

# Jon Alvarez

## List of Publications by Citations

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35  
papers

2,446  
citations

28  
h-index

37  
g-index

37  
ext. papers

2,973  
ext. citations

8.8  
avg, IF

5.35  
L-index

#	Paper	IF	Citations
35	Recent advances in the gasification of waste plastics. A critical overview. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 576-596	16.2	288
34	Bio-oil production from rice husk fast pyrolysis in a conical spouted bed reactor. <i>Fuel</i> , <b>2014</b> , 128, 162-169	7.1	211
33	Sewage sludge valorization by flash pyrolysis in a conical spouted bed reactor. <i>Chemical Engineering Journal</i> , <b>2015</b> , 273, 173-183	14.7	139
32	Hydrogen production from biomass and plastic mixtures by pyrolysis-gasification. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 10883-10891	6.7	138
31	Fast co-pyrolysis of sewage sludge and lignocellulosic biomass in a conical spouted bed reactor. <i>Fuel</i> , <b>2015</b> , 159, 810-818	7.1	134
30	Steam reforming of different biomass tar model compounds over Ni/Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Energy Conversion and Management</i> , <b>2017</b> , 136, 119-126	10.6	111
29	Upgrading the rice husk char obtained by flash pyrolysis for the production of amorphous silica and high quality activated carbon. <i>Bioresource Technology</i> , <b>2014</b> , 170, 132-137	11	108
28	Waste truck-tyre processing by flash pyrolysis in a conical spouted bed reactor. <i>Energy Conversion and Management</i> , <b>2017</b> , 142, 523-532	10.6	99
27	Characterization of the bio-oil obtained by fast pyrolysis of sewage sludge in a conical spouted bed reactor. <i>Fuel Processing Technology</i> , <b>2016</b> , 149, 169-175	7.2	87
26	Waste tyre valorization by catalytic pyrolysis [A review]. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 129, 109932	16.2	85
25	A sequential process for hydrogen production based on continuous HDPE fast pyrolysis and in-line steam reforming. <i>Chemical Engineering Journal</i> , <b>2016</b> , 296, 191-198	14.7	78
24	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> , <b>2017</b> , 136, 192-201	10.6	77
23	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> , <b>2015</b> , 113, 15-21	6	73
22	Valorization of citrus wastes by fast pyrolysis in a conical spouted bed reactor. <i>Fuel</i> , <b>2018</b> , 224, 111-120	7.1	72
21	Physical Activation of Rice Husk Pyrolysis Char for the Production of High Surface Area Activated Carbons. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 7241-7250	3.9	71
20	Evaluation of the properties of tyre pyrolysis oils obtained in a conical spouted bed reactor. <i>Energy</i> , <b>2017</b> , 128, 463-474	7.9	69
19	Improving bio-oil properties through the fast co-pyrolysis of lignocellulosic biomass and waste tyres. <i>Waste Management</i> , <b>2019</b> , 85, 385-395	8.6	67

18	Fast pyrolysis of eucalyptus waste in a conical spouted bed reactor. <i>Bioresource Technology</i> , <b>2015</b> , 194, 225-32	11	54
17	Assessment of steam gasification kinetics of the char from lignocellulosic biomass in a conical spouted bed reactor. <i>Energy</i> , <b>2016</b> , 107, 493-501	7.9	53
16	Flash pyrolysis of forestry residues from the Portuguese Central Inland Region within the framework of the BioREFINA-Ter project. <i>Bioresource Technology</i> , <b>2013</b> , 129, 512-8	11	51
15	Role of temperature on gasification performance and tar composition in a fountain enhanced conical spouted bed reactor. <i>Energy Conversion and Management</i> , <b>2018</b> , 171, 1589-1597	10.6	47
14	Preparation of adsorbents from sewage sludge pyrolytic char by carbon dioxide activation. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 103, 76-86	5.5	43
13	Assessment of a conical spouted with an enhanced fountain bed for biomass gasification. <i>Fuel</i> , <b>2017</b> , 203, 825-831	7.1	39
12	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> , <b>2019</b> , 181, 214-222	10.6	36
11	Advantages of confining the fountain in a conical spouted bed reactor for biomass steam gasification. <i>Energy</i> , <b>2018</b> , 153, 455-463	7.9	34
10	Steam reforming of plastic pyrolysis model hydrocarbons and catalyst deactivation. <i>Applied Catalysis A: General</i> , <b>2016</b> , 527, 152-160	5.1	32
9	Pyrolysis kinetics of forestry residues from the Portuguese Central Inland Region. <i>Chemical Engineering Research and Design</i> , <b>2013</b> , 91, 2682-2690	5.5	31
8	Kinetic Study of Carbon Dioxide Gasification of Rice Husk Fast Pyrolysis Char. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 3198-3207	4.1	30
7	Kinetic modeling and experimental validation of biomass fast pyrolysis in a conical spouted bed reactor. <i>Chemical Engineering Journal</i> , <b>2019</b> , 373, 677-686	14.7	28
6	Performance of a Ni/ZrO <sub>2</sub> catalyst in the steam reforming of the volatiles derived from biomass pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2018</b> , 136, 222-231	6	24
5	Pyrolysis of plastic wastes in a fountain confined conical spouted bed reactor: Determination of stable operating conditions. <i>Energy Conversion and Management</i> , <b>2021</b> , 229, 113768	10.6	20
4	Experimental study and modeling of biomass char gasification kinetics in a novel thermogravimetric flow reactor. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125200	14.7	14
3	Activity and stability of different Fe loaded primary catalysts for tar elimination. <i>Fuel</i> , <b>2022</b> , 317, 123457	7.1	1
2	Bio-oil production <b>2018</b> , 173-202		1
1	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> , <b>1</b>	4.1	

