

Maider Amutio

List of Publications by Year in Descending Order

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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.

78
papers

5,557
citations

46
h-index

74
g-index

78
ext. papers

6,682
ext. citations

8.1
avg. IF

6.06
L-index

#	Paper	IF	Citations
78	Conditioning the volatile stream from biomass fast pyrolysis for the attenuation of steam reforming catalyst deactivation. <i>Fuel</i> , 2022 , 312, 122910	7.1	3
77	Analysis of hydrogen production potential from waste plastics by pyrolysis and in line oxidative steam reforming. <i>Fuel Processing Technology</i> , 2022 , 225, 107044	7.2	14
76	Role of temperature in the biomass steam pyrolysis in a conical spouted bed reactor. <i>Energy</i> , 2022 , 238, 122053	7.9	7
75	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> , 2021 , 145, 52-62	5.5	12
74	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> , 2021 , 99, 364-379	6.3	7
73	In line upgrading of biomass fast pyrolysis products using low-cost catalysts. <i>Fuel</i> , 2021 , 296, 120682	7.1	9
72	On the pyrolysis of different microalgae species in a conical spouted bed reactor: Bio-fuel yields and characterization. <i>Bioresource Technology</i> , 2020 , 311, 123561	11	23
71	Thermodynamic assessment of the oxidative steam reforming of biomass fast pyrolysis volatiles. <i>Energy Conversion and Management</i> , 2020 , 214, 112889	10.6	11
70	Experimental study and modeling of biomass char gasification kinetics in a novel thermogravimetric flow reactor. <i>Chemical Engineering Journal</i> , 2020 , 396, 125200	14.7	14
69	Waste Plastics Valorization by Fast Pyrolysis and in Line Catalytic Steam Reforming for Hydrogen Production 2020 ,		2
68	Effect of La ₂ O ₃ promotion on a Ni/Al ₂ O ₃ catalyst for H ₂ production in the in-line biomass pyrolysis-reforming. <i>Fuel</i> , 2020 , 262, 116593	7.1	31
67	Catalytic steam reforming of biomass fast pyrolysis volatiles over Ni ₀ Co bimetallic catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 91, 167-181	6.3	28
66	Effect of CeO ₂ and MgO promoters on the performance of a Ni/Al ₂ O ₃ catalyst in the steam reforming of biomass pyrolysis volatiles. <i>Fuel Processing Technology</i> , 2020 , 198, 106223	7.2	39
65	Influence of reactor and condensation system design on tyre pyrolysis products yields. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 143, 104683	6	16
64	Effect of calcination conditions on the performance of Ni/MgO/Al ₂ O ₃ catalysts in the steam reforming of biomass fast pyrolysis volatiles. <i>Catalysis Science and Technology</i> , 2019 , 9, 3947-3963	5.5	21
63	Behaviour of primary catalysts in the biomass steam gasification in a fountain confined spouted bed. <i>Fuel</i> , 2019 , 253, 1446-1456	7.1	41
62	Kinetic modeling and experimental validation of biomass fast pyrolysis in a conical spouted bed reactor. <i>Chemical Engineering Journal</i> , 2019 , 373, 677-686	14.7	28

