Javier Fermoso

List of Publications by Year in Descending Order

48	3,216	28	49
papers	citations	h-index	g-index
49	**3,560**	**7.7**	**5.17**
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
48	High-temperature CO2 capture by fly ash derived sorbents: Effect of scale-up on sorbents performance. *Chemical Engineering Journal*, **2022**, 429, 132201	14.7	0
47	zsm-5 ZEOLITES PERFORMANCE ASSESSMENT IN CATALYTIC PYROLYSIS OF pvc-containing REAL WEEE PLASTIC wastes. *Catalysis Today*, **2021**,	5.3	1
46	Thermogravimetric characterisation and kinetic analysis of Nannochloropsis sp. and Tetraselmis sp. microalgae for pyrolysis, combustion and oxy-combustion. *Energy*, **2021**, 217, 119394	7.9	7
45	Stability of Li-LSX Zeolite in the Catalytic Pyrolysis of Non-Treated and Acid Pre-Treated Isochrysis sp. Microalgae. *Energies*, **2020**, 13, 959	3.1	6
44	Cascade Deoxygenation Process Integrating Acid and Base Catalysts for the Efficient Production of Second-Generation Biofuels. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 18027-18037	8.3	8
43	The crucial role of clay binders in the performance of ZSM-5 based materials for biomass catalytic pyrolysis. *Catalysis Science and Technology*, **2019**, 9, 789-802	5.5	23
42	Scaling-Up of Bio-Oil Upgrading during Biomass Pyrolysis over ZrO /ZSM-5-Attapulgite. *ChemSusChem*, **2019**, 12, 2428-2438	8.3	13
41	Transportation Biofuels via the Pyrolysis Pathway: Status and Prospects **2019**, 1081-1112		
40	Li-LSX-zeolite evaluation for post-combustion CO2 capture. *Chemical Engineering Journal*, **2019**, 358, 1351-1362	14.7	25
39	Effect of Li-LSX-zeolite on the in-situ catalytic deoxygenation and denitrogenation of Isochrysis sp. microalgae pyrolysis vapours. *Fuel Processing Technology*, **2018**, 173, 253-261	7.2	26
38	Synergistic effects during the co-pyrolysis and co-gasification of high volatile bituminous coal with microalgae. *Energy Conversion and Management*, **2018**, 164, 399-409	10.6	30
37	Thermochemical decomposition of coffee ground residues by TG-MS: A kinetic study. *Journal of Analytical and Applied Pyrolysis*, **2018**, 130, 358-367	6	38
36	Ceria on alumina support for catalytic pyrolysis of Pavlova sp. microalgae to high-quality bio-oils. *Journal of Energy Chemistry*, **2018**, 27, 874-882	12	32
35	Performance of MCM-22 zeolite for the catalytic fast-pyrolysis of acid-washed wheat straw. *Catalysis Today*, **2018**, 304, 30-38	5.3	24
34	Engineering the acidity and accessibility of the zeolite ZSM-5 for efficient bio-oil upgrading in catalytic pyrolysis of lignocellulose. *Green Chemistry*, **2018**, 20, 3499-3511	10	65
33	Advanced biofuels production by upgrading of pyrolysis bio-oil. *Wiley Interdisciplinary Reviews: Energy and Environment*, **2017**, 6, e245	4.7	52
32	Biomass catalytic fast pyrolysis over hierarchical ZSM-5 and Beta zeolites modified with Mg and Zn oxides. *Biomass Conversion and Biorefinery*, **2017**, 7, 289-304	2.3	55

(2010-2017)

