Jose M Hidalgo

List of Publications by Year
in descending order

51 papers	1,126 citations	623188 14 h-index	395343 33 g-index
54 all docs	54 docs citations	54 times ranked	1672 citing authors

#	Article	IF	Citations
1	Biofuels: a technological perspective. Energy and Environmental Science, 2008, 1, 542.	15.6	521
2	Sustainable preparation of a novel glycerol-free biofuel by using pig pancreatic lipase: Partial 1,3-regiospecific alcoholysis of sunflower oil. Process Biochemistry, 2009, 44, 334-342.	1.8	78
3	Influence of the acidâ€“base properties in Si-MCM-41 and B-MCM-41 mesoporous materials on the activity and selectivity of É›-caprolactam synthesis. Applied Catalysis A: General, 2006, 299, 224-234.	2.2	48
4	A comprehensive study of reaction parameters in the enzymatic production of novel biofuels integrating glycerol into their composition. Bioresource Technology, 2010, 101, 6657-6662.	4.8	34
5	(V)/Hydrotalcite, (V)/Al2O3, (V)/TiO2 and (V)/SBA-15 catalysts for the partial oxidation of ethanol to acetaldehyde. Journal of Molecular Catalysis A, 2016, 420, 178-189.	4.8	27
6	Synthesis, Performance and Emission Quality Assessment of Ecodiesel from Castor Oil in Diesel/Biofuel/Alcohol Triple Blends in a Diesel Engine. Catalysts, 2019, 9, 40.	1.6	27
7	Current uses and trends in catalytic isomerization, alkylation and etherification processes to improve gasoline quality. Open Chemistry, 2014, 12, 1-13.	1.0	25
8	Microwave oxidation of alkenes and alcohols using highly active and stable mesoporous organotitanium silicates. Journal of Molecular Catalysis A, 2008, 293, 17-24.	4.8	23
9	Efficient hydrogenation of alkenes using a highly active and reusable immobilised Ru complex on AlPO4. Journal of Molecular Catalysis A, 2009, 308, 41-45.	4.8	23
10	Direct primary brown coal liquefaction via non-catalytic and catalytic co-processing with model, waste and petroleum-derived hydrogen donors. Fuel, 2018, 234, 364-370.	3.4	22
11	Mechanistic insights into the hydroconversion of cinnamaldehyde using mechanochemically-synthesized Pd/Al-SBA-15 catalysts. Green Chemistry, 2015, 17, 565-572.	4.6	20
12	Impact of dopant metal ions in the framework of parent zirconia on the n -heptane isomerization activity of the Pt/WO 3 -ZrO 2 catalysts. Journal of Molecular Catalysis A, 2016, 420, 107-114.	4.8	17
13	The effect of vanadium content and speciation on the activity of VOx/ZrO2 catalysts in the conversion of ethanol to acetaldehyde. Applied Catalysis A: General, 2018, 564, 208-217.	2.2	16
14	Conversion of ethanol to acetaldehyde over VOX-SiO2 catalysts: the effects of support texture and vanadium speciation. Reaction Kinetics, Mechanisms and Catalysis, 2017, 121, 353-369.	0.8	15
15	Coal and waste direct liquefaction, using glycerol, polyethylene waste and waste tyres pyrolysis oil. Optimisation of liquids yield by response surface methodology. Journal of Cleaner Production, 2020, 255, 120192.	4.6	15
16	Acid-modified phonolite and foamed zeolite as supports for NiW catalysts for deoxygenation of waste rendering fat. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 773-793.	0.8	14
17	Performance and Emission Quality Assessment in a Diesel Engine of Straight Castor and Sunflower Vegetable Oils, in Diesel/Gasoline/Oil Triple Blends. Energies, 2019, 12, 2181.	1.6	13
18	Rapid Models for Predicting the Lowâ€Temperature Behavior of Diesel. Chemical Engineering and Technology, 2019, 42, 735-743.	0.9	11

