# Andres Mejia

List of Publications by Year
in descending order

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| 100 | 2,217 | 236612 | 276539 |
|---|---|---|---|
| papers | citations | 25 h-index | 41 g-index |

| 102 | 102 | 102 | 1093 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Force Fields for Coarse-Grained Molecular Simulations from a Corresponding States Correlation. Industrial & Engineering Chemistry Research, 2014, 53, 4131-4141. | 1.8 | 109 |
| 2 | Interfacial properties of selected binary mixtures containing n-alkanes. Fluid Phase Equilibria, 2009, 282, 68-81. | 1.4 | 98 |
| 3 | Use of Equations of State and Coarse Grained Simulations to Complement Experiments: Describing the Interfacial Properties of Carbon Dioxide + Decane and Carbon Dioxide + Eicosane Mixtures. Journal of Chemical & Engineering Data, 2014, 59, 2928-2941. | 1.0 | 85 |
| 4 | Phase and interface behaviors in type-I and type-V Lennard-Jones mixtures: Theory and simulations. Journal of Chemical Physics, 2005, 123, 034505. | 1.2 | 77 |
| 5 | Unnoticed Pitfalls of Soave-Type Alpha Functions in Cubic Equations of State. Industrial & Engineering Chemistry Research, 2003, 42, 5662-5673. | 1.8 | 71 |
| 6 | SAFT- Î³ force field for the simulation of molecular fluids 6: Binary and ternary mixtures comprising water, carbon dioxide, and n -alkanes. Journal of Chemical Thermodynamics, 2016, 93, 320-336. | 1.0 | 71 |
| 7 | Interfacial tensions of industrial fluids from a molecularâ€based square gradient theory. AIChE Journal, 2016, 62, 1781-1794. | 1.8 | 66 |
| 8 | Simultaneous prediction of interfacial tension and phase equilibria in binary mixtures. Fluid Phase Equilibria, 2005, 227, 225-238. | 1.4 | 63 |
| 9 | High-pressure densities and interfacial tensions of binary systems containing carbon dioxide+n-alkanes: (n-Dodecane, n-tridecane, n-tetradecane). Fluid Phase Equilibria, 2014, 380, 82-92. | 1.4 | 60 |
| 10 | Early regimes of water capillary flow in slit silica nanochannels. Physical Chemistry Chemical Physics, 2015, 17, 14731-14739. | 1.3 | 59 |
| 11 | Comprehensive Characterization of Interfacial Behavior for the Mixture CO<sub>2</sub> + H<sub>2</sub>O + CH<sub>4</sub>: Comparison between Atomistic and Coarse Grained Molecular Simulation Models and Density Gradient Theory. Journal of Physical Chemistry C, 2014, 118, 24504-24519. | 1.5 | 52 |
| 12 | Comparison of United-Atom Potentials for the Simulation of Vaporâ€“Liquid Equilibria and Interfacial Properties of Long-Chainn-Alkanes up ton-C<sub>100</sub>. Journal of Physical Chemistry B, 2011, 115, 12822-12834. | 1.2 | 46 |
| 13 | Combined Experimental, Theoretical, and Molecular Simulation Approach for the Description of the Fluid-Phase Behavior of Hydrocarbon Mixtures within Shale Rocks. Energy & Fuels, 2018, 32, 5750-5762. | 2.5 | 46 |
| 14 | Wounding prior to challenge substantially improves infectivity of cottontail rabbit papillomavirus and allows for standardization of infection. Journal of Virological Methods, 2008, 148, 34-39. | 1.0 | 45 |
| 15 | Resolving Discrepancies in the Measurements of the Interfacial Tension for the CO<sub>2</sub> + H<sub>2</sub>O Mixture by Computer Simulation. Journal of Physical Chemistry Letters, 2014, 5, 1267-1271. | 2.1 | 43 |
