

# Juan F Rodriguez

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/1839089/juan-f-rodriguez-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

200  
papers

4,905  
citations

39  
h-index

58  
g-index

207  
ext. papers

5,582  
ext. citations

4.5  
avg, IF

5.73  
L-index

#	Paper	IF	Citations
200	Development of thermo-regulating textiles using paraffin wax microcapsules. <i>Thermochimica Acta</i> , <b>2010</b> , 498, 16-21	2.9	186
199	Microencapsulation of PCMs with a polystyrene shell. <i>Colloid and Polymer Science</i> , <b>2007</b> , 285, 1377-1385	2.4	176
198	Microencapsulation of PCMs with a styrene-methyl methacrylate copolymer shell by suspension-like polymerisation. <i>Chemical Engineering Journal</i> , <b>2010</b> , 157, 216-222	14.7	153
197	Microencapsulated phase change materials for enhancing the thermal performance of Portland cement concrete and geopolymer concrete for passive building applications. <i>Energy Conversion and Management</i> , <b>2017</b> , 133, 56-66	10.6	144
196	Synthesis and characterization of microcapsules containing Rubitherm <sup>®</sup> RT27 obtained by spray drying. <i>Chemical Engineering Journal</i> , <b>2011</b> , 166, 384-390	14.7	103
195	Improvement of the thermal behaviour of gypsum blocks by the incorporation of microcapsules containing PCMS obtained by suspension polymerization with an optimal core/coating mass ratio. <i>Applied Thermal Engineering</i> , <b>2010</b> , 30, 1164-1169	5.8	103
194	Study of the solubility and stability of polystyrene wastes in a dissolution recycling process. <i>Waste Management</i> , <b>2009</b> , 29, 1814-8	8.6	102
193	Thermal testing and numerical simulation of gypsum wallboards incorporated with different PCMs content. <i>Applied Energy</i> , <b>2011</b> , 88, 930-937	10.7	100
192	Influence of operation conditions on the microencapsulation of PCMs by means of suspension-like polymerization. <i>Colloid and Polymer Science</i> , <b>2008</b> , 286, 1019-1027	2.4	96
191	Recycling of polyurethanes from laboratory to industry, a journey towards the sustainability. <i>Waste Management</i> , <b>2018</b> , 76, 147-171	8.6	94
190	Production of biodiesel from winery waste: extraction, refining and transesterification of grape seed oil. <i>Bioresource Technology</i> , <b>2010</b> , 101, 7030-5	11	87
189	Mechanical properties and microscale changes of geopolymer concrete and Portland cement concrete containing micro-encapsulated phase change materials. <i>Cement and Concrete Research</i> , <b>2017</b> , 100, 341-349	10.3	84
188	Synthesis and Characterization of Paraffin Wax Microcapsules with Acrylic-Based Polymer Shells. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 12204-12211	3.9	81
187	Combined adsorption and ion exchange equilibrium of phenol on Amberlite IRA-420. <i>Chemical Engineering Journal</i> , <b>2006</b> , 117, 155-160	14.7	74
186	Effect of the Current Intensity in the Electrochemical Oxidation of Aqueous Phenol Wastes at an Activated Carbon and Steel Anode. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 3779-3785	3.9	73
185	Recovery of polyols from flexible polyurethane foam by split-phase glycolysis with new catalysts. <i>Polymer Degradation and Stability</i> , <b>2006</b> , 91, 894-901	4.7	63
184	Effect of freeze-thaw cycles on the mechanical behavior of geopolymer concrete and Portland cement concrete containing micro-encapsulated phase change materials. <i>Construction and Building Materials</i> , <b>2019</b> , 200, 94-103	6.7	61

