2012</b> , 28, 1738-52  | 10  |
| 331 | Influence of ZrO2 Nanoparticles Including SDS and CTAB Surfactants Assembly on the Interfacial Properties of Liquid-Liquid, Liquid-Air and Liquid-Solid Surface Layers. <b>2012</b> , 21, 15-21 | 6   |
| 330 | Comparison of monodisperse droplet generation in flow-focusing devices with hydrophilic and hydrophobic surfaces. <b>2012</b> , 12, 1540-7  | 35  |
| 329 | Salt effects on water/hydrophobic liquid interfaces: a molecular dynamics study. <b>2012</b> , 24, 124109   | 17  |
| 328 | Computational Investigation of the n-Alkane/Water Interface with Many-Body Potentials: The Effect of Chain Length and Ion Distributions. <b>2012</b> , 116, 783-790                             | 24  |
| 327 | Kinetics of Triton-X100 Transfer Across the Water/Dodecane Interface: Analysis of the Interfacial Tension Variation. <b>2012</b> , 116, 13152-13160   | 13  |
| 326 | Effects of temperature, pH, and ionic strength on the adsorption of nanoparticles at liquid <b>l</b> iquid interfaces. <b>2012</b> , 14, 1  | 33  |
| 325 | Experimental and QSPR Studies on the Effect of Ionic Surfactants on n-DecanelWater Interfacial Tension. <b>2012</b> , 15, 477-484   | 17  |
| 324 | Spontaneous Polymorphic Nucleation of d-Mannitol in Aqueous Solution Monitored with Raman Spectroscopy and FBRM. <b>2013</b> , 13, 5179-5187  | 29  |
| 323 | Effect of surfactant headgroups on the oil/water interface: An interfacial tension measurement and simulation study. <b>2013</b> , 1052, 50-56  | 83  |
| 322 | Computational study on the effect of alkyl chain length on alkaneWater interfacial width. <b>2013</b> , 556, 65-69  | 6   |

| 321 | Effect of the interfacial tension and ionic strength on the thermodynamic barrier associated to the benzocaine insertion into a cell membrane. <b>2013</b> , 172, 1-7  | 6  |
|-----|--|----|
| 320 | The response of carbon black stabilized oil-in-water emulsions to the addition of surfactant solutions. <b>2013</b> , 29, 6790-7   | 58 |
| 319 | Modeling Interfacial Tension in Liquid Diquid Systems Containing Electrolytes. 2013, 52, 6822-6840   | 22 |
| 318 | A conventional surfactant becomes CO2-responsive in the presence of switchable water additives. <b>2013</b> , 19, 5595-601   | 52 |
| 317 | Self-Induced Surfactant Transport along Discontinuous Liquid-Liquid Interfaces. <b>2013</b> , 4, 1039-43   | 8  |
| 316 | Laboratory investigation of capillary trapping under mixed-wet conditions. <b>2013</b> , 49, 4311-4319   | 28 |
| 315 | Comparison of the capillary wave method and pressure tensor route for calculation of interfacial tension in molecular dynamics simulations. <b>2013</b> , 34, 2707-15  | 5  |
| 314 | Layer with reduced viscosity at water-oil interfaces probed by fluorescence correlation spectroscopy. <b>2013</b> , 87, 012403   | 12 |
| 313 | The effect of free-phase NAPL on the spectral induced polarization signature of variably saturated soil. <b>2013</b> , 49, 6229-6237   | 16 |
| 312 | Molecular dynamics of wetting layer formation and forced water invasion in angular nanopores with mixed wettability. <b>2014</b> , 141, 194703   | 27 |
| 311 | Surface Tension and Interfacial Tension Measurements in Water-Surfactant-Oil Systems Using Pendant Drop Technique. <b>2014</b> , 219-226   | 3  |
| 310 | Multi-scale approach for the rheological characteristics of emulsions using molecular dynamics and lattice Boltzmann method. <b>2014</b> , 8, 052104   | 9  |
| 309 | Ionic liquids at nonane-water interfaces: molecular dynamics studies. <b>2014</b> , 118, 13930-9   | 6  |
| 308 | Ultrastrong Anchoring Yet Barrier-Free Adsorption of Composite Microgels at Liquid Interfaces. <b>2014</b> , 1, 1300121  | 42 |
| 307 | Water/oil/[P6,6,6,14][NTf2] phase equilibria. <b>2014</b> , 75, 63-68  | 16 |
| 306 | Studying bacterial hydrophobicity and biofilm formation at liquid-liquid interfaces through interfacial rheology and pendant drop tensiometry. <b>2014</b> , 117, 174-84   | 47 |
| 305 | Comparison Study on Temperature Dependence of the Interfacial Tension of n-AlkaneWater and n-AlcoholWater Two Binary Systems. <i>Journal of Chemical &amp; Chemi</i> | 10 |
| 304 | X-ray studies of interfacial strontium-extractant complexes in a model solvent extraction system. <b>2014</b> , 118, 12486-500   | 35 |

| 303 | Intermolecular network analysis of the liquid and vapor interfaces of pentane and water: microsolvation does not trend with interfacial properties. <b>2014</b> , 16, 12475-87  |     | 13  |
|-----|---|-----|-----|
| 302 | An underwater superoleophobic surface that can be activated/deactivated via external triggers. <b>2014</b> , 30, 13438-46   |     | 25  |
| 301 | Interfacial Tensions for System of n-Heptane + Water with Quaternary Ammonium Surfactants and Additives of NaCl or C2tt Alcohols. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 860-868                                 | 2.8 | 21  |
| 300 | Evaluation of the Constant Wavenumber Cutoff Parameter for Modeling van der Waals Energy. <b>2014</b> , 118, 3539-3544  |     | 1   |
| 299 | Creation of well-defined particle stabilized oil-in-water nanoemulsions. 2014, 459, 48-57   |     | 35  |
| 298 | Atomistic potentials for trisiloxane, alkyl ethoxylate, and perfluoroalkane-based surfactants with TIP4P/2005 and application to simulations at the air-water interface. <b>2014</b> , 118, 9284-97   |     | 9   |
| 297 | Adsorption and Orientation of Ionic Liquids and Ionic Surfactants at Heptane/Water Interface. <b>2014</b> , 118, 19889-19903  |     | 24  |
| 296 | Dual responsive pickering emulsion stabilized by poly[2-(dimethylamino)ethyl methacrylate] grafted cellulose nanocrystals. <b>2014</b> , 15, 3052-60  |     | 240 |
| 295 | Interfacial tension measurements using MRI drop shape analysis. <b>2014</b> , 30, 1566-72   |     | 9   |
| 294 | Liquid-liquid extraction of uranyl by TBP: the TBP and ions models and related interfacial features revisited by MD and PMF simulations. <b>2014</b> , 118, 3133-49   |     | 32  |
| 293 | Density, Viscosity, and Interfacial Tension of Binary Mixture of Tri-iso-amyl Phosphate (TiAP) and n-Dodecane: Effect of Compositions and Gamma Absorbed Doses. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 1130-1139 | 2.8 | 17  |
| 292 | A thermodynamic approach to alamethicin pore formation. <b>2014</b> , 1838, 98-105  |     | 13  |
| 291 | A thermodynamic approach to alamethicin pore formation. <b>2014</b> , 1838, 1440-1447   |     | 4   |
| 290 | Energetic and entropic contributions to the work of adhesion in two-component, three-phase solid I quid I apour systems. <b>2014</b> , 441, 331-339   |     | 10  |
| 289 | Toward mechanistic understanding of heavy crude oil/brine interfacial tension: The roles of salinity, temperature and pressure. <b>2014</b> , 375, 191-200  |     | 176 |
| 288 | Quantitative Predictions of the Interfacial Tensions of Liquid-Liquid Interfaces through Atomistic and Coarse Grained Models. <b>2014</b> , 10, 1887-99   |     | 30  |
| 287 | Predicting Interfacial Tension Using Advanced Meso-Scale Modelling Technique. 2015,   |     | 2   |
| 286 | A temperature-dependent coarse-grained model for the thermoresponsive polymer poly(N-isopropylacrylamide). <b>2015</b> , 143, 244901  |     | 18  |

