Julio Romero

List of Publications by Year
in descending order

74 papers	1,818 citations	293460 24 h-index	340414 39 g-index
74 all docs	74 docs citations	74 times ranked	1949 citing authors

#	Article	IF	Citations
1	Ionic Liquids for the Selective Solvent Extraction of Lithium from Aqueous Solutions: A Theoretical Selection Using COSMO-RS. Minerals (Basel, Switzerland), 2022, 12, 190.	0.8	6
2	Foaming with scCO2 and Impregnation with Cinnamaldehyde of PLA Nanocomposites for Food Packaging. Processes, 2022, 10, 376.	1.3	12
3	Triazoliumâ€based Ionic Liquids Supported on Alumina as Catalysts to Produce 5â€HMF from Fructose. ChemCatChem, 2022, 14, .	1.8	6
4	Succinic acid recovery from a glycerol-based solution using phosphonium ionic liquids supported by COSMO-RS. Fluid Phase Equilibria, 2022, 559, 113471.	1.4	3
5	Analysis of microwave-assisted heating and water extraction from imidazolium and phosphonium based ionic liquids. Thermochimica Acta, 2022, 714, 179262.	1.2	0
6	Cassava starch: structural modification for development of a bio-adsorber for aqueous pollutants. Characterization and adsorption studies on methylene blue. Polymer Bulletin, 2021, 78, 1087-1107.	1.7	14
7	Solvent extraction of rare-earth elements with ionic liquids: TowardÂa selective and sustainable extraction of these valuable elements. Current Opinion in Green and Sustainable Chemistry, 2021, 27, 100428.	3.2	23
8	Theoretical prediction of selectivity in solvent extraction of La(III) and Ce(III) from aqueous solutions using Î²-diketones as extractants and kerosene and two imidazolium-based ionic liquids as diluents via quantum chemistry and COSMO-RS calculations. Journal of Molecular Liquids, 2021, 325, 114655.	2.3	7
9	Effect of supercritical incorporation of cinnamaldehyde on physical-chemical properties, disintegration and toxicity studies of PLA/lignin nanocomposites. International Journal of Biological Macromolecules, 2021, 167, 255-266.	3.6	34
10	Recovering water from lithium-rich brines by a fractionation process based on membrane distillation-crystallization. Journal of Water Process Engineering, 2021, 41, 102063.	2.6	27
11	Obtaining Active Polylactide (PLA) and Polyhydroxybutyrate (PHB) Blends Based Bionanocomposites Modified with Graphene Oxide and Supercritical Carbon Dioxide (scCO2)-Assisted Cinnamaldehyde: Effect on Thermal-Mechanical, Disintegration and Mass Transport Properties. Polymers, 2021, 13, 3968.	2.0	14
12	Obtaining Hydroxytyrosol from Olive Mill Waste Using Deep Eutectic Solvents and Then Supercritical CO2. Waste and Biomass Valorization, 2020, 11, 6273-6284.	1.8	20
13	Selective liquid-liquid extraction of molybdenum (VI) and rhenium (VII) from a synthetic pregnant leach solution: Comparison between extractants and diluents. Minerals Engineering, 2020, 145, 106060.	1.8	20
14	Optimizing the SART process: A critical assessment of its design criteria. Minerals Engineering, 2020, 146, 106116.	1.8	10
15	Design of natural deep eutectic solvents for the ultrasound-assisted extraction of hydroxytyrosol from olive leaves supported by COSMO-RS. Separation and Purification Technology, 2020, 248, 117054.	3.9	70
16	Dehydrated cranberry juice powder obtained by osmotic distillation combined with freeze-drying: Process intensification and energy reduction. Chemical Engineering Research and Design, 2020, 160, 233-239.	2.7	4
17	Effect of functionalized silica nanoparticles on the mass transfer process in active PLA nanocomposite films obtained by supercritical impregnation for sustainable food packaging. Journal of Supercritical Fluids, 2020, 161, 104844.	1.6	37
18	Possibilities and challenges for ionic liquids in hydrometallurgy. Separation and Purification Technology, 2020, 251, 117289.	3.9	55