| 16 | Interfacial tensions of binary mixtures of ethanol with octane, decane, dodecane, and tetradecane. Journal of Chemical Thermodynamics, 2011, 43, 1395-1400. | 1.0 | 42 |
| 17 | Prediction of the water/oil interfacial tension from molecular simulations using the coarse-grained SAFT-Î³ Mie force field. Fluid Phase Equilibria, 2018, 476, 9-15. | 1.4 | 40 |
| 18 | A rigorous approach for predicting the slope and curvature of the temperatureâ€“entropy saturation boundary of pure fluids. Energy, 2012, 45, 888-899. | 4.5 | 38 |

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|---|---|---|---|
| 19 | Bottled SAFT: A Web App Providing SAFT-Î³ Mie Force Field Parameters for Thousands of Molecular Fluids. Journal of Chemical Information and Modeling, 2016, 56, 1609-1614. | 2.5 | 36 |
| 20 | Assessing salt-surfactant synergistic effects on interfacial tension from molecular dynamics simulations. Journal of Molecular Liquids, 2020, 299, 112223. | 2.3 | 35 |
| 21 | Vaporâ€“Liquid Equilibrium, Densities, and Interfacial Tensions of the System Hexane + 2,5-Dimethylfuran. Journal of Chemical & Engineering Data, 2012, 57, 2681-2688. | 1.0 | 32 |
| 22 | Atmospheric densities and interfacial tensions for 1-alkanol (1-butanol to 1-octanol)+water and ether (MTBE, ETBE, DIPE, TAME and THP)+water demixed mixtures. Fluid Phase Equilibria, 2015, 396, 88-97. | 1.4 | 31 |
| 23 | Correlation and prediction of interface tension for fluid mixtures: An approach based on cubic equations of state with the wong-sandler mixing rule. Journal of Phase Equilibria and Diffusion, 2005, 26, 215-224. | 0.5 | 29 |
| 24 | SGTPy: A Python Code for Calculating the Interfacial Properties of Fluids Based on the Square Gradient Theory Using the SAFT-VR Mie Equation of State. Journal of Chemical Information and Modeling, 2021, 61, 1244-1250. | 2.5 | 27 |
| 25 | High-pressure interfacial tensions for nitrogen+ethanol, or hexane or 2-methoxy-2-methylbutane: A comparison between experimental tensiometry and Monte Carlo simulations. Journal of Supercritical Fluids, 2014, 89, 78-88. | 1.6 | 26 |
| 26 | Estimation of interfacial behavior using the global phase diagram approach I. Carbon dioxideâ€“n-alkanes. Thermochimica Acta, 2004, 411, 171-176. | 1.2 | 25 |
| 27 | Perfect wetting along a three-phase line: Theory and molecular dynamics simulations. Journal of Chemical Physics, 2006, 124, 244505. | 1.2 | 25 |
| 28 | Extension of the SAFT-VR Mie EoS To Model Homonuclear Rings and Its Parametrization Based on the Principle of Corresponding States. Langmuir, 2017, 33, 11518-11529. | 1.6 | 25 |
| 29 | Measurement and modeling of isobaric vapor â€“ Liquid equilibrium and isothermal interfacial tensions of ethanolâ€¯+â€¯hexaneâ€¯+â€¯2,5 â€“ Dimethylfuran mixture. Fuel, 2018, 229, 105-115. | 3.4 | 24 |
| 30 | Coarse-grained theoretical modeling and molecular simulations of nitrogen + n -alkanes: ( n -pentane,) Tj ETQq0 0 0 rgBT /Overlock 10 T | 1.6 | 23 |
| 31 | Isobaric Vaporâ€“Liquid Equilibrium and Isothermal Interfacial Tensions for the System Ethanol + 2,5-Dimethylfuran. Journal of Chemical & Engineering Data, 2013, 58, 3226-3232. | 1.0 | 21 |
| 32 | Understanding the interfacial behavior in isopycnic Lennard-Jones mixtures by computer simulations. Physical Chemistry Chemical Physics, 2016, 18, 1114-1124. | 1.3 | 21 |