## (2015-2015)

| 285         | Nature friendly Application of Ionic Liquids for Dissolution Enhancement of Heavy Crude Oil. <b>2015</b> ,  | 7   |
|-------------|---|-----|
| 284         | Phase behavior of the surfactant ionic liquid trihexyltetradecylphosphonium bis(2,4,4-trimethylpentyl)phosphinate with water and dodecane. <b>2015</b> , 480, 50-59                 | 23  |
| 283         | Effect of metal species on the morphology of metal (oxides) within mesochannels of SBA-15 via a double-solvent method. <b>2015</b> , 207, 105-110                                   | 11  |
| 282         | Liquid[]quid interfacial tensions of binary water-hydrocarbons mixtures via gradient theory and CPA equation of state. <b>2015</b> , 392, 65-73                                     | 14  |
| 281         | Engineering adhesion to thermoresponsive substrates: effect of polymer composition on liquid-liquid-solid wetting. <b>2015</b> , 7, 2518-28   | 9   |
| <b>2</b> 80 | Use of Aromatic Ionic Liquids in the Reduction of Surface Phenomena of Crude OilWater System and their Synergism with Brine. <b>2015</b> , 54, 968-978                              | 48  |
| 279         | Dissipative particle dynamics (DPD) study of hydrocarbonWater interfacial tension (IFT). <b>2015</b> , 620, 114-122   | 27  |
| 278         | A computational intelligence scheme for prediction of interfacial tension between pure hydrocarbons and water. <b>2015</b> , 95, 79-92  | 14  |
| 277         | Modeling Interfacial Tension of n-Alkane/Water-Salt System Using Artificial Neural Networks. <b>2015</b> , 36, 1665-1672  | 9   |
| 276         | Substantial Enhancement of Heavy Crude Oil Dissolution in Low Waxy Crude Oil in the Presence of Ionic Liquid. <b>2015</b> , 54, 7999-8009   | 17  |
| 275         | Coarse-Graining the Liquid-Liquid Interfaces with the MARTINI Force Field: How Is the Interfacial Tension Reproduced?. <b>2015</b> , 11, 3818-28                                    | 31  |
| 274         | Nanopore wall effect on surface tension of methane. <b>2015</b> , 113, 3506-3513  | 25  |
| 273         | Synergistic effect of lactam, ammonium and hydroxyl ammonium based ionic liquids with and without NaCl on the surface phenomena of crude oil/water system. <b>2015</b> , 398, 80-97 | 38  |
| 272         | Spontaneous self-coating of a water drop by flaky copper powders: critical role of the particle shape. <b>2015</b> , 11, 4469-75  | 3   |
| 271         | Shale gas and non-aqueous fracturing fluids: Opportunities and challenges for supercritical CO2. <b>2015</b> , 147, 500-509   | 464 |
| 270         | Morphology of Liquid-Liquid Phase Separated Aerosols. <b>2015</b> , 137, 10642-51   | 49  |
| 269         | Adsorption of aliphatic ionic liquids at low waxy crude oil water interfaces and the effect of brine. <b>2015</b> , 468, 62-75  | 45  |
| 268         | What makes AOT reverse micelles spherical?. <b>2015</b> , 293, 165-176  | 10  |

| 267         | Adsorption Kinetics and Interfacial Dilational Properties of Fluorinated Hyperbranched Polymer at n-Decane/Water Interface. <b>2015</b> , 36, 343-350   | 1  |
|-------------|---|----|
| 266         | Sustainable Process for the Preparation of High-Performance Thin-Film Composite Membranes using Ionic Liquids as the Reaction Medium. <b>2016</b> , 9, 1101-11  | 37 |
| 265         | The Hydrophobic Effect in Solute Partitioning and Interfacial Tension. <b>2016</b> , 6, 19265   | 5  |
| 264         | A molecular dynamics study of local pressures and interfacial tensions of SDS micelles and dodecane droplets in water. <b>2016</b> , 144, 224701  | 7  |
| 263         | On the prediction of interfacial tension (IFT) for water-hydrocarbon gas system. <b>2016</b> , 224, 976-990   | 14 |
| 262         | Electric Field Driven Separation of OilWater Mixtures: Model Development and Experimental Verification. <b>2016</b> , 55, 4585-4598   | 13 |
| 261         | Micro-scale experimental investigation of the effect of flow rate on trapping in sandstone and carbonate rock samples. <b>2016</b> , 94, 379-399  | 52 |
| <b>2</b> 60 | Size-Dependent Stiffness of Nanodroplets: A Quantitative Analysis of the Interaction between an AFM Probe and Nanodroplets. <b>2016</b> , 32, 11230-11235   | 7  |
| 259         | A multiscale method for simulating fluid interfaces covered with large molecules such as asphaltenes. <b>2016</b> , 327, 576-611  | 11 |
| 258         | Anti-Adhesive Behaviors between Solid Hydrate and Liquid Aqueous Phase Induced by Hydrophobic Silica Nanoparticles. <b>2016</b> , 32, 9513-22   | 17 |
| 257         | Interfacial behavior of PAMAM-PCL dendrimers and in situ spontaneous formation of gold nanoparticles at the toluene-water and air-water interfaces: Experimental and theoretical studies. <b>2016</b> , 84, 188-204 | 7  |
| 256         | Novel stabilisation of emulsions by soft particles: polyelectrolyte complexes. <b>2016</b> , 191, 255-285   | 17 |
| 255         | Mechanistic Understanding of the Effect of Temperature and Salinity on the Water/Toluene Interfacial Tension. <b>2016</b> , 30, 10228-10235   | 19 |
| 254         | Determination of hydrocarbon-water interfacial tension using a new empirical correlation. <b>2016</b> , 415, 42-50  | 21 |
| 253         | Mechanism of High Stability of Water-in-Oil Emulsions at High Temperature. <b>2016</b> , 30, 1947-1957  | 21 |
| 252         | A multiphase lattice Boltzmann method for simulating immiscible liquid-liquid interface dynamics. <b>2016</b> , 40, 6376-6394   | 24 |
| 251         | Reduction in interfacial tension of waterBil interface by supercritical CO2 in enhanced oil recovery processes studied with molecular dynamics simulation. <b>2016</b> , 111, 171-178                               | 51 |
| 250         | Solubility behaviour, crystallisation kinetics and pour point: A comparison of linear alkane and triacyl glyceride solute/solvent mixtures. <b>2016</b> , 34, 382-389   | 5  |

