

Alfredo Amigo

List of Publications by Year in descending order

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71
papers

2,547
citations

159358

30
h-index

205818

48
g-index

73
all docs

73
docs citations

73
times ranked

1280
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Refractive indices, molar volumes and molar refractions of binary liquid mixtures: concepts and correlations Electronic supplementary information (ESI) available: Table of data (S1) and figures (S1â€”S5). See http://www.rsc.org/suppdata/cp/b2/b208765k /Presented in part at the 17th IUPAC Conference on Chemical Thermodynamics, July 2002, Rostok, Germany.. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 550-557. | 1.3 | 279 |
| 2 | 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> , 2007, 111, 4383-4392. | 1.2 | 104 |
| 3 | Surface tensions and refractive indices of (tetrahydrofuran + n -alkanes) at T =298.15 K. <i>Journal of Chemical Thermodynamics</i> , 1999, 31, 931-942. | 1.0 | 97 |
| 4 | Refractive Index, Surface Tension, and Density of Aqueous Mixtures of Carboxylic Acids at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 1356-1360. | 1.0 | 97 |
| 5 | Heat Capacities, Excess Enthalpies, and Volumes of Mixtures Containing Cyclic Ethers. 4. Binary Systems 1,4-Dioxane + 1-Alkanols. <i>Journal of Chemical & Engineering Data</i> , 1999, 44, 948-954. | 1.0 | 93 |
| 6 | Heat Capacities, Excess Enthalpies, and Volumes of Mixtures Containing Cyclic Ethers. 1. Binary Systems 1,4-Dioxane + n-Alkanes. <i>Journal of Chemical & Engineering Data</i> , 1998, 43, 105-111. | 1.0 | 80 |
| 7 | Application of the Prigogine-Flory-Patterson model to excess volumes of mixtures of tetrahydrofuran or tetrahydropyran with cyclohexane or toluene. <i>Thermochimica Acta</i> , 1996, 286, 297-306. | 1.2 | 77 |
| 8 | Prediction of Excess Volumes and Excess Surface Tensions from Experimental Refractive Indices. <i>Physics and Chemistry of Liquids</i> , 2000, 38, 251-260. | 0.4 | 77 |
| 9 | Title is missing!. <i>Journal of Solution Chemistry</i> , 2002, 31, 369-380. | 0.6 | 72 |
| 10 | 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 & Engineering Data</i> , 1999, 44, 67-72. | 1.0 | 68 |
| 11 | Extended Langmuir Isotherm for Binary Liquid Mixtures. <i>Langmuir</i> , 2001, 17, 4261-4266. | 1.6 | 68 |
| 12 | 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> , 2004, 272, 438-443. | 5.0 | 67 |
| 13 | Excess volumes of binary mixtures containing cyclic ethers + alkanols at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 1993, 38, 141-142. | 1.0 | 60 |
| 14 | 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 & Engineering Data</i> , 2011, 56, 3823-3829. | 1.0 | 60 |
| 15 | Refractive Indices and Surface Tensions of Binary Mixtures of 1,4-Dioxane + n-Alkanes at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2000, 45, 682-685. | 1.0 | 58 |
| 16 | Heat Capacities, Excess Enthalpies, and Volumes of Mixtures Containing Cyclic Ethers. 2. Binary Systems 1,3-Dioxolane + n-Alkanes. <i>Journal of Chemical & Engineering Data</i> , 1998, 43, 112-116. | 1.0 | 57 |
| 17 | Heat Capacities, Excess Enthalpies, and Volumes of Mixtures Containing Cyclic Ethers. 5. Binary Systems {1,3-Dioxolane + 1-Alkanols}. <i>Journal of Chemical & Engineering Data</i> , 1999, 44, 1341-1347. | 1.0 | 54 |
| 18 | Refractive Indices and Surface Tensions of Binary Mixtures of 1,4-Dioxane + 1-Alkanols at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2001, 46, 692-695. | 1.0 | 51 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A comprehensive approach to the surface tension of binary liquid mixtures. <i>Fluid Phase Equilibria</i> , 2001, 182, 337-352. | 1.4 | 46 |
| 20 | Thermodynamics of Mixtures Involving Some Linear or Cyclic Ketones and Cyclic Ethers. 1. Systems Containing Tetrahydrofuran. <i>Journal of Chemical & Engineering Data</i> , 2002, 47, 351-358. | 1.0 | 44 |
| 21 | The contact angle of nanofluids as thermophysical property. <i>Journal of Colloid and Interface Science</i> , 2019, 547, 393-406. | 5.0 | 44 |
| 22 | Dynamic surface tension, critical micelle concentration, and activity coefficients of aqueous solutions of nonyl phenol ethoxylates. <i>Fluid Phase Equilibria</i> , 2009, 282, 14-19. | 1.4 | 43 |