183	Electrochemical oxidation of Acid Yellow 1 using diamond anode. <i>Journal of Applied Electrochemistry</i> , <b>2009</b> , 39, 2285-2289	2.6	57
182	Comparison of three different devices available in Spain to test thermal properties of building materials including phase change materials. <i>Applied Energy</i> , <b>2013</b> , 109, 421-427	10.7	55
181	Production of biodegradable porous scaffolds impregnated with indomethacin in supercritical CO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , <b>2012</b> , 63, 155-160	4.2	54
180	Thermodynamic evaluation of new absorbent mixtures of lithium bromide and organic salts for absorption refrigeration machines. <i>International Journal of Refrigeration</i> , <b>2006</b> , 29, 30-35	3.8	51
179	Recovery of polyols from flexible polyurethane foam by split-phase glycolysis: Study on the influence of reaction parameters. <i>Polymer Degradation and Stability</i> , <b>2008</b> , 93, 353-361	4.7	50
178	Recovery of polyols from flexible polyurethane foam by split-phase glycolysis: Glycol influence. <i>Polymer Degradation and Stability</i> , <b>2006</b> , 91, 221-228	4.7	50
177	Physical and mechanical properties of fly ash and slag geopolymer concrete containing different types of micro-encapsulated phase change materials. <i>Construction and Building Materials</i> , <b>2018</b> , 173, 28-39	6.7	48
176	Glycolysis of viscoelastic flexible polyurethane foam wastes. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 116, 23-35	4.7	47
175	Glycolysis of flexible polyurethane wastes using stannous octoate as the catalyst: Study on the influence of reaction parameters. <i>Polymer Degradation and Stability</i> , <b>2013</b> , 98, 144-149	4.7	46
174	Characterization of rigid polyurethane foams containing microencapsulated phase change materials: Microcapsules type effect. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 128, 582-590	2.9	45
173	Thermal and morphological stability of polystyrene microcapsules containing phase-change materials. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 291-297	2.9	45
172	Glycolysis of flexible polyurethane wastes containing polymeric polyols. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 109, 115-121	4.7	44
171	Applying an Experimental Design to Improve the Characteristics of Microcapsules Containing Phase Change Materials for Fabric Uses. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 9783-9790	3.9	44
170	Modelling the epoxidation reaction of grape seed oil by peracetic acid. <i>Journal of Cleaner Production</i> , <b>2016</b> , 138, 70-76	10.3	43
169	Influence of microcapsule size and shell polarity on thermal and mechanical properties of thermoregulating geopolymer concrete for passive building applications. <i>Energy Conversion and Management</i> , <b>2018</b> , 164, 198-209	10.6	42
168	Development of smart gypsum composites by incorporating thermoregulating microcapsules. <i>Energy and Buildings</i> , <b>2014</b> , 76, 631-639	7	42
167	Optimization of the reaction parameters for fast pseudo single-phase transesterification of sunflower oil. <i>Fuel</i> , <b>2010</b> , 89, 650-658	7.1	42
166	Reducing heat loss through the building envelope by using polyurethane foams containing thermoregulating microcapsules. <i>Applied Thermal Engineering</i> , <b>2016</b> , 103, 226-232	5.8	41

165	Characterization of rigid polyurethane foams containing microencapsulated Rubitherm $\square$ RT27: catalyst effect. Part II. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 347-356	4-3	41
164	A generalized model for the measurement of effective diffusion coefficients of heterovalent ions in ion exchangers by the zero-length column method. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 71-79	4-4	41
163	Thermal analysis of multi-layer walls containing geopolymer concrete and phase change materials for building applications. <i>Energy</i> , <b>2019</b> , 186, 115792	7-9	39
162	Tin compounds as Lewis acid catalysts for esterification and transesterification of acid vegetable oils. <i>Fuel Processing Technology</i> , <b>2013</b> , 106, 321-325	7-2	39
161	Purification of glycerol/water solutions from biodiesel synthesis by ion exchange: sodium removal Part I. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2009</b> , 84, 738-744	3-5	39
160	Polymeric-SiO <sub>2</sub> -PCMs for improving the thermal properties of gypsum applied in energy efficient buildings. <i>Energy Conversion and Management</i> , <b>2014</b> , 87, 138-144	10.6	38
159	Characterization of rigid polyurethane foams containing microencapsulated Rubitherm $\square$ RT27. Part I. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 4462-4469	4-3	38
158	Performance evaluation and simulation of a new absorbent for an absorption refrigeration system. <i>International Journal of Refrigeration</i> , <b>2004</b> , 27, 324-330	3-8	38
157	Optimization of supercritical CO <sub>2</sub> process for the concentration of tocopherol, carotenoids and chlorophylls from residual olive husk. <i>Journal of Supercritical Fluids</i> , <b>2011</b> , 59, 72-77	4-2	37
156	Equilibrium Data for the Exchange of Cu <sup>2+</sup> , Cd <sup>2+</sup> , and Zn <sup>2+</sup> Ions for H <sup>+</sup> on the Cationic Exchanger Amberlite IR-120. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2002</b> , 47, 613-617	2-8	37
155	Valorization of crude glycerol as a novel transesterification agent in the glycolysis of polyurethane foam waste. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 121, 126-136	4-7	36
154	Ion-Exchange Equilibria of Cu <sup>2+</sup> , Cd <sup>2+</sup> , Zn <sup>2+</sup> , and Na <sup>+</sup> Ions on the Cationic Exchanger Amberlite IR-120. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2001</b> , 46, 1404-1409	2-8	36
153	Thermal degradation and fire behaviour of novel polyurethanes based on phosphate polyols. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 101, 40-51	4-7	35
152	Vapor Pressures, Densities, and Viscosities of the (Water + Lithium Bromide + Sodium Formate) System and (Water + Lithium Bromide + Potassium Formate) System. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2003</b> , 48, 18-22	2-8	35
151	Glycolysis of high resilience flexible polyurethane foams containing polyurethane dispersion polyol. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 133, 119-130	4-7	34
150	Measurements of Effective Self-diffusion Coefficients in a Gel-Type Cation Exchanger by the Zero-Length-Column Method. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1998</b> , 37, 2020-2028	3-9	33
149	Recycling extruded polystyrene by dissolution with suitable solvents. <i>Journal of Material Cycles and Waste Management</i> , <b>2009</b> , 11, 2-5	3-4	31
148	Activities of octoate salts as novel catalysts for the transesterification of flexible polyurethane foams with diethylene glycol. <i>Polymer Degradation and Stability</i> , <b>2009</b> , 94, 533-539	4-7	31

