Jose Iglesias

List of Publications by Year
in descending order

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73	3,749	126907	128289
papers	citations	33 h-index	60 g-index

76	76	76	4419
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Heterogeneous acid catalysts for biodiesel production: current status and future challenges. Green Chemistry, 2009, 11, 1285.	9.0	463
2	Biomass as renewable feedstock in standard refinery units. Feasibility, opportunities and challenges. Energy and Environmental Science, 2012, 5, 7393.	30.8	393
3	Biodiesel production from crude palm oil using sulfonic acid-modified mesostructured catalysts. Chemical Engineering Journal, 2010, 161, 323-331.	12.7	175
4	Supercritical Fluid Extraction of a Nonionic Surfactant Template from SBA-15 Materials and Consequences on the Porous Structure. Langmuir, 2003, 19, 3966-3973.	3.5	146
5	Progress in the design of zeolite catalysts for biomass conversion into biofuels and bio-based chemicals. Catalysis Reviews - Science and Engineering, 2018, 60, 1-70.	12.9	145
6	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.	38.1	134
7	Efficient conversion of levulinic acid into alkyl levulinates catalyzed by sulfonic mesostructured silicas. Applied Catalysis A: General, 2013, 466, 116-122.	4.3	132
8	Biodiesel Production with Heterogeneous Sulfonic Acid-Functionalized Mesostructured Catalysts. Energy & Fuels, 2009, 23, 539-547.	5.1	102
9	Conformal sulfated zirconia monolayer catalysts for the one-pot synthesis of ethyl levulinate from glucose. Chemical Communications, 2014, 50, 11742-11745.	4.1	88
10	Efficient production of 5-ethoxymethylfurfural from fructose by sulfonic mesostructured silica using DMSO as co-solvent. Catalysis Today, 2017, 279, 305-316.	4.4	84
11	Zr-SBA-15 acid catalyst: Optimization of the synthesis and reaction conditions for biodiesel production from low-grade oils and fats. Catalysis Today, 2012, 195, 44-53.	4.4	79
12	One-pot cascade transformation of xylose into Î³-valerolactone (GVL) over bifunctional BrÃ¸nstedâ€“Lewis Zrâ€“Al-beta zeolite. Green Chemistry, 2016, 18, 5777-5781.	9.0	76
13	ZrO₂-SBA-15 catalysts for the one-pot cascade synthesis of GVL from furfural. Catalysis Science and Technology, 2018, 8, 4485-4493.	4.1	69
14	Zr-SBA-15 as an efficient acid catalyst for FAME production from crude palm oil. Catalysis Today, 2011, 167, 46-55.	4.4	68
15	Zr-SBA-15 Lewis Acid Catalyst: Activity in Meerwein Ponndorf Verley Reduction. Catalysts, 2015, 5, 1911-1927.	3.5	63
16	Synthesis and catalytic activity of organicâ€“inorganic hybrid Ti-SBA-15 materials. Journal of Materials Chemistry, 2007, 17, 377-385.	6.7	62
17	Oxidation of lignocellulosic platform molecules to value-added chemicals using heterogeneous catalytic technologies. Catalysis Science and Technology, 2020, 10, 2721-2757.	4.1	60
18	Municipal sewage sludge to biodiesel by simultaneous extraction and conversion of lipids. Energy Conversion and Management, 2015, 103, 111-118.	9.2	58

