David Martin Alonso

List of Publications by Year in descending order

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58 papers 13,340 citations

50170 46 h-index 62 g-index

65 all docs

65 docs citations

65 times ranked 10128 citing authors

#	Article	IF	CITATIONS
1	Catalytic conversion of biomass to biofuels. Green Chemistry, 2010, 12, 1493.	4.6	2,017
2	Bimetallic catalysts for upgrading of biomass to fuels and chemicals. Chemical Society Reviews, 2012, 41, 8075.	18.7	1,167
3	Integrated Catalytic Conversion of \hat{I}^3 -Valerolactone to Liquid Alkenes for Transportation Fuels. Science, 2010, 327, 1110-1114.	6.0	988
4	Gamma-valerolactone, a sustainable platform molecule derived from lignocellulosic biomass. Green Chemistry, 2013, 15, 584.	4.6	868
5	Biodiesel from sunflower oil by using activated calcium oxide. Applied Catalysis B: Environmental, 2007, 73, 317-326.	10.8	677
6	Nonenzymatic Sugar Production from Biomass Using Biomass-Derived Î ³ -Valerolactone. Science, 2014, 343, 277-280.	6.0	607
7	Targeted chemical upgrading of lignocellulosic biomass to platform molecules. Green Chemistry, 2014, 16, 4816-4838.	4.6	399
8	Conversion of Hemicellulose into Furfural Using Solid Acid Catalysts in γâ€Valerolactone. Angewandte Chemie - International Edition, 2013, 52, 1270-1274.	7.2	397
9	Solvent Effects in Acid atalyzed Biomass Conversion Reactions. Angewandte Chemie - International Edition, 2014, 53, 11872-11875.	7.2	371
10	Increasing the revenue from lignocellulosic biomass: Maximizing feedstock utilization. Science Advances, 2017, 3, e1603301.	4.7	352
11	Production of renewable jet fuel range alkanes and commodity chemicals from integrated catalytic processing of biomass. Energy and Environmental Science, 2014, 7, 1500-1523.	15.6	342
12	Integrated conversion of hemicellulose and cellulose from lignocellulosic biomass. Energy and Environmental Science, 2013, 6, 76-80.	15.6	332
13	Production of levulinic acid and gamma-valerolactone (GVL) from cellulose using GVL as a solvent in biphasic systems. Energy and Environmental Science, 2012, 5, 8199.	15.6	316
14	Production and upgrading of 5-hydroxymethylfurfural using heterogeneous catalysts and biomass-derived solvents. Green Chemistry, 2013, 15, 85-90.	4.6	310
15	Toward biomass-derived renewable plastics: Production of 2,5-furandicarboxylic acid from fructose. Science Advances, 2018, 4, eaap9722.	4.7	276
16	A roadmap for conversion of lignocellulosic biomass to chemicals and fuels. Current Opinion in Chemical Engineering, 2012, 1, 218-224.	3.8	273
17	Direct conversion of cellulose to levulinic acid and gamma-valerolactone using solid acid catalysts. Catalysis Science and Technology, 2013, 3, 927-931.	2.1	213
18	Leaching and homogeneous contribution in liquid phase reaction catalysed by solids: The case of triglycerides methanolysis using CaO. Applied Catalysis B: Environmental, 2009, 89, 265-272.	10.8	199

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19	RuSn bimetallic catalysts for selective hydrogenation of levulinic acid to \hat{I}^3 -valerolactone. Applied Catalysis B: Environmental, 2012, 117-118, 321-329.	10.8	196
20	³ -Valerolactone Ring-Opening and Decarboxylation over SiO ₂ /Al ₂ O ₃ in the Presence of Water. Langmuir, 2010, 26, 16291-16298.	1.6	169
21	Reactive Extraction of Levulinate Esters and Conversion to γâ€Valerolactone for Production of Liquid Fuels. ChemSusChem, 2011, 4, 357-361.	3.6	161
22	Production of liquid hydrocarbon transportation fuels by oligomerization of biomass-derived C9 alkenes. Green Chemistry, 2010, 12, 992.	4.6	150
23	Potassium leaching during triglyceride transesterification using K/\hat{I}^3 -Al2O3 catalysts. Catalysis Communications, 2007, 8, 2074-2080.	1.6	149
24	Effects of \hat{I}^3 -valerolactone in hydrolysis of lignocellulosic biomass to monosaccharides. Green Chemistry, 2014, 16, 4659-4662.	4.6	149
25	Heterogeneous transesterification processes by using CaO supported on zinc oxide as basic catalysts. Catalysis Today, 2010, 149, 281-287.	2.2	140
26	Advances in catalytic routes for the production of carboxylic acids from biomass: a step forward for sustainable polymers. Chemical Society Reviews, 2020, 49, 5704-5771.	18.7	134
27	Production of Biofuels from Cellulose and Corn Stover Using Alkylphenol Solvents. ChemSusChem, 2011, 4, 1078-1081.	3.6	130
28	A strategy for the simultaneous catalytic conversion of hemicellulose and cellulose from lignocellulosic biomass to liquid transportation fuels. Green Chemistry, 2014, 16, 653-661.	4.6	124
29	Selective Production of Levulinic Acid from Furfuryl Alcohol in THF Solvent Systems over H-ZSM-5. ACS Catalysis, 2015, 5, 3354-3359.	5.5	116
30	Production of Furfural from Lignocellulosic Biomass Using Beta Zeolite and Biomass-Derived Solvent. Topics in Catalysis, 2013, 56, 1775-1781.	1.3	111
31	Selective Conversion of Cellulose to Hydroxymethylfurfural in Polar Aprotic Solvents. ChemCatChem, 2014, 6, 2229-2234.	1.8	110
32	Interconversion between \hat{I}^3 -valerolactone and pentenoic acid combined with decarboxylation to form butene over silica/alumina. Journal of Catalysis, 2011, 281, 290-299.	3.1	102
33	Biodiesel preparation using Li/CaO catalysts: Activation process and homogeneous contribution. Catalysis Today, 2009, 143, 167-171.	2.2	91
34	A lignocellulosic ethanol strategy via nonenzymatic sugar production: Process synthesis and analysis. Bioresource Technology, 2015, 182, 258-266.	4.8	91
35	Surface chemical promotion of Ca oxide catalysts in biodiesel production reaction by the addition of monoglycerides, diglycerides and glycerol. Journal of Catalysis, 2010, 276, 229-236.	3.1	79
36	A sulfuric acid management strategy for the production of liquid hydrocarbon fuels via catalytic conversion of biomass-derived levulinic acid. Energy and Environmental Science, 2012, 5, 9690.	15.6	72