| 23 | Activity Coefficients at Infinite Dilution from Surface Tension Data. <i>Langmuir</i> , 2002, 18, 3604-3608. | 1.6 | 42 |
| 24 | Cyclodextrin-Based Self-Assembled Nanotubes at the Water/Air Interface. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12625-12630. | 1.2 | 40 |
| 25 | Excess enthalpies of (tetrahydrofuran or tetrahydropyran + an n-alkane) at the temperature 298.15 K. <i>Journal of Chemical Thermodynamics</i> , 1994, 26, 29-33. | 1.0 | 38 |
| 26 | Densities and Viscosities of the Binary Mixtures Decanol + Some <i>n</i> -Alkanes at 298.15 K. <i>Physics and Chemistry of Liquids</i> , 1991, 22, 245-253. | 0.4 | 37 |
| 27 | Re-examination and symmetrization of the adjustable parameters of the ERAS model. <i>Fluid Phase Equilibria</i> , 2000, 173, 211-239. | 1.4 | 35 |
| 28 | Effect of alkane chain-length on the excess volume of a binary mixture containing a cyclic ether. <i>Journal of Chemical Thermodynamics</i> , 1993, 25, 337-341. | 1.0 | 33 |
| 29 | Thermophysical and tribological properties of dispersions based on graphene and a trimethylolpropane trioleate oil. <i>Journal of Molecular Liquids</i> , 2018, 268, 854-866. | 2.3 | 33 |
| 30 | Application of the Extended Langmuir model to surface tension data of binary liquid mixtures. <i>Fluid Phase Equilibria</i> , 2005, 237, 140-151. | 1.4 | 31 |
| 31 | Thermodynamic Analysis of Surface Formation of {1,4-Dioxane + 1-Alkanol} Mixtures. <i>Journal of Colloid and Interface Science</i> , 2002, 253, 203-210. | 5.0 | 30 |
| 32 | Activity coefficients at infinite dilution for surfactants. <i>Fluid Phase Equilibria</i> , 2006, 250, 158-164. | 1.4 | 28 |
| 33 | Surface Tension Data of Aqueous Binary Mixtures of Methyl, Ethyl, Propyl, and Butyl Acetates at 298.15 K. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 2905-2908. | 1.0 | 28 |
| 34 | Refractive index measurement of imidazolium based ionic liquids in the Vis-NIR. <i>Optical Materials</i> , 2017, 73, 647-657. | 1.7 | 28 |
| 35 | Thermophysical properties of polyalphaolefin oil modified with nanoadditives. <i>Journal of Chemical Thermodynamics</i> , 2019, 131, 192-205. | 1.0 | 27 |
| 36 | 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> , 1990, 22, 633-638. | 1.0 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Thermodynamic Properties of Tetrahydropyran + 1-Alkanol Mixtures. Journal of Chemical & Engineering Data, 1994, 39, 926-928. | 1.0 | 24 |
| 38 | Thermodynamics of Mixtures Involving Some Linear or Cyclic Ketones and Cyclic Ethers. 2. Systems Containing Tetrahydropyran. Journal of Chemical & Engineering Data, 2003, 48, 712-719. | 1.0 | 24 |
| 39 | Effect of ZrO ₂ nanoparticles on thermophysical and rheological properties of three synthetic oils. Journal of Molecular Liquids, 2018, 262, 126-138. | 2.3 | 24 |
| 40 | A proposal for the estimation of binary mixture activity coefficients from surface tension measurements throughout the entire concentration range. Fluid Phase Equilibria, 2007, 260, 343-353. | 1.4 | 23 |
| 41 | Excess molar enthalpies of (heptan-1-ol + an n-alkane) at 298.15 and 308.15 K. Journal of Chemical Thermodynamics, 1989, 21, 1207-1211. | 1.0 | 22 |
| 42 | Dependence upon temperature of the excess molar volumes of tetrahydropyran + n-alkane mixtures. Canadian Journal of Chemistry, 1995, 73, 375-379. | 0.6 | 21 |
| 43 | Thermodynamic properties of binary mixtures of 2-hexanone with n-alkanes at 35 ± 1/2 °C. Journal of Solution Chemistry, 1990, 19, 1095-1102. | 0.6 | 20 |
| 44 | Excess molar enthalpies of (n-nonan-1-ol + an n-alkane) at 298.15 K and 308.15 K. Journal of Chemical Thermodynamics, 1990, 22, 1059-1065. | 1.0 | 20 |
| 45 | STAND: Surface Tension for Aggregation Number Determination. Langmuir, 2016, 32, 3917-3925. | 1.6 | 19 |
| 46 | Thermodynamics of Mixtures Involving Some Linear or Cyclic Ketones and Cyclic Ethers. 4. Systems Containing 1,3-Dioxolane. Journal of Chemical & Engineering Data, 2004, 49, 647-657. | 1.0 | 18 |
| 47 | Thermodynamics of mixtures involving some (benzene derivatives+benzonitrile). Journal of Chemical Thermodynamics, 2007, 39, 561-567. | 1.0 | 16 |