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19	Biological removal of pharmaceutical compounds using white-rot fungi with concomitant FAME production of the residual biomass. Journal of Environmental Management, 2016, 180, 228-237.	7.8	58
20	Efficient one-pot production of Î³-valerolactone from xylose over Zr-Al-Beta zeolite: rational optimization of catalyst synthesis and reaction conditions. Green Chemistry, 2017, 19, 5114-5121.	9.0	57
21	Direct synthesis of titanium-substituted mesostructured materials using non-ionic surfactants and titanocene dichloride. Microporous and Mesoporous Materials, 2005, 86, 364-373.	4.4	54
22	Production of biodiesel from waste cooking oil in a continuous packed bed reactor with an agglomerated Zr-SBA-15/bentonite catalyst. Applied Catalysis B: Environmental, 2014, 145, 197-204.	20.2	53
23	Preparation of titanium molecular species supported on mesostructured silica by different grafting methods. Journal of Molecular Catalysis A, 2002, 182-183, 215-225.	4.8	48
24	Rational Optimization of Reaction Conditions for the One-Pot Transformation of Furfural to Î³-Valerolactone over Zrâ€“Al-Beta Zeolite: Toward the Efficient Utilization of Biomass. Industrial & Engineering Chemistry Research, 2018, 57, 11592-11599.	3.7	47
25	Catalytic upgrading of furfuryl alcohol to bio-products: Catalysts screening and kinetic analysis. Applied Catalysis A: General, 2017, 537, 74-82.	4.3	45
26	Dehydration of Xylose to Furfural in Alcohol Media in the Presence of Solid Acid Catalysts. ChemCatChem, 2016, 8, 2089-2099.	3.7	44
27	Low-grade oils and fats: Effect of several impurities on biodiesel production over sulfonic acid heterogeneous catalysts. Bioresource Technology, 2011, 102, 9571-9578.	9.6	43
28	Synthesis, characterization and catalytic activity of highly dispersed Mo-SBA-15. Applied Catalysis A: General, 2007, 331, 84-94.	4.3	42
29	Synthesis of Chiral Periodic Mesoporous Silicas Incorporating Tartrate Derivatives in the Framework and Their Use in Asymmetric Sulfoxidation. Chemistry of Materials, 2008, 20, 2964-2971.	6.7	42
30	Zrâ€Containing Hybrid Organicâ€“Inorganic Mesoporous Materials: Hydrophobic Acid Catalysts for Biodiesel Production.. ChemCatChem, 2013, 5, 994-1001.	3.7	40
31	Dehydration of sorbitol to isosorbide in melted phase with propyl-sulfonic functionalized SBA-15: Influence of catalyst hydrophobization. Applied Catalysis A: General, 2017, 531, 151-160.	4.3	40
32	Synthesis of Snâ€“silicalite from hydrothermal conversion of SiO2â€“SnO2 xerogels. Microporous and Mesoporous Materials, 2009, 119, 176-185.	4.4	36
33	Facile one-pot approach to the synthesis of chiral periodic mesoporous organosilicas SBA-15-type materials. Journal of Catalysis, 2010, 274, 221-227.	6.2	34
34	Sulfonic acid heterogeneous catalysts for dehydration of C6-monosaccharides to 5-hydroxymethylfurfural in dimethyl sulfoxide. Chinese Journal of Catalysis, 2014, 35, 644-655.	14.0	34
35	From levulinic acid biorefineries to Î³-valerolactone (GVL) using a bi-functional Zr-Al-Beta catalyst. Reaction Chemistry and Engineering, 2019, 4, 1834-1843.	3.7	32
36	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.	9.0	32

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37	Zr-USY zeolite: Efficient catalyst for the transformation of xylose into bio-products. Catalysis Today, 2018, 304, 80-88.	4.4	29
38	Production of Sorbitol via Catalytic Transfer Hydrogenation of Glucose. Applied Sciences (Switzerland), 2020, 10, 1843.	2.5	29
39	Highly Ti-loaded MCM-41: Effect of the metal precursor and loading on the titanium distribution and on the catalytic activity in different oxidation processes. Microporous and Mesoporous Materials, 2010, 132, 112-120.	4.4	27
40	Biodiesel Production Over Arenesulfonic Acid-Modified Mesostructured Catalysts: Optimization of Reaction Parameters Using Response Surface Methodology. Topics in Catalysis, 2010, 53, 795-804.	2.8	26
41	Continuous production of biodiesel from low grade feedstock in presence of Zr-SBA-15: Catalyst performance and resistance against deactivation. Catalysis Today, 2014, 234, 174-181.	4.4	25
42	Transformation of Glucose into Sorbitol on Raney Nickel Catalysts in the Absence of Molecular Hydrogen: Sugar Disproportionation vs Catalytic Hydrogen Transfer. Topics in Catalysis, 2019, 62, 570-578.	2.8	25
43	Glycerol valorization: conversion to lactic acid by heterogeneous catalysis and separation by ion exchange chromatography. Biofuels, Bioproducts and Biorefining, 2020, 14, 357-370.	3.7	25
44	Snâ€“Al-USY for the valorization of glucose to methyl lactate: switching from hydrolytic to retro-aldol activity by alkaline ion exchange. Green Chemistry, 2019, 21, 5876-5885.	9.0	24
45	Life-cycle sustainability of biomass-derived sorbitol: Proposing technological alternatives for improving the environmental profile of a bio-refinery platform molecule. Journal of Cleaner Production, 2020, 250, 119568.	9.3	24
46	Understanding the role of Al/Zr ratio in Zr-Al-Beta zeolite: Towards the one-pot production of GVL from glucose. Catalysis Today, 2021, 367, 228-238.	4.4	24
47	Catalytic Transfer Hydrogenation of Glucose to Sorbitol with Raney Ni Catalysts Using Biomass-Derived Diols as Hydrogen Donors. ACS Sustainable Chemistry and Engineering, 2021, 9, 14857-14867.	6.7	24
48	Stable Continuous Production of Î³-Valerolactone from Biomass-Derived Levulinic Acid over Zrâ€“Al-Beta Zeolite Catalyst. Catalysts, 2020, 10, 678.	3.5	23
49	Acid-catalyzed production of biodiesel over arenesulfonic SBA-15: Insights into the role of water in the reaction network. Renewable Energy, 2015, 75, 425-432.	8.9	21
50	Direct synthesis of organically modified Ti-SBA-15 materials. Journal of Molecular Catalysis A, 2008, 291, 75-84.	4.8	20
51	Comparative Life Cycle Assessment of Glucose Production from Maize Starch and Woody Biomass Residues as a Feedstock. Applied Sciences (Switzerland), 2020, 10, 2946.	2.5	19
52	Agglomeration of Ti-SBA-15 with clays for liquid phase olefin epoxidation in a continuous fixed bed reactor. Chemical Engineering Journal, 2008, 139, 631-641.	12.7	18
53	Ru-ZrO2-SBA-15 as efficient and robust catalyst for the aqueous phase hydrogenation of glucose to sorbitol. Molecular Catalysis, 2020, 484, 110802.	2.0	18
54	New insights in the deactivation of sulfonic modified SBA-15 catalysts for biodiesel production from low-grade oleaginous feedstock. Applied Catalysis A: General, 2014, 488, 111-118.	4.3	17

