

Javier Feroso

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

3,216
citations

28
h-index

49
g-index

49
ext. papers

3,560
ext. citations

7.7
avg, IF

5.17
L-index

#	Paper	IF	Citations
48	Influence of torrefaction on the grindability and reactivity of woody biomass. <i>Fuel Processing Technology</i> , 2008 , 89, 169-175	7.2	548
47	Surface modification of activated carbons for CO2 capture. <i>Applied Surface Science</i> , 2008 , 254, 7165-7178	7.7	368
46	Development of low-cost biomass-based adsorbents for postcombustion CO2 capture. <i>Fuel</i> , 2009 , 88, 2442-2447	7.1	166
45	High-pressure co-gasification of coal with biomass and petroleum coke. <i>Fuel Processing Technology</i> , 2009 , 90, 926-932	7.2	152
44	Developing almond shell-derived activated carbons as CO2 adsorbents. <i>Separation and Purification Technology</i> , 2010 , 71, 102-106	8.3	148
43	Application of thermogravimetric analysis to the evaluation of aminated solid sorbents for CO2 capture. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008 , 92, 601-606	4.1	129
42	Co-gasification of different rank coals with biomass and petroleum coke in a high-pressure reactor for H(2)-rich gas production. <i>Bioresource Technology</i> , 2010 , 101, 3230-5	11	123
41	Kinetic models comparison for steam gasification of different nature fuel chars. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008 , 91, 779-786	4.1	104
40	Different Approaches for the Development of Low-Cost CO2 Adsorbents. <i>Journal of Environmental Engineering, ASCE</i> , 2009 , 135, 426-432	2	103
39	High-pressure gasification reactivity of biomass chars produced at different temperatures. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009 , 85, 287-293	6	96
38	Lamellar and pillared ZSM-5 zeolites modified with MgO and ZnO for catalytic fast-pyrolysis of eucalyptus woodchips. <i>Catalysis Today</i> , 2016 , 277, 171-181	5.3	91
37	Kinetic models comparison for non-isothermal steam gasification of coalBiomass blend chars. <i>Chemical Engineering Journal</i> , 2010 , 161, 276-284	14.7	88
36	Production of high purity hydrogen by sorption enhanced steam reforming of crude glycerol. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 14047-14054	6.7	81
35	Production of fuel-cell grade H2 by sorption enhanced steam reforming of acetic acid as a model compound of biomass-derived bio-oil. <i>Applied Catalysis B: Environmental</i> , 2016 , 184, 64-76	21.8	71
34	Sorption enhanced catalytic steam gasification process: a direct route from lignocellulosic biomass to high purity hydrogen. <i>Energy and Environmental Science</i> , 2012 , 5, 6358	35.4	68
33	Engineering the acidity and accessibility of the zeolite ZSM-5 for efficient bio-oil upgrading in catalytic pyrolysis of lignocellulose. <i>Green Chemistry</i> , 2018 , 20, 3499-3511	10	65
32	Assessing biomass catalytic pyrolysis in terms of deoxygenation pathways and energy yields for the efficient production of advanced biofuels. <i>Catalysis Science and Technology</i> , 2016 , 6, 2829-2843	5.5	63