147	Influence of the use of recycled polyols obtained by glycolysis on the preparation and physical properties of flexible polyurethane. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 109, 617-626	2.9	31
146	Novel Model for the Description of the Controlled Release of 5-Fluorouracil from PLGA and PLA Foamed Scaffolds Impregnated in Supercritical CO <sub>2</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 15374-15382	3.9	29
145	Production of biodegradable porous scaffolds impregnated with 5-fluorouracil in supercritical CO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , <b>2013</b> , 80, 1-8	4.2	29
144	Influence of different suspension stabilizers on the preparation of Rubitherm RT31 microcapsules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2011</b> , 390, 62-66	5.1	28
143	Modelling of the phase behaviour for vegetable oils at supercritical conditions. <i>Journal of Supercritical Fluids</i> , <b>2009</b> , 48, 189-194	4.2	28
142	Synthesis of polyols by anionic polymerization: determination of kinetic parameters of propylene oxide polymerization using caesium and potassium alcoholates. <i>Polymer International</i> , <b>2002</b> , 51, 1066-1077	3.3	28
141	Ion-Exchange Equilibria of Pb <sup>2+</sup> , Ni <sup>2+</sup> , and Cr <sup>3+</sup> Ions for H <sup>+</sup> on Amberlite IR-120 Resin. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2008</b> , 53, 1325-1331	2.8	27
140	Isolation of aroma compounds from sugar cane spirits by supercritical CO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , <b>2007</b> , 43, 37-42	4.2	27
139	Vapour pressures, densities, and viscosities of the (water+lithium bromide+potassium acetate) system and (water+lithium bromide+sodium lactate) system. <i>Journal of Chemical Thermodynamics</i> , <b>2006</b> , 38, 123-129	2.9	26
138	A novel click-chemistry approach to flame retardant polyurethanes. <i>Reactive and Functional Polymers</i> , <b>2013</b> , 73, 1207-1212	4.6	25
137	Purification of glycerol/water solutions from biodiesel synthesis by ion exchange: sodium and chloride removal. Part II. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2009</b> , 84, 1130-1135	3.5	25
136	Recovery of Nicotine from Aqueous Extracts of Tobacco Wastes by an H <sup>+</sup> -Form Strong-Acid Ion Exchanger. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1998</b> , 37, 4783-4791	3.9	25
135	Adsorption of phenol and chlorophenols onto granular activated carbon and their desorption by supercritical CO <sub>2</sub> . <i>Journal of Chemical Technology and Biotechnology</i> , <b>2014</b> , 89, 1660-1667	3.5	24
134	Glycolysis of flexible polyurethane wastes using stannous octoate as the catalyst. <i>Journal of Material Cycles and Waste Management</i> , <b>2009</b> , 11, 130-132	3.4	24
133	Thermal analysis of geopolymer concrete walls containing microencapsulated phase change materials for building applications. <i>Solar Energy</i> , <b>2019</b> , 178, 295-307	6.8	24
132	Thermal performance and numerical simulation of geopolymer concrete containing different types of thermoregulating materials for passive building applications. <i>Energy and Buildings</i> , <b>2018</b> , 173, 678-688	7	24
131	Thermo-Chemical Decomposition Study of Polyurethane Elastomer Through Glycerolysis Route with Using Crude and Refined Glycerine as a Transesterification Agent. <i>Journal of Polymers and the Environment</i> , <b>2018</b> , 26, 166-174	4.5	23
130	The Selective Dissolution Technique as Initial Step for Polystyrene Recycling. <i>Waste and Biomass Valorization</i> , <b>2013</b> , 4, 29-36	3.2	23

