

# Alfredo Amigo

## List of Publications by Citations

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46  
g-index

73  
ext. papers

2,382  
ext. citations

3.4  
avg, IF

4.37  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 71 | Refractive indices, molar volumes and molar refractions of binary liquid mixtures: concepts and correlations. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 550-557  | 3.6 | 257       |
| 70 | Surface tensions and refractive indices of (tetrahydrofuran + n -alkanes) at T =298.15 K. <i>Journal of Chemical Thermodynamics</i> , <b>1999</b> , 31, 931-942  | 2.9 | 91        |
| 69 | Heat Capacities, Excess Enthalpies, and Volumes of Mixtures Containing Cyclic Ethers. 4. Binary Systems 1,4-Dioxane + 1-Alkanols. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1999</b> , 44, 948-954  | 2.8 | 91        |
| 68 | On the characterization of host-guest complexes: surface tension, calorimetry, and molecular dynamics of cyclodextrins with a non-ionic surfactant. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 4383-92 <sup>3,4</sup>   |     | 89        |
| 67 | Refractive Index, Surface Tension, and Density of Aqueous Mixtures of Carboxylic Acids at 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2006</b> , 51, 1356-1360  | 2.8 | 83        |
| 66 | Heat Capacities, Excess Enthalpies, and Volumes of Mixtures Containing Cyclic Ethers. 1. Binary Systems 1,4-Dioxane + n-Alkanes. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1998</b> , 43, 105-111   | 2.8 | 75        |
| 65 | Prediction of Excess Volumes and Excess Surface Tensions from Experimental Refractive Indices. <i>Physics and Chemistry of Liquids</i> , <b>2000</b> , 38, 251-260   | 1.5 | 73        |
| 64 | Application of the Prigogine-Flory-Patterson model to excess volumes of mixtures of tetrahydrofuran or tetrahydropyran with cyclohexane or toluene. <i>Thermochimica Acta</i> , <b>1996</b> , 286, 297-306 <sup>2,9</sup>  |     | 70        |
| 63 | Refractive Indexes of Binary Mixtures of Tetrahydrofuran with 1-Alkanols at 25°C and Temperature Dependence of n and l for the Pure Liquids. <i>Journal of Solution Chemistry</i> , <b>2002</b> , 31, 369-380  | 1.8 | 66        |
| 62 | Surface tension and density of mixtures of 1,3-dioxolane+alkanols at 298.15 K: analysis under the extended Langmuir model. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 272, 438-43   | 9.3 | 64        |
| 61 | Extended Langmuir Isotherm for Binary Liquid Mixtures. <i>Langmuir</i> , <b>2001</b> , 17, 4261-4266   | 4   | 60        |
| 60 | Heat Capacities, Excess Enthalpies, and Volumes of Mixtures Containing Cyclic Ethers. 3. Binary Systems {Tetrahydrofuran, Tetrahydropyran, 1,4-Dioxane, or 1,3-Dioxolane + Cyclohexane or Toluene}. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1999</b> , 44, 67-72            | 2.8 | 60        |
| 59 | Densities, Refractive Indices, Speeds of Sound, and Surface Tensions for Dilute Aqueous Solutions of 2-Methyl-1-propanol, Cyclopentanone, Cyclohexanone, Cyclohexanol, and Ethyl Acetoacetate at 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 3823-3829 | 2.8 | 57        |
| 58 | Refractive Indices and Surface Tensions of Binary Mixtures of 1,4-Dioxane + n-Alkanes at 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2000</b> , 45, 682-685   | 2.8 | 57        |
| 57 | Excess volumes of binary mixtures containing cyclic ethers + alkanols at 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1993</b> , 38, 141-142   | 2.8 | 57        |
| 56 | Heat Capacities, Excess Enthalpies, and Volumes of Mixtures Containing Cyclic Ethers. 2. Binary Systems 1,3-Dioxolane + n-Alkanes. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1998</b> , 43, 112-116   | 2.8 | 54        |
| 55 | Heat Capacities, Excess Enthalpies, and Volumes of Mixtures Containing Cyclic Ethers. 5. Binary Systems {1,3-Dioxolane + 1-Alkanols}. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1999</b> , 44, 1341-1347  | 2.8 | 51        |

