

Jon Alvarez

List of Publications by Year in descending order

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37
papers

3,524
citations

147801

31
h-index

361022

35
g-index

40
all docs

40
docs citations

40
times ranked

3020
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in the gasification of waste plastics. A critical overview. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 576-596.	16.4	506
2	Bio-oil production from rice husk fast pyrolysis in a conical spouted bed reactor. <i>Fuel</i> , 2014, 128, 162-169.	6.4	263
3	Hydrogen production from biomass and plastic mixtures by pyrolysis-gasification. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10883-10891.	7.1	210
4	Fast co-pyrolysis of sewage sludge and lignocellulosic biomass in a conical spouted bed reactor. <i>Fuel</i> , 2015, 159, 810-818.	6.4	188
5	Waste tyre valorization by catalytic pyrolysis – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 129, 109932.	16.4	169
6	Sewage sludge valorization by flash pyrolysis in a conical spouted bed reactor. <i>Chemical Engineering Journal</i> , 2015, 273, 173-183.	12.7	161
7	Steam reforming of different biomass tar model compounds over Ni/Al ₂ O ₃ catalysts. <i>Energy Conversion and Management</i> , 2017, 136, 119-126.	9.2	147
8	Waste truck-tyre processing by flash pyrolysis in a conical spouted bed reactor. <i>Energy Conversion and Management</i> , 2017, 142, 523-532.	9.2	141
9	Upgrading the rice husk char obtained by flash pyrolysis for the production of amorphous silica and high quality activated carbon. <i>Bioresource Technology</i> , 2014, 170, 132-137.	9.6	134
10	A sequential process for hydrogen production based on continuous HDPE fast pyrolysis and in-line steam reforming. <i>Chemical Engineering Journal</i> , 2016, 296, 191-198.	12.7	115
11	Hydrogen-rich gas production by continuous pyrolysis and in-line catalytic reforming of pine wood waste and HDPE mixtures. <i>Energy Conversion and Management</i> , 2017, 136, 192-201.	9.2	109
12	Valorization of citrus wastes by fast pyrolysis in a conical spouted bed reactor. <i>Fuel</i> , 2018, 224, 111-120.	6.4	103
13	Novel Ni-Mg-Al-Ca catalyst for enhanced hydrogen production for the pyrolysis-gasification of a biomass/plastic mixture. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 113, 15-21.	5.5	101
14	Characterization of the bio-oil obtained by fast pyrolysis of sewage sludge in a conical spouted bed reactor. <i>Fuel Processing Technology</i> , 2016, 149, 169-175.	7.2	101
15	Improving bio-oil properties through the fast co-pyrolysis of lignocellulosic biomass and waste tyres. <i>Waste Management</i> , 2019, 85, 385-395.	7.4	99
16	Physical Activation of Rice Husk Pyrolysis Char for the Production of High Surface Area Activated Carbons. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 7241-7250.	3.7	96
17	Evaluation of the properties of tyre pyrolysis oils obtained in a conical spouted bed reactor. <i>Energy</i> , 2017, 128, 463-474.	8.8	94
18	Role of temperature on gasification performance and tar composition in a fountain enhanced conical spouted bed reactor. <i>Energy Conversion and Management</i> , 2018, 171, 1589-1597.	9.2	75

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19	Fast pyrolysis of eucalyptus waste in a conical spouted bed reactor. <i>Bioresource Technology</i> , 2015, 194, 225-232.	9.6	69
20	Pyrolysis of plastic wastes in a fountain confined conical spouted bed reactor: Determination of stable operating conditions. <i>Energy Conversion and Management</i> , 2021, 229, 113768.	9.2	63
21	Flash pyrolysis of forestry residues from the Portuguese Central Inland Region within the framework of the BioREFINA-Ter project. <i>Bioresource Technology</i> , 2013, 129, 512-518.	9.6	62
22	Assessment of steam gasification kinetics of the char from lignocellulosic biomass in a conical spouted bed reactor. <i>Energy</i> , 2016, 107, 493-501.	8.8	60
23	Assessment of a conical spouted with an enhanced fountain bed for biomass gasification. <i>Fuel</i> , 2017, 203, 825-831.	6.4	59
24	Preparation of adsorbents from sewage sludge pyrolytic char by carbon dioxide activation. <i>Chemical Engineering Research and Design</i> , 2016, 103, 76-86.	5.6	51
25	Advantages of confining the fountain in a conical spouted bed reactor for biomass steam gasification. <i>Energy</i> , 2018, 153, 455-463.	8.8	51
26	Evolution of biomass char features and their role in the reactivity during steam gasification in a conical spouted bed reactor. <i>Energy Conversion and Management</i> , 2019, 181, 214-222.	9.2	51
27	Steam reforming of plastic pyrolysis model hydrocarbons and catalyst deactivation. <i>Applied Catalysis A: General</i> , 2016, 527, 152-160.	4.3	42
28	Kinetic modeling and experimental validation of biomass fast pyrolysis in a conical spouted bed reactor. <i>Chemical Engineering Journal</i> , 2019, 373, 677-686.	12.7	42
29	Kinetic Study of Carbon Dioxide Gasification of Rice Husk Fast Pyrolysis Char. <i>Energy & Fuels</i> , 2015, 29, 3198-3207.	5.1	40
30	Performance of a Ni/ZrO ₂ catalyst in the steam reforming of the volatiles derived from biomass pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 136, 222-231.	5.5	35
31	Pyrolysis kinetics of forestry residues from the Portuguese Central Inland Region. <i>Chemical Engineering Research and Design</i> , 2013, 91, 2682-2690.	5.6	34
32	Experimental study and modeling of biomass char gasification kinetics in a novel thermogravimetric flow reactor. <i>Chemical Engineering Journal</i> , 2020, 396, 125200.	12.7	31
33	Activity and stability of different Fe loaded primary catalysts for tar elimination. <i>Fuel</i> , 2022, 317, 123457.	6.4	12
34	Bio-oil production. , 2018, , 173-202.		3
35	Strategies to Improve Hazardous Waste Management at the Faculty of Engineering Vitoria-Gasteiz UPV/EHU. <i>European Journal of Sustainable Development (discontinued)</i> , 2020, 9, 22.	0.9	2
36	The pyrolysis study of polybutadiene rubber under different structural and process parameters: comparison with polyvinyl chloride degradation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 1237-1249.	3.6	1

#	ARTICLE	IF	CITATIONS
37	Development of the Conical Spouted Bed Technology for Biomass and Waste Plastic Gasification. , 0, , .		0