129	Absorption of Water Vapor into New Working Fluids for Absorption Refrigeration Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 345-350	3.9	23
128	Influence of Microcapsule Size and Shell Polarity on the Time-Dependent Viscosity of Geopolymer Paste. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 9457-9464	3.9	23
127	Supercritical extraction and fractionation of <i>Jatropha curcas</i> L. oil for biodiesel production. <i>Journal of Supercritical Fluids</i> , <b>2015</b> , 97, 100-106	4.2	22
126	Preparation and characterization of polystyrene foams from limonene solutions. <i>Journal of Supercritical Fluids</i> , <b>2014</b> , 88, 92-104	4.2	22
125	Scale-up of a suspension-like polymerization process for the microencapsulation of phase change materials. <i>Journal of Microencapsulation</i> , <b>2010</b> , 27, 583-93	3.4	22
124	Removal of chloride ions from an industrial polyethylenimine flocculant shifting it into an adhesive promoter using the anion exchange resin Amberlite IRA-420. <i>Reactive and Functional Polymers</i> , <b>2008</b> , 68, 1218-1224	4.6	22
123	Enhancing the thermal comfort of fabrics for the footwear industry. <i>Textile Reseach Journal</i> , <b>2013</b> , 83, 1754-1763	1.7	21
122	Supercritical fluid fractionation of liquid oleoresin capsicum: Statistical analysis and solubility parameters. <i>Journal of Supercritical Fluids</i> , <b>2010</b> , 54, 22-29	4.2	21
121	Flexible polyurethane foams synthesized employing recovered polyols from glycolysis: Physical and structural properties. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134, 45087	2.9	20
120	Development of a strategy for the foaming of polystyrene dissolutions in scCO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , <b>2013</b> , 76, 126-134	4.2	20
119	Comparison between Heterogeneous and Homogeneous MASS Action Models in the Prediction of Ternary Ion Exchange Equilibria. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 251-259	3.9	20
118	New considerations in the economic evaluation of supercritical processes: Separation of bioactive compounds from multicomponent mixtures. <i>Journal of Supercritical Fluids</i> , <b>2013</b> , 79, 345-355	4.2	19
117	Application of Supercritical Fluid Extraction to Brewer's Spent Grain Management. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 1614-1619	3.9	19
116	Determination of Intraparticle Diffusivities of Na <sup>+</sup> /K <sup>+</sup> in Water and Water/Alcohol Mixed Solvents on a Strong Acid Cation Exchanger. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 3019-3027	3.9	19
115	Model for the determination of diffusion coefficients of heterovalent ions in macroporous ion exchange resins by the zero-length column method. <i>Chemical Engineering Science</i> , <b>2005</b> , 60, 5836-5844	4.4	18
114	Removal of caesium catalyst from polyols by ion exchange on Amberlite 252. <i>Reactive and Functional Polymers</i> , <b>2005</b> , 64, 139-150	4.6	18
113	Kinetics of the ring-opening polymerization of D,L-lactide using zinc (II) octoate as catalyst. <i>Polymer International</i> , <b>2012</b> , 61, 265-273	3.3	17
112	High-pressure phase equilibria of binary and ternary mixtures of carbon dioxide, triglycerides and free fatty acids: Measurement and modeling with the GC-EOS. <i>Fluid Phase Equilibria</i> , <b>2010</b> , 295, 1-8	2.5	17



