

# Juan F Rodriguez

## List of Publications by Year in Descending Order

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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	Copper-Containing Catalysts for Azide-Alkyne Cycloaddition in Supercritical CO <sub>2</sub> . <i>Catalysts</i> , <b>2022</b> , 12, 194	4	0
199	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
198	Diffusion of Shape Stabilized PEG-SiO as a Driver for Producing Thermoregulating Facing Bricks. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
197	Improving the Hydrophilicity of Flexible Polyurethane Foams with Sodium Acrylate Polymer. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
196	Glycolysis of Polyurethanes Composites Containing Nanosilica. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
195	Carbon dioxide sorption and melting behaviour of mPEG-alkyne. <i>Journal of Supercritical Fluids</i> , <b>2021</b> , 171, 105182	4.2	2
194	Thermal and Mechanical Behavior of Elastomers Incorporated with Thermoregulating Microcapsules. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 5370	2.6	1
193	Effect of Foaming Formulation and Operating Pressure on Thermoregulating Polyurethane Foams. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2
192	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
191	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
190	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
189	Comparison of flexible polyurethane foams properties from different polymer polyether polyols. <i>Polymer Testing</i> , <b>2021</b> , 100, 107268	4.5	4
188	Kinetics of Grape Seed Oil Epoxidation in Supercritical CO <sub>2</sub> . <i>Catalysts</i> , <b>2021</b> , 11, 1490	4	0
187	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
186	Different drug incorporation routes in ethylene oxide based copolymers. <i>Polymer International</i> , <b>2020</b> , 69, 387-396	3.3	
185	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
184	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

183	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
182	Production of drug-releasing biodegradable microporous scaffold impregnated with gemcitabine using a CO2 foaming process. <i>Journal of CO2 Utilization</i> , <b>2020</b> , 41, 101227	7.6	7
181	Copper wire as a clean and efficient catalyst for click chemistry in supercritical CO2. <i>Catalysis Today</i> , <b>2020</b> , 346, 65-68	5.3	2
180	Measurement, correlation and modelling of high-pressure phase equilibrium of PLGA solutions in CO2. <i>Journal of Supercritical Fluids</i> , <b>2020</b> , 155, 104637	4.2	1
179	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
178	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
177	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
176	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
175	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
174	Thermal analysis of multi-layer walls containing geopolymers concrete and phase change materials for building applications. <i>Energy</i> , <b>2019</b> , 186, 115792	7.9	39
173	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
172	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
171	A hydrophobic release agent containing SiO2-CH3 submicron-sized particles for waterproofing mortar structures. <i>Construction and Building Materials</i> , <b>2019</b> , 199, 30-39	6.7	16
170	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
169	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
168	Synthesis of rigid polyurethane foams from phosphorylated biopolyols. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 3174-3183	5.1	7
167	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
166	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

165	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
164	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
163	Novel cast polyetherurethanes based on dispersed polymeric polyols. <i>Polymer Testing</i> , <b>2018</b> , 68, 340-349	4.5	4
162	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
161	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
160	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
159	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
158	Glycolysis of advanced polyurethanes composites containing thermoregulating microcapsules. <i>Chemical Engineering Journal</i> , <b>2018</b> , 350, 300-311	14.7	16
157	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
156	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	2.0	6
155	Revalorization of Grape Seed Oil for Innovative Non-Food Applications <b>2018</b> ,		1
154	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
153	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
152	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
151	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
150	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
149	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
148	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

147	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
146	Mechanical properties and microscale changes of geopolymers 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
145	Microencapsulation of TOMAC by suspension polymerisation: Process optimisation. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 117, 1-10	5.5	3
144	Improving the thermal behaviour of bricks by incorporating shape-stabilized phase change materials. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 251, 012115	0.4	
143	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
142	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
141	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
140	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
139	Clean preparation of tailored microcellular foams of polystyrene using nucleating agents and supercritical CO <sub>2</sub> . <i>Journal of Materials Science</i> , <b>2016</b> , 51, 4825-4838	4.3	11
138	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
137	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
136	Incorporation of azide groups into bio-polyols. <i>Journal of Cleaner Production</i> , <b>2016</b> , 138, 77-82	10.3	9
135	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
134	Glycolysis of viscoelastic flexible polyurethane foam wastes. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 116, 23-35	4.7	47
133	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
132	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
131	Synthesis of microcapsules containing different extractant agents. <i>Journal of Microencapsulation</i> , <b>2015</b> , 32, 642-9	3.4	3
130	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