31	Valorization of steam-exploded wheat straw through a biorefinery approach: Bioethanol and bio-oil co-production. *Fuel*, **2017**, 199, 403-412	7.1	43
30	Bio-oil production by lignocellulose fast-pyrolysis: Isolating and comparing the effects of indigenous versus external catalysts. *Fuel Processing Technology*, **2017**, 167, 563-574	7.2	32
29	Thermochemical valorization of camelina straw waste via fast pyrolysis. *Biomass Conversion and Biorefinery*, **2017**, 7, 277-287	2.3	17
28	Pyrolysis of microalgae for fuel production **2017**, 259-281		8
27	Production of fuel-cell grade H2 by sorption enhanced steam reforming of acetic acid as a model compound of biomass-derived bio-oil. *Applied Catalysis B: Environmental*, **2016**, 184, 64-76	21.8	71
26	Lamellar and pillared ZSM-5 zeolites modified with MgO and ZnO for catalytic fast-pyrolysis of eucalyptus woodchips. *Catalysis Today*, **2016**, 277, 171-181	5.3	91
25	Assessing biomass catalytic pyrolysis in terms of deoxygenation pathways and energy yields for the efficient production of advanced biofuels. *Catalysis Science and Technology*, **2016**, 6, 2829-2843	5.5	63
24	H2 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. *Catalysis Today*, **2015**, 242, 19-34	5.3	40
23	Multifunctional Pd/Ni-Co catalyst for hydrogen production by chemical looping coupled with steam reforming of acetic acid. *ChemSusChem*, **2014**, 7, 3063-77	8.3	36
22	Kinetic rate of uptake of a synthetic Ca-based sorbent: Experimental data and numerical simulations. *Fuel*, **2014**, 120, 53-65	7.1	9
21	Gasification of the char derived from distillation of granulated scrap tyres. *Waste Management*, **2012**, 32, 743-52	8.6	20
20	Production of high purity hydrogen by sorption enhanced steam reforming of crude glycerol. *International Journal of Hydrogen Energy*, **2012**, 37, 14047-14054	6.7	81
19	Sorption enhanced catalytic steam gasification process: a direct route from lignocellulosic biomass to high purity hydrogen. *Energy and Environmental Science*, **2012**, 5, 6358	35.4	68
18	Sorption enhanced steam reforming (SESR): a direct route towards efficient hydrogen production from biomass-derived compounds. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 1367-1374	3.5	11
17	Effect of co-gasification of biomass and petroleum coke with coal on the production of gases **2012**, 2, 304-313		8
16	Kinetic Parameters and Reactivity for the Steam Gasification of Coal Chars Obtained under Different Pyrolysis Temperatures and Pressures. *Energy & Fuels*, **2011**, 25, 3574-3580	4.1	18
15	Effect of the Pressure and Temperature of Devolatilization on the Morphology and Steam Gasification Reactivity of Coal Chars. *Energy & Fuels*, **2010**, 24, 5586-5595	4.1	25
14	Developing almond shell-derived activated carbons as CO2 adsorbents. *Separation and Purification Technology*, **2010**, 71, 102-106	8.3	148

13	Intrinsic char reactivity of plastic waste (PET) during CO2 gasification. *Fuel Processing Technology*, **2010**, 91, 1776-1781	7.2	27
12	Application of response surface methodology to assess the combined effect of operating variables on high-pressure coal gasification for H2-rich gas production. *International Journal of Hydrogen Energy*, **2010**, 35, 1191-1204	6.7	59
11	Kinetic models comparison for non-isothermal steam gasification of coal–biomass blend chars. *Chemical Engineering Journal*, **2010**, 161, 276-284	14.7	88
10	Co-gasification of different rank coals with biomass and petroleum coke in a high-pressure reactor for H(2)-rich gas production. *Bioresource Technology*, **2010**, 101, 3230-5	11	123
9	Development of low-cost biomass-based adsorbents for postcombustion CO2 capture. *Fuel*, **2009**, 88, 2442-2447	7.1	166
8	High-pressure co-gasification of coal with biomass and petroleum coke. *Fuel Processing Technology*, **2009**, 90, 926-932	7.2	152
7	High-pressure gasification reactivity of biomass chars produced at different temperatures. *Journal of Analytical and Applied Pyrolysis*, **2009**, 85, 287-293	6	96
6	A comparison of two methods for producing CO2 capture adsorbents. *Energy Procedia*, **2009**, 1, 1107-1113	2.5	56
5	Different Approaches for the Development of Low-Cost CO2 Adsorbents. *Journal of Environmental Engineering, ASCE*, **2009**, 135, 426-432	2	103
4	Application of thermogravimetric analysis to the evaluation of aminated solid sorbents for CO2 capture. *Journal of Thermal Analysis and Calorimetry*, **2008**, 92, 601-606	4.1	129
3	Kinetic models comparison for steam gasification of different nature fuel chars. *Journal of Thermal Analysis and Calorimetry*, **2008**, 91, 779-786	4.1	104
2	Surface modification of activated carbons for CO2 capture. *Applied Surface Science*, **2008**, 254, 7165-7172	6.7	368
1	Influence of torrefaction on the grindability and reactivity of woody biomass. *Fuel Processing Technology*, **2008**, 89, 169-175	7.2	548