

Julio Romero

List of Publications by Year in descending order

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74
papers

1,818
citations

257450

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docs citations

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times ranked

1781
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Near critical and supercritical impregnation and kinetic release of thymol in LLDPE films used for food packaging. <i>Journal of Supercritical Fluids</i> , 2014, 85, 41-48. | 3.2 | 96 |
| 2 | Supercritical impregnation of cinnamaldehyde into polylactic acid as a route to develop antibacterial food packaging materials. <i>Food Research International</i> , 2017, 99, 650-659. | 6.2 | 83 |
| 3 | Supercritical impregnation of thymol in poly(lactic acid) filled with electrospun poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 | 5.2 | 79 |
| 4 | Effect of processing conditions on the physical, chemical and transport properties of polylactic acid films containing thymol incorporated by supercritical impregnation. <i>European Polymer Journal</i> , 2017, 89, 195-210. | 5.4 | 74 |
| 5 | Design of natural deep eutectic solvents for the ultrasound-assisted extraction of hydroxytyrosol from olive leaves supported by COSMO-RS. <i>Separation and Purification Technology</i> , 2020, 248, 117054. | 7.9 | 70 |
| 6 | Mineralization of the textile dye acid yellow 42 by solar photoelectro-Fenton in a lab-pilot plant. <i>Journal of Hazardous Materials</i> , 2016, 319, 24-33. | 12.4 | 68 |
| 7 | Concentration of noni juice by means of osmotic distillation. <i>Journal of Membrane Science</i> , 2009, 330, 205-213. | 8.2 | 61 |
| 8 | Possibilities and challenges for ionic liquids in hydrometallurgy. <i>Separation and Purification Technology</i> , 2020, 251, 117289. | 7.9 | 55 |
| 9 | Flame stabilization between two beds of alumina balls in a porous burner. <i>Applied Thermal Engineering</i> , 2010, 30, 92-95. | 6.0 | 54 |
| 10 | Separation of butanol from ABE mixtures by sweep gas pervaporation using a supported gelled ionic liquid membrane: Analysis of transport phenomena and selectivity. <i>Journal of Membrane Science</i> , 2013, 444, 201-212. | 8.2 | 53 |
| 11 | Supercritical impregnation and kinetic release of 2-nonanone in LLDPE films used for active food packaging. <i>Journal of Supercritical Fluids</i> , 2015, 104, 76-84. | 3.2 | 52 |
| 12 | Concentration of cranberry juice by osmotic distillation process. <i>Journal of Food Engineering</i> , 2015, 144, 58-65. | 5.2 | 51 |
| 13 | Separation of fermentation products from ABE mixtures by perstraction using hydrophobic ionic liquids as extractants. <i>Journal of Membrane Science</i> , 2017, 537, 337-343. | 8.2 | 44 |
| 14 | Experimental and theoretical study of LDPE versus different concentrations of Irganox 1076 and different thickness. <i>Food Research International</i> , 2011, 44, 566-574. | 6.2 | 43 |
| 15 | Effects of high hydrostatic pressure processing and supercritical fluid extraction on bioactive compounds and antioxidant capacity of Cape gooseberry pulp (<i>Physalis peruviana</i> L.). <i>Journal of Supercritical Fluids</i> , 2018, 138, 215-220. | 3.2 | 39 |
| 16 | Improvement of Polylactide Properties through Cellulose Nanocrystals Embedded in Poly(Vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 | 4.1 | 37 |
| 17 | Effect of functionalized silica nanoparticles on the mass transfer process in active PLA nanocomposite films obtained by supercritical impregnation for sustainable food packaging. <i>Journal of Supercritical Fluids</i> , 2020, 161, 104844. | 3.2 | 37 |
| 18 | Modeling the mass transfer in solvent-extraction processes with hollow-fiber membranes. <i>AICHE Journal</i> , 2005, 51, 1067-1079. | 3.6 | 34 |

