

Carlos A M Afonso

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275 papers	11,974 citations	54 h-index	102 g-index
338 ext. papers	13,074 ext. citations	6.3 avg, IF	6.59 L-index

#	Paper	IF	Citations
275	5-Hydroxymethylfurfural (HMF) as a building block platform: Biological properties, synthesis and synthetic applications. <i>Green Chemistry</i> , 2011 , 13, 754	10	1186
274	Synthesis and applications of Rhodamine derivatives as fluorescent probes. <i>Chemical Society Reviews</i> , 2009 , 38, 2410-33	58.5	1047
273	Preparation and characterization of new room temperature ionic liquids. <i>Chemistry - A European Journal</i> , 2002 , 8, 3671-7	4.8	478
272	Recyclable stereoselective catalysts. <i>Chemical Reviews</i> , 2009 , 109, 418-514	68.1	385
271	Deep desulfurization of diesel fuel using ionic liquids: current status and future challenges. <i>Green Chemistry</i> , 2010 , 12, 1139	10	360
270	Dioxins sources and current remediation technologies--a review. <i>Environment International</i> , 2008 , 34, 139-53	12.9	330
269	More sustainable approaches for the synthesis of N-based heterocycles. <i>Chemical Reviews</i> , 2009 , 109, 2703-802	68.1	296
268	Toxicity assessment of various ionic liquid families towards <i>Vibrio fischeri</i> marine bacteria. <i>Ecotoxicology and Environmental Safety</i> , 2012 , 76, 162-8	7	231
267	Supported liquid membranes using ionic liquids: study of stability and transport mechanisms. <i>Journal of Membrane Science</i> , 2004 , 242, 197-209	9.6	207
266	Impact of ionic liquids in environment and humans: an overview. <i>Human and Experimental Toxicology</i> , 2010 , 29, 1038-54	3.4	206
265	Highly selective transport of organic compounds by using supported liquid membranes based on ionic liquids. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2771-3	16.4	186
264	Comparison of physicochemical properties of new ionic liquids based on imidazolium, quaternary ammonium, and guanidinium cations. <i>Chemistry - A European Journal</i> , 2007 , 13, 8478-88	4.8	180
263	Studies on the density, heat capacity, surface tension and infinite dilution diffusion with the ionic liquids [C4mim][NTf2], [C4mim][dca], [C2mim][EtOSO3] and [Aliquat][dca]. <i>Fluid Phase Equilibria</i> , 2010 , 294, 157-179	2.5	155
262	Synthesis of Chiral Cyclopentenones. <i>Chemical Reviews</i> , 2016 , 116, 5744-893	68.1	148
261	Studies on the selective transport of organic compounds by using ionic liquids as novel supported liquid membranes. <i>Chemistry - A European Journal</i> , 2002 , 8, 3865-71	4.8	147
260	Pyridinium salts: from synthesis to reactivity and applications. <i>Organic Chemistry Frontiers</i> , 2018 , 5, 453-493	5.2	142
259	Recent advances in chiral resolution through membrane-based approaches. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5293-5	16.4	132

258	Synthesis and properties of tetra-alkyl-dimethylguanidinium salts as a potential new generation of ionic liquids. <i>Green Chemistry</i> , 2003 , 5, 347-352	10	125
257	Effect of ionic liquids on human colon carcinoma HT-29 and CaCo-2 cell lines. <i>Green Chemistry</i> , 2007 , 9, 873	10	122
256	Toxicological evaluation on human colon carcinoma cell line (CaCo-2) of ionic liquids based on imidazolium, guanidinium, ammonium, phosphonium, pyridinium and pyrrolidinium cations. <i>Green Chemistry</i> , 2009 , 11, 1660	10	112
255	Ionic liquids as a recyclable reaction medium for the Baylis-Hillman reaction. <i>Tetrahedron</i> , 2001 , 57, 4189-4193	10.3	112