61	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	10.6	36
60	Improving bio-oil properties through the fast co-pyrolysis of lignocellulosic biomass and waste tyres. <i>Waste Management</i> , 2019 , 85, 385-395	8.6	67
59	Stability of different Ni supported catalysts in the in-line steam reforming of biomass fast pyrolysis volatiles. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 109-120	21.8	69
58	Advantages of confining the fountain in a conical spouted bed reactor for biomass steam gasification. <i>Energy</i> , 2018 , 153, 455-463	7.9	34
57	Coking and sintering progress of a Ni supported catalyst in the steam reforming of biomass pyrolysis volatiles. <i>Applied Catalysis B: Environmental</i> , 2018 , 233, 289-300	21.8	93
56	Evaluation of thermochemical routes for hydrogen production from biomass: A review. <i>Energy Conversion and Management</i> , 2018 , 165, 696-719	10.6	217
55	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> , 2018 , 229, 105-113	21.8	62
54	Role of operating conditions in the catalyst deactivation in the in-line steam reforming of volatiles from biomass fast pyrolysis. <i>Fuel</i> , 2018 , 216, 233-244	7.1	49
53	Valorization of citrus wastes by fast pyrolysis in a conical spouted bed reactor. <i>Fuel</i> , 2018 , 224, 111-120	7.1	72
52	Recent advances in the gasification of waste plastics. A critical overview. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 82, 576-596	16.2	288
51	Regenerability of a Ni catalyst in the catalytic steam reforming of biomass pyrolysis volatiles. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 68, 69-78	6.3	22
50	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	10.6	47
49	Bio-oil production 2018 , 173-202		1
48	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	6	24
47	Kinetic study of the catalytic reforming of biomass pyrolysis volatiles over a commercial Ni/Al ₂ O ₃ catalyst. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 12023-12033	6.7	12
46	Thermochemical routes for the valorization of waste polyolefinic plastics to produce fuels and chemicals. A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 73, 346-368	16.2	335
45	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	10.6	77
44	Evaluation of the properties of tyre pyrolysis oils obtained in a conical spouted bed reactor. <i>Energy</i> , 2017 , 128, 463-474	7.9	69

43	Assessment of a conical spouted with an enhanced fountain bed for biomass gasification. <i>Fuel</i> , 2017 , 203, 825-831	7.1	39
42	Waste truck-tyre processing by flash pyrolysis in a conical spouted bed reactor. <i>Energy Conversion and Management</i> , 2017 , 142, 523-532	10.6	99
41	Steam reforming of plastic pyrolysis model hydrocarbons and catalyst deactivation. <i>Applied Catalysis A: General</i> , 2016 , 527, 152-160	5.1	32
40	Assessment of steam gasification kinetics of the char from lignocellulosic biomass in a conical spouted bed reactor. <i>Energy</i> , 2016 , 107, 493-501	7.9	53
39	Hydrogen production from biomass by continuous fast pyrolysis and in-line steam reforming. <i>RSC Advances</i> , 2016 , 6, 25975-25985	3.7	84
38	Preparation of adsorbents from sewage sludge pyrolytic char by carbon dioxide activation. <i>Chemical Engineering Research and Design</i> , 2016 , 103, 76-86	5.5	43
37	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	87
36	Fast co-pyrolysis of sewage sludge and lignocellulosic biomass in a conical spouted bed reactor. <i>Fuel</i> , 2015 , 159, 810-818	7.1	134
35	Styrene recovery from polystyrene by flash pyrolysis in a conical spouted bed reactor. <i>Waste Management</i> , 2015 , 45, 126-33	8.6	93
34	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	3.9	71
33	Performance of a conical spouted bed pilot plant for bio-oil production by poplar flash pyrolysis. <i>Fuel Processing Technology</i> , 2015 , 137, 283-289	7.2	65
32	Fast pyrolysis of eucalyptus waste in a conical spouted bed reactor. <i>Bioresource Technology</i> , 2015 , 194, 225-32	11	54
31	Effect of polyethylene co-feeding in the steam gasification of biomass in a conical spouted bed reactor. <i>Fuel</i> , 2015 , 153, 393-401	7.1	82
30	Sewage sludge valorization by flash pyrolysis in a conical spouted bed reactor. <i>Chemical Engineering Journal</i> , 2015 , 273, 173-183	14.7	139
29	Kinetic Study of Carbon Dioxide Gasification of Rice Husk Fast Pyrolysis Char. <i>Energy & Fuels</i> , 2015 , 29, 3198-3207	4.1	30
28	HDPE pyrolysis-steam reforming in a tandem spouted bed-fixed bed reactor for H ₂ production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 116, 34-41	6	60
27	Hydrogen Production by High Density Polyethylene Steam Gasification and In-Line Volatile Reforming. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 9536-9544	3.9	35
26	Fast characterization of biomass fuels by thermogravimetric analysis (TGA). <i>Fuel</i> , 2015 , 140, 744-751	7.1	120