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|----|--|-----|----|
| 54 | Refractive Indices and Surface Tensions of Binary Mixtures of 1,4-Dioxane + 1-Alkanols at 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2001</b> , 46, 692-695                          | 2.8 | 50 |
| 53 | A comprehensive approach to the surface tension of binary liquid mixtures. <i>Fluid Phase Equilibria</i> , <b>2001</b> , 182, 337-352  | 2.5 | 42 |
| 52 | Thermodynamics of Mixtures Involving Some Linear or Cyclic Ketones and Cyclic Ethers. 1. Systems Containing Tetrahydrofuran. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2002</b> , 47, 351-358 | 2.8 | 42 |
| 51 | Cyclodextrin-based self-assembled nanotubes at the water/air interface. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 12625-30   | 3.4 | 39 |
| 50 | Activity Coefficients at Infinite Dilution from Surface Tension Data. <i>Langmuir</i> , <b>2002</b> , 18, 3604-3608  | 4   | 37 |
| 49 | Re-examination and symmetrization of the adjustable parameters of the ERAS model. <i>Fluid Phase Equilibria</i> , <b>2000</b> , 173, 211-239   | 2.5 | 34 |
| 48 | Excess enthalpies of (tetrahydrofuran or tetrahydropyran + an n-alkane) at the temperature 298.15 K. <i>Journal of Chemical Thermodynamics</i> , <b>1994</b> , 26, 29-33                                   | 2.9 | 34 |
| 47 | The contact angle of nanofluids as thermophysical property. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 547, 393-406   | 9.3 | 33 |
| 46 | Effect of alkane chain-length on the excess volume of a binary mixture containing a cyclic ether. <i>Journal of Chemical Thermodynamics</i> , <b>1993</b> , 25, 337-341                                    | 2.9 | 31 |
| 45 | Dynamic surface tension, critical micelle concentration, and activity coefficients of aqueous solutions of nonyl phenol ethoxylates. <i>Fluid Phase Equilibria</i> , <b>2009</b> , 282, 14-19              | 2.5 | 29 |
| 44 | Thermodynamic analysis of surface formation of {1,4-dioxane + 1-alkanol} mixtures. <i>Journal of Colloid and Interface Science</i> , <b>2002</b> , 253, 203-10   | 9.3 | 28 |
| 43 | Application of the Extended Langmuir model to surface tension data of binary liquid mixtures. <i>Fluid Phase Equilibria</i> , <b>2005</b> , 237, 140-151   | 2.5 | 26 |
| 42 | Activity coefficients at infinite dilution for surfactants. <i>Fluid Phase Equilibria</i> , <b>2006</b> , 250, 158-164   | 2.5 | 25 |
| 41 | Densities and Viscosities of the Binary Mixtures Decanol + Some n-Alkanes at 298.15 K. <i>Physics and Chemistry of Liquids</i> , <b>1991</b> , 22, 245-253   | 1.5 | 25 |
| 40 | Thermodynamic Properties of Tetrahydropyran + 1-Alkanol Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1994</b> , 39, 926-928  | 2.8 | 23 |
| 39 | Excess molar enthalpies of (n-octan-1-ol + an n-alkane) at 298.15 K and 308.15 K. <i>Journal of Chemical Thermodynamics</i> , <b>1990</b> , 22, 633-638  | 2.9 | 23 |
| 38 | Thermophysical and tribological properties of dispersions based on graphene and a trimethylolpropane trioleate oil. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 268, 854-866                       | 6   | 22 |
| 37 | Refractive index measurement of imidazolium based ionic liquids in the Vis-NIR. <i>Optical Materials</i> , <b>2017</b> , 73, 647-657   | 3.3 | 21 |