| 249 | Experimental investigation and modeling of the performance of pure and mixed surfactant inhibitors: Micellization and corrosion inhibition. <b>2016</b> , 489, 407-422  | 18 |
|-----|---|----|
| 248 | Micro-computed tomography pore-scale study of flow in porous media: Effect of voxel resolution. <b>2016</b> , 95, 276-287   | 92 |
| 247 | Self-assembly of repulsive interfacial particles via collective sinking. <b>2016</b> , 13, 212-221  | 15 |
| 246 | Silica nanofluids in polyacrylamide with and without surfactant: Viscosity, surface tension, and interfacial tension with liquid paraffin. <b>2017</b> , 152, 575-585   | 63 |
| 245 | Effect of Chain Length on the Partition Properties of Poly(ethylene oxide): Comparison between MARTINI Coarse-Grained and Atomistic Models. <b>2017</b> , 121, 1601-1609  | 18 |
| 244 | Dependence of the Internal Structure on Water/Particle Volume Ratio in an Amphiphilic Janus Particle-Water-Oil Ternary System: From Micelle-like Clusters to Emulsions of Spherical Droplets. <b>2017</b> , 33, 1030-1036 | 20 |
| 243 | Coarse-grained modeling of the oil water Surfactant interface through the local definition of the pressure tensor and interfacial tension. <b>2017</b> , 136, 1   | 13 |
| 242 | Interdigitation between Triglycerides and Lipids Modulates Surface Properties of Lipid Droplets. <b>2017</b> , 112, 1417-1430   | 64 |
| 241 | Interfacial Properties and Monolayer Collapse of Alkyl Benzenesulfonate Surfactant Monolayers at the Decane-Water Interface from Molecular Dynamics Simulations. <b>2017</b> , 33, 4461-4476                              | 35 |
| 240 | Ionic hydration-induced evolution of decane-water interfacial tension. <b>2017</b> , 19, 14606-14614  | 27 |
| 239 | Calcium chloride adsorption at liquid-liquid interfaces: A molecular dynamics simulation study. <b>2017</b> , 527, 70-80  | 3  |
| 238 | Investigation of multiphase fluid imbibition in shale through synchrotron-based dynamic micro-CT imaging. <b>2017</b> , 122, 4475-4491  | 45 |
| 237 | Molecular dynamics simulations of the role of salinity and temperature on the hydrocarbon/water interfacial tension. <b>2017</b> , 136, 1   | 11 |
| 236 | Effects of the Methane Content on the WaterDil Interface: Insights from the Molecular Level. <b>2017</b> , 31, 7026-7032  | 17 |
| 235 | Initial Interfacial Tension for Various Organic Water Systems and Study of the Effect of Solute Concentration and Temperature. <i>Journal of Chemical &amp; Data, 2017, 62, 1198-1203</i>                                 | 14 |
| 234 | Toward genetic programming (GP) approach for estimation of hydrocarbon/water interfacial tension. <b>2017</b> , 230, 175-189  | 48 |
| 233 | Dissipative particle dynamics (DPD) study of the interfacial tension for alkane/water systems by using COSMO-RS to calculate interaction parameters. <b>2017</b> , 246, 131-139   | 13 |
| 232 | Direct Prediction of Calcite Surface Wettability with First-Principles Quantum Simulation. <b>2017</b> , 8, 5309-5316   | 24 |

| 231 | Effect of Imidazolium-Based Ionic Liquids on the Interfacial Tension of the AlkanelWater System and Its Influence on the Wettability Alteration of Quartz under Saline Conditions through Contact Angle Measurements. <b>2017</b> , 56, 13521-13534 | 31 |
|-----|---|----|
| 230 | Equilibrium and dynamic adsorption of gemini surfactants with different spacer lengths at oil/aqueous interfaces. <b>2017</b> , 533, 20-32  | 37 |
| 229 | Enhanced chiral recognition by Eyclodextrin at liquid/liquid interfaces as revealed by chromatographic and interfacial tension measurements. <b>2017</b> , 508, 469-475   | 7  |
| 228 | Secondary Oil Recovery Using Graphene-Based Amphiphilic Janus Nanosheet Fluid at an Ultralow Concentration. <b>2017</b> , 56, 11125-11132   | 59 |
| 227 | Ethyl Cellulose Nanoparticles at the Alkane-Water Interface and the Making of Pickering Emulsions. <b>2017</b> , 33, 10568-10576  | 30 |
| 226 | Dynamics of snap-off and pore-filling events during two-phase fluid flow in permeable media. <b>2017</b> , 7, 5192  | 92 |
| 225 | Fabrication, characterisation and stability of oil-in-water emulsions stabilised by solid lipid particles: the role of particle characteristics and emulsion microstructure upon Pickering functionality. <b>2017</b> , 8, 2583-2591                | 15 |
| 224 | Surface and Interfacial Tension Behavior of Salt Water Containing Dissolved Amphiphilic Compounds of Crude Oil: The Role of Single-Salt Ionic Composition. <b>2017</b> , 31, 9117-9124  | 25 |
| 223 | Effect of monovalent and divalent salts on the interfacial tension of pure hydrocarbon-brine systems relevant for low salinity water flooding. <b>2017</b> , 157, 1106-1114   | 67 |
| 222 | A coarse-grain molecular dynamics study of oil-water interfaces in the presence of silica nanoparticles and nonionic surfactants. <b>2017</b> , 146, 204702   | 13 |
| 221 | Effect of Cholesterol on the Stability and Lubrication Efficiency of Phosphatidylcholine Surface Layers. <b>2017</b> , 33, 7459-7467  | 10 |
| 220 | raaSAFT: A framework enabling coarse-grained molecular dynamics simulations based on the SAFT-IMie force field. <b>2017</b> , 212, 161-179  | 8  |
| 219 | Modeling the interfacial tension dependence on composition and stiffness of nonionic surfactants on liquid liquid interfaces. <b>2017</b> , 519, 168-178  | 3  |
| 218 | Molecular dynamics for ion-tuned wettability in oil/brine/rock systems. <b>2017</b> , 7, 125017   | 12 |
| 217 | Adsorption and conformations of lysozyme and <code>Hactalbumin</code> at a water-octane interface. <b>2017</b> , 147, 195101  | 15 |
| 216 | Strength of Alkane <b>f</b> luid Attraction Determines the Interfacial Orientation of Liquid Alkanes and Their Crystallization through Heterogeneous or Homogeneous Mechanisms. <b>2017</b> , 7, 86   | 23 |
| 215 | Interfacial tensions of pyridinium-based ionic liquids and n-alkanes or n-alkanols. <b>2018</b> , 252, 469-474  | 5  |
| 214 | The ANFIS-PSO strategy as a novel method to predict interfacial tension of hydrocarbons and brine. <b>2018</b> , 36, 654-659  | 5  |

