

Silvana Mattedi

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

1,953
citations

279701

23
h-index

315616

38
g-index

106
all docs

106
docs citations

106
times ranked

1870
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Toxicity of oleate-based amino protic ionic liquids towards <i>Escherichia coli</i> , Danio rerio embryos and human skin cells. <i>Journal of Hazardous Materials</i> , 2022, 422, 126896. | 6.5 | 9 |
| 2 | Physical and chemical properties of binary mixtures of dibutylammonium-based ionic liquids and water. <i>Brazilian Journal of Chemical Engineering</i> , 2022, 39, 843-856. | 0.7 | 4 |
| 3 | Rambutan peel: An unconventional source of lignin and its potential applications in polymer science. <i>Research, Society and Development</i> , 2022, 11, e49911125320. | 0.0 | 0 |
| 4 | Stabilization of water-in-oil emulsions using a wax ester synthesized by a new homemade heterogeneous biocatalyst. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 1726-1735. | 1.6 | 2 |
| 5 | Feedforward and cascade forward networks for viscosity prediction for binary mixtures of ammonium-based ionic liquids and water. <i>Fluid Phase Equilibria</i> , 2022, 556, 113416. | 1.4 | 2 |
| 6 | Localized corrosion behavior studies by SVET of 1010 steel in different concentrations of sodium chloride containing [m-2HEA][Ol] ionic liquid as corrosion inhibitor. <i>Electrochimica Acta</i> , 2022, 419, 140385. | 2.6 | 5 |
| 7 | Determination of Cu, Ni, Mn and Zn in diesel oil samples using energy dispersive X-ray fluorescence spectrometry after solid phase extraction using sisal fiber. <i>Talanta</i> , 2021, 225, 121910. | 2.9 | 10 |
| 8 | 2-hydroxyethylammonium oleate protic ionic liquid as corrosion inhibitor for aluminum in neutral medium. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 543-556. | 0.8 | 11 |
| 9 | Inundaç o e carga em coluna de absorç o recheada. <i>Research, Society and Development</i> , 2021, 10, e29410312369. | 0.0 | 1 |
| 10 | Amine/Carboxylic Acid Ionic Liquid Composite Membranes for CO ₂ Separation. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4405-4419. | 1.8 | 7 |
| 11 | Avaliaç o da separaç o acetona- gua em uma coluna de recheio. <i>Research, Society and Development</i> , 2021, 10, e76101018592. | 0.0 | 0 |
| 12 | Remediation of petroleum contaminated saline water using value-added adsorbents derived from waste coconut fibres. <i>Chemosphere</i> , 2021, 279, 130562. | 4.2 | 13 |
| 13 | Binary Mixture of Double Protic Ionic Liquid: Density, Viscosity, Refractive Index, Surface Tension, and Derivative Properties. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 4309-4325. | 1.0 | 3 |
| 14 | Separation of Linalool from Limonene via Extractive Distillation with 1-Butyl-3-methylimidazolium Acetate as Entrainer. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 19449-19457. | 1.8 | 20 |
| 15 | 2-methyl-2-hydroxyethylammonium oleate ionic liquid performance as corrosion inhibitor for mild steel in hydrochloric acid medium. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 1885-1902. | 0.8 | 16 |
| 16 | Influence of the RuO ₂ layer thickness on the physical and electrochemical properties of anodes synthesized by the ionic liquid method. <i>Electrochimica Acta</i> , 2020, 354, 136625. | 2.6 | 16 |
| 17 | Deterpenation of citrus essential oil with 1-ethyl-3-methylimidazolium acetate: A comparison of unit operations. <i>Separation and Purification Technology</i> , 2020, 250, 117208. | 3.9 | 15 |
| 18 | Thermophysical properties of diethylammonium (acetate+water) mixtures at different temperatures. <i>Journal of Chemical Thermodynamics</i> , 2020, 145, 106093. | 1.0 | 10 |