254	Facilitated transport of CO ₂ and SO ₂ through Supported Ionic Liquid Membranes (SILMs). <i>Desalination</i> , 2009 , 245, 485-493	10.3	102
253	Tuning the reactivity of dirhodium(II) complexes with axial N-heterocyclic carbene ligands: the arylation of aldehydes. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5750-3	16.4	101
252	Direct transformation of 5-hydroxymethylfurfural to the building blocks 2,5-dihydroxymethylfurfural (DHMF) and 5-hydroxymethyl furanoic acid (HMFA) via Cannizzaro reaction. <i>Green Chemistry</i> , 2013 , 15, 2849	10	100
251	Synthesis of cyclopentitols by ring-closing approaches. <i>Chemical Reviews</i> , 2009 , 109, 6809-57	68.1	94
250	Selective recovery of solutes from ionic liquids by pervaporation--a novel approach for purification and green processing. <i>Chemical Communications</i> , 2001 , 1622-3	5.8	90
249	A comparative study of biocatalysis in non-conventional solvents: ionic liquids, supercritical fluids and organic media. <i>Green Chemistry</i> , 2004 , 6, 466-470	10	86
248	Isolation, chemical, and biotransformation routes of labdane-type diterpenes. <i>Chemical Reviews</i> , 2011 , 111, 4418-52	68.1	85
247	Axial coordination of NHC ligands on dirhodium(II) complexes: generation of a new family of catalysts. <i>Journal of Organic Chemistry</i> , 2008 , 73, 4076-86	4.2	85
246	Rh(II)-catalyzed intramolecular C-H insertion of diazo substrates in water: scope and limitations. <i>Journal of Organic Chemistry</i> , 2006 , 71, 5489-97	4.2	85
245	Separation performance of CO ₂ through Supported Magnetic Ionic Liquid Membranes (SMILMs). <i>Separation and Purification Technology</i> , 2012 , 97, 26-33	8.3	83
244	Liquid membranes using ionic liquids: the influence of water on solute transport. <i>Journal of Membrane Science</i> , 2005 , 249, 153-162	9.6	83
243	Fine Tuning of Dirhodium(II) Complexes: Exploring the Axial Modification. <i>ACS Catalysis</i> , 2012 , 2, 370-383	13.1	81
242	Stability of supported ionic liquid membranes as studied by X-ray photoelectron spectroscopy. <i>Journal of Membrane Science</i> , 2005 , 256, 216-216	9.6	79
241	Interfacial Properties, Densities, and Contact Angles of Task Specific Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 609-615	2.8	76

240	Studies on dissolution of carbohydrates in ionic liquids and extraction from aqueous phase. <i>Green Chemistry</i> , 2009 , 11, 1406	10	75
239	Ion jelly: a tailor-made conducting material for smart electrochemical devices. <i>Chemical Communications</i> , 2008 , 5842-4	5.8	75
238	Synthesis and characterization of Magnetic Ionic Liquids (MILs) for CO ₂ separation. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 866-871	3.5	73
237	Modelling of the enantio-selective extraction of propranolol in a biphasic system. <i>Separation and Purification Technology</i> , 2007 , 53, 224-234	8.3	73
236	An integrated approach for the production and isolation of 5-hydroxymethylfurfural from carbohydrates. <i>ChemSusChem</i> , 2012 , 5, 1388-91	8.3	71
235	Simple transformation of crystalline chiral natural anions to liquid medium and their use to induce chirality. <i>Chemical Communications</i> , 2006 , 2371-2	5.8	71
234	Ionic liquid as an efficient promoting medium for two-phase nucleophilic displacement reactions. <i>Tetrahedron</i> , 2003 , 59, 789-794	2.4	70
233	Sustainable design for environment-friendly mono and dicationic cholinium-based ionic liquids. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 108, 302-10	7	69