213 Solvation Forces and Non-DLVO Forces in Water. **2018**, 297-328

| 212 | Bibliography. <b>2018</b> , 381-429   |    |
|-----|---|----|
| 211 | Surface charge effect of nanogel on emulsification of oil in water for fossil energy recovery. <b>2018</b> , 223, 140-148   | 23 |
| 210 | Modified Density Gradient Theory for Surfactant Molecules Applied to Oil/Water Interfaces. <b>2018</b> , 57, 7643-7654  | 14 |
| 209 | Experimental study of continuously released liquid fuel spill fires on land and water in a channel. <b>2018</b> , 52, 21-28   | 7  |
| 208 | The Water-Alkane Interface at Various NaCl Salt Concentrations: A Molecular Dynamics Study of the Readily Available Force Fields. <b>2018</b> , 8, 352  | 43 |
| 207 | A Molecular Dynamics Study of the Effect of Asphaltenes on Toluene/Water Interfacial Tension: Surfactant or Solute?. <b>2018</b> , 32, 3225-3231  | 21 |
| 206 | The experimental investigations on viscosity, surface tension, interfacial tension and solubility of the binary and ternary systems for tributyl phosphate (TBP) extractant in various organic solvents with water: Thermodynamic NRTL model and molecular interaction approach. <b>2018</b> , 251, 229-237 | 14 |
| 205 | Investigation of Water Interactions with Petroleum-Derived and Synthetic Aviation Turbine Fuels. <b>2018</b> , 32, 1166-1178  | 12 |
| 204 | Complex conductivity of oil-contaminated clayey soils. <b>2018</b> , 561, 930-942   | 9  |
| 203 | Nanoparticle-Fortified Emulsification of Heavy Oil. 2018,   | 4  |
| 202 | Predictions of water/oil interfacial tension at elevated temperatures and pressures: A molecular dynamics simulation study with biomolecular force fields. <b>2018</b> , 476, 30-38   | 23 |
| 201 | Prediction of aliphatic and aromatic oil-water interfacial tension at temperatures >100 LC using COSMO-RS. <b>2018</b> , 476, 25-29   | 8  |
| 200 | A Monte Carlo simulation study of the interfacial tension for water/oil mixtures at elevated temperatures and pressures: Water/n-dodecane, water/toluene, and water/(n-dodecane + toluene). <b>2018</b> , 476, 16-24  | 16 |
| 199 | Long chain imidazolium ionic liquid and magnetite nanoparticle interactions at the oil/water interface. <b>2018</b> , 160, 363-371  | 22 |
| 198 | Evaluation of effect of temperature and pressure on the dynamic interfacial tension of crude oil/aqueous solutions containing chloride anion through experimental and modelling approaches. <b>2018</b> , 96, 1396-1402   | 13 |
| 197 | Effect of static electricity on IFT measurements by drop shape analysis. <b>2018</b> , 113, 117-119   | 10 |
| 196 | Growth of Clathrate Hydrates from Water Drops in Cyclopentane. <b>2018</b> , 32, 2693-2698  | 7  |

| 195 | Coarse-grained model of titrating peptides interacting with lipid bilayers. <b>2018</b> , 149, 244108   | 1  |
|-----|---|----|
| 194 | Non-isothermal Transport of Multi-phase Fluids in Porous Media. The Entropy Production. <b>2018</b> , 6,  | 7  |
| 193 | Wettability Alteration and Enhanced Oil Recovery Induced by Proximal Adsorption of Na+, Cl Ca2+, Mg2+, and SO42 Ilons on Calcite. <b>2018</b> , 10,                                   | 33 |
| 192 | Membrane Permeability of Terpenoids Explored with Molecular Simulation. <b>2018</b> , 122, 10349-10361  | 14 |
| 191 | Capillary Pressure Effects on Estimating the EOR Potential during Low Salinity and Smart Water Flooding. <b>2018</b> ,  | O  |
| 190 | Molecular Dynamics Simulation of the Salinity Effect on the n-Decane/Water/Vapor Interfacial Equilibrium. <b>2018</b> , 32, 11080-11092   | 21 |
| 189 | High temperature and pressure water/oil interfacial tension benchmark data for the Ninth Industrial Fluid Properties Simulation Challenge. <b>2018</b> , 476, 6-8                     | 5  |
| 188 | Applying LSSVM algorithm as a novel and accurate method for estimation of interfacial tension of brine and hydrocarbons. <b>2018</b> , 36, 1170-1174                                  | 3  |
| 187 | Direct Measurements of Contact Angles on Cyclopentane Hydrates. 2018, 32, 6619-6626   | 25 |
| 186 | Separation of oil-in-water emulsions stabilized by different types of surfactants using electrospun fiber membranes. <b>2018</b> , 563, 247-258                                       | 41 |
| 185 | Utilization of Fuzzy C-means algorithm as a novel predictive tool for estimation of interfacial tension of hydrocarbon and brine. <b>2018</b> , 36, 1107-1112                         | 1  |
| 184 | Emulsifying properties of ruptured microalgae cells: Barriers to lipid extraction or promising biosurfactants?. <b>2018</b> , 170, 438-446  | 22 |
| 183 | Rheological Characterization of Mixed Surfactant Films at Droplet Interfaces via Micropipette Aspiration. <b>2018</b> , 34, 8560-8570   | 1  |
| 182 | Stable and Efficient Time Integration of a Dynamic Pore Network Model for Two-Phase Flow in Porous Media. <b>2018</b> , 6,  | 13 |
| 181 | Computational simulations for particles at interfaces. <b>2018</b> , 167-200  | 2  |
| 180 | Catalyst Activation and Influence of the Oil Matrix on Extractive Oxidative Desulfurization Using Aqueous Polyoxometalate Solutions and Molecular Oxygen. <b>2018</b> , 32, 8683-8688 | 19 |
| 179 | Monte Carlo Simulation Strategies to Compute the Interfacial Properties of a Model OctanelWaterBilica System. <b>2018</b> , 122, 17309-17318  | 11 |
| 178 | Structural Behavior of Isolated Asphaltene Molecules at the Oil Water Interface. <b>2018</b> , 32, 8259-8267  | 11 |