| 33 | Interfacial Behavior in Type IV Systems. International Journal of Thermophysics, 2004, 25, 1395-1414. | 1.0 | 20 |
| 34 | Experimental determination and theoretical modeling of the vaporâ€“liquid equilibrium and surface tensions of hexane+tetrahydro-2H-pyran. Fluid Phase Equilibria, 2012, 316, 55-65. | 1.4 | 20 |
| 35 | Experimental determination and theoretical prediction of the vaporâ€“liquid equilibrium and interfacial tensions of the system methyl-tert-butyl ether + 2,5-dimethylfuran. Fuel, 2014, 116, 183-190. | 3.4 | 19 |
| 36 | Densities and interfacial tensions for fatty acid methyl esters (from methyl formate to methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 T<br>Thermodynamics, 2018, 121, 121-128. | 1.0 | 19 |

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| 37 | On the Interfacial Behavior about the Shield Region. International Journal of Thermophysics, 2005, 26, 13-29. | 1.0 | 18 |
| 38 | Association and molecular chain length effects on interfacial behaviorÂ§. Physics and Chemistry of Liquids, 2006, 44, 45-59. | 0.4 | 18 |
| 39 | Vaporâ€“liquid equilibrium, densities, and interfacial tensions for the system ethyl 1,1-dimethylethyl ether (ETBE)+propan-1-ol. Fluid Phase Equilibria, 2007, 255, 121-130. | 1.4 | 18 |
| 40 | Vaporâ^'Liquid Equilibria and Interfacial Tensions of the System Ethanol + 2-Methoxy-2-methylpropane. Journal of Chemical & Engineering Data, 2010, 55, 428-434. | 1.0 | 18 |
| 41 | Measurement and theoretical prediction of the vaporâ€“liquid equilibrium, densities and interfacial tensions of the system hexane+2-methoxy-2-methylbutane. Fluid Phase Equilibria, 2011, 308, 15-24. | 1.4 | 18 |
| 42 | An accurate direct technique for parametrizing cubic equations of state. Fluid Phase Equilibria, 2008, 264, 201-210. | 1.4 | 17 |
| 43 | Vaporâ^'Liquid Equilibrium in the Binary Systems 2-Butanol +tert-Amyl Methyl Ether, 2-Butanol + Heptane, and Heptane +tert-Amyl Methyl Ether. Journal of Chemical & Engineering Data, 2011, 56, 2256-2265. | 1.0 | 17 |
| 44 | Vaporâ€“Liquid Equilibria and Interfacial Tensions of the System Ethanol + 2-Methoxy-2-methylbutane. Journal of Chemical & Engineering Data, 2011, 56, 3142-3148. | 1.0 | 17 |
| 45 | Isobaric vaporâ€“liquid equilibrium and isothermal surface tensions of 2,2â€²-oxybis[propane]+2,5-Dimethylfuran. Fluid Phase Equilibria, 2013, 345, 60-67. | 1.4 | 17 |
| 46 | A rigorous and accurate approach for predicting the wet-to-dry transition for working mixtures in organic Rankine cycles. Energy, 2018, 156, 509-519. | 4.5 | 17 |
| 47 | A Guide to Computing Interfacial Properties of Fluids from Molecular Simulations [Article v1.0]. Living Journal of Computational Molecular Science, 2020, 2, . | 2.2 | 17 |
| 48 | Vaporâ€“liquid equilibria and interfacial tensions for the ternary system acetone+2,2â€²-oxybis[propane]+cyclohexane and its constituent binary systems. Fluid Phase Equilibria, 2008, 270, 75-86. | 1.4 | 16 |
| 49 | On the phase and interface behavior along the three-phase line of ternary Lennard-Jones mixtures: A collaborative approach based on square gradient theory and molecular dynamics simulations. Journal of Chemical Physics, 2014, 141, 014503. | 1.2 | 16 |