111	Potassium removal from water-methanol-polyol mixtures by ion exchange on Amberlite 252. <i>Chemical Engineering Journal</i> , <b>1997</b> , 66, 137-147	14.7	17
110	Copolymerization of D,L-lactide and glycolide in supercritical carbon dioxide with zinc octoate as catalyst. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2008</b> , 85, 196-203	3.5	17
109	Applying surfactants to improve the absorption capacity of mixtures of lithium bromide and formates in absorption refrigeration coolers. <i>International Journal of Refrigeration</i> , <b>2008</b> , 31, 1073-1080	3.8	17
108	The ion exchange equilibria of Na <sup>+</sup> /K <sup>+</sup> in nonaqueous and mixed solvents on a strong acid cation exchanger. <i>Chemical Engineering Science</i> , <b>2002</b> , 57, 1943-1954	4.4	17
107	Removal of Alkaline Catalysts from Polyols by Ion Exchange: Selection of an Ion-Exchange Resin. <i>Separation Science and Technology</i> , <b>1995</b> , 30, 125-140	2.5	17
106	The role of microstructure on the mechanical properties of polyurethane foams containing thermoregulating microcapsules. <i>Polymer Testing</i> , <b>2017</b> , 60, 274-282	4.5	16
105	Glycolysis of advanced polyurethanes composites containing thermoregulating microcapsules. <i>Chemical Engineering Journal</i> , <b>2018</b> , 350, 300-311	14.7	16
104	Measurement and modeling of the high-pressure phase equilibria of CO <sub>2</sub> -Oleoresin Capsicum. <i>Journal of Supercritical Fluids</i> , <b>2011</b> , 57, 112-119	4.2	16
103	A hydrophobic release agent containing SiO <sub>2</sub> -CH <sub>3</sub> submicron-sized particles for waterproofing mortar structures. <i>Construction and Building Materials</i> , <b>2019</b> , 199, 30-39	6.7	16
102	Chemical Degradation of Polymers (Polyurethanes, Polycarbonate and Polyamide) by Esters of H-phosphonic and Phosphoric Acids. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2013</b> , 50, 774-795	2.2	15
101	Equilibrium data of the exchange of Cu <sup>2+</sup> , Cd <sup>2+</sup> and Zn <sup>2+</sup> ions for H <sup>+</sup> on the cationic exchanger Lewatit TP-207. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2004</b> , 79, 1371-1375	3.5	15
100	Ion Exchange Equilibria in Nonaqueous and Mixed Solvents on the Cationic Exchanger Amberlite IR-120. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2001</b> , 46, 73-78	2.8	15
99	Click-ligation of coumarin to polyether polyols for polyurethane foams. <i>Polymer International</i> , <b>2013</b> , 62, 783-790	3.3	14
98	SELECTION OF A CATION EXCHANGE RESIN TO PRODUCE LACTIC ACID SOLUTIONS FROM WHEY FERMENTATION BROTHS. <i>Solvent Extraction and Ion Exchange</i> , <b>1997</b> , 15, 329-345	2.5	14
97	Minimizing the environmental impact of the regeneration process of an ion exchange bed charged with transition metals. <i>Separation and Purification Technology</i> , <b>2006</b> , 49, 167-173	8.3	14
96	Development and validation of a non-aqueous capillary electrophoresis method for the determination of imatinib, codeine and morphine in human urine. <i>Analytical Methods</i> , <b>2014</b> , 6, 3842	3.2	13
95	Equilibrium data for the separation of oleoresin capsicum using supercritical CO <sub>2</sub> : A theoretical design of a countercurrent gas extraction column. <i>Journal of Supercritical Fluids</i> , <b>2011</b> , 57, 1-8	4.2	13
94	Kinetic Study of D,L-Lactide and Glycolide Homopolymerizations by Differential Scanning Calorimetry. <i>Macromolecular Chemistry and Physics</i> , <b>2008</b> , 209, 818-824	2.6	13

93	New type of highly selective microcapsules for the removal of mercury from surface polluted waters. <i>Separation and Purification Technology</i> , <b>2015</b> , 154, 255-262	8.3	12
92	Effect of temperature on geopolymer and Portland cement composites modified with Micro-encapsulated Phase Change materials. <i>Construction and Building Materials</i> , <b>2020</b> , 252, 119055	6.7	12
91	Validation of a Mathematical Model for the Description of Hydrophilic and Hydrophobic Drug Delivery from Biodegradable Foams: Experimental and Comparison Using Indomethacin as Released Drug. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 8866-8873	3.9	12
90	Extraction of Capsicum annum Oleoresin by Maceration and Ultrasound-Assisted Extraction: Influence of Parameters and Process Modeling. <i>Journal of Food Process Engineering</i> , <b>2013</b> , 36, 343-352	2.4	12
89	Ion-Exchange Kinetics for the Removal of Potassium from Crude Polyols on Strong Acid Resins. <i>Separation Science and Technology</i> , <b>1997</b> , 32, 1805-1820	2.5	12
88	Influence of gelation step for preparing PEGBiO2 shape-stabilized phase change materials by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , <b>2019</b> , 89, 731-742	2.3	12
87	Equilibrium adsorption of polyvinylpyrrolidone and its role on thermoregulating microcapsules synthesis process. <i>Colloid and Polymer Science</i> , <b>2017</b> , 295, 783-792	2.4	11
86	Full conversion of oleic acid to estolides esters, biodiesel and choline carboxylates in three easy steps. <i>Journal of Cleaner Production</i> , <b>2018</b> , 184, 579-585	10.3	11
85	Rheological and thermal properties of suspensions of microcapsules containing phase change materials. <i>Colloid and Polymer Science</i> , <b>2018</b> , 296, 981-988	2.4	11
84	Clean preparation of tailored microcellular foams of polystyrene using nucleating agents and supercritical CO2. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 4825-4838	4.3	11
83	Kinetics and Mechanism of the Chemical Degradation of Flexible Polyurethane Foam Wastes with Dimethyl H-phosphonate with Different Catalysts. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2010</b> , 47, 983-990	2.2	11
82	Study of Different Catalysts and Initiators in Bulk Copolymerization of d,l-Lactide and Glycolide. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2009</b> , 46, 1049-1059	2.2	11
81	Purification by Liquid Extraction of Recovered Polyols. <i>Solvent Extraction and Ion Exchange</i> , <b>2006</b> , 24, 719-730	2.5	11
80	Modeling the Phase Behavior of Essential Oils in Supercritical CO2 for the Design of a Countercurrent Separation Column. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 12830-12838	2.9	10
79	High-pressure phase equilibria of Polystyrene dissolutions in Limonene in presence of CO2. <i>Journal of Supercritical Fluids</i> , <b>2013</b> , 84, 211-220	4.2	10
78	The effect of CO2 on the viscosity of polystyrene/limonene solutions. <i>Journal of Supercritical Fluids</i> , <b>2014</b> , 88, 26-37	4.2	10
77	Recycling of extruded polystyrene wastes by dissolution and supercritical CO2 technology. <i>Journal of Material Cycles and Waste Management</i> , <b>2012</b> , 14, 308	3.4	10
76	ION EXCHANGE EQUILIBRIUM OF POTASSIUM ON STRONG ACID RESINS IN POLYOL MEDIA. <i>Solvent Extraction and Ion Exchange</i> , <b>1996</b> , 14, 141-159	2.5	10