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|----|---|-----|----|
| 36 | Effect of ZrO <sub>2</sub> nanoparticles on thermophysical and rheological properties of three synthetic oils. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 262, 126-138                               | 6   | 21 |
| 35 | Surface Tension Data of Aqueous Binary Mixtures of Methyl, Ethyl, Propyl, and Butyl Acetates at 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2010</b> , 55, 2905-2908                     | 2.8 | 21 |
| 34 | Thermodynamics of Mixtures Involving Some Linear or Cyclic Ketones and Cyclic Ethers. 2. Systems Containing Tetrahydropyran. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2003</b> , 48, 712-719    | 2.8 | 21 |
| 33 | Dependence upon temperature of the excess molar volumes of tetrahydropyran + n-alkane mixtures. <i>Canadian Journal of Chemistry</i> , <b>1995</b> , 73, 375-379  | 0.9 | 21 |
| 32 | Excess molar enthalpies of (heptan-1-ol + an n-alkane) at 298.15 and 308.15 K. <i>Journal of Chemical Thermodynamics</i> , <b>1989</b> , 21, 1207-1211  | 2.9 | 21 |
| 31 | Excess molar enthalpies of (n-nonan-1-ol + an n-alkane) at 298.15 K and 308.15 K. <i>Journal of Chemical Thermodynamics</i> , <b>1990</b> , 22, 1059-1065   | 2.9 | 19 |
| 30 | STAND: Surface Tension for Aggregation Number Determination. <i>Langmuir</i> , <b>2016</b> , 32, 3917-25  | 4   | 19 |
| 29 | Thermodynamic properties of binary mixtures of 2-hexanone with n-alkanes at 35°C. <i>Journal of Solution Chemistry</i> , <b>1990</b> , 19, 1095-1102  | 1.8 | 18 |
| 28 | A proposal for the estimation of binary mixture activity coefficients from surface tension measurements throughout the entire concentration range. <i>Fluid Phase Equilibria</i> , <b>2007</b> , 260, 343-353 | 2.5 | 17 |
| 27 | Thermodynamics of Mixtures Involving Some Linear or Cyclic Ketones and Cyclic Ethers. 4. Systems Containing 1,3-Dioxolane. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2004</b> , 49, 647-657      | 2.8 | 16 |
| 26 | Thermophysical properties of polyalphaolefin oil modified with nanoadditives. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 131, 192-205  | 2.9 | 16 |
| 25 | Thermodynamics of mixtures involving some (benzene derivatives+benzonitrile). <i>Journal of Chemical Thermodynamics</i> , <b>2007</b> , 39, 561-567   | 2.9 | 15 |
| 24 | A small molecular size system giving unexpected surface effects: alpha-Cyclodextrin + sodium dodecyl sulfate in water. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 328, 391-5             | 9.3 | 15 |
| 23 | Surface tensions, densities, and speeds of sound for aqueous solutions of lauryl ether ethoxylates. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 356, 193-200  | 2.5 | 14 |
| 22 | Excess molar enthalpies of (n-decan-1-ol + an n-alkane) at the temperatures 298.15 K and 308.15 K. <i>Journal of Chemical Thermodynamics</i> , <b>1991</b> , 23, 679-686                                      | 2.9 | 14 |
| 21 | Activity coefficients from Gibbs adsorption equation. <i>Fluid Phase Equilibria</i> , <b>2012</b> , 330, 17-23  | 2.5 | 13 |
| 20 | Excess Volumes of Ternary Mixtures Containing Tetrahydropyran and Decane with 1-Alkanols at the Temperature 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1995</b> , 40, 230-232           | 2.8 | 12 |
| 19 | Squeezing experimental measurements for a proper analysis of surfactant thermodynamics: Octyl-β-glucopyranoside as a case study. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 376, 31-39                     | 2.5 | 11 |