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19	From laboratory catalysts to a new prototype: a novel real candidate for the isomerization of C5â€“C6 paraffins. RSC Advances, 2015, 5, 56625-56628.	1.7	10
20	Comparative Study of Light Cycle Oil and Naphthalene as an Adequate Additive to Improve the Stability of Marine Fuels. ACS Omega, 2022, 7, 2127-2136.	1.6	10
21	Catalytic conversion of furfural-acetone condensation products into bio-derived C8 linear alcohols over Ni Cu/Al-SBA-15. Catalysis Communications, 2018, 114, 42-45.	1.6	9
22	Coâ€processing of Waste Cooking Oil and Light Cycle Oil with NiW/(Pseudoboehmite + SBAâ€15) Catalyst. Chemical Engineering and Technology, 2019, 42, 512-517.	0.9	9
23	Preparation of Mesoporous Organically Modified Titanium Materials and their Activity in the Oxidation of Cyclohexene. Catalysis Letters, 2008, 126, 179-187.	1.4	8
24	Converting brown coal to synthetic liquid fuels through direct coal liquefaction technology: <scp>Technoâ€economic</scp> evaluation. International Journal of Energy Research, 2020, 44, 11827-11839.	2.2	8
25	Cold Plasma and Acid Treatment Modification Effects on Phonolite. Acta Chimica Slovenica, 2017, 64, 598-602.	0.2	8
26	Animal fats as a suitable feedstock for co-processing with atmospheric gas oil. Sustainable Energy and Fuels, 2021, 5, 4955-4964.	2.5	7
27	Mechanochemical Synthesis of Nickel-Modified Metalâ€“Organic Frameworks for Reduction Reactions. Catalysts, 2021, 11, 526.	1.6	7
28	Isomerization of C5â€“C7 paraffins over a Pt/WO3â€“ZrO2 catalyst using industrial feedstock. Monatshefte FÃ¼r Chemie, 2014, 145, 1407-1416.	0.9	6
29	Hydrovisbreaking of vacuum residue from Russian Export Blend: influence of brown coal, light cycle oil, or naphtha addition. Chemical Papers, 2015, 69, .	1.0	6
30	RGB histograms as a reliable tool for the evaluation of fuel oils stability. Fuel, 2018, 216, 16-22.	3.4	6
31	VOx/Zrâ€“SBA-15 catalysts for selective oxidation of ethanol to acetaldehyde. Chemical Papers, 2018, 72, 937-946.	1.0	6
32	Near-infrared spectroscopy to determine cold-flow improver concentrations in diesel fuel. Infrared Physics and Technology, 2020, 110, 103445.	1.3	6
33	Oxalic Acid as a Hydrogen Donor for the Hydrodesulfurization of Gas Oil and Deoxygenation of Rapeseed Oil Using Phonolite-Based Catalysts. Molecules, 2020, 25, 3732.	1.7	6
34	Highly Active Catalysts for the Dehydration of Isopropanol. Catalysts, 2020, 10, 719.	1.6	6
35	Hydrocracking of Heavy Fischerâ€“Tropsch Wax Distillation Residues and Its Blends with Vacuum Gas Oil Using Phonolite-Based Catalysts. Molecules, 2021, 26, 7172.	1.7	6
36	Continuous-Flow Hydroisomerization of C5â€“C7 Alkanes Using Mechanochemically Synthesized Supported Pt and Pdâ€“SBA-15 Materials. Journal of Flow Chemistry, 2015, 5, 11-16.	1.2	5

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37	Effect of waste tires addition on a low-temperature hydrovisbreaking process of vacuum residue. Chemical Papers, 2017, 71, 1175-1182.	1.0	5
38	Raman Spectroscopy as Molybdenum and Tungsten Content Analysis Tool for Mesoporous Silica and Beta Zeolite Catalysts. Molecules, 2020, 25, 4918.	1.7	5
39	Oxalic acid-mediated catalytic transfer hydrodeoxygenation of waste cooking oil. Molecular Catalysis, 2020, 491, 110973.	1.0	5
40	Tailoring of the structure of Pt/WO3â€"ZrO2 catalyst for high activity in skeletal isomerization of C5â€"C6 paraffins under industrially relevant conditions. Research on Chemical Intermediates, 2015, 41, 9425-9437.	1.3	4
41	Catalytic hydrocracking of vacuum residue and waste cooking oil mixtures. Monatshefte FÃ¼r Chemie, 2018, 149, 1167-1177.	0.9	4
42	Mesityl Oxide Reduction by Using Acid-Modified Phonolite Supported NiW, NiMo, and CoMo Catalysts. Catalysts, 2021, 11, 1101.	1.6	4
43	Partial oxidation of ethanol over ZrO2-supported vanadium catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2017, 121, 161-173.	0.8	3
44	Cleaner Fuel Production via Co-Processing of Vacuum Gas Oil with Rapeseed Oil Using a Novel NiW/Acid-Modified Phonolite Catalyst. Energies, 2021, 14, 8497.	1.6	3
45	Partial Oxidation of Ethanol Using VOx/SBA-15 and VOx/Fumed Silica Catalysts in a Bench-scale Stainless Steel Reactor. Periodica Polytechnica: Chemical Engineering, 2018, 62, 345-350.	0.5	2
46	Near-infrared spectroscopy as a rapid tool for water content analysis in the partial oxidation of ethanol. Spectroscopy Letters, 2019, 52, 533-540.	0.5	2
47	Hydrodeoxygenation and pyrolysis of free fatty acids obtained from waste rendering fat. Ecletica Quimica, 2020, 45, 28-36.	0.2	2
48	Rendering Fat and Heavy Fischer-Tropsch Waxes Mixtures (0â€"100%) Fast Pyrolysis Tests for the Production of Ethylene and Propylene. Processes, 2021, 9, 367.	1.3	1
49	Phonolite Material as Catalyst Support for the Hydrotreatment of Gas Oil and Vegetable Oil Type Feedstocks. Materials, 2022, 15, 386.	1.3	1
50	Direct Polypropylene and Polyethylene Liquefaction in CO2 and N2 Atmospheres Using MgO Light and CaO as Catalysts. Materials, 2022, 15, 844.	1.3	1
51	Polypropylene and rendering fat degrading to value-added chemicals by direct liquefaction and fast-pyrolysis. Biomass Conversion and Biorefinery, 2024, 14, 1027-1036.	2.9	0