| 177 | An interfacial statistical associating fluid theory (iSAFT) approach for surface/interfacial tension predictions. <b>2018</b> , 476, 193-201  | 12 |
|-----|---|----|
| 176 | Thermal response of a non-ionic surfactant layer at the water/oil interface during microwave heating. <b>2018</b> , 556, 127-133  | 18 |
| 175 | Synthesis of phosphine oxide based amphiphilic molecules ring-opening Wittig olefination of a macrocyclic phosphoranylidene and their property study as non-ionic surfactants <b>2018</b> , 8, 20406-20410        | 2  |
| 174 | Enzymatic Biodiesel Synthesis by the Biphasic Esterification of Oleic Acid and 1-Butanol in Microreactors. <b>2019</b> , 58, 15432-15444  | 11 |
| 173 | tSPICA: Temperature- and Pressure-Dependent Coarse-Grained Force Field for Organic Molecules. <b>2019</b> , 59, 3829-3838   | 10 |
| 172 | Ultra-Porous Nanocellulose Foams: A Facile and Scalable Fabrication Approach. <b>2019</b> , 9,  | 28 |
| 171 | How a range of metal ions influence the interfacial tension of n-decane/carboxylic acid/water systems: The impact of concentration, molecular- and electronic structure. <b>2019</b> , 182, 106307                | 2  |
| 170 | Boundary Lubrication, Hemifusion, and Self-Healing of Binary Saturated and Monounsaturated Phosphatidylcholine Mixtures?. <b>2019</b> , 35, 15459-15468   | 11 |
| 169 | Optimization of contact angle and interfacial tension measurements for fluid/rock systems at ambient conditions. <b>2019</b> , 6, 1706-1715   | 9  |
| 168 | Enhanced Oil Recovery by Polymer Flooding: Direct, Low-Cost Visualization in a Heleßhaw Cell. <b>2019</b> , 9, 186  | 2  |
| 167 | Influence of Different Silica Nanoparticles on Drop Size Distributions in Agitated Liquid-Liquid Systems. <b>2019</b> , 91, 1640-1655   | 5  |
| 166 | Effect of Water/Decane Ratios and Salt on the Stability, Rheology, and Interfacial Tension of Water/Decane Emulsions. <b>2019</b> , 33, 8456-8462   | 8  |
| 165 | Structure and thermodynamics of mixed polymeric micelles with crystalline cores: tuning properties via co-assembly. <b>2019</b> , 15, 7777-7786   | 4  |
| 164 | Dynamic Viscosity, Surface Tension and Wetting Behavior Studies of Paraffin <b>ihW</b> ater<br>Nano <b>E</b> mulsions. <b>2019</b> , 12, 3334   | 17 |
| 163 | Generic Nature of Interfacial Phenomena in Solutions of Nonionic Hydrotropes. <b>2019</b> , 35, 13480-13487   | 4  |
| 162 | Molecular Dynamics Simulation Insight into Interfacial Stability and Fluidity Properties of Microemulsions. <b>2019</b> , 35, 13636-13645   | 14 |
| 161 | Correlations of Equilibrium Interfacial Tension Based on Mutual Solubility/Density: Extension to n-Alkane®ater and n-Alkane®O2 Binary/Ternary Systems and Comparisons With the Parachor Model. <b>2019</b> , 141, | 3  |
| 160 | Isolated mechanism study on in situ CO2 EOR. <b>2019</b> , 254, 115575  | 4  |

| 159 | Influence of Disperse Phase Transfer on Properties of Nanoemulsions Containing Oil Droplets with Different Compositions and Physical States. <b>2019</b> , 14, 355-364                                       | 3  |
|-----|--|----|
| 158 | Experimental Investigation of the Rheological Properties of a Typical Waxy Crude Oil Treated with Supercritical CO2 and the Stability Change in Its Emulsion. <b>2019</b> , 33, 4731-4739                    | 5  |
| 157 | Mechanistic understanding of asphaltenes surface behavior at oil/water interface: An experimental study. <b>2019</b> , 285, 562-571  | 9  |
| 156 | Effect of Salts on Interfacial Tension and CO2 Mass Transfer in Carbonated Water Injection. <b>2019</b> , 12, 748  | 9  |
| 155 | Phase Inversion of Silica Particle-Stabilized Water-in-Water Emulsions. <b>2019</b> , 35, 4046-4057  | 15 |
| 154 | Microgels Adsorbed at Liquid-Liquid Interfaces: A Joint Numerical and Experimental Study. <b>2019</b> , 13, 4548-4559  | 52 |
| 153 | Applying Grid partitioning based Fuzzy inference system method to estimate interfacial tension of brine and hydrocarbon. <b>2019</b> , 37, 1620-1625   | 3  |
| 152 | Equilibrium and dynamic interfacial tensions of oil/water in the presence of an imidazolium ionic liquid strengthen with magnetite nanoparticles. <b>2019</b> , 281, 252-260                                 | 4  |
| 151 | Molecular Insights into Water Clusters Formed in Tributylphosphate-Di-(2-ethylhexyl)phosphoric Acid Extractant Systems from Experiments and Molecular Dynamics Simulations. <b>2019</b> , 123, 1618-1635     | 8  |
| 150 | Measuring porosities of chromatographic columns utilizing a mass-based total pore-blocking method: Superficially porous particles and pore-blocking critical pressure mechanism. <b>2019</b> , 1595, 117-126 | 2  |
| 149 | How Do Surfactants Control the Agglomeration of Clathrate Hydrates?. <b>2019</b> , 5, 428-439  | 30 |
| 148 | Effect of the 3D Swelling of Microgels on Their 2D Phase Behavior at the Liquid-Liquid Interface. <b>2019</b> , 35, 16780-16792  | 25 |
| 147 | Impact of the Composition and Content of Dissolved-State Paraffins in Model Oil on the Aggregation State of Asphaltenes and the Stability of Water-in-Model Oil Emulsion. <b>2019</b> , 33, 12191-12201      | 8  |
| 146 | Development of Transferable Nonbonded Interactions between Coarse-Grained Hydrocarbon and Water Models. <b>2019</b> , 123, 909-921   | 10 |
| 145 | Microscopic Behaviors of Tri- n-Butyl Phosphate, n-Dodecane, and Their Mixtures at Air/Liquid and Liquid/Liquid Interfaces: An AMBER Polarizable Force Field Study. <b>2019</b> , 123, 655-665               | 2  |
| 144 | Flow regimes during surfactant flooding: The influence of phase behaviour. <b>2019</b> , 236, 851-860  | 31 |
| 143 | Highly efficient [C8mim][Cl] ionic liquid accompanied with magnetite nanoparticles and different salts for interfacial tension reduction. <b>2020</b> , 28, 46-53  | 1  |
| 142 | Simulation Interpretation of Capillary Pressure and Relative Permeability From Laboratory Waterflooding Experiments in Preferentially Oil-Wet Porous Media. <b>2020</b> , 23, 230-246                        | 14 |

## (2020-2020)

| 141 | A mesoscopic DPD simulation study on long chain quaternary ammonium gemini surfactant solution. <b>2020</b> , 42, 58-66  | O  |
|-----|--|----|
| 140 | Foaming in aqueous solutions of zwitterionic surfactant in presence of monovalent salts: The specific ion effect. <b>2020</b> , 207, 1216-1233   | 7  |
| 139 | Hydrocolloids: Nova materials assisting encapsulation of volatile phase change materials for cryogenic energy transport and storage. <b>2020</b> , 382, 123028   | 11 |
| 138 | Interfacial tension between decane saturated with methane and water from 283.2 K to 298.2 K under pressures upto 10 MPa. <b>2020</b> , 81, 360-366   | 4  |
| 137 | Robust Janus nanocomposite membrane with opposing surface wettability for selective oil-water separation. <b>2020</b> , 236, 116297  | 24 |
| 136 | Interfacial microrheology and tensiometry in a miniature, 3-d printed Langmuir trough. <b>2020</b> , 560, 407-415  | 5  |
| 135 | Water flooding of oil reservoirs: Effect of oil viscosity and injection velocity on the interplay between capillary and viscous forces. <b>2020</b> , 186, 106691  | 13 |
| 134 | Capillary Pressure Effects on Estimating the Enhanced-Oil-Recovery Potential During Low-Salinity and Smart Waterflooding. <b>2020</b> , 25, 481-496  | 4  |
| 133 | Experiments and computations of microfluidic liquid liquid flow patterns. 2020, 5, 39-50   | 22 |
| 132 | Impact of Acid and Base Numbers and Their Ratios on Wettability Alteration of the Calcite Surface. <b>2020</b> , 34, 245-257   | 10 |
| 131 | Quantifying the influence of salinity on spontaneous emulsification of hydrocarbons. <b>2020</b> , 588, 124376   | 5  |
| 130 | Development of Coarse-Grained Force Field by Combining Multilinear Interpolation Technique and Simplex Algorithm. <b>2020</b> , 41, 814-829  | 7  |
| 129 | Dynamic interfacial properties and tuning aqueous foamability stabilized by cationic surfactants in terms of their structural hydrophobicity, free drainage and bubble extent. <b>2020</b> , 588, 124362 | 17 |
| 128 | Assessing salt-surfactant synergistic effects on interfacial tension from molecular dynamics simulations. <b>2020</b> , 299, 112223  | 13 |
| 127 | Effect of Nanoparticles on Viscosity and Interfacial Tension of Aqueous Surfactant Solutions at High Salinity and High Temperature. <b>2020</b> , 23, 327-338  | 18 |
| 126 | Molecular dynamics simulation of CO-switchable surfactant regulated reversible emulsification/demulsification processes of a dodecane-saline system. <b>2020</b> , 22, 23574-23585                       | 5  |
| 125 | Bulk and Interfacial Properties of the Decane + Water System in the Presence of Methane, Carbon Dioxide, and Their Mixture. <b>2020</b> , 124, 9556-9569   | 15 |
| 124 | Interfacial and molecular interactions between fractions of heavy oil and surfactants in porous media: Comprehensive review. <b>2020</b> , 283, 102242   | 23 |