| 50 | Modelling of solubility of vitamin K3 derivatives in supercritical carbon dioxide using cubic and SAFT equations of state. Journal of Supercritical Fluids, 2021, 167, 105040. | 1.6 | 16 |
| 51 | Isobaric Vapor-Liquid Equilibria and Densities for the Binary Systems Oxolane + Ethyl 1,1-Dimethylethyl Ether, Oxolane + 2-Propanol and Propan-2-One + Trichloromethane. Physics and Chemistry of Liquids, 2003, 41, 283-301. | 0.4 | 15 |
| 52 | Phase behaviour and interfacial properties of ternary system CO<sub>2</sub> + n-butane + n-decane: coarse-grained theoretical modelling and molecular simulations. Molecular Physics, 2016, 114, 2627-2640. | 0.8 | 15 |
| 53 | Prediction of azeotropic behavior using equations of state. Fluid Phase Equilibria, 1999, 166, 141-162. | 1.4 | 14 |
| 54 | A Model-Free Approach Data Treatment of Vaporâ^'Liquid Equilibrium Data in Ternary Systems. 2. Applications. Industrial & Engineering Chemistry Research, 2001, 40, 2149-2159. | 1.8 | 14 |

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| 55 | Phase equilibria and interfacial tensions in the systems methyl tert-butyl ether+acetone+cyclohexane, methyl tert-butyl ether+acetone and methyl tert-butyl ether+cyclohexane. Fluid Phase Equilibria, 2008, 273, 68-77. | 1.4 | 14 |
| 56 | Molar isopycnicity in heterogeneous binary mixtures. Fluid Phase Equilibria, 2012, 336, 84-97. | 1.4 | 14 |
| 57 | A topological approach to mass barotropic phenomena in asymmetric mixtures. Fluid Phase Equilibria, 2012, 313, 171-181. | 1.4 | 14 |
| 58 | A Model-Free Approach Data Treatment of Vaporâ'Liquid Equilibrium Data in Ternary Systems. 1. Theory and Numerical Procedures. Industrial & Engineering Chemistry Research, 2001, 40, 2134-2148. | 1.8 | 13 |
| 59 | An accurate direct technique for parameterizing cubic equations of state. Fluid Phase Equilibria, 2008, 265, 155-172. | 1.4 | 13 |
| 60 | Experimental measurements and theoretical modeling of high-pressure mass densities and interfacial tensions of carbon dioxideâ€¯+â€¯n-heptaneâ€¯+â€¯toluene and its carbon dioxide binary systems. Fuel, 2018, 228, 92-102. | 3.4 | 13 |
| 61 | Phasepy: A Python based framework for fluid phase equilibria and interfacial properties computation. Journal of Computational Chemistry, 2020, 41, 2504-2526. | 1.5 | 13 |
| 62 | Surface Tension of 1-Ethyl-3-methylimidazolium Ethyl Sulfate or 1-Butyl-3-methylimidazolium Hexafluorophosphate with Argon and Carbon Dioxide. Journal of Chemical & Engineering Data, 2013, 58, 1203-1211. | 1.0 | 12 |
| 63 | Phase Equilibria and Interfacial Properties of the Tetrahydrofuran + Methane Binary Mixture from Experiment and Computer Simulation. Journal of Physical Chemistry C, 2019, 123, 20960-20970. | 1.5 | 12 |
| 64 | Experimental Determination of Isobaric Vaporâ€“Liquid Equilibrium and Isothermal Interfacial Tensions for the Binary Ethanol + Cyclopentyl Methyl Ether Mixture. Journal of Chemical & Engineering Data, 2019, 64, 1970-1977. | 1.0 | 12 |
| 65 | Isobaric vaporâ€“liquid equilibrium and isothermal surface tension for hexaneÂ+ cyclopentyl methyl ether binary mixture: Experimental determinations and theoretical predictions. Fluid Phase Equilibria, 2020, 520, 112654. | 1.4 | 12 |
| 66 | Comments on â€œExperimental Measurements of Vaporâ€“Liquid Equilibrium Data for the Binary Systems of Methanol + 2-Butyl Acetate, 2-Butyl Alcohol + 2-Butyl Acetate, and Methyl Acetate + 2-Butyl Acetate at 101.33 kPaâ€. Journal of Chemical & Engineering Data, 2013, 58, 3563-3566. | 1.0 | 11 |
