

# Maider Amutio

## List of Publications by Citations

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78  
papers

5,557  
citations

46  
h-index

74  
g-index

78  
ext. papers

6,682  
ext. citations

8.1  
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6.06  
L-index

#	Paper	IF	Citations
78	Thermochemical routes for the valorization of waste polyolefinic plastics to produce fuels and chemicals. A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 73, 346-368	16.2	335
77	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
76	Influence of temperature on biomass pyrolysis in a conical spouted bed reactor. <i>Resources, Conservation and Recycling</i> , <b>2012</b> , 59, 23-31	11.9	226
75	Evaluation of thermochemical routes for hydrogen production from biomass: A review. <i>Energy Conversion and Management</i> , <b>2018</b> , 165, 696-719	10.6	217
74	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
73	Kinetic study of lignocellulosic biomass oxidative pyrolysis. <i>Fuel</i> , <b>2012</b> , 95, 305-311	7.1	168
72	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
71	Catalytic pyrolysis of HDPE in continuous mode over zeolite catalysts in a conical spouted bed reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2009</b> , 85, 345-351	6	137
70	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
69	Design and operation of a conical spouted bed reactor pilot plant (25kg/h) for biomass fast pyrolysis. <i>Fuel Processing Technology</i> , <b>2013</b> , 112, 48-56	7.2	129
68	Influence of operating conditions on the steam gasification of biomass in a conical spouted bed reactor. <i>Chemical Engineering Journal</i> , <b>2014</b> , 237, 259-267	14.7	121
67	Fast characterization of biomass fuels by thermogravimetric analysis (TGA). <i>Fuel</i> , <b>2015</b> , 140, 744-751	7.1	120
66	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
65	Biomass Oxidative Flash Pyrolysis: Autothermal Operation, Yields and Product Properties. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 1353-1362	4.1	105
64	Light olefins from HDPE cracking in a two-step thermal and catalytic process. <i>Chemical Engineering Journal</i> , <b>2012</b> , 207-208, 27-34	14.7	105
63	Syngas from steam gasification of polyethylene in a conical spouted bed reactor. <i>Fuel</i> , <b>2013</b> , 109, 461-469	7.1	103
62	Cracking of High Density Polyethylene Pyrolysis Waxes on HZSM-5 Catalysts of Different Acidity. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 10637-10645	3.9	103

61	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
60	Styrene recovery from polystyrene by flash pyrolysis in a conical spouted bed reactor. <i>Waste Management</i> , <b>2015</b> , 45, 126-33	8.6	93
59	Coking and sintering progress of a Ni supported catalyst in the steam reforming of biomass pyrolysis volatiles. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 233, 289-300	21.8	93
58	Influence of Tire Formulation on the Products of Continuous Pyrolysis in a Conical Spouted Bed Reactor. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 5423-5431	4.1	92
57	Operating Conditions for the Pyrolysis of Poly-(ethylene terephthalate) in a Conical Spouted-Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 2064-2069	3.9	90
56	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
55	Hydrogen production from biomass by continuous fast pyrolysis and in-line steam reforming. <i>RSC Advances</i> , <b>2016</b> , 6, 25975-25985	3.7	84
54	Effect of polyethylene co-feeding in the steam gasification of biomass in a conical spouted bed reactor. <i>Fuel</i> , <b>2015</b> , 153, 393-401	7.1	82
53	Steam gasification of biomass in a conical spouted bed reactor with olivine and Alumina as primary catalysts. <i>Fuel Processing Technology</i> , <b>2013</b> , 116, 292-299	7.2	82
52	Production of Light Olefins from Polyethylene in a Two-Step Process: Pyrolysis in a Conical Spouted Bed and Downstream High-Temperature Thermal Cracking. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 13915-13923	3.9	79
51	Vacuum Pyrolysis of Waste Tires by Continuously Feeding into a Conical Spouted Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 8990-8997	3.9	78
50	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
49	Influence of FCC catalyst steaming on HDPE pyrolysis product distribution. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2009</b> , 85, 359-365	6	77
48	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
47	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
46	Effect of Vacuum on Lignocellulosic Biomass Flash Pyrolysis in a Conical Spouted Bed Reactor. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 3950-3960	4.1	71
45	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
44	Stability of different Ni supported catalysts in the in-line steam reforming of biomass fast pyrolysis volatiles. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 242, 109-120	21.8	69