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37	Transesterification of Triglycerides by CaO: Increase of the Reaction Rate by Biodiesel Addition. Energy & Ener	2.5	71
38	A highly selective route to linear alpha olefins from biomass-derived lactones and unsaturated acids. Chemical Communications, 2013, 49, 7040.	2.2	69
39	Enhanced Furfural Yields from Xylose Dehydration in the γâ€ V alerolactone/Water Solvent System at Elevated Temperatures. ChemSusChem, 2018, 11, 2321-2331.	3.6	69
40	Deactivation of organosulfonic acid functionalized silica catalysts during biodiesel synthesis. Applied Catalysis B: Environmental, 2010, 95, 279-287.	10.8	66
41	New catalytic strategies for \hat{l}_{\pm} , \hat{l} %-diols production from lignocellulosic biomass. Faraday Discussions, 2017, 202, 247-267.	1.6	61
42	Improving economics of lignocellulosic biofuels: An integrated strategy for coproducing 1,5-pentanediol and ethanol. Applied Energy, 2018, 213, 585-594.	5.1	60
43	Production of butene oligomers as transportation fuels using butene for esterification of levulinic acid from lignocellulosic biomass: process synthesis and technoeconomic evaluation. Green Chemistry, 2012, 14, 3289.	4.6	59
44	Improving the production of maleic acid from biomass: TS-1 catalysed aqueous phase oxidation of furfural in the presence of \hat{I}^3 -valerolactone. Green Chemistry, 2018, 20, 2845-2856.	4.6	58
45	Polarity of the acid chain of esters and transesterification activity of acid catalysts. Journal of Catalysis, 2009, 262, 18-26.	3.1	55
46	Relevance of the physicochemical properties of CaO catalysts for the methanolysis of triglycerides to obtain biodiesel. Catalysis Today, 2010, 158, 114-120.	2.2	47
47	Effects of Water on the Copper atalyzed Conversion of Hydroxymethylfurfural in Tetrahydrofuran. ChemSusChem, 2015, 8, 3983-3986.	3.6	47
48	Process systems engineering studies for the synthesis of catalytic biomass-to-fuels strategies. Computers and Chemical Engineering, 2015, 81, 57-69.	2.0	45
49	GVL pulping facilitates nanocellulose production from woody biomass. Green Chemistry, 2019, 21, 5316-5325.	4.6	33
50	A Solventâ€Free Synthesis of Ligninâ€Derived Renewable Carbon with Tunable Porosity for Supercapacitor Electrodes. ChemSusChem, 2018, 11, 2953-2959.	3.6	32
51	Catalytic transfer hydrogenation of maleic acid with stoichiometric amounts of formic acid in aqueous phase: paving the way for more sustainable succinic acid production. Green Chemistry, 2020, 22, 1859-1872.	4.6	32
52	Solventâ€Enabled Nonenyzmatic Sugar Production from Biomass for Chemical and Biological Upgrading. ChemSusChem, 2015, 8, 1317-1322.	3.6	30
53	Activation of Amberlyst-70 for Alkene Oligomerization in Hydrophobic Media. Topics in Catalysis, 2011, 54, 447-457.	1.3	15
54	Enhanced Furfural Yields from Xylose Dehydration in the \hat{l}^3 -Valerolactone/Water Solvent System at Elevated Temperatures. ChemSusChem, 2018, 11, 2266-2266.	3.6	4

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55	Loss of NO storage capacity of Pt–Ba/Al2O3 catalysts due to incorporation of phosphorous. Catalysis Communications, 2008, 9, 327-332.	1.6	3
56	Past, Current Situation and Future Technologies of Furfural Production. Sustainable Chemistry Series, 2018, , 31-52.	0.1	3
57	Synthesis of catalytic biomass-to-fuels strategies. Computer Aided Chemical Engineering, 2014, 34, 615-620.	0.3	1
58	Levulinic Acid and $\langle i \rangle \hat{I}^3 \langle i \rangle$ -Valerolactone. Sustainable Chemistry Series, 2018, , 169-190.	0.1	0