232	Electrical impedance spectroscopy characterisation of supported ionic liquid membranes. <i>Journal of Membrane Science</i> , 2006 , 270, 42-49	9.6	69
231	Ionic liquids as a convenient new medium for the catalytic asymmetric dihydroxylation of olefins using a recoverable and reusable osmium/ligand. <i>Journal of Organic Chemistry</i> , 2004 , 69, 4381-9	4.2	68
230	Synthesis of 2,4,6-tri-substituted-1,3,5-triazines. <i>Molecules</i> , 2006 , 11, 81-102	4.8	65
229	Enhanced esterification conversion in a room temperature ionic liquid by integrated water removal with pervaporation. <i>Separation and Purification Technology</i> , 2005 , 41, 141-145	8.3	64
228	Catalytic olefin epoxidation with cyclopentadienylmolybdenum complexes in room temperature ionic liquids. <i>Tetrahedron Letters</i> , 2005 , 46, 47-52	2	63
227	Rational design of nanoparticles towards targeting antigen-presenting cells and improved T cell priming. <i>Journal of Controlled Release</i> , 2017 , 258, 182-195	11.7	62
226	Water: A Suitable Medium for the Petasis Borono-Mannich Reaction. <i>European Journal of Organic Chemistry</i> , 2009 , 2009, 1859-1863	3.2	61
225	Epoxidation of cyclooctene catalyzed by dioxomolybdenum(VI) complexes in ionic liquids. <i>Journal of Molecular Catalysis A</i> , 2004 , 218, 5-11		60
224	Thermal and photochemical properties of 4',7-dihydroxyflavylium in water-ionic liquid biphasic systems: a write-read-erase molecular switch. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 1525-7	16.4	58
223	Developments in the Photochemistry of Diazo Compounds. <i>Current Organic Chemistry</i> , 2009 , 13, 763-787	11.7	57

222	Regio- and Stereoselective Dirhodium(II)-Catalysed Intramolecular C-H Insertion Reactions of β -Diazo- β -(dialkoxyphosphoryl)acetamides and -acetates. <i>European Journal of Organic Chemistry</i> , 2003 , 2003, 3798-3810	3.2	57
221	Ionic liquids as recyclable reaction media for the tetrahydropyranylation of alcohols. <i>Tetrahedron</i> , 2001 , 57, 4405-4410	2.4	53
220	Osmium catalyzed asymmetric dihydroxylation of methyl trans-cinnamate in ionic liquids, followed by supercritical CO ₂ product recovery. <i>Journal of Organometallic Chemistry</i> , 2005 , 690, 3600-3608	2.3	52
219	One-pot enzymatic resolution and separation of sec-alcohols based on ionic acylating agents. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8178-81	16.4	50
218	Coil-Globule Transition of Poly(Dimethylacrylamide): Fluorescence and Light Scattering Study. <i>Macromolecules</i> , 2003 , 36, 8119-8129	5.5	48
217	Catalytic asymmetric dihydroxylation of olefins using a recoverable and reusable OsO ₄ (2)- in ionic liquid [bmim][PF ₆]. <i>Chemical Communications</i> , 2002 , 3036-7	5.8	46
216	Rh(II) catalysed intramolecular C-H insertion of diazo substrates in water: a simple and efficient approach to catalyst reuse. <i>Chemical Communications</i> , 2005 , 391-3	5.8	45
215	Synthesis and Applications of Stenhouse Salts and Derivatives. <i>Chemistry - A European Journal</i> , 2018 , 24, 9170-9186	4.8	43
214	Efficient catalyst reuse by simple dissolution in non-conventional media. <i>Chemical Communications</i> , 2007 , 2669-79	5.8	43
213	Toxicological evaluation of magnetic ionic liquids in human cell lines. <i>Chemosphere</i> , 2013 , 92, 100-5	8.4	42
212	Integrated chemo-enzymatic production of 5-hydroxymethylfurfural from glucose. <i>ChemSusChem</i> , 2013 , 6, 997-1000	8.3	42