| 48 | Surface tensions, densities, and speeds of sound for aqueous solutions of lauryl ether ethoxylates. Fluid Phase Equilibria, 2013, 356, 193-200. | 1.4 | 16 |
| 49 | A small molecular size system giving unexpected surface effects: β -Cyclodextrin + sodium dodecyl sulfate in water. Journal of Colloid and Interface Science, 2008, 328, 391-395. | 5.0 | 15 |
| 50 | Excess molar volumes of (o-xylene + n-heptane + toluene or n-hex-1-ene) at the temperature 298.15 K. Journal of Chemical Thermodynamics, 1991, 23, 905-910. | 1.0 | 14 |
| 51 | Excess molar enthalpies of (n-decan-1-ol + an n-alkane) at the temperatures 298.15 K and 308.15 K. Journal of Chemical Thermodynamics, 1991, 23, 679-686. | 1.0 | 14 |
| 52 | Activity coefficients from Gibbs adsorption equation. Fluid Phase Equilibria, 2012, 330, 17-23. | 1.4 | 13 |
| 53 | Intramolecular-proximity effect on the excess enthalpies of (a dichloroalkane + an alkan-2-one). Journal of Chemical Thermodynamics, 1994, 26, 53-59. | 1.0 | 12 |
| 54 | Excess Volumes of Ternary Mixtures Containing Tetrahydropyran and Decane with 1-Alkanols at the Temperature 298.15 K. Journal of Chemical & Engineering Data, 1995, 40, 230-232. | 1.0 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Squeezing experimental measurements for a proper analysis of surfactant thermodynamics: Octyl- β -D-glucopyranoside as a case study. <i>Fluid Phase Equilibria</i> , 2014, 376, 31-39. | 1.4 | 11 |
| 56 | Heat capacity, density, surface tension, and contact angle for polyalphaolefins and ester lubricants. <i>Thermochimica Acta</i> , 2021, 703, 178994. | 1.2 | 11 |
| 57 | Thermodynamics of Mixtures Involving Some Linear or Cyclic Ketones and Cyclic Ethers. 3. Systems Containing 1,4-Dioxane. <i>Journal of Chemical & Engineering Data</i> , 2003, 48, 1055-1061. | 1.0 | 10 |
| 58 | Viscometric study of binary mixtures of tetrahydrofuran or tetrahydropyran + cyclohexane or toluene. <i>High Temperatures - High Pressures</i> , 1997, 29, 127-134. | 0.3 | 7 |
| 59 | Volumetric Behavior of Some Motor and Gear-Boxes Oils at High Pressure: Compressibility Estimation at EHL Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 10877-10885. | 1.8 | 4 |
| 60 | Excess Molar Volumes at the Temperature 308.15 K of the Ternary Mixtures (o-Xylene + n-Heptane + Toluene). <i>Journal of Chemical Thermodynamics</i> , 2004, 36, 1091-1104. | 0.4 | 3 |
| 61 | Excess volumes of (tetrahydropyran + heptane + heptan-1-ol or octan-1-ol) at the temperature 298.15 K. <i>Journal of Chemical Thermodynamics</i> , 1994, 26, 803-807. | 1.0 | 3 |
| 62 | 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> , 2004, 225, 115-123. | 1.4 | 3 |
| 63 | Boosting the use of thermoacoustimetry in micellization thermodynamics studies by easing an objective determination of the cmc. <i>Fluid Phase Equilibria</i> , 2018, 478, 1-13. | 1.4 | 3 |
| 64 | Hydrophobic solvation increases thermal conductivity of water. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21094-21098. | 1.3 | 3 |
| 65 | A New Type of Supramolecular Fluid Based on H ₂ O-Alkylammonium/Phosphonium Solutions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7540-7546. | 7.2 | 3 |
| 66 | Unsupervised bubble calorimetry analysis: Surface tension from isothermal titration calorimetry. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1823-1832. | 5.0 | 3 |
| 67 | Excess volumes for (tetrahydrofuran + heptane + heptan-1-ol or octan-1-ol) at the temperature 298.15 K. <i>Journal of Chemical Thermodynamics</i> , 1995, 27, 1221-1226. | 1.0 | 2 |
| 68 | 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> , 2004, 225, 115-123. | 1.4 | 2 |
| 69 | Titelbild: A New Type of Supramolecular Fluid Based on H ₂ O-Alkylammonium/Phosphonium Solutions (Angew. Chem. 14/2021). <i>Angewandte Chemie</i> , 2021, 133, 7525-7525. | 1.6 | 1 |
| 70 | Darc analysis of binary mixtures. Excess enthalpies of ketone + alkane and ketone + alcohol systems. <i>Thermochimica Acta</i> , 1989, 156, 21-26. | 1.2 | 0 |
| 71 | A New Type of Supramolecular Fluid Based on H ₂ O-Alkylammonium/Phosphonium Solutions. <i>Angewandte Chemie</i> , 2021, 133, 7618-7624. | 1.6 | 0 |