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|----|---|------|-----------|
| 19 | Effect of supercritical incorporation of cinnamaldehyde on physical-chemical properties, disintegration and toxicity studies of PLA/lignin nanocomposites. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 255-266. | 7.5 | 34 |
| 20 | Effect of the operating variables on the extraction and recovery of aroma compounds in an osmotic distillation process coupled to a vacuum membrane distillation system. <i>Journal of Food Engineering</i> , 2012, 111, 632-641. | 5.2 | 32 |
| 21 | Characterization of chemical kinetics in membrane-based liquid-liquid extraction of molybdenum(VI) from aqueous solutions. <i>Chemical Engineering Journal</i> , 2009, 151, 333-341. | 12.7 | 29 |
| 22 | Experimental and theoretical study of LDPE: Evaluation of different food simulants and temperatures. <i>Food Research International</i> , 2011, 44, 3072-3078. | 6.2 | 29 |
| 23 | Task-Specific Ionic Liquids as Extractants for the Solvent Extraction of Molybdenum(VI) from Aqueous Solution Using Different Commercial Ionic Liquids as Diluents. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 1621-1629. | 3.7 | 28 |
| 24 | Recovering water from lithium-rich brines by a fractionation process based on membrane distillation-crystallization. <i>Journal of Water Process Engineering</i> , 2021, 41, 102063. | 5.6 | 27 |
| 25 | Carboxymethylcellulose from bleached organosolv fibers of <i>Eucalyptus nitens</i> : synthesis and physicochemical characterization. <i>Cellulose</i> , 2018, 25, 2901-2914. | 4.9 | 26 |
| 26 | Assessment of kinetic release of thymol from LDPE nanocomposites obtained by supercritical impregnation: Effect of depressurization rate and nanoclay content. <i>European Polymer Journal</i> , 2017, 93, 294-306. | 5.4 | 25 |
| 27 | New hydrophobic membranes for contactor processes – Applications to isothermal concentration of solutions. <i>Desalination</i> , 2006, 193, 280-285. | 8.2 | 24 |
| 28 | A novel process based on gas filled membrane absorption to recover cyanide in gold mining. <i>Hydrometallurgy</i> , 2013, 134-135, 166-176. | 4.3 | 24 |
| 29 | Solvent extraction of rare-earth elements with ionic liquids: Toward a selective and sustainable extraction of these valuable elements. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 27, 100428. | 5.9 | 23 |
| 30 | Modeling heat and mass transfer in osmotic evaporation process. <i>AIChE Journal</i> , 2003, 49, 300-308. | 3.6 | 22 |
| 31 | Modeling and simulation of mass transfer in near-critical extraction using a hollow fiber membrane contactor. <i>Chemical Engineering Science</i> , 2007, 62, 5794-5808. | 3.8 | 22 |
| 32 | Modifying an Active Compound's Release Kinetic Using a Supercritical Impregnation Process to Incorporate an Active Agent into PLA Electrospun Mats. <i>Polymers</i> , 2018, 10, 479. | 4.5 | 22 |
| 33 | Effect of pressure and time on scCO ₂ -assisted incorporation of thymol into LDPE-based nanocomposites for active food packaging. <i>Journal of CO₂ Utilization</i> , 2018, 26, 434-444. | 6.8 | 22 |
| 34 | Membrane contactors for the extraction process with subcritical carbon dioxide or propane: Simulation of the influence of operating parameters. <i>Journal of Supercritical Fluids</i> , 2007, 41, 246-256. | 3.2 | 21 |
| 35 | Performance of butanol separation from ABE mixtures by pervaporation using silicone-coated ionic liquid gel membranes. <i>RSC Advances</i> , 2019, 9, 8546-8556. | 3.6 | 21 |
| 36 | Obtaining Hydroxytyrosol from Olive Mill Waste Using Deep Eutectic Solvents and Then Supercritical CO ₂ . <i>Waste and Biomass Valorization</i> , 2020, 11, 6273-6284. | 3.4 | 20 |