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|----|---|-----|-----------|
| 19 | Effect of water on high-pressure ternary phase equilibria of CO ₂ +H ₂ O+alkanolamine based ionic liquid. <i>Journal of Molecular Liquids</i> , 2020, 306, 112775. | 2.3 | 10 |
| 20 | Continuous flow reactor based with an immobilized biocatalyst for the continuous enzymatic transesterification of crude coconut oil. <i>Biotechnology and Applied Biochemistry</i> , 2020, 67, 404-413. | 1.4 | 6 |
| 21 | An amino-based protic ionic liquid as a corrosion inhibitor of mild steel in aqueous chloride solutions. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 1175-1193. | 0.8 | 27 |
| 22 | Density and speed of sound prediction for binary mixtures of water and ammonium-based ionic liquids using feedforward and cascade forward neural networks. <i>Journal of Molecular Liquids</i> , 2020, 311, 113212. | 2.3 | 11 |
| 23 | Estudo cinético e de equilíbrio de adsorção de petróleo utilizando fibras de coco pré-tratadas. <i>Research, Society and Development</i> , 2020, 9, e523974413. | 0.0 | 6 |
| 24 | Evaluation of heat transfer fluids and nanofluids by process simulation: case study of a paraffin's hydrotreatment and fractionation plant. <i>Technical Papers ... Rio Oil & Gas</i> , 2020, 20, 304-305. | 0.0 | 0 |
| 25 | Holdup and characteristic velocity in a pulsed packed extraction column. <i>Research, Society and Development</i> , 2020, 9, e674982543. | 0.0 | 1 |
| 26 | Liquid-Liquid Equilibria Data of Protic Ionic Liquid (Ethyl-2-hydroxyethylammonium Propionate), <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 2915-2922. | 1.0 | 6 |
| 27 | Protic ionic liquid+ water interactions studied by 1D NOESY NMR spectroscopy. <i>Journal of Molecular Structure</i> , 2019, 1186, 137-143. | 1.8 | 4 |
| 28 | Liquid Phase Density, Sound Speed, and Vapor Pressure of Linear Alkanes Using the Mattedi-Tavares-Castier Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 6767-6777. | 1.8 | 2 |
| 29 | Development of a bioelectrode based on catalase enzyme and the novel protic ionic liquid pentaethylenhexammonium acetate (PEHAA). <i>Journal of Molecular Liquids</i> , 2019, 280, 182-190. | 2.3 | 10 |
| 30 | Influence of temperature and pressure on the density and speed of sound of N-ethyl-2-hydroxyethylammonium propionate ionic liquid. <i>Journal of Chemical Thermodynamics</i> , 2019, 131, 303-313. | 1.0 | 7 |
| 31 | Pineapple crown delignification using low-cost ionic liquid based on ethanolamine and organic acids. <i>Carbohydrate Polymers</i> , 2019, 206, 302-308. | 5.1 | 50 |
| 32 | Predicting the solubility of carbon dioxide or methane in imidazolium-based ionic liquids with GC-sPC-SAFT equation of state. <i>Fluid Phase Equilibria</i> , 2019, 479, 85-98. | 1.4 | 11 |
| 33 | Screening of protic ionic liquids for sugarcane bagasse pretreatment. <i>Fuel</i> , 2019, 235, 1506-1514. | 3.4 | 66 |
| 34 | STUDY OF THE PROPERTIES OF PROTIC IONIC LIQUIDS TO BE APPLIED IN THE ENHANCED OIL RECOVERY. <i>The Journal of Engineering and Exact Sciences</i> , 2019, 5, 0199-0202. | 0.0 | 0 |
| 35 | Protic ionic liquids as a constituent of biphasic systems based on acetonitrile: Phase diagram and alkaloid partitioning. <i>Separation and Purification Technology</i> , 2018, 200, 318-326. | 3.9 | 20 |
| 36 | High pressure vapor-liquid equilibria for binary carbon dioxide and protic ionic liquid based on ethanolamines+ butanoic acid. <i>Fluid Phase Equilibria</i> , 2018, 460, 162-174. | 1.4 | 9 |