| 67 | Phase equilibria and interfacial tensions in the systems ethanol+2-methoxy-2-methylbutane+hexane. Fuel, 2014, 117, 996-1003. | 3.4 | 11 |
| 68 | Vapourâ€“liquid phase equilibria and interfacial properties of fatty acid methyl esters from molecular dynamics simulations. Physical Chemistry Chemical Physics, 2020, 22, 4974-4983. | 1.3 | 11 |
| 69 | Rebuttal to the Comments of Paul M. Mathias on â€œUnnoticed Pitfalls of Soave-Type Alpha Functions in Cubic Equations of Stateâ€. Industrial & Engineering Chemistry Research, 2004, 43, 1895-1896. | 1.8 | 10 |
| 70 | An accurate direct technique for parameterizing cubic equations of state. Fluid Phase Equilibria, 2008, 265, 66-83. | 1.4 | 10 |
| 71 | Vaporâ€“liquid equilibrium, densities, and interfacial tensions for the system benzene+propan-1-ol. Physics and Chemistry of Liquids, 2008, 46, 175-190. | 0.4 | 10 |
| 72 | Vaporâ€“Liquid Equilibrium and Interfacial Tension for the 1-Butanol + Cyclopentyl Methyl Ether Binary Mixture. Journal of Chemical & Engineering Data, 2020, 65, 4142-4149. | 1.0 | 10 |

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| 73 | Vaporâ€“liquid equilibrium at 94ÂkPa and surface tension at 298.15ÂK for hexaneÂ+ÂethanolÂ+Âcyclopentyl methyl ether mixture. Fuel, 2020, 279, 118415. | 3.4 | 10 |
| 74 | Barotropic phenomena in binary mixtures. Fluid Phase Equilibria, 2015, 394, 175-185. | 1.4 | 9 |
| 75 | Probing the Interfacial Behavior of Type IIIa Binary Mixtures Along the Three-Phase Line Employing Molecular Thermodynamics. Molecules, 2020, 25, 1499. | 1.7 | 9 |
| 76 | Isobaric Vapor-Liquid Equilibria and Densities for the System Ethyl 1,1-Dimethylethyl Ether + 2-Propanol. Physics and Chemistry of Liquids, 2002, 40, 685-702. | 0.4 | 8 |
| 77 | Isobaric vapor â€“ liquid â€“ liquid equilibrium for waterÂ+ÂMTBEÂ+Âalcohol (ethanol or 1-butanol) mixtures. Fluid Phase Equilibria, 2020, 523, 112768. | 1.4 | 8 |
| 78 | Interfacial Properties of Tetrahydrofuran and Carbon Dioxide Mixture from Computer Simulation. Journal of Physical Chemistry C, 2018, 122, 16142-16153. | 1.5 | 7 |
| 79 | Comments â€œOn The Consistency and Correctness of Thermodynamics Phase Equilibria Modeling and Correlations Reports Published In Fuel Journalâ€• Fuel, 2015, 140, 812-813. | 3.4 | 6 |
| 80 | Measurements and modeling of the phase equilibria for the n-hexaneÂ+ÂethanolÂ+Ân-dibutyl ether ternary mixture and its dibutyl ether sub-binary mixtures at 94ÂkPa. Fuel, 2021, 297, 120361. | 3.4 | 6 |
| 81 | Phase equilibria and interfacial properties of selected methaneÂ+Ân-alkane binary mixtures. Journal of Molecular Liquids, 2021, 341, 116918. | 2.3 | 6 |
| 82 | Density and viscosity of liquid mixtures formed by n-hexane, ethanol, and cyclopentyl methyl ether. Journal of Molecular Liquids, 2022, 359, 119353. | 2.3 | 6 |
| 83 | Vaporâ€“Liquid Equilibrium, Densities, and Interfacial Tensions of the System Ethanol + Tetrahydro-2H-pyran. Journal of Chemical & Engineering Data, 2012, 57, 561-567. | 1.0 | 5 |
| 84 | Experimental determination and theoretical modeling of the vaporâ€“liquid equilibrium and densities of the binary system butan-2-ol+tetrahydro-2H-pyran. Fluid Phase Equilibria, 2013, 342, 52-59. | 1.4 | 5 |