211	Two-photon absorption properties of push-pull oxazolones derivatives. <i>Dyes and Pigments</i> , 2012 , 95, 713-722	4.6	40
210	Enzymatic resolution of Indinavir precursor in ionic liquids with reuse of biocatalyst and media by product sublimation. <i>Green Chemistry</i> , 2007 , 9, 734-736	10	40
209	Dirhodium(II)-catalysed C-H insertion on β -diazo- β -phosphono-acetamides in an ionic liquid. <i>Tetrahedron Letters</i> , 2003 , 44, 6571-6573	2	39
208	Viscosity Measurements of the Ionic Liquid Trihexyl(tetradecyl)phosphonium Dicyanamide [P _{6,6,6,14}][dca] Using the Vibrating Wire Technique. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1015-1025	2.8	38
207	Enantioselective addition of alkynes to imines in ionic liquids. <i>Journal of Molecular Catalysis A</i> , 2004 , 214, 161-165		38
206	Lipase catalysed mono and di-acylation of secondary alcohols with succinic anhydride in organic media and ionic liquids. <i>Green Chemistry</i> , 2008 , 10, 243-248	10	37
205	"Click and go": simple and fast folic acid conjugation. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 3181-3190	3.9	36

204	Synthesis and properties of new functionalized guanidinium based ionic liquids as non-toxic versatile organic materials. <i>Tetrahedron</i> , 2010 , 66, 8785-8794	2.4	35
203	Going Beyond the Limits of the Biorenewable Platform: Sodium Dithionite-Promoted Stabilization of 5-Hydroxymethylfurfural. <i>ChemSusChem</i> , 2018 , 11, 1612-1616	8.3	34
202	Making expensive dirhodium(II) catalysts cheaper: Rh(II) recycling methods. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 3357-78	3.9	34
201	Batch and Flow Synthesis of 5-Hydroxymethylfurfural (HMF) from Fructose as a Bioplatfrom Intermediate: An Experiment for the Organic or Analytical Laboratory. <i>Journal of Chemical Education</i> , 2013 , 90, 1373-1375	2.4	33
200	Synthesis of β -amino esters by dynamic kinetic resolution of β -haloacyl imidazolidinones. <i>Tetrahedron</i> , 2001 , 57, 6589-6605	2.4	33
199	Basicity and stability of urea deep eutectic mixtures. <i>RSC Advances</i> , 2016 , 6, 5485-5490	3.7	32
198	Exploration of quantitative structure-property relationships (QSPR) for the design of new guanidinium ionic liquids. <i>Tetrahedron</i> , 2008 , 64, 2216-2224	2.4	32
197	Immobilisation of pig liver esterase in hollow fibre membranes. <i>Enzyme and Microbial Technology</i> , 2001 , 29, 625-634	3.8	31
196	Thermophysical and magnetic studies of two paramagnetic liquid salts: [C4mim][FeCl4] and [P6 6 6 14][FeCl4]. <i>Fluid Phase Equilibria</i> , 2013 , 350, 43-50	2.5	30
195	Co-solvent effects in LLE of 1-hydroxyethyl-3-methylimidazolium based ionic liquids+2-propanol+dichloromethane or 1,2-dichloroethane. <i>Fluid Phase Equilibria</i> , 2007 , 254, 35-41	2.5	30
194	Clean osmium-catalyzed asymmetric dihydroxylation of olefins in ionic liquids and supercritical CO2 product recovery. <i>Chemical Communications</i> , 2005 , 107-9	5.8	30
193	Synthesis of substituted pyrrolidines and piperidines from endocyclic enamine derivatives. Synthesis of (β)-laburnamine. <i>Tetrahedron</i> , 2005 , 61, 1221-1244	2.4	30
192	New chiral auxiliaries for dynamic kinetic resolution: from theory to experiment. <i>Chemistry - A European Journal</i> , 2004 , 11, 330-43	4.8	30
191	Selective arylation of aldehydes with di-rhodium(II)/NHC catalysts. <i>Tetrahedron</i> , 2010 , 66, 8494-8502	2.4	29