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|----|--|-----|-----------|
| 37 | Influence of temperature and pressure on the density and speed of sound of 2-hydroxyethylammonium propionate ionic liquid. <i>Journal of Chemical Thermodynamics</i> , 2018, 122, 183-193. | 1.0 | 12 |
| 38 | High pressure vapor-liquid equilibria for binary protic ionic liquids + methane or carbon dioxide. <i>Separation and Purification Technology</i> , 2018, 196, 32-40. | 3.9 | 14 |
| 39 | Effect of different variables in the solubility of ampicillin and corresponding solid phase. <i>Fluid Phase Equilibria</i> , 2018, 459, 18-29. | 1.4 | 6 |
| 40 | Low viscosity protic ionic liquid for CO ₂ /CH ₄ separation: Thermophysical and high-pressure phase equilibria for diethylammonium butanoate. <i>Fluid Phase Equilibria</i> , 2018, 459, 30-43. | 1.4 | 29 |
| 41 | Separation of cellulose nanowhiskers from microcrystalline cellulose with an aqueous protic ionic liquid based on ammonium and hydrogensulphate. <i>Separation and Purification Technology</i> , 2018, 196, 200-207. | 3.9 | 23 |
| 42 | LIQUID-LIQUID EQUILIBRIA DATA OF N-METHYL-2-HYDROXYETHYL AMMONIUM ALKYLATES WITH BUTANOL+WATER AND PENTANOL+WATER AT 293.15K, 313.15K AND 333.15K. <i>Brazilian Journal of Chemical Engineering</i> , 2018, 35, 299-312. | 0.7 | 7 |
| 43 | Evaluation of ionic liquid treated sisal (agave sisalana) fiber as sorbent in biodiesel spill. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 348, 012006. | 0.3 | 0 |
| 44 | Influence of the calcination temperature and ionic liquid used during synthesis procedure on the physical and electrochemical properties of Ti/(RuO ₂) _{0.8} (Sb ₂ O ₄) _{0.2} anodes. <i>Journal of Electroanalytical Chemistry</i> , 2018, 829, 116-128. | 1.9 | 30 |
| 45 | New perspectives on the modification of silica aerogel particles with ionic liquid used in lipase immobilization with platform in ethyl esters production. <i>Process Biochemistry</i> , 2018, 75, 157-165. | 1.8 | 18 |
| 46 | Oleate-Based Protic Ionic Liquids As Lubricants for Aluminum 1100. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 12386-12396. | 1.8 | 20 |
| 47 | Lipase Immobilization on Silica Xerogel Treated with Protic Ionic Liquid and its Application in Biodiesel Production from Different Oils. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1829. | 1.8 | 37 |
| 48 | Protic ionic liquids influence on immobilization of Lipase <i>Burkholderia cepacia</i> on hybrid supports. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 633-641. | 1.6 | 10 |
| 49 | Properties of aqueous solutions of ammonium-based ionic liquids and thermodynamic modelling using Flory theory. <i>Journal of Molecular Liquids</i> , 2017, 229, 508-513. | 2.3 | 8 |
| 50 | Studying the Liquid-Liquid Equilibrium of Systems Water +2-Hydroxyethylammonium Propanoate or 2-Hydroxyethylammonium Butanoate or 2-Hydroxyethylammonium Pentanoate +1-Pentanol at 293.15, 313.15, and 333.15 K: Experimental Determination and Thermodynamic Modeling. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 3758-3768. | 1.0 | 2 |
| 51 | Use of protic ionic liquids as adjuvants in PEG-based ATPS for the purification of radish peroxidase. <i>Fluid Phase Equilibria</i> , 2017, 452, 1-8. | 1.4 | 26 |
| 52 | Protic Ionic Liquids Used as Metal-Forming Green Lubricants for Aluminum: Effect of Anion Chain Length. <i>Materials Research</i> , 2017, 20, 675-687. | 0.6 | 33 |
| 53 | THE NOVEL MESOPOROUS SILICA AEROGEL MODIFIED WITH PROTIC IONIC LIQUID FOR LIPASE IMMOBILIZATION. <i>Quimica Nova</i> , 2016, , . | 0.3 | 9 |
| 54 | CHARACTERIZATION AND EVALUATION OF WAXY CRUDE OIL FLOW. <i>Brazilian Journal of Chemical Engineering</i> , 2016, 33, 1063-1071. | 0.7 | 10 |

