Elisabet Pires

List of Publications by Year
in descending order

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Version: 2024-02-01

		186265	254184
67	1,994	28	43
papers	citations	h-index	g-index

76	76	76	2233
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Glycerol based solvents: synthesis, properties and applications. Green Chemistry, 2014, 16, 1007-1033.	9.0	229
2	Enantioselective catalysis with chiral complexes immobilized on nanostructured supports. Chemical Society Reviews, 2009, 38, 695-706.	38.1	134
3	Parametric study of the hydrothermal carbonization of cellulose and effect of acidic conditions. Carbon, 2017, 123, 421-432.	10.3	88
4	The influence of alkaline metals on the strong basicity of Mgâ€“Al mixed oxides: The case of transesterification reactions. Applied Catalysis A: General, 2009, 364, 87-94.	4.3	80
5	Catalytic performance and deactivation of sulfonated hydrothermal carbon in the esterification of fatty acids: Comparison with sulfonic solids of different nature. Journal of Catalysis, 2015, 324, 107-118.	6.2	66
6	Glycerol ketals: Synthesis and profits in biodiesel blends. Fuel, 2012, 94, 614-616.	6.4	61
7	New insights into the strength and accessibility of acid sites of sulfonated hydrothermal carbon. Carbon, 2014, 77, 1157-1167.	10.3	55
8	Comparison of the catalytic properties of protonic zeolites and exchanged clays for Diels-Alder synthesis. Applied Catalysis A: General, 1993, 101, 253-267.	4.3	50
9	C₁â€Symmetric Versus C₂â€Symmetric Ligands in Enantioselective Copperâ€“Bis(oxazoline)â€Catalyzed Cyclopropanation Reactions. Chemistry - A European Journal, 2007, 13, 8830-8839.	3.3	50
10	First Asymmetric Dielsâ^'Alder Reactions of Furan and Chiral Acrylates. Usefulness of Acid Heterogeneous Catalysts. Journal of Organic Chemistry, 1996, 61, 9479-9482.	3.2	47
11	Silica and alumina modified by Lewis acids as catalysts in Diels-Alder reactions of carbonyl-containing dienophiles. Tetrahedron, 1993, 49, 4073-4084.	1.9	46
12	Surface confinement effects in enantioselective catalysis: Design of new heterogeneous chiral catalysts based on C1-symmetric bisoxazolines and their application in cyclopropanation reactions. Journal of Catalysis, 2008, 258, 378-385.	6.2	44
13	QM/MM Modeling of Enantioselective Pyboxâ€“Ruthenium- and Boxâ€“Copper-Catalyzed Cyclopropanation Reactions: Scope, Performance, and Applications to Ligand Design. Chemistry - A European Journal, 2007, 13, 4064-4073.	3.3	43
14	Fatty acid derivatives and their use as CFPP additives in biodiesel. Bioresource Technology, 2011, 102, 2590-2594.	9.6	42
15	Synthetic Transformations for the Valorization of Fatty Acid Derivatives. Synthesis, 2017, 49, 1444-1460.	2.3	42
16	The basicity of mixed oxides and the influence of alkaline metals: The case of transesterification reactions. Applied Catalysis A: General, 2010, 387, 67-74.	4.3	40
17	Unveiling the mechanism of hydrotropy: evidence for water-mediated aggregation of hydrotropes around the solute. Chemical Communications, 2020, 56, 7143-7146.	4.1	40
18	Predicting the Enantioselectivity of the Copperâ€Catalysed Cyclopropanation of Alkenes by Using Quantitative Quadrantâ€Diagram Representations of the Catalysts. Chemistry - A European Journal, 2012, 18, 14026-14036.	3.3	39