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19	Extraction of Vanillin from Aqueous Matrices by Membrane-Based Supercritical Fluid Extraction: Effect of Operational Conditions on Its Performance. Industrial & Engineering Chemistry Research, 2020, 59, 14064-14074.	1.8	10
20	Supercritical carbon dioxide solubility in hydrophobic ionic liquid mixtures: Experimental determination and thermodynamic modeling. Fluid Phase Equilibria, 2020, 517, 112616.	1.4	5
21	Impact of precipitate characteristics and precipitation conditions on the settling performance of a sulfide precipitation process: An exhaustive characterization of the aggregation behavior. Hydrometallurgy, 2019, 189, 105150.	1.8	13
22	Development of metal organic framework filled PDMS/PI composite membranes for biobutanol recovery. Korean Journal of Chemical Engineering, 2019, 36, 1489-1498.	1.2	10
23	Performance of butanol separation from ABE mixtures by pervaporation using silicone-coated ionic liquid gel membranes. RSC Advances, 2019, 9, 8546-8556.	1.7	21
24	Carboxymethylcellulose from bleached organosolv fibers of Eucalyptus nitens: synthesis and physicochemical characterization. Cellulose, 2018, 25, 2901-2914.	2.4	26
25	Task-Specific Ionic Liquids as Extractants for the Solvent Extraction of Molybdenum(VI) from Aqueous Solution Using Different Commercial Ionic Liquids as Diluents. Industrial & Engineering Chemistry Research, 2018, 57, 1621-1629.	1.8	28
26	Effects of high hydrostatic pressure processing and supercritical fluid extraction on bioactive compounds and antioxidant capacity of Cape gooseberry pulp (Physalis peruviana L.). Journal of Supercritical Fluids, 2018, 138, 215-220.	1.6	39
27	Performance evaluation of mass transfer correlations in the GFMA process: A review with perspectives to the design. Journal of Membrane Science, 2018, 554, 140-155.	4.1	12
28	Supercritical impregnation of thymol in poly(lactic acid) filled with electrospun poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (of Food Engineering, 2018, 217, 1-10.	2.7	79
29	Modifying an Active Compoundâ€™s Release Kinetic Using a Supercritical Impregnation Process to Incorporate an Active Agent into PLA Electrospun Mats. Polymers, 2018, 10, 479.	2.0	22
30	Assessment of Industrial Modules to Design a GFMA Process for Cyanide Recovery Based on a Phenomenological Model. Processes, 2018, 6, 34.	1.3	6
31	Effect of pressure and time on scCO2-assisted incorporation of thymol into LDPE-based nanocomposites for active food packaging. Journal of CO2 Utilization, 2018, 26, 434-444.	3.3	22
32	Effect of processing conditions on the physical, chemical and transport properties of polylactic acid films containing thymol incorporated by supercritical impregnation. European Polymer Journal, 2017, 89, 195-210.	2.6	74
33	Separation of fermentation products from ABE mixtures by perstraction using hydrophobic ionic liquids as extractants. Journal of Membrane Science, 2017, 537, 337-343.	4.1	44
34	Improvement of recovery performance in the solvent extraction of Cu(II) using [bmim][Tf 2 N] and a Î²-diketone as extractant and its stripping with supercritical carbon dioxide. Journal of Supercritical Fluids, 2017, 128, 26-31.	1.6	5
35	Supercritical impregnation of cinnamaldehyde into polylactic acid as a route to develop antibacterial food packaging materials. Food Research International, 2017, 99, 650-659.	2.9	83
36	Assessment of kinetic release of thymol from LDPE nanocomposites obtained by supercritical impregnation: Effect of depressurization rate and nanoclay content. European Polymer Journal, 2017, 93, 294-306.	2.6	25

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37	Improvement of Polylactide Properties through Cellulose Nanocrystals Embedded in Poly(Vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.9	37
38	RED WINE EXTRACT OBTAINED BY MEMBRANE-BASED SUPERCRITICAL FLUID EXTRACTION: PRELIMINARY CHARACTERIZATION OF CHEMICAL PROPERTIES.. Brazilian Journal of Chemical Engineering, 2017, 34, 567-581.	0.7	3
39	ELECTROCHEMICAL METHOD FOR SULFITE DETERMINATION IN WINES BY ELECTROCHEMICAL RESPONSE USING A MEMBRANE ABSORBER SYSTEM. Journal of the Chilean Chemical Society, 2016, 61, 3206-3210.	0.5	3
40	Mineralization of the textile dye acid yellow 42 by solar photoelectro-Fenton in a lab-pilot plant. Journal of Hazardous Materials, 2016, 319, 24-33.	6.5	68
41	Selective removal of iron(III) from synthetic copper(II) pregnant leach solutions using [bmim][Tf 2 N] as diluent and TFA as extracting agent. Hydrometallurgy, 2016, 159, 54-59.	1.8	18
42	Supercritical impregnation and kinetic release of 2-nonanone in LLDPE films used for active food packaging. Journal of Supercritical Fluids, 2015, 104, 76-84.	1.6	52
43	Effect of fluid dynamic conditions on the recovery of ABE fermentation products by membrane-based dense gas extraction. Chemical Engineering and Processing: Process Intensification, 2015, 95, 80-89.	1.8	11
44	Experimental and Theoretical Investigation of Distribution Equilibria and Kinetics of Copper(II) Extraction with LIX 84 I and TFA. Separation Science and Technology, 2015, 50, 1523-1531.	1.3	11
45	Concentration of cranberry juice by osmotic distillation process. Journal of Food Engineering, 2015, 144, 58-65.	2.7	51
46	Sensor for Quantitative Analytical Determination of Sulphite in Wine Using a System of Modified Electrode and a Membrane Absorption System. ECS Transactions, 2014, 64, 37-42.	0.3	2
47	Design and cost estimation of a gas-filled membrane absorption (GFMA) process as alternative for cyanide recovery in gold mining. Journal of Membrane Science, 2014, 466, 253-264.	4.1	18
48	Extraction and quantification of SO2 content in wines using a hollow fiber contactor. Food Science and Technology International, 2014, 20, 501-510.	1.1	3
49	Near critical and supercritical impregnation and kinetic release of thymol in LLDPE films used for food packaging. Journal of Supercritical Fluids, 2014, 85, 41-48.	1.6	96
50	Copper removal from aqueous solutions by means of ionic liquids containing a Î²â€diketone and the recovery of metal complexes by supercritical fluid extraction. Journal of Chemical Technology and Biotechnology, 2014, 89, 899-908.	1.6	18
51	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. Journal of Applied Electrochemistry, 2014, 44, 1361-1369.	1.5	7
52	Near critical and supercritical fluid extraction of Cu(II) from aqueous solutions using a hollow fiber contactor. Chemical Engineering and Processing: Process Intensification, 2013, 65, 58-67.	1.8	12
53	Gas-filled membrane absorption: a review of three different applications to describe the mass transfer by means of a unified approach. Desalination and Water Treatment, 2013, 51, 5649-5663.	1.0	14
54	A novel process based on gas filled membrane absorption to recover cyanide in gold mining. Hydrometallurgy, 2013, 134-135, 166-176.	1.8	24

