

Marta C Corvo

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43
papers

651
citations

15
h-index

24
g-index

47
ext. papers

812
ext. citations

6.2
avg, IF

4.08
L-index

#	Paper	IF	Citations
43	A Rational Approach to CO ₂ Capture by Imidazolium Ionic Liquids: Tuning CO ₂ Solubility by Cation Alkyl Branching. <i>ChemSusChem</i> , 2015 , 8, 1935-46	8.3	57
42	Solvation of carbon dioxide in [C ₄ mim][BF ₄] and [C(4)mim][PF ₆] ionic liquids revealed by high-pressure NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13024-7	16.4	50
41	Efficient heterogeneous polyoxometalate-hybrid catalysts for the oxidative desulfurization of fuels. <i>Catalysis Communications</i> , 2018 , 104, 1-8	3.2	49
40	Carbon Dioxide Capture by Aqueous Ionic Liquid Solutions. <i>ChemSusChem</i> , 2017 , 10, 4927-4933	8.3	45
39	Binding of ibuprofen, ketorolac, and diclofenac to COX-1 and COX-2 studied by saturation transfer difference NMR. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 8555-62	8.3	45
38	Asymmetric synthesis of N-aryl aziridines. <i>Tetrahedron: Asymmetry</i> , 2002 , 12, 3349-3365		44
37	A radical approach towards indolizidine 167B. <i>Tetrahedron Letters</i> , 2002 , 43, 455-458	2	35
36	Charged pullulan derivatives for the development of nanocarriers by polyelectrolyte complexation. <i>International Journal of Biological Macromolecules</i> , 2016 , 86, 129-38	7.9	31
35	Revisiting Ionic Liquid Structure-Property Relationship: A Critical Analysis. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	29
34	Desulfurization process conciliating heterogeneous oxidation and liquid extraction: Organic solvent or centrifugation/water?. <i>Applied Catalysis A: General</i> , 2017 , 542, 359-367	5.1	27
33	The impact of available experimental data on the prediction of ¹ H NMR chemical shifts by neural networks. <i>Journal of Chemical Information and Computer Sciences</i> , 2004 , 44, 946-9		23
32	Synthesis and characterization of Locust Bean Gum derivatives and their application in the production of nanoparticles. <i>Carbohydrate Polymers</i> , 2018 , 181, 974-985	10.3	21
31	Solvation of Carbon Dioxide in [C ₄ mim][BF ₄] and [C ₄ mim][PF ₆] Ionic Liquids Revealed by High-Pressure NMR Spectroscopy. <i>Angewandte Chemie</i> , 2013 , 125, 13262-13265	3.6	19
30	Correspondence on "Preorganization and Cooperation for Highly Efficient and Reversible Capture of Low-Concentration CO by Ionic Liquids". <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 382-385	16.4	17
29	Cyclodextrin solubilization and complexation of antiretroviral drug lopinavir: In silico prediction; Effects of derivatization, molar ratio and preparation method. <i>Carbohydrate Polymers</i> , 2020 , 227, 115287	10.3	17
28	Advanced porous materials from poly(ionic liquid)s: Challenges, applications and opportunities. <i>Chemical Engineering Journal</i> , 2021 , 411, 128528	14.7	15
27	Polyoxomolybdate based ionic-liquids as active catalysts for oxidative desulfurization of simulated diesel. <i>Polyhedron</i> , 2019 , 170, 762-770	2.7	12