| 123 | Learning Coarse-Grained Potentials for Binary Fluids. <b>2020</b> , 60, 3731-3745  | O    |
|-----|--|------|
| 122 | High Internal Phase Pickering Emulsions as Templates for a Cellulosic Functional Porous Material. <b>2020</b> , 8, 3664-3672   | 15   |
| 121 | Spherical Micelles with Nonspherical Cores: Effect of Chain Packing on the Micellar Shape. <b>2020</b> , 53, 10686-1   | 0698 |
| 120 | Dextran-Based Nanoparticles to Formulate pH-Responsive Pickering Emulsions: A Fully Degradable Vector at a Day Scale. <b>2020</b> , 21, 5358-5368  | 5    |
| 119 | Application of PC-SAFT and DGT for the Prediction of Self-Assembly. <i>Journal of Chemical &amp; Data</i> , <b>2020</b> , 65, 5897-5908  | 2    |
| 118 | Advances and Opportunities of Oil-in-Oil Emulsions. <b>2020</b> , 12, 38845-38861  | 21   |
| 117 | Enhancing low-rank coal flotation using mixed collector of dodecane and oleic acid: Effect of droplet dispersion and its interaction with coal particle. <b>2020</b> , 280, 118634   | 23   |
| 116 | A model based on the equality of chemical potentials for describing the liquid-liquid interfaces of water-hydrocarbons up to high pressures. <b>2020</b> , 317, 113931   | 1    |
| 115 | Thermodynamic and Kinetic Pathways to Agitated and Spontaneous Emulsification. <b>2020</b> , 36, 10218-10237   | 1    |
| 114 | Tube to ribbon transition in a self-assembling model peptide system. <b>2020</b> , 22, 18320-18327   | 7    |
| 113 | Microscale Marangoni Surfers. <b>2020</b> , 125, 098001  | 20   |
| 112 | Use of In-Situ CO2 Generation in Liquid-Rich Shale. <b>2020</b> ,  |      |
| 111 | Early and Late Time Analytical Solutions for Co-Current Spontaneous Imbibition and Generalized Scaling. <b>2020</b> ,  |      |
| 110 | Phase Transition from the Interdigitated to Bilayer Membrane of a Cationic Surfactant Induced by Addition of Hydrophobic Molecules. <b>2020</b> , 36, 14699-14709  | O    |
| 109 | Migration and Residual Trapping of Immiscible Fluids during Cyclic Injection: Pore-Scale Observation and Quantitative Analysis. <b>2020</b> , 2020, 1-13   | 4    |
| 108 | Tiled Monolayer Films of 2D Molybdenum Disulfide Nanoflakes Assembled at Liquid/Liquid Interfaces. <b>2020</b> , 12, 25125-25134   | 5    |
| 107 | Transport of Flexible, Oil-Soluble Diblock and BAB Triblock Copolymers to Oil/Water Interfaces. <b>2020</b> , 36, 7227-7235  |      |
| 106 | Synergistic Effect of Brine System Containing Mixed Monovalent (NaCl, KCl) and Divalent (MgCl2, MgSO4) Salts on the Interfacial Tension of Pure Hydrocarbon <b>B</b> rine System Relevant for Low Salinity Water Flooding. <b>2020</b> , 34, 4201-4212 | 7    |

## (2021-2020)

| 105 | Interfacial tension in water/n-decane/naphthenic acid systems predicted by a combined COSMO-RS theory and pendant drop experimental study. <b>2020</b> , 118, e1764645                 | 1  |
|-----|--|----|
| 104 | Equilibrium clustering of colloidal particles at an oil/water interface due to competing long-range interactions. <b>2020</b> , 571, 232-238   | 2  |
| 103 | Contribution of the two liquid phases to the interfacial tension at various water-organic liquid-liquid interfaces. <b>2020</b> , 306, 112872  | 4  |
| 102 | The role of surfactant force field on the properties of liquid/liquid interfaces. <b>2020</b> , 511, 112497  | 3  |
| 101 | Molecular dynamics investigation on n-alkane-air/water interfaces. <b>2020</b> , 267, 117252   | 4  |
| 100 | Interfacial Tension of n-Pentane/Bitumen and n-Heptane/Bitumen Mixtures at T = 298.15413.15 K and P = 3.45 MPa. <i>Journal of Chemical &amp; Data</i> , 2020, 65, 1787-1794            | 4  |
| 99  | Particle Stabilization of Oil-Fluorocarbon Interfaces and Effects on Multiphase Oil-in-Water Complex Emulsion Morphology and Reconfigurability. <b>2020</b> , 36, 7083-7090            | 7  |
| 98  | Interfacial Properties of Tridecyl Dimethyl Phosphine Oxide Adsorbed at the Surface of a Solution Drop in Hexane Saturated Air. <b>2020</b> , 4, 19                                    | 3  |
| 97  | New view of the adsorption of surfactants at water/alkane interfaces - Competitive and cooperative effects of surfactant and alkane molecules. <b>2020</b> , 279, 102143               | 23 |
| 96  | Steady state relative permeability experiments with capillary end effects: Analytical solutions including derivation of the intercept method. <b>2020</b> , 192, 107249                | 7  |
| 95  | Effects of additives on oil displacement in nanocapillaries: A mesoscale simulation study. <b>2020</b> , 312, 112953   | 1  |
| 94  | Using Faraday Waves to Measure Interfacial Tension. <b>2020</b> , 36, 5872-5879  | 3  |
| 93  | Condensation of Satellite Droplets on Lubricant-Cloaked Droplets. <b>2020</b> , 12, 22246-22255  | 14 |
| 92  | Elucidating the effect of enzymatic polymerized polysaccharide particle morphology on emulsion properties. <b>2021</b> , 251, 117112   | 5  |
| 91  | Early- and Late-Time Analytical Solutions for Cocurrent Spontaneous Imbibition and Generalized Scaling. <b>2021</b> , 26, 220-240  | 10 |
| 90  | Prediction of live reservoir fluid interfacial tension from dead oil measurements. <b>2021</b> , 197, 108000   | 3  |
| 89  | Effect of monovalent and divalent alkali [NaOH and Ca(OH)2] on the interfacial tension of pure hydrocarbon-water systems relevant for enhanced oil recovery. <b>2021</b> , 197, 107892 | 3  |
| 88  | Stabilization mechanism and chemical demulsification of water-in-oil and oil-in-water emulsions in petroleum industry: A review. <b>2021</b> , 286, 119390                             | 42 |