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| 18 | Intramolecular-proximity effect on the excess enthalpies of (a dichloroalkane + an alkan-2-one). <i>Journal of Chemical Thermodynamics</i> , <b>1994</b> , 26, 53-59   | 2.9  | 11 |
| 17 | Excess molar volumes of (o-xylene + n-heptane + toluene or n-hex-1-ene) at the temperature 298.15 K. <i>Journal of Chemical Thermodynamics</i> , <b>1991</b> , 23, 905-910   | 2.9  | 11 |
| 16 | Thermodynamics of Mixtures Involving Some Linear or Cyclic Ketones and Cyclic Ethers. 3. Systems Containing 1,4-Dioxane. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2003</b> , 48, 1055-1061   | 2.8  | 9  |
| 15 | Viscometric study of binary mixtures of tetrahydrofuran or tetrahydropyran + cyclohexane or toluene. <i>High Temperatures - High Pressures</i> , <b>1997</b> , 29, 127-134   | 1.3  | 7  |
| 14 | Heat capacity, density, surface tension, and contact angle for polyalphaolefins and ester lubricants. <i>Thermochimica Acta</i> , <b>2021</b> , 703, 178994  | 2.9  | 5  |
| 13 | Volumetric Behavior of Some Motor and Gear-Boxes Oils at High Pressure: Compressibility Estimation at EHL Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 10877-10885   | 3.9  | 3  |
| 12 | The standard Gibbs energy of adsorption from the bulk at the surface of liquid mixtures: reinterpretation of Traube's rule. Analysis of the adsorption contributions under the Extended Langmuir model. <i>Fluid Phase Equilibria</i> , <b>2004</b> , 225, 115-123 | 2.5  | 3  |
| 11 | Excess volumes of (tetrahydropyran + heptane + heptan-1-ol or octan-1-ol) at the temperature 298.15 K. <i>Journal of Chemical Thermodynamics</i> , <b>1994</b> , 26, 803-807   | 2.9  | 3  |
| 10 | Excess volumes for (tetrahydrofuran + heptane + heptan-1-ol or octan-1-ol) at the temperature 298.15 K. <i>Journal of Chemical Thermodynamics</i> , <b>1995</b> , 27, 1221-1226  | 2.9  | 2  |
| 9  | Excess Molar Volumes at the Temperature 308.15 K of the Ternary Mixtures (o-Xylene + n-Heptane + Toluene Or n-Hex-1-Ene). <i>Physics and Chemistry of Liquids</i> , <b>1992</b> , 24, 239-248  | 1.5  | 2  |
| 8  | A New Type of Supramolecular Fluid Based on H <sub>2</sub> O-Alkylammonium/Phosphonium Solutions. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7540-7546   | 16.4 | 2  |
| 7  | Boosting the use of thermoacoustimetry in micellization thermodynamics studies by easing an objective determination of the cmc. <i>Fluid Phase Equilibria</i> , <b>2018</b> , 478, 1-13  | 2.5  | 1  |
| 6  | The standard Gibbs energy of adsorption from the bulk at the surface of liquid mixtures: reinterpretation of Traube's rule. <i>Fluid Phase Equilibria</i> , <b>2004</b> , 225, 115-123   | 2.5  | 1  |
| 5  | Hydrophobic solvation increases thermal conductivity of water. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 21094-21098  | 3.6  | 1  |
| 4  | Titelbild: A New Type of Supramolecular Fluid Based on H <sub>2</sub> O-Alkylammonium/Phosphonium Solutions (Angew. Chem. 14/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7525-7525  | 3.6  | 1  |
| 3  | Unsupervised bubble calorimetry analysis: Surface tension from isothermal titration calorimetry. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 606, 1823-1832  | 9.3  | 1  |
| 2  | Darc analysis of binary mixtures. Excess enthalpies of ketone + alkane and ketone + alcohol systems. <i>Thermochimica Acta</i> , <b>1989</b> , 156, 21-26  | 2.9  |    |
| 1  | A New Type of Supramolecular Fluid Based on H <sub>2</sub> O-Alkylammonium/Phosphonium Solutions. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7618-7624  | 3.6  |    |