190	A comparative study on absorption and selectivity of organic vapors by using ionic liquids based on imidazolium, quaternary ammonium, and guanidinium cations. <i>Chemistry - A European Journal</i> , 2007 , 13, 8470-7	4.8	29
189	Effect of immobilization support, water activity, and enzyme ionization state on cutinase activity and enantioselectivity in organic media. <i>Biotechnology and Bioengineering</i> , 2004 , 85, 442-9	4.9	29
188	Transformation of azido-group to n-(t-butoxycarbonyl)amino group under mild conditions via staudinger reaction. <i>Tetrahedron Letters</i> , 1995 , 36, 8857-8858	2	29
187	Ecotoxicological evaluation of magnetic ionic liquids. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 143, 315-321	7	28

186	Preparation and Characterization of Facilitated Transport Membranes Composed of Chitosan-Styrene and Chitosan-Acrylonitrile Copolymers Modified by Methylimidazolium Based Ionic Liquids for CO ₂ Separation from CH ₄ and N ₂ . <i>Membranes</i> , 2016 , 6, 1449-1459	3.8	28
185	Diazo- and transition-metal-free C-H insertion: a direct synthesis of β -lactams. <i>Chemistry - A European Journal</i> , 2015 , 21, 1449-53	4.8	27
184	Synthesis of 2,4-bifunctionalised cyclopentenones from 2-furaldehyde. <i>RSC Advances</i> , 2013 , 3, 14975	3.7	27
183	Melting behaviour of ionic salts in the presence of high pressure CO ₂ . <i>Fluid Phase Equilibria</i> , 2010 , 294, 121-130	2.5	27
182	Capture of dioxins by ionic liquids. <i>Environmental Science & Technology</i> , 2008 , 42, 2570-4	10.3	27
181	C-H carbene insertion of alpha-diazo acetamides by photolysis in non-conventional media. <i>Journal of Organic Chemistry</i> , 2008 , 73, 5926-32	4.2	27
180	Synthesis of 2,3-Dihydro-1,4-dithiins and 2-Alkylidene-1,4-dithianes by 1,2-Sulfur Migration in 2-(1-Hydroxyalkyl)-1,3-dithiolanes. <i>Synthesis</i> , 1991 , 1991, 575-580	2.9	27
179	Organocatalyzed One-Step Synthesis of Functionalized N-Alkyl-Pyridinium Salts from Biomass Derived 5-Hydroxymethylfurfural. <i>Organic Letters</i> , 2015 , 17, 5244-7	6.2	26
178	Intramolecular C-H insertion using NHC- ρ -rhodium(II) complexes: the influence of axial coordination. <i>Tetrahedron Letters</i> , 2008 , 49, 7372-7375	2	26
177	Plasma membrane permeabilisation by ionic liquids: a matter of charge. <i>Green Chemistry</i> , 2015 , 17, 4587-4598	4.598	25
176	Effect of gelatin-ionic liquid functional polymers on glucose oxidase and horseradish peroxidase kinetics. <i>Reactive and Functional Polymers</i> , 2011 , 71, 489-495	4.6	25
175	Evaluating the toxicity of biomass derived platform chemicals. <i>Green Chemistry</i> , 2016 , 18, 4733-4742	10	25
174	Synthesis of Symmetric Bis(N-alkylaniline)triarylmethanes via Friedel-Crafts-Catalyzed Reaction between Secondary Anilines and Aldehydes. <i>Journal of Organic Chemistry</i> , 2015 , 80, 10404-11	4.2	24
173	Asymmetric Intramolecular C-H Insertion of β -Diazoacetamides in Water by Dirhodium(II) Catalysts Derived from Natural Amino Acids. <i>Advanced Synthesis and Catalysis</i> , 2012 , 354, 2921-2927	5.6	24
172	Shear-induced lamellar phase of an ionic liquid crystal at room temperature. <i>Liquid Crystals</i> , 2008 , 35, 103-107	2.3	24
171	Highly Selective Transport of Organic Compounds by Using Supported Liquid Membranes Based on Ionic Liquids. <i>Angewandte Chemie</i> , 2002 , 114, 2895-2897	3.6	24
170	Preparation of enantioselective enriched β -(dialkoxyphosphoryl)lactams via intramolecular CH insertion with chiral dirhodium(II) catalysts. <i>Journal of Molecular Catalysis A</i> , 2005 , 227, 17-24		24