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|----|--|-----|-----------|
| 55 | High pressure vapor-liquid equilibria for binary methane and protic ionic liquid based on propionate anions. <i>Fluid Phase Equilibria</i> , 2016, 426, 65-74. | 1.4 | 17 |
| 56 | Volumetric properties of binary aqueous solutions of protic ionic liquids based on bis (2-hydroxyethyl) ammonium. <i>Journal of Molecular Liquids</i> , 2016, 222, 867-872. | 2.3 | 14 |
| 57 | (Eco)toxicity and biodegradability of protic ionic liquids. <i>Chemosphere</i> , 2016, 147, 460-466. | 4.2 | 96 |
| 58 | Experimental Density of Ionic Liquids and Thermodynamic Modeling with Group Contribution Equation of State Based on the Lattice Fluid Theory. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 348-353. | 1.0 | 40 |
| 59 | Solubility measurements of amoxicillin in mixtures of water and ethanol from 283.15 to 298.15 K. <i>Fluid Phase Equilibria</i> , 2016, 422, 78-86. | 1.4 | 12 |
| 60 | Effect of ethanol on the solubility of ampicillin and phenylglycine in aqueous media. <i>Fluid Phase Equilibria</i> , 2016, 424, 105-113. | 1.4 | 4 |
| 61 | Volumetric and acoustical properties of aqueous mixtures of N-methyl-2-hydroxyethylammonium butyrate and N-methyl-2-hydroxyethylammonium pentanoate at T = (298.15 to 333.15) K. <i>Journal of Chemical Thermodynamics</i> , 2016, 97, 191-205. | 1.0 | 16 |
| 62 | PHASE EQUILIBRIA FOR BINARY SYSTEMS CONTAINING IONIC LIQUID WITH WATER OR HYDROCARBONS. <i>Brazilian Journal of Chemical Engineering</i> , 2015, 32, 967-974. | 0.7 | 18 |
| 63 | DENSITY, REFRACTIVE INDEX, APPARENT VOLUMES AND EXCESS MOLAR VOLUMES OF FOUR PROTIC IONIC LIQUIDS + WATER AT T=298.15 AND 323.15 K. <i>Brazilian Journal of Chemical Engineering</i> , 2015, 32, 671-682. | 0.7 | 28 |
| 64 | Influence of anion chain length of protic ionic liquids on the corrosion resistance of API X70 steel. <i>Corrosion Engineering Science and Technology</i> , 2015, 50, 547-558. | 0.7 | 12 |
| 65 | Volumetric and acoustical properties of aqueous mixtures of N-methyl-2-hydroxyethylammonium propionate at T=(298.15 to 333.15)K. <i>Journal of Chemical Thermodynamics</i> , 2015, 88, 44-60. | 1.0 | 19 |
| 66 | Transesterification of babassu oil catalyzed by <i>Burkholderia cepacia</i> encapsulated in sol-gel matrix employing protic ionic liquid as an additive. <i>Acta Scientiarum - Technology</i> , 2014, 36, 445. | 0.4 | 13 |
| 67 | Thermophysical characterization of N-methyl-2-hydroxyethylammonium carboxylate ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2014, 68, 221-234. | 1.0 | 38 |
| 68 | Synthesis and physico-chemical properties of two protic ionic liquids based on stearate anion. <i>Fluid Phase Equilibria</i> , 2014, 376, 132-140. | 1.4 | 35 |
| 69 | IMMOBILIZATION OF LIPASE BY ENCAPSULATION IN SILICA AEROGEL. <i>Quimica Nova</i> , 2014, , . | 0.3 | 6 |
| 70 | Ionic liquids (IL) corrosion on A285 carbon steel. <i>DYNA (Colombia)</i> , 2014, 81, 122. | 0.2 | 3 |
| 71 | Density, refraction index and vapor-liquid equilibria of N-methyl-2-hydroxyethylammonium butyrate plus (methyl acetate or ethyl acetate or propyl acetate) at several temperatures. <i>Journal of Chemical Thermodynamics</i> , 2013, 62, 130-141. | 1.0 | 13 |
| 72 | Protic ionic liquid as additive on lipase immobilization using silica sol-gel. <i>Enzyme and Microbial Technology</i> , 2013, 52, 141-150. | 1.6 | 70 |