31	Application of response surface methodology to assess the combined effect of operating variables on high-pressure coal gasification for H ₂ -rich gas production. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 1191-1204	6.7	59
30	A comparison of two methods for producing CO ₂ capture adsorbents. <i>Energy Procedia</i> , 2009 , 1, 1107-1113	11.3	56
29	Biomass catalytic fast pyrolysis over hierarchical ZSM-5 and Beta zeolites modified with Mg and Zn oxides. <i>Biomass Conversion and Biorefinery</i> , 2017 , 7, 289-304	2.3	55
28	Advanced biofuels production by upgrading of pyrolysis bio-oil. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2017 , 6, e245	4.7	52
27	Valorization of steam-exploded wheat straw through a biorefinery approach: Bioethanol and bio-oil co-production. <i>Fuel</i> , 2017 , 199, 403-412	7.1	43
26	H ₂ production by sorption enhanced steam reforming of biomass-derived bio-oil in a fluidized bed reactor: An assessment of the effect of operation variables using response surface methodology. <i>Catalysis Today</i> , 2015 , 242, 19-34	5.3	40
25	Thermochemical decomposition of coffee ground residues by TG-MS: A kinetic study. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 130, 358-367	6	38
24	Multifunctional Pd/Ni-Co catalyst for hydrogen production by chemical looping coupled with steam reforming of acetic acid. <i>ChemSusChem</i> , 2014 , 7, 3063-77	8.3	36
23	Ceria on alumina support for catalytic pyrolysis of Pavlova sp. microalgae to high-quality bio-oils. <i>Journal of Energy Chemistry</i> , 2018 , 27, 874-882	12	32
22	Bio-oil production by lignocellulose fast-pyrolysis: Isolating and comparing the effects of indigenous versus external catalysts. <i>Fuel Processing Technology</i> , 2017 , 167, 563-574	7.2	32
21	Synergistic effects during the co-pyrolysis and co-gasification of high volatile bituminous coal with microalgae. <i>Energy Conversion and Management</i> , 2018 , 164, 399-409	10.6	30
20	Intrinsic char reactivity of plastic waste (PET) during CO ₂ gasification. <i>Fuel Processing Technology</i> , 2010 , 91, 1776-1781	7.2	27
19	Effect of Li-LSX-zeolite on the in-situ catalytic deoxygenation and denitrogenation of Isochrysis sp. microalgae pyrolysis vapours. <i>Fuel Processing Technology</i> , 2018 , 173, 253-261	7.2	26
18	Effect of the Pressure and Temperature of Devolatilization on the Morphology and Steam Gasification Reactivity of Coal Chars. <i>Energy & Fuels</i> , 2010 , 24, 5586-5595	4.1	25
17	Li-LSX-zeolite evaluation for post-combustion CO ₂ capture. <i>Chemical Engineering Journal</i> , 2019 , 358, 1351-1362	14.7	25
16	Performance of MCM-22 zeolite for the catalytic fast-pyrolysis of acid-washed wheat straw. <i>Catalysis Today</i> , 2018 , 304, 30-38	5.3	24
15	The crucial role of clay binders in the performance of ZSM-5 based materials for biomass catalytic pyrolysis. <i>Catalysis Science and Technology</i> , 2019 , 9, 789-802	5.5	23
14	Gasification of the char derived from distillation of granulated scrap tyres. <i>Waste Management</i> , 2012 , 32, 743-52	8.6	20

13	Kinetic Parameters and Reactivity for the Steam Gasification of Coal Chars Obtained under Different Pyrolysis Temperatures and Pressures. <i>Energy & Fuels</i> , 2011 , 25, 3574-3580	4.1	18
12	Thermochemical valorization of camelina straw waste via fast pyrolysis. <i>Biomass Conversion and Biorefinery</i> , 2017 , 7, 277-287	2.3	17
11	Scaling-Up of Bio-Oil Upgrading during Biomass Pyrolysis over ZrO /ZSM-5-Attapulgite. <i>ChemSusChem</i> , 2019 , 12, 2428-2438	8.3	13
10	Sorption enhanced steam reforming (SESR): a direct route towards efficient hydrogen production from biomass-derived compounds. <i>Journal of Chemical Technology and Biotechnology</i> , 2012 , 87, 1367-1374	3.5	11
9	Kinetic rate of uptake of a synthetic Ca-based sorbent: Experimental data and numerical simulations. <i>Fuel</i> , 2014 , 120, 53-65	7.1	9
8	Cascade Deoxygenation Process Integrating Acid and Base Catalysts for the Efficient Production of Second-Generation Biofuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18027-18037	8.3	8
7	Pyrolysis of microalgae for fuel production 2017 , 259-281		8
6	Effect of co-gasification of biomass and petroleum coke with coal on the production of gases 2012 , 2, 304-313		8
5	Thermogravimetric characterisation and kinetic analysis of <i>Nannochloropsis</i> sp. and <i>Tetraselmis</i> sp. microalgae for pyrolysis, combustion and oxy-combustion. <i>Energy</i> , 2021 , 217, 119394	7.9	7
4	Stability of Li-LSX Zeolite in the Catalytic Pyrolysis of Non-Treated and Acid Pre-Treated <i>Isochrysis</i> sp. Microalgae. <i>Energies</i> , 2020 , 13, 959	3.1	6
3	zsm-5 ZEOLITES PERFORMANCE ASSESSMENT IN CATALYTIC PYROLYSIS OF pvc-containing REAL WEEE PLASTIC wastes. <i>Catalysis Today</i> , 2021 ,	5.3	1
2	High-temperature CO ₂ capture by fly ash derived sorbents: Effect of scale-up on sorbents performance. <i>Chemical Engineering Journal</i> , 2022 , 429, 132201	14.7	0
1	Transportation Biofuels via the Pyrolysis Pathway: Status and Prospects 2019 , 1081-1112		