129	Fire retardant functionalized polyol by phosphonate monomer insertion. <i>Polymer International</i> , <b>2015</b> , 64, 1706-1714	3.3	4
128	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
127	Preparation and characterization of polystyrene foams from limonene solutions. <i>Journal of Supercritical Fluids</i> , <b>2014</b> , 88, 92-104	4.2	22
126	Development of smart gypsum composites by incorporating thermoregulating microcapsules. <i>Energy and Buildings</i> , <b>2014</b> , 76, 631-639	7	42
125	Polystyrene Wastes: Threat or Opportunity?. <i>Handbook of Environmental Chemistry</i> , <b>2014</b> , 261-286	0.8	1
124	Sustainable Polyurethanes: Chemical Recycling to Get It. <i>Handbook of Environmental Chemistry</i> , <b>2014</b> , 229-260	0.8	6
123	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
122	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
121	Modeling the Phase Behavior of Essential Oils in Supercritical CO <sub>2</sub> for the Design of a Countercurrent Separation Column. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 12830-12838	3.9	10
120	Glycolysis of flexible polyurethane wastes containing polymeric polyols. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 109, 115-121	4.7	44
119	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
118	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
117	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
116	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
115	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
114	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
113	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
112	The effect of CO <sub>2</sub> on the viscosity of polystyrene/limonene solutions. <i>Journal of Supercritical Fluids</i> , <b>2014</b> , 88, 26-37	4.2	10

111	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
110	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
109	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
108	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
107	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
106	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
105	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
104	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
103	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
102	Novel polyol initiator from polyurethane recycling residue. <i>Journal of Material Cycles and Waste Management</i> , <b>2013</b> , 16, 525	3.4	7
101	Click-ligation of coumarin to polyether polyols for polyurethane foams. <i>Polymer International</i> , <b>2013</b> , 62, 783-790	3.3	14
100	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
99	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
98	High-pressure phase equilibria of Polystyrene dissolutions in Limonene in presence of CO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , <b>2013</b> , 84, 211-220	4.2	10
97	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
96	A novel click-chemistry approach to flame retardant polyurethanes. <i>Reactive and Functional Polymers</i> , <b>2013</b> , 73, 1207-1212	4.6	25
95	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
94	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

93	Enhancing the thermal comfort of fabrics for the footwear industry. <i>Textile Reseach Journal</i> , <b>2013</b> , 83, 1754-1763	1.7	21
92	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
91	Recycling of extruded polystyrene wastes by dissolution and supercritical CO <sub>2</sub> technology. <i>Journal of Material Cycles and Waste Management</i> , <b>2012</b> , 14, 308	3.4	10
90	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
89	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
88	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
87	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
86	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
85	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
84	Characterization of rigid polyurethane foams containing microencapsulated Rubitherm <sup>®</sup> RT27: catalyst effect. Part II. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 347-356	4.3	41
83	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
82	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
81	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
80	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
79	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
78	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
77	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
76	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



75	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
74	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
73	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
72	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
71	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
70	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
69	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
68	Characterization of rigid polyurethane foams containing microencapsulated Rubitherm <sup>®</sup> RT27. Part I. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 4462-4469	4.3	38
67	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
66	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
65	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
64	Development of thermo-regulating textiles using paraffin wax microcapsules. <i>Thermochimica Acta</i> , <b>2010</b> , 498, 16-21	2.9	186
63	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
62	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
61	Chemical recovery of flexible polyurethane foam wastes <b>2010</b> ,		4
60	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
59	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
58	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

57	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
56	Electrochemical oxidation of Acid Yellow 1 using diamond anode. <i>Journal of Applied Electrochemistry</i> , <b>2009</b> , 39, 2285-2289	2.6	57
55	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
54	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
53	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
52	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
51	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
50	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
49	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
48	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
47	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
46	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
45	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
44	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
43	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
42	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
41	Application of ion exchange to purify acarbose from fermentation broths. <i>Biochemical Engineering Journal</i> , <b>2008</b> , 40, 130-137	4.2	10
40	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

39	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
38	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
37	Microencapsulation of PCMs with a polystyrene shell. <i>Colloid and Polymer Science</i> , <b>2007</b> , 285, 1377-1385	2.4	176
36	Metabolic Variability: Noise or New Physiological Information?. <i>IFMBE Proceedings</i> , <b>2007</b> , 1191-1195	0.2	
35	Purification by Liquid Extraction of Recovered Polyols. <i>Solvent Extraction and Ion Exchange</i> , <b>2006</b> , 24, 719-730	2.5	11
34	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
33	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
32	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
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	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, 1066-1071	3.3	28

21	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
20	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
19	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
18	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
17	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
16	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
15	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
14	Ion-Exchange Calculations Using Spreadsheets. <i>The Chemical Educator</i> , <b>1999</b> , 4, 231-237		1
13	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
12	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
11	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
10	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
9	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
8	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
7	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
6	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
5	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
4	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

3	Removal of Alkaline Catalysts from Polyols by Ion Exchange. <i>Separation Science and Technology</i> , <b>1995</b> , 30, 949-961	2.5	9
2	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
1	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