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|----|--|-----|-----------|
| 73 | A new approach for the thermodynamic modeling of the solubility of amino acids and β -lactam compounds as a function of pH. <i>Fluid Phase Equilibria</i> , 2013, 354, 38-46. | 1.4 | 6 |
| 74 | Solid-liquid equilibrium data of amoxicillin and hydroxyphenylglycine in aqueous media. <i>Brazilian Journal of Chemical Engineering</i> , 2013, 30, 45-54. | 0.7 | 16 |
| 75 | Density, Refraction Index, and Vapor-Liquid Equilibria of <i>n</i> -Methyl-2-hydroxyethylammonium Hexanoate Plus (Methyl Acetate, Ethyl Acetate, or Propyl Acetate) at Several Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 14543-14554. | 1.8 | 11 |
| 76 | Phase equilibria of binary mixtures containing methyl acetate, water, methanol or ethanol at 101.3 kPa. <i>Physics and Chemistry of Liquids</i> , 2011, 49, 52-71. | 0.4 | 30 |
| 77 | Proton Conducting Polymer Membrane Using The Ionic Liquid 2-Hydroxyethylammonium Lactate For Ethanol Fuel Cells. <i>AIP Conference Proceedings</i> , 2011, , . | 0.3 | 6 |
| 78 | Structural and Aggregation Study of Protic Ionic Liquids. , 2011, , . | | 2 |
| 79 | Isobaric (vapor+liquid) equilibria of 1-ethyl-3-methylimidazolium ethylsulfate plus (propionaldehyde) Tj ETQq1 1 0.784314 rgBT /Overl 895-900. | 1.0 | 26 |
| 80 | Thermophysical properties of binary mixtures of {ionic liquid 2-hydroxy ethylammonium acetate + (water, methanol, or ethanol)}. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 997-1010. | 1.0 | 131 |
| 81 | High pressure CO ₂ solubility in N-methyl-2-hydroxyethylammonium protic ionic liquids. <i>Journal of Supercritical Fluids</i> , 2011, 56, 224-230. | 1.6 | 100 |
| 82 | Vapor-liquid equilibrium calculations for refrigerant mixtures with the Mattedi-Tavares-Castier EOS. <i>Fluid Phase Equilibria</i> , 2010, 296, 133-139. | 1.4 | 6 |
| 83 | Solid-liquid equilibrium of substrates and products of the enzymatic synthesis of ampicillin. <i>AIChE Journal</i> , 2010, 56, 1578-1583. | 1.8 | 21 |
| 84 | Synthesis and thermophysical properties of two new protic long-chain ionic liquids with the oleate anion. <i>Fluid Phase Equilibria</i> , 2010, 299, 42-50. | 1.4 | 78 |
| 85 | Influence of temperature on thermodynamic properties of substituted aromatic compounds. <i>Physics and Chemistry of Liquids</i> , 2010, 48, 257-271. | 0.4 | 22 |
| 86 | Influence of temperature on thermodynamics of ethanol + hydrocarbon gasoline additives. <i>Physics and Chemistry of Liquids</i> , 2010, 48, 337-384. | 0.4 | 13 |
| 87 | Brønsted Ionic Liquids for Sustainable Processes: Synthesis and Physical Properties. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 625-632. | 1.0 | 133 |
| 88 | Production of Anhydrous Ethanol by Extractive Distillation of Diluted Alcoholic Solutions with Ionic Liquids. <i>Computer Aided Chemical Engineering</i> , 2009, 27, 1137-1142. | 0.3 | 5 |
| 89 | Fluid phase behavior modeling of CO ₂ + molten polymer systems using cubic and theoretically based equations of state. <i>Polymer Engineering and Science</i> , 2008, 48, 1157-1167. | 1.5 | 6 |
| 90 | Thermodynamics of oxygenate fuel additives as a function of temperature. <i>Physics and Chemistry of Liquids</i> , 2008, 46, 223-237. | 0.4 | 35 |