75	Application of ion exchange to purify acarbose from fermentation broths. <i>Biochemical Engineering Journal</i> , <b>2008</b> , 40, 130-137	4.2	10
74	Synthesis of aminophosphonate polyols and polyurethane foams with improved fire retardant properties. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47780	2.9	9
73	Synthesis of sulphonated microcapsules of P(StDVB) containing di(2-ethylhexyl)phosphoric acid. <i>Reactive and Functional Polymers</i> , <b>2011</b> , 71, 891-898	4.6	9
72	Removal of Alkaline Catalysts from Polyols by Ion Exchange. <i>Separation Science and Technology</i> , <b>1995</b> , 30, 949-961	2.5	9
71	Incorporation of azide groups into bio-polyols. <i>Journal of Cleaner Production</i> , <b>2016</b> , 138, 77-82	10.3	9
70	Modelling the mercury removal from polluted waters by using TOMAC microcapsules considering the metal speciation. <i>Chemical Engineering Journal</i> , <b>2018</b> , 341, 308-316	14.7	8
69	Optimizing the bulk copolymerization of D,L-lactide and glycolide by response surface methodology. <i>EXPRESS Polymer Letters</i> , <b>2013</b> , 7, 886-894	3.4	8
68	Functionalization and optimization of PLA with coumarin via click chemistry in supercritical CO <sub>2</sub> . <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2017</b> , 20, 20-26	7.6	7
67	Predicting microcapsules morphology and encapsulation efficiency by combining the spreading coefficient theory and polar surface energy component. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 554, 49-59	5.1	7
66	The effect of the dry glass transition temperature on the synthesis of paraffin microcapsules obtained by suspension-like polymerization. <i>Polymer Engineering and Science</i> , <b>2014</b> , 54, 208-214	2.3	7
65	Novel polyol initiator from polyurethane recycling residue. <i>Journal of Material Cycles and Waste Management</i> , <b>2013</b> , 16, 525	3.4	7
64	Preparation of coated thermo-regulating textiles using Rubitherm-RT31 microcapsules. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 124, n/a-n/a	2.9	7
63	Influence of Stirring Speed on the Suspension Copolymerization of Styrene with Methyl Methacrylate. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>1997</b> , 34, 1339-1351	2.2	7
62	Development of a suspension copolymerization process for bone cement production. <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 76, 814-823	2.9	7
61	Liquid-Liquid Equilibria of Nicotine + Water + Toluene at Various Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2000</b> , 45, 540-543	2.8	7
60	Production of drug-releasing biodegradable microporous scaffold impregnated with gemcitabine using a CO <sub>2</sub> foaming process. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2020</b> , 41, 101227	7.6	7
59	Synthesis of rigid polyurethane foams from phosphorylated biopolyols. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 3174-3183	5.1	7
58	Flame retardancy of rigid polyurethane foams containing thermoregulating microcapsules with phosphazene-based monomers. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 1172-1188	4.3	7