169	Bifunctional Cr ³⁺ modified ion exchange resins as efficient reusable catalysts for the production and isolation of 5-hydroxymethylfurfural from glucose. <i>RSC Advances</i> , 2017 , 7, 7555-7559	3.7	23

- 168 Asymmetric synthesis of trans-4,5-dioxygenated cyclopentenone derivatives by organocatalyzed rearrangement of pyranones and enzymatic dynamic kinetic resolution. *Tetrahedron*, **2011**, 67, 2779-2787^{2.4} 23
- 167 Ionic liquids as an efficient bulk membrane for the selective transport of organic compounds. *Journal of Physical Organic Chemistry*, **2008**, 21, 718-723 2.1 23
- 166 Choline-Based Ionic Liquids: Improvement of Antimicrobial Activity. *ChemistrySelect*, **2016**, 1, 5909-5916^{1.8} 22
- 165 Trienamines derived from 5-substituted furfurals: remote α -functionalization of 2,4-dienals. *Organic and Biomolecular Chemistry*, **2014**, 12, 9324-8 3.9 22
- 164 Amberlyst® -15: a reusable heterogeneous catalyst for the dehydration of tertiary alcohols. *Tetrahedron*, **2012**, 68, 7414-7421 2.4 22
- 163 Magnetic ionic plastic crystal: choline[FeCl₄]. *Physical Chemistry Chemical Physics*, **2013**, 15, 12724-33 3.6 22
- 162 Chiral Guanidinium Ionic Liquids for Asymmetric Dihydroxylation of Olefins with Recycling of the Catalytic System by Supercritical CO₂. *ACS Catalysis*, **2011**, 1, 1408-1413 13.1 22
- 161 Rationalising diastereoselection in the dynamic kinetic resolution of β -haloacyl imidazolidinones. *Tetrahedron Letters*, **1998**, 39, 2203-2206 2 22
- 160 A direct intramolecular asymmetric catalytic aldol cyclodehydration of meso-3,4-disubstituted-1,6-dialdehydes. *Tetrahedron*, **2005**, 61, 267-273 2.4 22
- 159 Synthesis of 3-aminopyrrolidines and piperidines from endocyclic enamine derivatives. *Tetrahedron Letters*, **2001**, 42, 7007-7010 2 22
- 158 Understanding the ion jelly conductivity mechanism. *Journal of Physical Chemistry B*, **2012**, 116, 2664-76 3.4 21
- 157 Brønsted Acid-Catalyzed Dihydroxylation of Olefins in Aqueous Medium. *Advanced Synthesis and Catalysis*, **2011**, 353, 2920-2926 5.6 21
- 156 Copper(II) Triflate As a Reusable Catalyst for the Synthesis of trans-4,5-Diamino-cyclopent-2-enones in Water. *Journal of Organic Chemistry*, **2018**, 83, 7509-7513 4.2 20
- 155 Asymmetric alkene epoxidation by Mn(III)salen catalyst in ionic liquids. *Inorganica Chimica Acta*, **2010**, 363, 3321-3329 2.7 20
- 154 New dirhodium complex with activity towards colorectal cancer. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 3413-5 2.9 20
- 153 Rationalising diastereoselection in the dynamic kinetic resolution of β -haloacyl imidazolidinones: a theoretical approach. *Tetrahedron*, **2001**, 57, 6607-6614 2.4 20
- 152 Synthesis of trans-4,5-diaminocyclopent-2-enones from furfural catalyzed by Er(III) immobilized on silica. *Tetrahedron Letters*, **2017**, 58, 302-304 2 19
- 151 Supported ionic liquid membranes for removal of dioxins from high-temperature vapor streams. *Environmental Science & Technology*, **2012**, 46, 462-8 10.3 19

150	Selective extraction of natural products with benign solvents and recovery by organophilic pervaporation: fractionation of D-limonene from orange peels. <i>Green Chemistry</i> , 2010 , 12, 1990	10	19
149	Pot-Economy Autooxidative Condensation of 2-Aryl-2-lithio-1,3-dithianes. <i>Journal of Organic Chemistry</i> , 2018 , 83, 1948-1958	4.2	18
