Karine De Oliveira Vigier

List of Publications by Year
in descending order

76 papers	6,393 citations	159585 30 h-index	79698 73 g-index
82 all docs	82 docs citations	82 times ranked	7265 citing authors

#	Article	IF	Citations
1	Assisted catalysis: An overview of alternative activation technologies for the conversion of biomass. , 2022, , 365-393.		3
2	Heterogeneously-catalyzed competitive hydroarylation/hydromination of norbornene with aniline in the presence of AquivionÂ® ionomer. Molecular Catalysis, 2022, 525, 112368.	2.0	1
3	A Combined Experimentalâ€“Theoretical Study on Dielsâ€Alder Reaction with Bioâ€Based Furfural: Towards Renewable Aromatics. ChemSusChem, 2021, 14, 313-323.	6.8	23
4	Hydrogenation of Sugars to Sugar Alcohols in the Presence of a Recyclable Ru/Al₂O₃ Catalyst Commercially Available. ACS Sustainable Chemistry and Engineering, 2021, 9, 9240-9247.	6.7	26
5	Pivotal role of H₂ in the isomerisation of isosorbide over a Ru/C catalyst. Catalysis Science and Technology, 2021, 11, 7973-7981.	4.1	2
6	Selective Acid-Catalyzed Hydroarylation of Nonactivated Alkenes with Aniline Assisted by Hexafluoroisopropanol. Journal of Organic Chemistry, 2021, 86, 17896-17905.	3.2	6
7	Insights on the unique electro-catalytic behavior of PtBi/C materials. Electrochimica Acta, 2020, 329, 135161.	5.2	18
8	Modeling of Ethylene Glycol Production from Glucose in a Semiâ€Continuous Reactor. Chemical Engineering and Technology, 2020, 43, 950-963.	1.5	1
9	Oxidative cyclization of linoleic acid in the presence of hydrogen peroxide and phosphotungstic acid. Molecular Catalysis, 2020, 493, 111084.	2.0	1
10	One-pot synthesis of isosorbide from cellulose or lignocellulosic biomass: a challenge?. Beilstein Journal of Organic Chemistry, 2020, 16, 1713-1721.	2.2	19
11	Selective radical depolymerization of cellulose to glucose induced by high frequency ultrasound. Chemical Science, 2020, 11, 2664-2669.	7.4	16
12	Synthesis of Furfuryl Alcohol from Furfural: A Comparison between Batch and Continuous Flow Reactors. Energies, 2020, 13, 1002.	3.1	25
13	Conversion of furfural to tetrahydrofuran-derived secondary amines under mild conditions. Green Chemistry, 2020, 22, 1832-1836.	9.0	16
14	Direct Catalytic Conversion of Furfural to Furanâ€derived Amines in the Presence of Ruâ€based Catalyst. ChemSusChem, 2020, 13, 1699-1704.	6.8	25
15	Selective Hydrogenation of Xylose to Xylitol over Co/SiO₂ Catalysts. ChemCatChem, 2020, 12, 1973-1978.	3.7	23
16	Hydroconversion of 5â€Hydroxymethylfurfural to 2,5â€Dimethylfuran and 2,5â€Dimethyltetrahydrofuran over Nonâ€promoted Ni/SBAâ€15. ChemCatChem, 2020, 12, 2050-2059.	3.7	41
17	Selective dihydroxylation of methyl oleate to methyl-9,10-dihydroxystearate in the presence of a recyclable tungsten based catalyst and hydrogen peroxide. New Journal of Chemistry, 2020, 44, 11507-11512.	2.8	4
18	Selective Synthesis of THF-Derived Amines from Biomass-Derived Carbonyl Compounds. ACS Catalysis, 2019, 9, 8893-8902.	11.2	30