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|-----|--|-----|-----------|
| 91 | Measuring and modelling experimental densities and ultrasonic velocities of aromatic and halogenated environmental pollutants. <i>Chemosphere</i> , 2007, 67, 384-395. | 4.2 | 14 |
| 92 | Vapor-liquid equilibrium of copolymer+solvent mixtures: Thermodynamic modeling by two theoretical equations of state. <i>Fluid Phase Equilibria</i> , 2006, 246, 52-63. | 1.4 | 8 |
| 93 | Azeotropic behaviour of (benzene+cyclohexane+chlorobenzene) ternary mixture using chlorobenzene as entrainer at 101.3kPa. <i>Journal of Chemical Thermodynamics</i> , 2006, 38, 1725-1736. | 1.0 | 10 |
| 94 | Fluid phase topology of ethanol+benzene+cyclohexane at 101.3kPa. <i>Physics and Chemistry of Liquids</i> , 2006, 44, 607-621. | 0.4 | 0 |
| 95 | Experimental vapor-liquid equilibria data for binary mixtures of xylene isomers. <i>Brazilian Journal of Chemical Engineering</i> , 2005, 22, 453-462. | 0.7 | 16 |
| 96 | Vapor-Liquid Equilibria Data for Binary Systems of Ethylbenzene + Xylene Isomers at 100.65 kPa. <i>Journal of Chemical & Engineering Data</i> , 2005, 50, 1134-1138. | 1.0 | 18 |
| 97 | High pressure phase equilibrium calculations for hydrocarbon systems using an equation of state based on the lattice fluid theory. <i>Fluid Phase Equilibria</i> , 2002, 194-197, 599-607. | 1.4 | 3 |
| 98 | Liquid-liquid equilibria data for systems containing aromatic + nonaromatic + sulfolane at 308.15 and 323.15 K. <i>Fluid Phase Equilibria</i> , 2002, 202, 263-276. | 1.4 | 52 |
| 99 | Group contribution equation of state based on the lattice fluid theory: Alkane-alkanol systems. <i>Fluid Phase Equilibria</i> , 1998, 142, 33-54. | 1.4 | 29 |
| 100 | GROUP CONTRIBUTION LATTICE FLUID EQUATION OF STATE: APPLICATION TO POLYMER+SOLVENT SYSTEMS. <i>Brazilian Journal of Chemical Engineering</i> , 1998, 15, 313-319. | 0.7 | 5 |
| 101 | Equations of state for chainlike polar fluids: a comparison of reference terms. <i>Fluid Phase Equilibria</i> , 1994, 99, 87-103. | 1.4 | 6 |