26	Application of HR-MAS NMR in the solid-phase synthesis of a glycopeptide using Sieber amide resin. <i>Magnetic Resonance in Chemistry</i> , 2010 , 48, 323-30	2.1	11
25	Waterborne polyurethane/Fe ₃ O ₄ -synthetic talc composites: synthesis, characterization, and magnetic properties. <i>Polymer Bulletin</i> , 2018 , 75, 1915-1930	2.4	11
24	Designing silica xerogels containing RTIL for CO capture and CO/CH separation: Influence of ILs anion, cation and cation side alkyl chain length and ramification. <i>Journal of Environmental Management</i> , 2020 , 268, 110340	7.9	9
23	NMR methodology for a rational selection of ionic liquids: extracting polyphenols. <i>Separation and Purification Technology</i> , 2019 , 221, 29-37	8.3	7
22	Enhancement of CO ₂ /N ₂ selectivity and CO ₂ uptake by tuning concentration and chemical structure of imidazolium-based ILs immobilized in mesoporous silica. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103740	6.8	7
21	Developments in the Reactivity of 2-Methylimidazolium Salts. <i>Journal of Organic Chemistry</i> , 2017 , 82, 6232-6241	4.2	6
20	Affinity analysis and application of dipeptides derived from l-tyrosine in plasmid purification. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015 , 1006, 47-58	3.2	6
19	¹ H NMR Relaxometry and Diffusometry Study of Magnetic and Nonmagnetic Ionic Liquid-Based Solutions: Cosolvent and Temperature Effects. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 11472-11484	3.4	6
18	Ibuprofen incorporated into unmodified and modified mesoporous silica: From matrix synthesis to drug release. <i>Microporous and Mesoporous Materials</i> , 2021 , 310, 110541	5.3	6
17	Handling CO ₂ sorption mechanism in PIL@IL composites. <i>Journal of CO₂ Utilization</i> , 2020 , 41, 101225	7.6	5
16	L-tryptophan and dipeptide derivatives for supercoiled plasmid DNA purification. <i>International Journal of Biological Macromolecules</i> , 2016 , 87, 385-96	7.9	5
15	On the influence of imidazolium ionic liquids on cellulose derived polymers. <i>European Polymer Journal</i> , 2019 , 114, 353-360	5.2	5
14	A top-down chemo-enzymatic approach towards N-acetylglucosamine-N-acetylmuramic oligosaccharides: Chitosan as a reliable template. <i>Carbohydrate Polymers</i> , 2019 , 224, 115133	10.3	4
13	Mesoporous Silica vs. Organosilica Composites to Desulfurize Diesel. <i>Frontiers in Chemistry</i> , 2019 , 7, 7565		4
12	Naphthalene amine support for G-quadruplex isolation. <i>Analyst, The</i> , 2017 , 142, 2982-2994	5	3
11	Synthesis of gamma-amino acid analogues from natural alpha-amino acids by a radical pathway. <i>Amino Acids</i> , 2007 , 32, 243-6	3.5	3
10	Molecular Interactions in Ionic Liquids: The NMR Contribution towards Tailored Solvents 2020 ,		3
9	Synthesis and characterization of novel induced porous PHEMA@IL composites. <i>Materials Chemistry and Physics</i> , 2013 , 138, 11-16	4.4	2

8	Effect of carbonic anhydrase on CO ₂ absorption promoted by choline hydroxide using supported liquid membranes. <i>Separation and Purification Technology</i> , 2022 , 280, 119921	8.3	2
7	DMSO/IL solvent systems for cellulose dissolution: Binary or ternary mixtures?. <i>Journal of Molecular Liquids</i> , 2022 , 345, 117810	6	2
6	Molecular order and dynamics of water in hybrid cellulose acetate/silica asymmetric membranes. <i>Molecular Physics</i> , 2019 , 117, 975-982	1.7	2
5	Influence of chain length of prepolymers in permanent memory effect of PDLC assessed by solid-state NMR. <i>Liquid Crystals</i> , 2020 , 47, 522-530	2.3	2
4	Tuning the ¹ H NMR Paramagnetic Relaxation Enhancement and Local Order of [Aliquat]-Based Systems Mixed with DMSO. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
3	Cleaning fungal stains on paper with hydrogels: The effect of pH control. <i>International Biodeterioration and Biodegradation</i> , 2020 , 152, 104996	4.8	1
2	Porous Ionic Liquid Derived Materials for CO ₂ Emissions Mitigation. <i>Engineering Materials</i> , 2022 , 613-659.	0.4	0
1	Correspondence on Preorganization and Cooperation for Highly Efficient and Reversible Capture of Low-Concentration CO ₂ by Ionic Liquids. <i>Angewandte Chemie</i> , 2018 , 131, 388	3.6	