| 87 | Molecular structure incorporated deep learning approach for the accurate interfacial tension predictions. <b>2021</b> , 323, 114571   |                 |
|----|---|-----------------|
| 86 | The effect of brine salinity and oil components on dynamic IFT behavior of oil-brine during low salinity water flooding: Diffusion coefficient, EDL establishment time, and IFT reduction rate. <b>2021</b> , 196, 107862 | 14              |
| 85 | Temperature-sensitive soft microgels at interfaces: air-water versus oil-water. 2021, 17, 976-988   | 14              |
| 84 | Wettability and hydrolytic stability of 3-aminopropylsilane coupling agent and phenol-urea-formaldehyde binder on silicate surfaces and fibers. <b>2021</b> , 183, 109431   | 4               |
| 83 | Interfacial behavior of binary, ternary and quaternary oil/water mixtures described from molecular dynamics simulations. <b>2021</b> , 324, 114661  | 4               |
| 82 | Molecular dynamics study of wetting of alkanes on water: from high temperature to the supercooled region and the influence of second inflection points of interfacial tensions. <b>2021</b> , 23, 14465-1447              | 76 <sup>0</sup> |
| 81 | Adsorption dynamics of thermoresponsive microgels with incorporated short oligo(ethylene glycol) chains at the oil-water interface. <b>2021</b> , 17, 6127-6139   | 1               |
| 80 | Ionic Surfactants at Air/Water and Oil/Water Interfaces: A Comparison Based on Molecular Dynamics Simulations. <b>2021</b> , 125, 406-415   | 13              |
| 79 | Estimating reservoir fluid interfacial tension: an insight into the role of polar species of crude oil. 1-13  | 0               |
| 78 | Interfacial and Emulsion Characteristics of Oil-Water Systems in the Presence of Polymeric Lignin Surfactant. <b>2021</b> , 37, 3346-3358   | 4               |
| 77 | Surfactant Modeling Using Classical Density Functional Theory and a Group Contribution PC-SAFT Approach. <b>2021</b> , 60, 7111-7123  | 4               |
| 76 | Influence of natural L-amino acids on the interfacial tension of an oil-water system and rock wettability alterations. <b>2021</b> , 199, 108241  | 3               |
| 75 | Controlled Spreading Rates to Distribute Nanoparticles as Uniform Langmuir Films. <b>2021</b> , 37, 5139-5150   | 1               |
| 74 | Molecular simulation study of interfacial tension reduction and oil detachment in nanochannels by Surface-modified silica nanoparticles. <b>2021</b> , 292, 120318  | 10              |
| 73 | Method of determining the cohesion and adhesion parameters in the Shan-Chen multicomponent multiphase lattice Boltzmann models. <b>2021</b> , 222, 104925   | 1               |
| 72 | Investigation of Spontaneous Imbibition Behavior in a 3D Pore Space Under Reservoir Condition by Lattice Boltzmann Method. <b>2021</b> , 126, e2021JB021987   | 2               |
| 71 | Experimental Investigation of the Effect of Acid and Base on Wettability Alteration of a Calcite Surface. <b>2021</b> , 35, 11869-11883   | 1               |
| 70 | Molecular insight into photoresponsive surfactant regulated reversible emulsification and demulsification processes. <b>2021</b> , 335, 116218  | 6               |

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| 69 | Molecular dynamics study of the effect of sodium and chloride ions on water-surfactant-hydrocarbon interfaces. <b>2021</b> , 548, 111243  | 4  |
|----|---|----|
| 68 | SARA-Based Correlation To Describe the Effect of Polar/Nonpolar Interaction, Salinity, and Temperature for Interfacial Tension of Low-Asphaltene Crude Oils Characteristic of Unconventional Shale Reservoirs. <b>2021</b> , 1-13 | 2  |
| 67 | Asphaltenes at the water-oil interface using DPD/COSMO-SAC. 2021, 625, 126828   | 3  |
| 66 | Hydrodynamic Properties of Tris(2-methylbutyl) Phosphate and Tri-n-alkyl Phosphates in n-Dodecane IA Comparative Investigation between Unirradiated and Gamma Irradiated Solvent Systems. 1-22                                    | 2  |
| 65 | Influence of microwave pulsing patterns on oil/water interfacial behavior. 2021, 631, 127660  | O  |
| 64 | Calculation of interfacial tension of binary systems containing water and an organic component by group contribution methods. <b>2021</b> , 244, 116796   |    |
| 63 | Effects of the laminated-structure and mixed wettability on the oil/water relative permeabilities and oil productions in shale oil formations. <b>2022</b> , 208, 109457  | 2  |
| 62 | Inter-droplet force between magnetically polarizable Pickering oil-in-water nanoemulsions stabilized with FAlO nanoparticles: Role of electrostatic and electric dipolar interactions. <b>2022</b> , 607, 1671-1686               | 3  |
| 61 | Liquid II quid interfaces: Water perfluoroal kanes and water perfluoroal kylal kanes, experimental interfacial tensions and molecular simulation. <b>2020</b> , 312, 113385   | 5  |
| 60 | Time-resolved synchrotron X-ray micro-tomography datasets of drainage and imbibition in carbonate rocks. <b>2018</b> , 5, 180265  | 15 |
| 59 | Self-Assembly of Surfactants in Bulk Phases and at Interfaces Using Coarse-Grain Models. 2008, 329-342  | 2  |
| 58 | Oil-Water Interfacial Tensions of Silica Nanoparticle-Surfactant Formulations. 2017, 54, 334-341  | 39 |
| 57 | The Colored Oil Property Effect on Switching Behavior of Electro-Fluidic Display. 2020, 11, 167-176   | 1  |
| 56 | Spotlight onto surfactant-steam-bitumen interfacial behavior via molecular dynamics simulation. <b>2021</b> , 11, 19660   | 9  |
| 55 | References. <b>2007</b> , 1577-1701   |    |
| 54 | The effects of reservoir brine compositions on interfacial tension and reservoir wettability under reservoir conditions. <b>2010</b> , 50, 735  |    |
| 53 | Adsorption and conformations of lysozyme and <code>Hactalbumin</code> at a water-octane interface.  |    |
| 52 | Molecular Transport across Oil-Brine Interfaces Impacts Interfacial Tension: Time-Effects in Buoyant and Pendant Drop Measurements. <b>2021</b> , 37, 585-595   |    |