| 85 | Vaporâ€“liquid equilibrium and interfacial tensions of the system ethanol+hexane+tetrahydro-2H-Pyran. Fluid Phase Equilibria, 2014, 361, 229-236. | 1.4 | 5 |
| 86 | A Novel Experimental Procedure to Measure the Bulk Mass Densities and Interfacial Tensions for Mixtures at Vaporâ€“Liquidâ€“Liquid Equilibria. Journal of Chemical & Engineering Data, 2020, 65, 3344-3356. | 1.0 | 5 |
| 87 | Impact of morphology on the interfacial tension of liquid-liquid equilibrium interfaces in asymmetric mixtures. Chemical Physics, 2022, 557, 111498. | 0.9 | 5 |
| 88 | Vapor-liquid phase equilibria, liquid densities, liquid viscosities and surface tensions for the ternary n-hexaneÂ+Âcyclopentyl methyl etherÂ+Â1-butanol mixture. Fluid Phase Equilibria, 2022, 558, 113444. | 1.4 | 5 |
| 89 | Coarse-grained molecular dynamic simulations of selected thermophysical properties for 1-Butyl-3-methylimidazolium hexafluorophosphate. Journal of Molecular Liquids, 2013, 186, 106-115. | 2.3 | 4 |
| 90 | Measurement and modeling of high pressure density and interfacial tension of carbon dioxide + tetrahydrofuran mixture. Journal of Supercritical Fluids, 2017, 128, 359-369. | 1.6 | 4 |

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|---|---|---|---|
| 91 | Vaporâ€“Liquid Equilibrium, Surface Tension, and Dynamic Viscosity for the Propan-1-ol + Dibutyl Ether Binary Mixture. Journal of Chemical & Engineering Data, 2021, 66, 2783-2792. | 1.0 | 4 |
| 92 | Measurement of phase equilibrium and interfacial tension for the (1-propanolÂ+Âcyclopentyl methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 1.0 | 4 |
| 93 | Preferential Orientations and Anomalous Interfacial Tensions in Aqueous Solutions of Alcohols. Journal of Physical Chemistry B, 2020, 124, 8388-8401. | 1.2 | 3 |
| 94 | ISOBARIC VAPORâ€”LIQUID EQUILIBRIA FOR THE TERNARY SYSTEM OXOLANE + ETHYL 1, 1-DIMETHYLETHYL ETHER + 2-PROPANOL AT 50kPa. Physics and Chemistry of Liquids, 2003, 41, 493-501. | 0.4 | 3 |
| 95 | The additivity of surface and volumetric properties of Î±,Ï‰-dihalogenoalkanes. Journal of Chemical Thermodynamics, 2019, 132, 222-228. | 1.0 | 2 |
| 96 | Comments on â€œisobaric (vapor + liquid) equilibria for three binary systems (toluene + anisole, n) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 1.4 | 1 |
| 97 | Comments on â€œVaporâ€“Liquid Equilibrium for Ternary and Binary Systems of Tetrahydrofuran, Cyclohexane, and 1,2-Propanediol at 101.3 kPaâ€• Journal of Chemical & Engineering Data, 2016, 61, 1961-1963. | 1.0 | 1 |
| 98 | Molecular dynamics of liquidâ€“liquid equilibrium and interfacial properties of aqueous solutions of methyl esters. Physical Chemistry Chemical Physics, 2022, 24, 5371-5382. | 1.3 | 1 |
| 99 | Comment on â€œIsobaric Vapor + Liquid Equilibrium Measurements and Calculations for Using Nontraditional Models for the Association Systems of Ethyl Acetate + 2-Ethylhexanoic Acid and Propyl Acetate + 2-Ethylhexanoic Acid at Atmospheric Pressureâ€• Journal of Chemical & Engineering Data, 2021, 66, 848-851. | 1.0 | 0 |
| 100 | Correlation and Prediction of Interface Tension for Fluid Mixtures: An Approach Based on Cubic Equations of State with the Wong-Sandler Mixing Rule. Journal of Phase Equilibria and Diffusion, 2005, 26, 215-224. | 0.5 | 0 |