148	N-Heterocyclic Carbene Dirhodium(II) Complexes as Catalysts for Allylic and Benzylic Oxidations. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 1471-1478	3.2	18
147	Fluorescence of fullerene C70 in ionic liquids. <i>Chemical Physics Letters</i> , 2010 , 497, 43-47	2.5	18
146	Solubility of carbon dioxide in ammonium based CO ₂ -induced ionic liquids. <i>Fluid Phase Equilibria</i> , 2013 , 354, 19-23	2.5	17
145	Preyssler Heteropolyacids in the Self-Etherification of 5-Hydroxymethylfurfural to 5,5'-[Oxybis(methylene)]bis-2-furfural Under Mild Reaction Conditions. <i>ChemCatChem</i> , 2017 , 9, 3322-3329	5.2	16
144	Flow-Assisted Synthesis of Bicyclic Aziridines via Photochemical Transformation of Pyridinium Salts. <i>Organic Process Research and Development</i> , 2018 , 22, 551-556	3.9	16
143	Ionic Acylating Agents for the Enzymatic Resolution of sec-Alcohols in Ionic Liquids. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 6938-6943	3.2	16
142	Application of nanofiltration to re-use the Sharpless asymmetric dihydroxylation catalytic system. <i>Tetrahedron: Asymmetry</i> , 2007 , 18, 1637-1641		16
141	Microwave accelerated facile synthesis of fused polynuclear hydrocarbons in dry media by intramolecular Friedel-Crafts alkylation. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 514-23	3.9	16
140	NHC catalysed direct addition of HMF to diazo compounds: synthesis of acyl hydrazones with antitumor activity. <i>RSC Advances</i> , 2014 , 4, 29352-29356	3.7	15
139	Unsaturated oxazolones as nonlinear fluorophores. <i>Dyes and Pigments</i> , 2013 , 99, 642-652	4.6	15
138	Solvent-free synthesis of melamines under microwave irradiation. <i>Green Chemistry</i> , 2004 , 6, 183	10	15
137	New low viscous cholinium-based magnetic ionic liquids. <i>New Journal of Chemistry</i> , 2016 , 40, 3124-3129	3.6	14
136	Integrated desulfurization of diesel by combination of metal-free oxidation and product removal by molecularly imprinted polymers. <i>RSC Advances</i> , 2014 , 4, 54948-54952	3.7	14
135	Electrospinning of Ion Jelly fibers. <i>Materials Letters</i> , 2012 , 83, 161-164	3.3	14
134	Studies on the Transformation of Azido-Group to N-(t-Butoxycarbonyl)amino Group via Staudinger Reaction. <i>Synthetic Communications</i> , 1998 , 28, 261-276	1.7	14
133	Synthesis of a Biologically Active Oxazol-5-(4H)-one via an Erlenmeyer-Plöchl Reaction. <i>Journal of Chemical Education</i> , 2015 , 92, 1543-1546	2.4	13

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- ¹³¹ Creating Diversity from Biomass: A Tandem Bio/Metal-Catalysis towards Chemoselective Synthesis of Densely Substituted Furans. *ChemSusChem*, **2019**, 12, 4629-4635 8.3 13
- ¹³⁰ Intramolecular C-H insertion catalyzed by dirhodium(II) complexes using CO₂ as the reaction media. *Green Chemistry Letters and Reviews*, **2012**, 5, 211-240 4.7 13
- ¹²⁹ Fortschritte in der Enantiomerentrennung durch den Einsatz von Membranen. *Angewandte Chemie*, **2004**, 116, 5405-5407 3.6 13
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- ¹²⁵ Anticancer properties of the abietane diterpene 6,7-dehydroroleanone obtained by optimized extraction. *Future Medicinal Chemistry*, **2018**, 10, 1177-1189 4.1 12
- ¹²⁴ Hydraulic pressures generated in magnetic ionic liquids by paramagnetic fluid/air interfaces inside of uniform tangential magnetic fields. *Journal of Colloid and Interface Science*, **2014**, 428, 16-23 9.3 12
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