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55	Maximizing the Accessibility of Active Species in Weakly Acidic Zrâ€SBAâ€15 Materials. ChemCatChem, 2012, 4, 379-386.	3.7	16
56	Synthesis and characterisation of (hydroxypropyl)-2-aminomethyl pyridine containing hybrid polymerâ€“silica SBA-15 materials supporting Mo(vi) centres and their use as heterogeneous catalysts for oct-1-ene epoxidation. Journal of Materials Chemistry, 2011, 21, 6725.	6.7	15
57	Isosorbide Production from Sorbitol over Heterogeneous Acid Catalysts: Screening and Kinetic Study. Topics in Catalysis, 2017, 60, 1027-1039.	2.8	14
58	Temperature Effect on Pretreatment of the Activated Carbon Support (Pt/AC and Pd/AC) for Glycerin into Lactic Acid. Industrial & Engineering Chemistry Research, 2020, 59, 14643-14657.	3.7	13
59	Mo(VI) Complexes Immobilized on SBA-15 as an Efficient Catalyst for 1-Octene Epoxidation. Catalysts, 2017, 7, 215.	3.5	12
60	Sustainable Catalytic Conversion of Biomass for the Production of Biofuels and Bioproducts. Catalysts, 2020, 10, 581.	3.5	12
61	Synthesis and characterization of SBA-15 materials functionalized with olefinic groups and subsequent modification through oxidation procedures. Microporous and Mesoporous Materials, 2010, 131, 321-330.	4.4	11
62	Modification of chiral dimethyl tartrate through transesterification: Immobilization on POSS and enantioselectivity reversal in sharpless asymmetric epoxidation. Chirality, 2010, 22, 675-683.	2.6	10
63	Efficient Conversion of Glucose to Methyl Lactate with Sn-USY: Retro-aldol Activity Promotion by Controlled Ion Exchange. ACS Sustainable Chemistry and Engineering, 2022, 10, 8885-8896.	6.7	9
64	Application of the microsoft excel solver tool in the optimization of distillation sequences problems. Computer Applications in Engineering Education, 2020, 28, 304-313.	3.4	8
65	Integrated Environmental and Exergoeconomic Analysis of BiomassâĐerived Maleic Anhydride. Advanced Sustainable Systems, 2022, 6, .	5.3	6
66	Biodiesel from waste oils and fats. , 2012, , 154-178.		5
67	Elucidating the roles of acid site nature and strength in the direct conversion of levulinic acid into ethyl valerate: the case of Zr-modified beta zeolite-supported Pd catalysts. Sustainable Energy and Fuels, 2022, 6, 1164-1174.	4.9	5
68	Direct synthesis and post-oxidation of SBA-15 and MCM-41 functionalized with butenyl groups. Studies in Surface Science and Catalysis, 2005, 158, 485-492.	1.5	4
69	Tight control of cellulose depolymerization towards glucose in organic electrolyte solutions. Biomass and Bioenergy, 2014, 62, 158-165.	5.7	4
70	Synthesis of titanium containing periodic mesoporous organosilica. Studies in Surface Science and Catalysis, 2007, , 450-455.	1.5	3
71	Novel titanoceneâ€“tartrate complexes as catalysts for the asymmetric epoxidation of allylic alcohols. Catalysis Communications, 2007, 8, 655-660.	3.3	3
72	Chemical routes for the conversion of cellulosic platformÂmolecules into high-energy-density biofuels. , 2016, , 359-388.		1

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73	Determination of the optimal distillation sequence of a ternary mixture incorporating heat integration by means of Microsoft Excel Solver. Computer Applications in Engineering Education, 2021, 29, 1691.	3.4	0