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19	Impact of sulfonated hydrothermal carbon texture and surface chemistry on its catalytic performance in esterification reaction. Catalysis Today, 2015, 249, 153-160.	4.4	38
20	Biobased catalyst in biorefinery processes: sulphonated hydrothermal carbon for glycerol esterification. Catalysis Science and Technology, 2015, 5, 2897-2903.	4.1	38
21	Glycerol as a source of designer solvents: physicochemical properties of low melting mixtures containing glycerol ethers and ammonium salts. Physical Chemistry Chemical Physics, 2017, 19, 28302-28312.	2.8	37
22	Ecotoxicity and QSAR studies of glycerol ethers in Daphnia magna. Chemosphere, 2017, 183, 277-285.	8.2	36
23	Ecotoxicity studies of glycerol ethers in Vibrio fischeri: checking the environmental impact of glycerol-derived solvents. Green Chemistry, 2015, 17, 4326-4333.	9.0	35
24	Glycerol Ethers as Hydrotropes and Their Use to Enhance the Solubility of Phenolic Acids in Water. ACS Sustainable Chemistry and Engineering, 2020, 8, 5742-5749.	6.7	35
25	Silica and alumina modified by Lewis acids as catalysts in Diels-Alder reactions of chiral acrylates. Tetrahedron: Asymmetry, 1993, 4, 621-624.	1.8	33
26	Effect of clay calcination on clay-catalysed Diels-Alder reactions of cyclopentadiene with methyl and (â˜')-menthyl acrylates. Tetrahedron, 1992, 48, 6467-6476.	1.9	32
27	The use of heterogeneous catalysis in Diels-Alder reactions of N-acetyl-Î±,Î²-dehydroalaninates. Tetrahedron, 1995, 51, 1295-1300.	1.9	31
28	Beyond reuse in chiral immobilized catalysis: The bis(oxazoline) case. Catalysis Today, 2009, 140, 44-50.	4.4	31
29	Glycerol-Derived Solvents: Synthesis and Properties of Symmetric Glyceryl Diethers. ACS Sustainable Chemistry and Engineering, 2019, 7, 13004-13014.	6.7	27
30	A highly efficient, green and recoverable catalytic system for the epoxidation of fatty esters and biodiesel with H2O2. Applied Catalysis A: General, 2012, 425-426, 91-96.	4.3	25
31	Synthesis of 3-alkoxypropan-1,2-diols from glycidol: experimental and theoretical studies for the optimization of the synthesis of glycerol derived solvents. Green Chemistry, 2017, 19, 4176-4185.	9.0	24
32	Diels-Alder reactions of Î±-amino acid precursors by heterogeneous catalysis: Thermal vs. microwave activation. Applied Catalysis A: General, 1995, 131, 159-166.	4.3	20
33	ZnCl2, ZnI2 and TiCl4 supported on silica gel as catalysts for the Diels-Alder reactions of furan. Journal of Molecular Catalysis A, 1997, 123, 43-47.	4.8	20
34	Evaluation of several catalytic systems for the epoxidation of methyl oleate using H2O2 as oxidant. Catalysis Today, 2012, 195, 76-82.	4.4	20
35	Diels-Alder reactions of (E)-2-phenyl-4-[(S)-2,2-dimethyl-1,3-dioxolan-4-ylmethylen]-5(4H)-oxazolone with heterogeneous catalysts. Tetrahedron: Asymmetry, 1996, 7, 2391-2398.	1.8	19
36	Synthesis of non-symmetric bisoxazoline compounds. An easy way to reach tailored chiral ligands. Tetrahedron: Asymmetry, 2006, 17, 2270-2275.	1.8	19

