

Beatriz Fidalgo

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.

47 papers	2,507 citations	26 h-index	47 g-index
47 ext. papers	2,795 ext. citations	7.5 avg, IF	5.04 L-index

#	Paper	IF	Citations
47	Non-isothermal drying kinetics of human feces. <i>Drying Technology</i> , 2020 , 38, 1819-1827	2.6	1
46	Non-isothermal thermogravimetric kinetic analysis of the thermochemical conversion of human faeces. <i>Renewable Energy</i> , 2019 , 132, 1177-1184	8.1	14
45	Deoxygenation in anisole decomposition over bimetallic catalysts supported on HZSM-5. <i>Fuel</i> , 2019 , 238, 257-266	7.1	18
44	Probabilistic performance assessment of complex energy process systems - The case of a self-sustained sanitation system. <i>Energy Conversion and Management</i> , 2018 , 163, 74-85	10.6	12
43	Thermodynamic analysis of a gamma type Stirling engine in an energy recovery system. <i>Energy Conversion and Management</i> , 2018 , 165, 528-540	10.6	28
42	Influence of temperature and particle size on structural characteristics of chars from Beechwood pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 130, 127-134	6	50
41	Physico-chemical properties of excavated plastic from landfill mining and current recycling routes. <i>Waste Management</i> , 2018 , 76, 55-67	8.6	49
40	Design and commissioning of a multi-mode prototype for thermochemical conversion of human faeces. <i>Energy Conversion and Management</i> , 2018 , 163, 507-524	10.6	11
39	Mechanism of deoxygenation in anisole decomposition over single-metal loaded HZSM-5: Experimental study. <i>Chemical Engineering Journal</i> , 2018 , 336, 211-222	14.7	22
38	Mechanism of hydrodeoxygenation (HDO) in anisole decomposition over metal loaded Brønsted acid sites: Density Functional Theory (DFT) study. <i>Molecular Catalysis</i> , 2018 , 454, 30-37	3.3	19
37	Conceptual environmental impact assessment of a novel self-sustained sanitation system incorporating a quantitative microbial risk assessment approach. <i>Science of the Total Environment</i> , 2018 , 639, 657-672	10.2	13
36	Numerical investigation of microwave-assisted pyrolysis of lignin. <i>Fuel Processing Technology</i> , 2017 , 156, 473-484	7.2	22
35	Techno-economic analysis of biofuel production via bio-oil zeolite upgrading: An evaluation of two catalyst regeneration systems. <i>Biomass and Bioenergy</i> , 2017 , 98, 182-193	5.3	41
34	CFD modelling of particle shrinkage in a fluidized bed for biomass fast pyrolysis with quadrature method of moment. <i>Fuel Processing Technology</i> , 2017 , 164, 51-68	7.2	26
33	Numerical analysis of microwave assisted thermocatalytic decomposition of methane. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 4061-4068	6.7	6
32	The mechanism of transmethylation in anisole decomposition over Brønsted acid sites: density functional theory (DFT) study. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1788-1794	5.8	6
31	Conceptual energy and water recovery system for self-sustained nano membrane toilet. <i>Energy Conversion and Management</i> , 2016 , 126, 352-361	10.6	26