57	The accurate diffusive model for predicting the vapor pressure of phase change materials by thermogravimetric analysis. <i>Thermochimica Acta</i> , <b>2019</b> , 676, 64-70	2.9	6
56	Production of biodegradable PLGA foams processed with high pressure CO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , <b>2020</b> , 164, 104886	4.2	6
55	Cost Effective Use of a Thiosulfinate-Enriched Extract in Combination with Chemotherapy in Colon Cancer. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	6
54	Improvement of PLGA loading and release of curcumin by supercritical technology. <i>Journal of Supercritical Fluids</i> , <b>2018</b> , 141, 60-67	4.2	6
53	Reduction of the carbon footprint through polystyrene recycling: Economical evaluation. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 101, 144-151	5.5	6
52	Sustainable Polyurethanes: Chemical Recycling to Get It. <i>Handbook of Environmental Chemistry</i> , <b>2014</b> , 229-260	0.8	6
51	Production of Polyether Polyols Using Phosphate Calcium Salt. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2011</b> , 48, 569-576	2.2	6
50	Influence of the Operative Conditions on the Characteristics of Poly(D,L-lactide-co-glycolide) Synthesized in Supercritical Carbon Dioxide. <i>Macromolecular Symposia</i> , <b>2010</b> , 287, 111-118	0.8	6
49	An Improved Method for the Purification of Polyether Polyols Using Phosphoric Acid as Neutralization Agent. <i>Organic Process Research and Development</i> , <b>1999</b> , 3, 166-171	3.9	6
48	Time-dependent structural breakdown of microencapsulated phase change materials suspensions. <i>Journal of Dispersion Science and Technology</i> , <b>2019</b> , 40, 179-185	1.5	6
47	The role of radical polymerization in the production of thermoregulating microcapsules or polymers from saturated and unsaturated fatty acids. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45970	3.0	6
46	Ethylene oxide based copolymers functionalized with terminal alkynes: Structure influence on their micelle formation. <i>Reactive and Functional Polymers</i> , <b>2019</b> , 140, 14-21	4.6	5
45	Synthesis of trifunctional graft polymer polyether polyols employing a silica based gel as non-aqueous dispersant. <i>European Polymer Journal</i> , <b>2019</b> , 115, 298-312	5.2	5
44	Zidovudine insertion in tailor-made propylene and ethylene oxide copolymers. <i>Reactive and Functional Polymers</i> , <b>2016</b> , 101, 1-8	4.6	5
43	Equilibrium Treatment for Highly Selective Sulfonated Microcapsules Containing Di(2-ethylhexyl)phosphoric Acid. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 1033-1042	3.9	5
42	Determination of the high-pressure phase equilibria of Polystyrene/p-Cymene in presence of CO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , <b>2014</b> , 92, 288-298	4.2	5
41	Foaming Process from Polystyrene/p-Cymene Solutions Using CO <sub>2</sub> . <i>Chemical Engineering and Technology</i> , <b>2014</b> , 37, 1845-1853	2	5
40	Selection of a Purification Process for the Removal and Recycling of Cesium Catalyst after Polyol Production. <i>Organic Process Research and Development</i> , <b>2010</b> , 14, 199-204	3.9	5

39	Novel cast polyetherurethanes based on dispersed polymeric polyols. <i>Polymer Testing</i> , <b>2018</b> , 68, 340-349	4.5	4
38	Synthesis of Polyether Polyols using Glycerol Phosphate Disodium Salt as Initiator. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2013</b> , 50, 905-913	2.2	4
37	Fire retardant functionalized polyol by phosphonate monomer insertion. <i>Polymer International</i> , <b>2015</b> , 64, 1706-1714	3.3	4
36	Optimization of the Neutralization Process for Cesium Catalyst Removal after Polyol Production. <i>Organic Process Research and Development</i> , <b>2011</b> , 15, 660-665	3.9	4
35	Application of Supercritical Fluid Extraction for the Recovery of Aroma Compounds to be Used in Fast Aged Rum Production. <i>Food Science and Technology Research</i> , <b>2009</b> , 15, 353-360	0.8	4
34	Chemical recovery of flexible polyurethane foam wastes <b>2010</b> ,		4
33	FROM SEEDS TO BIODIESEL: EXTRACTION, ESTERIFICATION, TRANSESTERIFICATION AND BLENDING OF <i>Jatropha curcas</i> OIL. <i>Environmental Engineering and Management Journal</i> , <b>2015</b> , 14, 2855-2864	0.6	4
32	Comparison of flexible polyurethane foams properties from different polymer polyether polyols. <i>Polymer Testing</i> , <b>2021</b> , 100, 107268	4.5	4
31	Synthesis of microcapsules containing different extractant agents. <i>Journal of Microencapsulation</i> , <b>2015</b> , 32, 642-9	3.4	3
30	Development of thermoregulating microcapsules with cyclotriphosphazene as a flame retardant agent. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 251, 012120	0.4	3
29	Microencapsulation of TOMAC by suspension polymerisation: Process optimisation. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 117, 1-10	5.5	3
28	Functionalization of microcapsules for the removal of heavy metal ions. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2011</b> , 86, 437-446	3.5	3
27	Using Neural Networks or Linear Models to Predict the Characteristics of Microcapsules Containing Phase Change Materials. <i>Macromolecular Symposia</i> , <b>2010</b> , 287, 162-167	0.8	3
26	Modification of polystyrene properties by CO <sub>2</sub> : Experimental study and correlation. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 132, n/a-n/a	2.9	2
25	Sulphuric Acid as Neutralization Agent for the Removal of Caesium in the Production Process of a Commodity Polyether-Polyol. <i>Organic Process Research and Development</i> , <b>2012</b> , 16, 1404-1408	3.9	2
24	Improving the Hydrophilicity of Flexible Polyurethane Foams with Sodium Acrylate Polymer. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
23	Carbon dioxide sorption and melting behaviour of mPEG-alkyne. <i>Journal of Supercritical Fluids</i> , <b>2021</b> , 171, 105182	4.2	2
22	Effect of Foaming Formulation and Operating Pressure on Thermoregulating Polyurethane Foams. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2