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|----|---|-----|-----------|
| 37 | Selective liquid-liquid extraction of molybdenum (VI) and rhenium (VII) from a synthetic pregnant leach solution: Comparison between extractants and diluents. <i>Minerals Engineering</i> , 2020, 145, 106060. | 4.3 | 20 |
| 38 | Design and cost estimation of a gas-filled membrane absorption (GFMA) process as alternative for cyanide recovery in gold mining. <i>Journal of Membrane Science</i> , 2014, 466, 253-264. | 8.2 | 18 |
| 39 | Copper removal from aqueous solutions by means of ionic liquids containing a β -diketone and the recovery of metal complexes by supercritical fluid extraction. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 899-908. | 3.2 | 18 |
| 40 | Selective removal of iron(III) from synthetic copper(II) pregnant leach solutions using [bmim][Tf 2 N] as diluent and TFA as extracting agent. <i>Hydrometallurgy</i> , 2016, 159, 54-59. | 4.3 | 18 |
| 41 | Analysis of boundary layer and solute transport in osmotic evaporation. <i>AIChE Journal</i> , 2003, 49, 2783-2792. | 3.6 | 17 |
| 42 | A unified approach of gas, liquid and supercritical solvent transport through microporous membranes. <i>Chemical Engineering Science</i> , 2004, 59, 1569-1576. | 3.8 | 15 |
| 43 | Gas-filled membrane absorption: a review of three different applications to describe the mass transfer by means of a unified approach. <i>Desalination and Water Treatment</i> , 2013, 51, 5649-5663. | 1.0 | 14 |
| 44 | Cassava starch: structural modification for development of a bio-adsorber for aqueous pollutants. Characterization and adsorption studies on methylene blue. <i>Polymer Bulletin</i> , 2021, 78, 1087-1107. | 3.3 | 14 |
| 45 | Obtaining Active Polylactide (PLA) and Polyhydroxybutyrate (PHB) Blends Based Bionanocomposites Modified with Graphene Oxide and Supercritical Carbon Dioxide (scCO ₂)-Assisted Cinnamaldehyde: Effect on Thermal-Mechanical, Disintegration and Mass Transport Properties. <i>Polymers</i> , 2021, 13, 3968. | 4.5 | 14 |
| 46 | Impact of precipitate characteristics and precipitation conditions on the settling performance of a sulfide precipitation process: An exhaustive characterization of the aggregation behavior. <i>Hydrometallurgy</i> , 2019, 189, 105150. | 4.3 | 13 |
| 47 | Near critical and supercritical fluid extraction of Cu(II) from aqueous solutions using a hollow fiber contactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2013, 65, 58-67. | 3.6 | 12 |
| 48 | Performance evaluation of mass transfer correlations in the GFMA process: A review with perspectives to the design. <i>Journal of Membrane Science</i> , 2018, 554, 140-155. | 8.2 | 12 |
| 49 | Foaming with scCO ₂ and Impregnation with Cinnamaldehyde of PLA Nanocomposites for Food Packaging. <i>Processes</i> , 2022, 10, 376. | 2.8 | 12 |
| 50 | Effect of fluid dynamic conditions on the recovery of ABE fermentation products by membrane-based dense gas extraction. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 95, 80-89. | 3.6 | 11 |
| 51 | Experimental and Theoretical Investigation of Distribution Equilibria and Kinetics of Copper(II) Extraction with LIX 84 I and TFA. <i>Separation Science and Technology</i> , 2015, 50, 1523-1531. | 2.5 | 11 |
| 52 | Numerical modelling and simulation of membrane-based extraction of copper(II) using hollow fiber contactors. , 0, 63, 113-123. | | 11 |
| 53 | Development of metal organic framework filled PDMS/PI composite membranes for biobutanol recovery. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1489-1498. | 2.7 | 10 |
| 54 | Optimizing the SART process: A critical assessment of its design criteria. <i>Minerals Engineering</i> , 2020, 146, 106116. | 4.3 | 10 |