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19	Catalytic oxidative dehydrogenation of malic acid to oxaloacetic acid. Green Chemistry, 2019, 21, 4604-4608.	9.0	6
20	Synergistic Effect of High-Frequency Ultrasound with Cupric Oxide Catalyst Resulting in a Selectivity Switch in Glucose Oxidation under Argon. Journal of the American Chemical Society, 2019, 141, 14772-14779.	13.7	77
21	Impact of shaping Aquivion PFSA on its catalytic performances. Catalysis Science and Technology, 2019, 9, 1231-1237.	4.1	6
22	Synthesis of functionalized tetrahydrofuran derivatives from 2,5-dimethylfuran through cascade reactions. Green Chemistry, 2019, 21, 2601-2609.	9.0	4
23	Catalytic glycosylation of glucose with alkyl alcohols over sulfonated mesoporous carbons. Molecular Catalysis, 2019, 468, 125-129.	2.0	16
24	Organic Acid-Regulated Lewis Acidity for Selective Catalytic Hydroxymethylfurfural Production from Rice Waste: An Experimentalâ€“Computational Study. ACS Sustainable Chemistry and Engineering, 2019, 7, 1437-1446.	6.7	28
25	Selective Conversion of Concentrated Feeds of Furfuryl Alcohol to Alkyl Levulinates Catalyzed by Metal Triflates. ACS Sustainable Chemistry and Engineering, 2018, 6, 4405-4411.	6.7	21
26	Synthesis of Renewable metaâ€Xylylenediamine from Biomassâ€Derived Furfural. Angewandte Chemie - International Edition, 2018, 57, 10510-10514.	13.8	76
27	Unveiling the role of choline chloride in furfural synthesis from highly concentrated feeds of xylose. Green Chemistry, 2018, 20, 5104-5110.	9.0	24
28	Innentitelbild: Synthesis of Renewable metaâ€Xylylenediamine from Biomassâ€Derived Furfural (Angew. Chem. 33/2018). Angewandte Chemie, 2018, 130, 10538-10538.	2.0	0
29	Catalystâ€Free Synthesis of Alkylpolyglycosides Induced by Highâ€Frequency Ultrasound. ChemSusChem, 2018, 11, 2673-2676.	6.8	12
30	Mechanocatalytic Depolymerization of Cellulose With Perfluorinated Sulfonic Acid Ionomers. Frontiers in Chemistry, 2018, 6, 74.	3.6	19
31	Synthesis of Renewable meta â€Xylylenediamine from Biomassâ€Derived Furfural. Angewandte Chemie, 2018, 130, 10670-10674.	2.0	27
32	Catalystâ€Free Synthesis of Alkylpolyglycosides Induced by Highâ€Frequency Ultrasound. ChemSusChem, 2018, 11, 2642-2642.	6.8	0
33	Sustainable Biofuels and Chemicals Production Using Ionic Liquids. , 2018, , 287-331.		0
34	Amphiphilic dipyridinium-phosphotungstate as an efficient and recyclable catalyst for triphasic fatty ester epoxidation and oxidative cleavage with hydrogen peroxide. Green Chemistry, 2017, 19, 2855-2862.	9.0	26
35	Carbon Dioxide as a Traceless Caramelization Promotor: Preparation of Prebiotic Difructose Dianhydrides (DFAs)-Enriched Caramels from <scp>d</scp>-Fructose. Journal of Agricultural and Food Chemistry, 2017, 65, 6093-6099.	5.2	12
36	High Catalytic Performance of Aquivion PFSA, a Reusable Solid Perfluorosulfonic Acid Polymer, in the Biphasic Glycosylation of Glucose with Fatty Alcohols. ACS Catalysis, 2017, 7, 2990-2997.	11.2	37

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37	Elucidation of the role of betaine hydrochloride in glycerol esterification: towards bio-based ionic building blocks. Green Chemistry, 2017, 19, 5647-5652.	9.0	12
38	Polar aprotic solvent-water mixture as the medium for catalytic production of hydroxymethylfurfural (HMF) from bread waste. Bioresource Technology, 2017, 245, 456-462.	9.6	71
39	Conversion of Cellulose into Amphiphilic Alkyl Glycosides Catalyzed by Aquivion, a Perfluorosulfonic Acid Polymer. ChemSusChem, 2017, 10, 3604-3610.	6.8	32
40	Synthesis of maleic and fumaric acids from furfural in the presence of betaine hydrochloride and hydrogen peroxide. Green Chemistry, 2017, 19, 98-101.	9.0	73
41	Catalytic Conversion of Carbohydrates to Furanic Derivatives in the Presence of Choline Chloride. Catalysts, 2017, 7, 218.	3.5	18
42	Depolymerization of cellulose to processable glucans by non-thermal technologies. Green Chemistry, 2016, 18, 3903-3913.	9.0	59
43	Reductive Amination of Aldehyde Ester from Vegetable Oils to Produce Amino Ester in the Presence of Anhydrous Ammonia. ChemistrySelect, 2016, 1, 2004-2008.	1.5	4
44	Heterogeneously-acid catalyzed oligomerization of glycerol over recyclable superacid Aquivion Â® PFSA. Journal of Molecular Catalysis A, 2016, 422, 84-88.	4.8	22
45	Fast and solvent free polymerization of carbohydrates induced by non-thermal atmospheric plasma. Green Chemistry, 2016, 18, 3013-3019.	9.0	16
46	Acidâ€Assisted Ball Milling of Cellulose as an Efficient Pretreatment Process for the Production of Butyl Glycosides. ChemSusChem, 2015, 8, 3263-3269.	6.8	55
47	Homogeneously-acid catalyzed oligomerization of glycerol. Green Chemistry, 2015, 17, 4307-4314.	9.0	23
48	A choline chloride/DMSO solvent for the direct synthesis of diformylfuran from carbohydrates in the presence of heteropolyacids. Green Chemistry, 2015, 17, 4459-4464.	9.0	57
49	Selective Hydrogenation of Furfural to Furfuryl Alcohol in the Presence of a Recyclable Cobalt/SBAâ€15 Catalyst. ChemSusChem, 2015, 8, 1885-1891.	6.8	161
50	Contribution of Deep Eutectic Solvents for Biomass Processing: Opportunities, Challenges, and Limitations. ChemCatChem, 2015, 7, 1250-1260.	3.7	180
51	Catalytic Dehydration of Carbohydrates Suspended in Organic Solvents Promoted by AlCl₃/SiO₂ Coated with Choline Chloride. ChemSusChem, 2015, 8, 269-274.	6.8	31
52	Catalytic dehydration of fructose to HMF over sulfonic acid functionalized periodic mesoporous organosilicas: role of the acid density. Catalysis Science and Technology, 2014, 4, 2235-2240.	4.1	62
53	Sustainable route to methyl-9-hydroxononanoate (polymer precursor) by oxidative cleavage of fatty acid methyl ester from rapeseed oil. Green Chemistry, 2014, 16, 96-101.	9.0	31
54	Selective Depolymerization of Cellulose to Low Molecular Weight Cello-Oligomers Catalyzed by BetaÃ¯ne Hydrochloride. ACS Sustainable Chemistry and Engineering, 2014, 2, 2683-2689.	6.7	12