25	Bio-oil production from rice husk fast pyrolysis in a conical spouted bed reactor. <i>Fuel</i> , 2014 , 128, 162-169.	7.1	211
24	Development of a dual conical spouted bed system for heat integration purposes. <i>Powder Technology</i> , 2014 , 268, 261-268	5.2	6
23	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	11	108
22	Influence of operating conditions on the steam gasification of biomass in a conical spouted bed reactor. <i>Chemical Engineering Journal</i> , 2014 , 237, 259-267	14.7	121
21	Kinetic modelling of the cracking of HDPE pyrolysis volatiles on a HZSM-5 zeolite based catalyst. <i>Chemical Engineering Science</i> , 2014 , 116, 635-644	4.4	18
20	Design and operation of a conical spouted bed reactor pilot plant (25kg/h) for biomass fast pyrolysis. <i>Fuel Processing Technology</i> , 2013 , 112, 48-56	7.2	129
19	Syngas from steam gasification of polyethylene in a conical spouted bed reactor. <i>Fuel</i> , 2013 , 109, 461-469.	7.1	103
18	Pyrolysis kinetics of forestry residues from the Portuguese Central Inland Region. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 2682-2690	5.5	31
17	Steam gasification of biomass in a conical spouted bed reactor with olivine and alumina as primary catalysts. <i>Fuel Processing Technology</i> , 2013 , 116, 292-299	7.2	82
16	Cracking of High Density Polyethylene Pyrolysis Waxes on HZSM-5 Catalysts of Different Acidity. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 10637-10645	3.9	103
15	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, 512-8	11	51
14	Influence of temperature on biomass pyrolysis in a conical spouted bed reactor. <i>Resources, Conservation and Recycling</i> , 2012 , 59, 23-31	11.9	226
13	Biomass Oxidative Flash Pyrolysis: Autothermal Operation, Yields and Product Properties. <i>Energy & Fuels</i> , 2012 , 26, 1353-1362	4.1	105
12	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 & Engineering Chemistry Research</i> , 2012 , 51, 13915-13923	3.9	79
11	Light olefins from HDPE cracking in a two-step thermal and catalytic process. <i>Chemical Engineering Journal</i> , 2012 , 207-208, 27-34	14.7	105
10	Drying of Biomass in a Conical Spouted Bed with Different Types of Internal Devices. <i>Drying Technology</i> , 2012 , 30, 207-216	2.6	38
9	Kinetic study of lignocellulosic biomass oxidative pyrolysis. <i>Fuel</i> , 2012 , 95, 305-311	7.1	168
8	Effect of Vacuum on Lignocellulosic Biomass Flash Pyrolysis in a Conical Spouted Bed Reactor. <i>Energy & Fuels</i> , 2011 , 25, 3950-3960	4.1	71

7	Operating Conditions for the Pyrolysis of Poly-(ethylene terephthalate) in a Conical Spouted-Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 2064-2069	3.9	90
6	Vacuum Pyrolysis of Waste Tires by Continuously Feeding into a Conical Spouted Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 8990-8997	3.9	78
5	Recycling poly-(methyl methacrylate) by pyrolysis in a conical spouted bed reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010 , 49, 1089-1094	3.7	60
4	Steam activation of pyrolytic tyre char at different temperatures. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009 , 85, 539-543	6	68
3	Catalytic pyrolysis of HDPE in continuous mode over zeolite catalysts in a conical spouted bed reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009 , 85, 345-351	6	137
2	Influence of FCC catalyst steaming on HDPE pyrolysis product distribution. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009 , 85, 359-365	6	77
1	Influence of Tire Formulation on the Products of Continuous Pyrolysis in a Conical Spouted Bed Reactor. <i>Energy & Fuels</i> , 2009 , 23, 5423-5431	4.1	92