43	Steam activation of pyrolytic tyre char at different temperatures. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2009</b> , 85, 539-543	6	68
42	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
41	Performance of a conical spouted bed pilot plant for bio-oil production by poplar flash pyrolysis. <i>Fuel Processing Technology</i> , <b>2015</b> , 137, 283-289	7.2	65
40	Influence of the support on Ni catalysts performance in the in-line steam reforming of biomass fast pyrolysis derived volatiles. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 229, 105-113	21.8	62
39	HDPE pyrolysis-steam reforming in a tandem spouted bed-fixed bed reactor for H <sub>2</sub> production. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2015</b> , 116, 34-41	6	60
38	Recycling poly-(methyl methacrylate) by pyrolysis in a conical spouted bed reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2010</b> , 49, 1089-1094	3.7	60
37	Fast pyrolysis of eucalyptus waste in a conical spouted bed reactor. <i>Bioresource Technology</i> , <b>2015</b> , 194, 225-32	11	54
36	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
35	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
34	Role of operating conditions in the catalyst deactivation in the in-line steam reforming of volatiles from biomass fast pyrolysis. <i>Fuel</i> , <b>2018</b> , 216, 233-244	7.1	49
33	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
32	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
31	Behaviour of primary catalysts in the biomass steam gasification in a fountain confined spouted bed. <i>Fuel</i> , <b>2019</b> , 253, 1446-1456	7.1	41
30	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
29	Effect of CeO <sub>2</sub> and MgO promoters on the performance of a Ni/Al <sub>2</sub> O <sub>3</sub> catalyst in the steam reforming of biomass pyrolysis volatiles. <i>Fuel Processing Technology</i> , <b>2020</b> , 198, 106223	7.2	39
28	Drying of Biomass in a Conical Spouted Bed with Different Types of Internal Devices. <i>Drying Technology</i> , <b>2012</b> , 30, 207-216	2.6	38
27	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
26	Hydrogen Production by High Density Polyethylene Steam Gasification and In-Line Volatile Reforming. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 9536-9544	3.9	35

25	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
24	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
23	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
22	Effect of La <sub>2</sub> O <sub>3</sub> promotion on a Ni/Al <sub>2</sub> O <sub>3</sub> catalyst for H <sub>2</sub> production in the in-line biomass pyrolysis-reforming. <i>Fuel</i> , <b>2020</b> , 262, 116593	7.1	31
21	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
20	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
19	Catalytic steam reforming of biomass fast pyrolysis volatiles over Ni <sub>2</sub> Co bimetallic catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2020</b> , 91, 167-181	6.3	28
18	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
17	On the pyrolysis of different microalgae species in a conical spouted bed reactor: Bio-fuel yields and characterization. <i>Bioresource Technology</i> , <b>2020</b> , 311, 123561	11	23
16	Regenerability of a Ni catalyst in the catalytic steam reforming of biomass pyrolysis volatiles. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 68, 69-78	6.3	22
15	Effect of calcination conditions on the performance of Ni/MgO/Al <sub>2</sub> O <sub>3</sub> catalysts in the steam reforming of biomass fast pyrolysis volatiles. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 3947-3963	5.5	21
14	Kinetic modelling of the cracking of HDPE pyrolysis volatiles on a HZSM-5 zeolite based catalyst. <i>Chemical Engineering Science</i> , <b>2014</b> , 116, 635-644	4.4	18
13	Influence of reactor and condensation system design on tyre pyrolysis products yields. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2019</b> , 143, 104683	6	16
12	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
11	Analysis of hydrogen production potential from waste plastics by pyrolysis and in line oxidative steam reforming. <i>Fuel Processing Technology</i> , <b>2022</b> , 225, 107044	7.2	14
10	Assessment of product yields and catalyst deactivation in fixed and fluidized bed reactors in the steam reforming of biomass pyrolysis volatiles. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 145, 52-62	5.5	12
9	Kinetic study of the catalytic reforming of biomass pyrolysis volatiles over a commercial Ni/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 12023-12033	6.7	12
8	Thermodynamic assessment of the oxidative steam reforming of biomass fast pyrolysis volatiles. <i>Energy Conversion and Management</i> , <b>2020</b> , 214, 112889	10.6	11

7	In line upgrading of biomass fast pyrolysis products using low-cost catalysts. <i>Fuel</i> , <b>2021</b> , 296, 120682	7.1	9
6	Fe/olivine as primary catalyst in the biomass steam gasification in a fountain confined spouted bed reactor. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 99, 364-379	6.3	7
5	Role of temperature in the biomass steam pyrolysis in a conical spouted bed reactor. <i>Energy</i> , <b>2022</b> , 238, 122053	7.9	7
4	Development of a dual conical spouted bed system for heat integration purposes. <i>Powder Technology</i> , <b>2014</b> , 268, 261-268	5.2	6
3	Conditioning the volatile stream from biomass fast pyrolysis for the attenuation of steam reforming catalyst deactivation. <i>Fuel</i> , <b>2022</b> , 312, 122910	7.1	3
2	Waste Plastics Valorization by Fast Pyrolysis and in Line Catalytic Steam Reforming for Hydrogen Production <b>2020</b> ,		2
1	Bio-oil production <b>2018</b> , 173-202		1