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55	Combination of Pd/C and Amberlyst-15 in a single reactor for the acid/hydrogenating catalytic conversion of carbohydrates to 5-hydroxy-2,5-hexanedione. Green Chemistry, 2014, 16, 4110-4114.	9.0	98
56	Transition of cellulose crystalline structure in biodegradable mixtures of renewably-sourced levulinate alkyl ammonium ionic liquids, Î³-valerolactone and water. Green Chemistry, 2014, 16, 2463-2471.	9.0	52
57	Sonochemistry: What Potential for Conversion of Lignocellulosic Biomass into Platform Chemicals?. ChemSusChem, 2014, 7, 2774-2787.	6.8	64
58	Conversion of wheat straw to furfural and levulinic acid in a concentrated aqueous solution of betaÃ¯ne hydrochloride. RSC Advances, 2014, 4, 28836.	3.6	20
59	Palladium/Carbon Dioxide Cooperative Catalysis for the Production of Diketone Derivatives from Carbohydrates. ChemSusChem, 2014, 7, 2089-2093.	6.8	81
60	Choline Chloride-Derived ILs for Activation and Conversion of Biomass. Biofuels and Biorefineries, 2014, , 61-87.	0.5	3
61	Selectivity enhancement in the aqueous acid-catalyzed conversion of glucose to 5-hydroxymethylfurfural induced by choline chloride. Green Chemistry, 2013, 15, 3205.	9.0	74
62	Pretreatment of microcrystalline cellulose by ultrasounds: effect of particle size in the heterogeneously-catalyzed hydrolysis of cellulose to glucose. Green Chemistry, 2013, 15, 963.	9.0	88
63	Catalytic etherification of glycerol with short chain alkyl alcohols in the presence of Lewis acids. Green Chemistry, 2013, 15, 901.	9.0	56
64	Activation of Microcrystalline Cellulose in a CO₂â€Based Switchable System. ChemSusChem, 2013, 6, 593-596.	6.8	67
65	10 Catalytic conversion of biosourced raw materials: homogeneous catalysis. , 2012, , 231-262.		7
66	High efficiency CoSn/ZnO catalysts for the hydrogenation of methyl oleate. Catalysis Today, 2012, 195, 71-75.	4.4	14
67	High efficiency of superacid HFâ€“SbF5 for the selective decrystallizationâ€“depolymerization of cellulose to glucose. Organic and Biomolecular Chemistry, 2012, 10, 2521.	2.8	10
68	Deep eutectic solvents: syntheses, properties and applications. Chemical Society Reviews, 2012, 41, 7108.	38.1	3,591
69	Conversion of fructose and inulin to 5-hydroxymethylfurfural in sustainable betaine hydrochloride-based media. Green Chemistry, 2012, 14, 285-289.	9.0	114
70	Combination of ball-milling and non-thermal atmospheric plasma as physical treatments for the saccharification of microcrystalline cellulose. Green Chemistry, 2012, 14, 2212.	9.0	59
71	Dehydration of Highly Concentrated Solutions of Fructose to 5â€Hydroxymethylfurfural in a Cheap and Sustainable Choline Chloride/Carbon Dioxide System. ChemSusChem, 2012, 5, 1223-1226.	6.8	78
72	Green and Inexpensive Cholineâ€Derived Solvents for Cellulose Decrystallization. Chemistry - A European Journal, 2012, 18, 1043-1046.	3.3	110

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73	Depolymerization of Cellulose Assisted by a Nonthermal Atmospheric Plasma. Angewandte Chemie - International Edition, 2011, 50, 8964-8967.	13.8	85
74	Acidâ€Catalyzed Dehydration of Fructose and Inulin with Glycerol or Glycerol Carbonate as Renewably Sourced Coâ€Solvent. ChemSusChem, 2010, 3, 1304-1309.	6.8	66
75	Heterogeneously-Catalyzed Conversion of Carbohydrates. Topics in Current Chemistry, 2010, 295, 63-92.	4.0	36
76	Cisâ€“trans isomerization of methyl cis-9-octadecenoate in the presence of cobalt tin catalysts. Journal of Molecular Catalysis A, 2009, 306, 102-106.	4.8	9