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37	Steps Forward toward the Substitution of Conventional Solvents in the Heckâ€“Mizoroki Coupling Reaction: Glycerol-Derived Ethers and Deep Eutectic Solvents as Reaction Media. ACS Sustainable Chemistry and Engineering, 2020, 8, 13076-13084.	6.7	19
38	An Efficient One-Pot Synthesis of Phenol Derivatives by Ring Opening and Rearrangement of Diels-Alder Cycloadducts of Substituted Furans Using Heterogeneous Catalysis and Microwave Irradiation. Synlett, 2004, 2004, 1259-1263.	1.8	18
39	(Z)- and (E)-2-phenyl-4-benzylidene-5(4H)-oxazolones as dienophiles. Improved selectivity by the use of heterogeneous catalysts. Tetrahedron, 1995, 51, 9217-9222.	1.9	17
40	Importance of pyrolysis temperature and pressure in the concentration of polycyclic aromatic hydrocarbons in wood waste-derived biochars. Journal of Analytical and Applied Pyrolysis, 2021, 159, 105337.	5.5	17
41	Design of Glycerol-Based Solvents for the Immobilization of Palladium Nanocatalysts: A Hydrogenation Study. ACS Sustainable Chemistry and Engineering, 2021, 9, 6875-6885.	6.7	16
42	Sulfonated Hydrothermal Carbons from Cellulose and Glucose as Catalysts for Glycerol Ketalization. Catalysts, 2019, 9, 804.	3.5	15
43	Comparative ecotoxicity study of glycerol-biobased solvents. Environmental Chemistry, 2017, 14, 370.	1.5	13
44	Study of interactions between BrÃ¸nsted acids and triethylphosphine oxide in solution by ³¹P NMR: evidence for 2â€‰:â€‰1 species. Physical Chemistry Chemical Physics, 2020, 22, 24351-24358.	2.8	13
45	AlPO4catalyzed Diels-Alder reaction of cyclopentadiene with (-)-menthyl acrylate. Influence of catalyst surface properties. Catalysis Letters, 1996, 36, 215-221.	2.6	12
46	Heterogeneous activation of Diels-Alder reactions of non-chiral and chiral (E)-2-cyanocinnamates. Applied Catalysis A: General, 1996, 136, 113-123.	4.3	12
47	On the Nature of the Lewis Acid Sites of Aluminum-Modified Silica. A Theoretical and Experimental Study. Journal of Physical Chemistry B, 1999, 103, 1664-1670.	2.6	12
48	Comparison of AlEt2Cl and ZnCl2 supported on silica gel as catalysts of Diels-Alder reactions. Influence of the nature of the dienophile. Catalysis Letters, 1996, 37, 261-266.	2.6	11
49	Relationship between solvent effects and catalyst activation method in a clay-catalysed Dielsâ€”Alder reaction. Journal of Molecular Catalysis, 1993, 79, 305-310.	1.2	10
50	An Efficient and General One-Pot Method for the Synthesis of Chiral Bis(oxazoline) and Pyridine Bis(oxazoline) Ligands. Synlett, 2005, 2005, 2321-2324.	1.8	9
51	Optimization of the Synthesis of Glycerol Derived Monoethers from Glycidol by Means of Heterogeneous Acid Catalysis. Molecules, 2018, 23, 2887.	3.8	9
52	Selective oxidation of alkyl and aryl glyceryl monoethers catalysed by an engineered and immobilised glycerol dehydrogenase. Chemical Science, 2020, 11, 12009-12020.	7.4	9
53	Are deep eutectic solvents a real alternative to ionic liquids in metal-catalysed reactions?. Current Opinion in Green and Sustainable Chemistry, 2022, 35, 100610.	5.9	9
54	Diels-Alder Condensation of Methyl and (-)-Menthyl Acrylates with Cyclopentadiene over Zeolites and Cation Exchanged Clays. Studies in Surface Science and Catalysis, 1994, , 391-398.	1.5	8

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55	Ecotoxicological study of bio-based deep eutectic solvents formed by glycerol derivatives in two aquatic biomodels. Green Chemistry, 2022, 24, 5228-5241.	9.0	8
56	K10 Montmorillonites as catalysts in Diels-Alder reactions: influence of the exchanged cation. Studies in Surface Science and Catalysis, 1993, , 495-502.	1.5	6
57	Heterogeneous catalysis of asymmetric Dielsâ€"Alder reactions. Journal of Molecular Catalysis, 1994, 89, 159-164.	1.2	6
58	Heterogenization on Inorganic Supports: Methods and Applications. Catalysis By Metal Complexes, 2010, , 65-121.	0.6	6
59	Structure and relative Lewis acidity of the catalytic sites of an aluminium-modified silica gel A theoretical study. Journal of Molecular Catalysis A, 1997, 119, 95-103.	4.8	5
60	Readily Scalable Methodology for the Synthesis of Nonsymmetric Glyceryl Diethers by a Tandem Acid-/Base-Catalyzed Process. Organic Process Research and Development, 2020, 24, 154-162.	2.7	5
61	Carbon materials functionalized with sulfonic groups as acid catalysts. , 2021, , 255-298.		4
62	Enzymatic synthesis of novel fructosylated compounds by Ffase from Schwanniomyces occidentalis in green solvents. RSC Advances, 2021, 11, 24312-24319.	3.6	3
63	Title is missing!. Catalysis Letters, 1998, 51, 235-239.	2.6	2
64	4.20 Addition of Ketocarbenes to Alkenes, Alkynes, and Aromatic Systems. , 2014, , 1081-1280.		2
65	High-resolution NMR studies of methyl acrylate adsorbed on silica and TiCl4-modified silica. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 1981-1985.	1.7	1
66	New insights into the interaction of triethylphosphine oxide with silica surface: exchange between different surface species. Physical Chemistry Chemical Physics, 2022, 24, 16755-16761.	2.8	1
67	An Efficient One-Pot Synthesis of Phenol Derivatives by Ring Opening and Rearrangement of Dielsâ€"Alder Cycloadducts of Substituted Furans Using Heterogeneous Catalysis and Microwave Irradiation.. ChemInform, 2004, 35, no.	0.0	0