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|----|--|-----|-----------|
| 55 | Extraction of Vanillin from Aqueous Matrices by Membrane-Based Supercritical Fluid Extraction: Effect of Operational Conditions on Its Performance. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14064-14074. | 3.7 | 10 |
| 56 | Permeation of supercritical fluids through a MFI zeolite membrane. <i>Chemical Engineering Science</i> , 2001, 56, 3139-3148. | 3.8 | 8 |
| 57 | A glassy carbon electrode modified by a copolymer of Co-tetrakis (para-aminophenyl)porphyrin and ortho-phenylenediamine. Characterization and electrocatalytic sulfite oxidation behavior of a basic extract from red wine. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 1361-1369. | 2.9 | 7 |
| 58 | Theoretical prediction of selectivity in solvent extraction of La(III) and Ce(III) from aqueous solutions using β -diketones as extractants and kerosene and two imidazolium-based ionic liquids as diluents via quantum chemistry and COSMO-RS calculations. <i>Journal of Molecular Liquids</i> , 2021, 325, 114655. | 4.9 | 7 |
| 59 | Assessment of Industrial Modules to Design a GFMA Process for Cyanide Recovery Based on a Phenomenological Model. <i>Processes</i> , 2018, 6, 34. | 2.8 | 6 |
| 60 | Ionic Liquids for the Selective Solvent Extraction of Lithium from Aqueous Solutions: A Theoretical Selection Using COSMO-RS. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 190. | 2.0 | 6 |
| 61 | Triazolium-based Ionic Liquids Supported on Alumina as Catalysts to Produce 5-HMF from Fructose. <i>ChemCatChem</i> , 2022, 14, . | 3.7 | 6 |
| 62 | Improvement of recovery performance in the solvent extraction of Cu(II) using [bmim][Tf 2 N] and a β -diketone as extractant and its stripping with supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2017, 128, 26-31. | 3.2 | 5 |
| 63 | Supercritical carbon dioxide solubility in hydrophobic ionic liquid mixtures: Experimental determination and thermodynamic modeling. <i>Fluid Phase Equilibria</i> , 2020, 517, 112616. | 2.5 | 5 |
| 64 | Dehydrated cranberry juice powder obtained by osmotic distillation combined with freeze-drying: Process intensification and energy reduction. <i>Chemical Engineering Research and Design</i> , 2020, 160, 233-239. | 5.6 | 4 |
| 65 | SULFITE OXIDATION MEDIATED BY ORTHO-PHENYLENEDIAMINE / CO(II)-TETRAKIS(PARA-AMINOPHENYL)PORPHYRIN COPOLYMERS IN ACID MEDIUM. <i>Journal of the Chilean Chemical Society</i> , 2013, 58, 1982-1985. | 1.2 | 4 |
| 66 | A kinetics analysis applied to the recovery of Zn(II) content from mine drainage by using a surfactant liquid membrane. <i>Desalination and Water Treatment</i> , 2010, 24, 327-335. | 1.0 | 3 |
| 67 | Extraction and quantification of SO ₂ content in wines using a hollow fiber contactor. <i>Food Science and Technology International</i> , 2014, 20, 501-510. | 2.2 | 3 |
| 68 | ELECTROCHEMICAL METHOD FOR SULFITE DETERMINATION IN WINES BY ELECTROCHEMICAL RESPONSE USING A MEMBRANE ABSORBER SYSTEM. <i>Journal of the Chilean Chemical Society</i> , 2016, 61, 3206-3210. | 1.2 | 3 |
| 69 | RED WINE EXTRACT OBTAINED BY MEMBRANE-BASED SUPERCRITICAL FLUID EXTRACTION: PRELIMINARY CHARACTERIZATION OF CHEMICAL PROPERTIES.. <i>Brazilian Journal of Chemical Engineering</i> , 2017, 34, 567-581. | 1.3 | 3 |
| 70 | Succinic acid recovery from a glycerol-based solution using phosphonium ionic liquids supported by COSMO-RS. <i>Fluid Phase Equilibria</i> , 2022, 559, 113471. | 2.5 | 3 |
| 71 | SIMULATION AND PROCESS OPTIMIZATION OF A MEMBRANE-BASED DENSE GAS EXTRACTION USING HOLLOW FIBER CONTACTORS. <i>Chemical Engineering Communications</i> , 2012, 199, 644-657. | 2.6 | 2 |
| 72 | Sensor for Quantitative Analytical Determination of Sulphite in Wine Using a System of Modified Electrode and a Membrane Absorption System. <i>ECS Transactions</i> , 2014, 64, 37-42. | 0.5 | 2 |

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|----|--|-----|-----------|
| 73 | Rhenium(VII) extraction from sulfuric aqueous solutions using ionic liquids as diluent and extractant: insights on the extraction stoichiometry and process parameters. Journal of Chemical Technology and Biotechnology, 0, , . | 3.2 | 0 |
| 74 | Analysis of microwave-assisted heating and water extraction from imidazolium and phosphonium based ionic liquids. Thermochemica Acta, 2022, 714, 179262. | 2.7 | 0 |