30	Heat integration for bio-oil hydroprocessing coupled with aqueous phase steam reforming. <i>Chemical Engineering Research and Design</i> , 2016 , 107, 73-80	5.5	14
29	Production of bio-syngas and bio-hydrogen via gasification 2016 , 431-494		12
28	Comparative evaluation of GHG emissions from the use of Miscanthus for bio-hydrocarbon production via fast pyrolysis and bio-oil upgrading. <i>Applied Energy</i> , 2016 , 176, 22-33	10.7	21
27	Energy recovery from human faeces via gasification: A thermodynamic equilibrium modelling approach. <i>Energy Conversion and Management</i> , 2016 , 118, 364-376	10.6	39
26	An experimental investigation of the combustion performance of human faeces. <i>Fuel</i> , 2016 , 184, 780-791	7.1	39
25	Mechanism of transmethylation in anisole decomposition over HZSM-5: Experimental study. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016 , 122, 323-331	6	7
24	Chars from agricultural wastes as greener fuels for electric arc furnaces. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 113, 274-280	6	19
23	Kinetic analysis of vacuum residue hydrocracking in early reaction stages. <i>Fuel</i> , 2014 , 117, 408-414	7.1	35
22	The effect of syngas on tar quality and quantity in pyrolysis of a typical South African inertinite-rich coal. <i>Fuel</i> , 2014 , 134, 90-96	7.1	22
21	Conventional and microwave-heated oxygen pulsing techniques on metal-doped activated carbons. <i>Journal of Porous Materials</i> , 2014 , 21, 81-89	2.4	5
20	Production and characterization of Lemna minor bio-char and its catalytic application for biogas reforming. <i>Biomass and Bioenergy</i> , 2012 , 42, 123-131	5.3	87
19	Mixtures of Steel-Making Slag and Carbons as Catalyst for Microwave-Assisted Dry Reforming of CH ₄ . <i>Chinese Journal of Catalysis</i> , 2012 , 33, 1115-1118	11.3	11
18	Effect of H ₂ S on carbon-catalyzed methane decomposition and CO ₂ reforming reactions. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 14187-14194	6.7	29
17	CO ₂ reforming of coke oven gas over a Ni/Al ₂ O ₃ catalyst to produce syngas for methanol synthesis. <i>Fuel</i> , 2012 , 94, 197-203	7.1	78
16	Study of energy consumption in a laboratory pilot plant for the microwave-assisted CO ₂ reforming of CH ₄ . <i>Fuel Processing Technology</i> , 2012 , 95, 55-61	7.2	37
15	Mixtures of carbon and Ni/Al ₂ O ₃ as catalysts for the microwave-assisted CO ₂ reforming of CH ₄ . <i>Fuel Processing Technology</i> , 2011 , 92, 1531-1536	7.2	49
14	Carbon Materials as Catalysts for Decomposition and CO ₂ Reforming of Methane: A Review. <i>Chinese Journal of Catalysis</i> , 2011 , 32, 207-216	11.3	71
13	Dry reforming of coke oven gases over activated carbon to produce syngas for methanol synthesis. <i>Fuel</i> , 2010 , 89, 2897-2902	7.1	85

12	Influence of porosity and surface groups on the catalytic activity of carbon materials for the microwave-assisted CO ₂ reforming of CH ₄ . <i>Fuel</i> , 2010 , 89, 4002-4007	7.1	35
11	Microwave heating processes involving carbon materials. <i>Fuel Processing Technology</i> , 2010 , 91, 1-8	7.2	685
10	Synthesis of carbon-supported nickel catalysts for the dry reforming of CH ₄ . <i>Fuel Processing Technology</i> , 2010 , 91, 765-769	7.2	48
9	Synergetic effect of a mixture of activated carbon+Ni/Al ₂ O ₃ used as catalysts for the CO ₂ reforming of CH ₄ . <i>Applied Catalysis A: General</i> , 2010 , 390, 78-83	5.1	43
8	Pyrolysis of fast-growing aquatic biomass -Lemna minor (duckweed): Characterization of pyrolysis products. <i>Bioresource Technology</i> , 2010 , 101, 8424-8	11	98
7	Bio-syngas production with low concentrations of CO ₂ and CH ₄ from microwave-induced pyrolysis of wet and dried sewage sludge. <i>Chemosphere</i> , 2008 , 70, 397-403	8.4	134
6	Growth of nanofilaments on carbon-based materials from microwave-assisted decomposition of CH ₄ . <i>Applied Surface Science</i> , 2008 , 254, 3553-3557	6.7	28
5	Microwave-assisted pyrolysis of CH ₄ /N ₂ mixtures over activated carbon. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008 , 82, 158-162	6	36
4	Microwave-assisted dry reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4337-4344	6.7	176
3	Biogas to Syngas by Microwave-Assisted Dry Reforming in the Presence of Char. <i>Energy & Fuels</i> , 2007 , 21, 2066-2071	4.1	87
2	Carbon nanofilament synthesis by the decomposition of CH ₄ /CO ₂ under microwave heating. <i>Carbon</i> , 2007 , 45, 1706-1709	10.4	14
1	Microwave-assisted catalytic decomposition of methane over activated carbon for CO ₂ -free hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 4792-4799	6.7	99