| 51 | Effect of Sodium Hydroxide on the Interfacial Tension of Hydrocarbon Water System. 2021, 413-418  | O |
|----|---|---|
| 50 | Interfacial properties of the alkane+water system in the presence of carbon dioxide and hydrophobic silica. <b>2022</b> , 310, 122332   | 6 |
| 49 | Excellent behaviors of highly dispersed Ni-based catalyst in CO methanation synthesized by in-situ hydrothermal method with carbon quantum dots assisted. <b>2021</b> , 121813  | 1 |
| 48 | Effect of surface functionalized silica nanoparticles on interfacial behavior: Wettability, interfacial tension and emulsification characteristics. <b>2021</b> , 349, 118220   | 2 |
| 47 | Molecular Dynamics Study of Quasi-Geminißurfactant at n-decane/Water Interface: the Synergistic Effect of Hydrophilic Headgroups and Hydrophobic Tails of Surfactants on the Interface Properties. <b>2021</b> , 634, 127899                            | 3 |
| 46 | Acoustofluidic dynamic interfacial tensiometry. <b>2021</b> , 150, 3608   | 2 |
| 45 | Measurement and analysis of interfacial tension of decane/water system pressurized with methane + ethane + propane gas mixture. <b>2021</b> , 96, 104333  | О |
| 44 | Interconnectivity and morphology control of poly-high internal phase emulsions under photo-polymerization.  | O |
| 43 | Investigation on the effect of CuO nanoparticles on the IFT and wettability alteration at the presence of [C12mim][Cl] during enhanced oil recovery processes. 1  | 1 |
| 42 | Surface morphology effects on clathrate hydrate wettability <b>2021</b> , 611, 421-431  | 4 |
| 41 | Interfacial tensions of systems comprising N2, 7 mass% KI (aq), decane and iododecane at elevated pressures and temperatures. <b>2022</b> , 556, 113364   | О |
| 40 | EUnsaturated methacrylate macromonomers as reactive polymeric stabilizers in mini-emulsion polymerization.  | O |
| 39 | Effect of Gemini surfactant structure on water/oil interfacial properties: A dissipative particle dynamics study. <b>2022</b> , 251, 117466   | O |
|    |   |   |
| 38 | Optimizing Lennard-Jones parameters by coupling single molecule and ensemble target data. <b>2022</b> , 274, 108285   | 1 |
| 38 |   | 0 |
|    | , 274, 108285  Measurements and interpretation of crude Oil-Water/Brine dynamic interfacial tension at  |   |
| 37 | Measurements and interpretation of crude Oil-Water/Brine dynamic interfacial tension at subsurface representative conditions. <b>2022</b> , 315, 123266  Metal Emulsion-Based Synthesis, Characterization, and Properties of Sn-Based Microsphere Phase | О |

| 33 | Impact of morphology on the interfacial tension of liquid-liquid equilibrium interfaces in asymmetric mixtures. <b>2022</b> , 557, 111498   | 1 |
|----|---|---|
| 32 | Inkjet printing of epitaxially connected nanocrystal superlattices. 1   | 1 |
| 31 | Single-chain and condensed-state behavior of hnRNPA1 from molecular simulations.  | 0 |
| 30 | Experimental investigation of interfacial tension and oil swelling for asphaltenic crude oil/carbonated water system. <b>2022</b> ,   |   |
| 29 | Data_Sheet_1.pdf. <b>2018</b> ,   |   |
| 28 | Tailor-made urethane-linked alkyl-celluloses: A Promising Stabilizer for Oil-in-oil Pickering Emulsions.  |   |
| 27 | Experimental methods in chemical engineering: Optical fibre probes in multiphase systems.   |   |
| 26 | On the synergistic effect of asphaltene and surfactant to reduce n-dodecaneWater interfacial tension: insights from molecular dynamics simulations. 1-10                                  | 0 |
| 25 | Flow Reduction in Pore Networks of Packed Silica Nanoparticles: Insights from Mesoscopic Fluid Models.  |   |
| 24 | The effect of the molecular structure of alkyl ether carboxylate surfactants on the oil water interfacial tension. <b>2022</b> , 360, 119525  | 2 |
| 23 | Molecular Dynamics Simulation Study on Estacking of Gemini Surfactants in Oil/Water Systems. <b>2022</b> ,  | O |
| 22 | A molecular study on the behavior of polyethoxylated alkyl ethers surfactants in a water/n-alkane interface. <b>2022</b> , 129627   | 1 |
| 21 | Novel experimental evidence on the impact of surface carboxylic acid site density on the role of individual ions in the electrical behavior of crude oil/water. <b>2022</b> , 362, 119730 |   |
| 20 | Structural Heterogeneity Effects on Microgel Deswelling and Interfacial Properties: An Extensive Computational Study. <b>2022</b> , 154639  | 0 |
| 19 | Comprehensive review of the interfacial behavior of water/oil/surfactant systems using dissipative particle dynamics simulation. <b>2022</b> , 309, 102774                                | 0 |
| 18 | The effect of formate brines on the emulsification of ionic, non-ionic, and enzymatic surfactants. <b>2022</b> , 263, 118016  | 0 |
| 17 | Molecular dynamics simulation of enhancing surfactant flooding performance by using SiO2 nanoparticles. <b>2022</b> , 367, 120404   | O |
| 16 | Examining the effect of reservoir conditions on efficiency of microbial enhanced oil recovery processes using Rhodococcus erythropolis strain; experimental approach.                     | 0 |

| 15 | Single-chain and condensed-state behavior of hnRNPA1 from molecular simulations.   | 1 |
|----|--|---|
| 14 | Molecular insight into interfacial tension modulated by mixed cationic and anionic surfactants. 1-17   | O |
| 13 | Extraction of Metal Ions by Interfacially Active Janus Nanoparticles Supported by Wax Colloidosomes Obtained from Pickering Emulsions. <b>2022</b> , 12, 3738  | О |
| 12 | Slip of submerged two-dimensional liquid-infused surfaces in the presence of surfactants. <b>2022</b> , 950,   | O |
| 11 | Isolating the interface of an emulsion using X-ray scattering and tensiometry to understand protein-modulated alkylglyceride crystallisation. <b>2023</b> , 630, 202-214   | 0 |
| 10 | Stabilizing and structuring oilBil interfaces by molecular brush surfactants.  | O |
| 9  | Predicting the emulsion phase inversion point during self-emulsification using an improved free energy model and determining the model applicability. <b>2023</b> , 369, 120869  | О |
| 8  | Novel biosurfactants: Rationally designed surface-active peptides and in silico evaluation at the decane-water interface. <b>2023</b> , 125, 84-95   | O |
| 7  | Measurement and modelling of the interfacial tensions of CO21-Idecane-iododecane mixtures at high pressures and temperatures. <b>2023</b> , 566, 113700  | О |
| 6  | An Overview of the Oil+Brine Two-Phase System in the Presence of Carbon Dioxide, Methane, and Their Mixture. <b>2022</b> , 61, 17766-17782   | O |
| 5  | A New Method for Determining Interfacial Tension: Verification and Validation. 2023, 16, 613   | O |
| 4  | Design of a process intensified liquid-liquid extraction cell for higher temperature and pressure.   | O |
| 3  | Combining a hybrid chip and tube microfluidic system with fluorescent molecularly imprinted polymer (MIP) core-shell particles for the derivatisation, extraction, and detection of peptides with N-terminating phosphorylated tyrosine. | О |
| 2  | Effects of molecular size and orientation on the interfacial properties and wetting behavior of water/n-alkane systems: a molecular-dynamics study.  | O |
| 1  | Experimental and modelling study of the interfacial tension of (n-decanell-larbon dioxidell-lwater) in the three phase region. <b>2023</b> , 568, 113760   | О |