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55	Separation of butanol from ABE mixtures by sweep gas pervaporation using a supported gelled ionic liquid membrane: Analysis of transport phenomena and selectivity. Journal of Membrane Science, 2013, 444, 201-212.	4.1	53
56	SULFITE OXIDATION MEDIATED BY ORTHO-PHENYLENEDIAMINE / CO(II)-TETRAKIS(PARA-AMINOPHENYL)PORPHYRIN COPOLYMERS IN ACID MEDIUM. Journal of the Chilean Chemical Society, 2013, 58, 1982-1985.	0.5	4
57	SIMULATION AND PROCESS OPTIMIZATION OF A MEMBRANE-BASED DENSE GAS EXTRACTION USING HOLLOW FIBER CONTACTORS. Chemical Engineering Communications, 2012, 199, 644-657.	1.5	2
58	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. Journal of Food Engineering, 2012, 111, 632-641.	2.7	32
59	Experimental and theoretical study of LDPE versus different concentrations of Irganox 1076 and different thickness. Food Research International, 2011, 44, 566-574.	2.9	43
60	Experimental and theoretical study of LDPE: Evaluation of different food simulants and temperatures. Food Research International, 2011, 44, 3072-3078.	2.9	29
61	Flame stabilization between two beds of alumina balls in a porous burner. Applied Thermal Engineering, 2010, 30, 92-95.	3.0	54
62	A kinetics analysis applied to the recovery of Zn(II) content from mine drainage by using a surfactant liquid membrane. Desalination and Water Treatment, 2010, 24, 327-335.	1.0	3
63	Concentration of noni juice by means of osmotic distillation. Journal of Membrane Science, 2009, 330, 205-213.	4.1	61
64	Characterization of chemical kinetics in membrane-based liquidâ€“liquid extraction of molybdenum(VI) from aqueous solutions. Chemical Engineering Journal, 2009, 151, 333-341.	6.6	29
65	Membrane contactors for the extraction process with subcritical carbon dioxide or propane: Simulation of the influence of operating parameters. Journal of Supercritical Fluids, 2007, 41, 246-256.	1.6	21
66	Modeling and simulation of mass transfer in near-critical extraction using a hollow fiber membrane contactor. Chemical Engineering Science, 2007, 62, 5794-5808.	1.9	22
67	New hydrophobic membranes for contactor processes â€" Applications to isothermal concentration of solutions. Desalination, 2006, 193, 280-285.	4.0	24
68	Modeling the mass transfer in solvent-extraction processes with hollow-fiber membranes. AICHE Journal, 2005, 51, 1067-1079.	1.8	34
69	A unified approach of gas, liquid and supercritical solvent transport through microporous membranes. Chemical Engineering Science, 2004, 59, 1569-1576.	1.9	15
70	Modeling heat and mass transfer in osmotic evaporation process. AICHE Journal, 2003, 49, 300-308.	1.8	22
71	Analysis of boundary layer and solute transport in osmotic evaporation. AICHE Journal, 2003, 49, 2783-2792.	1.8	17
72	Permeation of supercritical fluids through a MFI zeolite membrane. Chemical Engineering Science, 2001, 56, 3139-3148.	1.9	8

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73	Numerical modelling and simulation of membrane-based extraction of copper(II) using hollow fiber contactors. , 0, 63, 113-123.		11
74	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, , .	1.6	0