21	Copper wire as a clean and efficient catalyst for click chemistry in supercritical CO <sub>2</sub> . <i>Catalysis Today</i> , <b>2020</b> , 346, 65-68	5.3	2
20	Analysis and optimization of grape seed oil epoxidation in supercritical CO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , <b>2021</b> , 168, 105070	4.2	2
19	Synthesis and Operating Optimization of the PEG Conjugate via CuAAC in scCO <sub>2</sub> . <i>ACS Omega</i> , <b>2021</b> , 6, 6163-6171	3.9	2
18	Optimization of a High Pressure CO <sub>2</sub> Antisolvent Process for the Recycling of Polystyrene Wastes. <i>Polymer-Plastics Technology and Engineering</i> , <b>2016</b> , 55, 335-342		1
17	Polystyrene Wastes: Threat or Opportunity?. <i>Handbook of Environmental Chemistry</i> , <b>2014</b> , 261-286	0.8	1
16	Ion-Exchange Calculations Using Spreadsheets. <i>The Chemical Educator</i> , <b>1999</b> , 4, 231-237		1
15	Diffusion of Shape Stabilized PEG-SiO <sub>2</sub> as a Driver for Producing Thermoregulating Facing Bricks. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
14	Glycolysis of Polyurethanes Composites Containing Nanosilica. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
13	Thermal and Mechanical Behavior of Elastomers Incorporated with Thermoregulating Microcapsules. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 5370	2.6	1
12	Measurement, correlation and modelling of high-pressure phase equilibrium of PLGA solutions in CO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , <b>2020</b> , 155, 104637	4.2	1
11	Revalorization of Grape Seed Oil for Innovative Non-Food Applications <b>2018</b> ,		1
10	Scaled-up and economic assessment approach of the split-phase glycolysis process for the recycling of flexible polyurethane foam wastes. <i>Journal of Material Cycles and Waste Management</i> , 1	3.4	1
9	DMSO as solvent on the synthesis of flame-retardant polyether polyols. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47042	2.9	0
8	Acidity Removal and Cesium Catalyst Recovery from Polyol Synthesis Process. <i>Organic Process Research and Development</i> , <b>2013</b> , 17, 792-797	3.9	0
7	Copper-Containing Catalysts for Azide-Alkyne Cycloaddition in Supercritical CO <sub>2</sub> . <i>Catalysts</i> , <b>2022</b> , 12, 194	4	0
6	The role of vinyl terminated silanes for producing highly concentrated polystyrene slurries in a single step process. <i>Colloid and Polymer Science</i> , <b>2020</b> , 298, 1685-1697	2.4	0
5	Production of thermoregulating slurries constituted by nanocapsules from melamine-formaldehyde containing n-octadecane. <i>Journal of Energy Storage</i> , <b>2022</b> , 51, 104465	7.8	0
4	Kinetics of Grape Seed Oil Epoxidation in Supercritical CO <sub>2</sub> . <i>Catalysts</i> , <b>2021</b> , 11, 1490	4	0

- 3 Different drug incorporation routes in ethylene oxide based copolymers. *Polymer International*, **2020**, 69, 387-396 3.3
- 2 Improving the thermal behaviour of bricks by incorporating shape-stabilized phase change materials. *IOP Conference Series: Materials Science and Engineering*, **2017**, 251, 012115 0.4
- 1 Metabolic Variability: Noise or New Physiological Information?. *IFMBE Proceedings*, **2007**, 1191-1195 0.2