F J GutiÃ©rrez Ortiz

List of Publications by Year
in descending order

56 papers	1,528 citations	257450 24 h-index	330143 37 g-index
57 all docs	57 docs citations	57 times ranked	1553 citing authors

#	Article	IF	Citations
1	Pilot-Plant Technical Assessment of Wet Flue Gas Desulfurization Using Limestone. Industrial & Engineering Chemistry Research, 2006, 45, 1466-1477.	3.7	147
2	Methanol synthesis from syngas obtained by supercritical water reforming of glycerol. Fuel, 2013, 105, 739-751.	6.4	76
3	Thermodynamic study of the supercritical water reforming of glycerol. International Journal of Hydrogen Energy, 2011, 36, 8994-9013.	7.1	67
4	Prediction of fixed-bed breakthrough curves for H 2 S adsorption from biogas: Importance of axial dispersion for design. Chemical Engineering Journal, 2016, 289, 93-98.	12.7	54
5	Modeling of fire-tube boilers. Applied Thermal Engineering, 2011, 31, 3463-3478.	6.0	49
6	Experimental study of the supercritical water reforming of glycerol without the addition of a catalyst. Energy, 2013, 56, 193-206.	8.8	46
7	Biogas desulfurization by adsorption on thermally treated sewage-sludge. Separation and Purification Technology, 2014, 123, 200-213.	7.9	45
8	Techno-economic assessment of supercritical processes for biofuel production. Journal of Supercritical Fluids, 2020, 160, 104788.	3.2	44
9	Techno-economic assessment of hydrogen and power production from supercritical water reforming of glycerol. Fuel, 2015, 144, 307-316.	6.4	43
10	Hydrogen production from supercritical water reforming of glycerol over Ni/Al2O3â€“SiO2 catalyst. Energy, 2015, 84, 634-642.	8.8	43
11	Catalytic Seawater Flue Gas Desulfurization Process:Â An Experimental Pilot Plant Study. Environmental Science & Technology, 2007, 41, 7114-7119.	10.0	42
12	An energy and exergy analysis of the supercritical water reforming of glycerol for power production. International Journal of Hydrogen Energy, 2012, 37, 209-226.	7.1	42
13	Life cycle assessment of hydrogen and power production by supercritical water reforming of glycerol. Energy Conversion and Management, 2015, 96, 637-645.	9.2	42
14	Optimization of power and hydrogen production from glycerol by supercritical water reforming. Chemical Engineering Journal, 2013, 218, 309-318.	12.7	40
15	Supercritical water reforming of model compounds of bio-oil aqueous phase: Acetic acid, acetol, butanol and glucose. Chemical Engineering Journal, 2016, 298, 243-258.	12.7	39
16	Modeling and simulation of the adsorption of biogas hydrogen sulfide on treated sewageâ€“sludge. Chemical Engineering Journal, 2014, 253, 305-315.	12.7	37
17	A technical assessment of a particle hybrid collector in a pilot plant. Chemical Engineering Journal, 2007, 127, 131-142.	12.7	32
18	Thermodynamic analysis of the autothermal reforming of glycerol using supercritical water. International Journal of Hydrogen Energy, 2011, 36, 12186-12199.	7.1	32

#	Article	IF	Citations
19	The use of process simulation in supercritical fluids applications. Reaction Chemistry and Engineering, 2020, 5, 424-451.	3.7	30
20	Process integration and exergy analysis of the autothermal reforming of glycerol using supercritical water. Energy, 2012, 42, 192-203.	8.8	28
21	Fischer-Tropsch biofuels production from syngas obtained by supercritical water reforming of the bio-oil aqueous phase. Energy Conversion and Management, 2017, 150, 599-613.	9.2	28
22	Assessment performance of high-temperature filtering elements. Fuel, 2010, 89, 848-854.	6.4	27
23	Supercritical water reforming of glycerol: Performance of Ru and Ni catalysts on Al2O3 support. Energy, 2016, 96, 561-568.	8.8	27
24	Integral energy valorization of municipal solid waste reject fraction to biofuels. Energy Conversion and Management, 2019, 180, 1167-1184.	9.2	27
25	Catalytic Oxidation of S(IV) in Seawater Slurries of Activated Carbon. Environmental Science & Technology, 2005, 39, 5031-5036.	10.0	25
26	Techno-economic assessment of an energy self-sufficient process to produce biodiesel under supercritical conditions. Journal of Supercritical Fluids, 2017, 128, 349-358.	3.2	25
27	Model Predictive Control of a Wet Limestone Flue Gas Desulfurization Pilot Plant. Industrial & Engineering Chemistry Research, 2009, 48, 5399-5405.	3.7	23
28	Dimensional analysis for assessing the performance of electrostatic precipitators. Fuel Processing Technology, 2010, 91, 1783-1793.	7.2	23
29	Techno-economic assessment of biogas plant upgrading by adsorption of hydrogen sulfide on treated sewageâ€“sludge. Energy Conversion and Management, 2016, 126, 411-420.	9.2	23
30	A simple realistic modeling of full-scale wet limestone FGD units. Chemical Engineering Journal, 2010, 165, 426-439.	12.7	22
31	Techno-economic assessment of bio-oil aqueous phase-to-liquids via Fischer-Tropsch synthesis and based on supercritical water reforming. Energy Conversion and Management, 2017, 154, 591-602.	9.2	22
32	Modeling of fixed-bed columns for gas physical adsorption. Chemical Engineering Journal, 2019, 378, 121985.	12.7	22
33	Investigation into the parameters of influence on dust cake porosity in hot gas filtration. Powder Technology, 2014, 264, 592-598.	4.2	21
34	Using Neural Networks to Address Nonlinear pH Control in Wet Limestone Flue Gas Desulfurization Plants. Industrial & Engineering Chemistry Research, 2010, 49, 2263-2272.	3.7	19
35	Modeling of the in-duct sorbent injection process for flue gas desulfurization. Separation and Purification Technology, 2008, 62, 571-581.	7.9	17
36	Life cycle assessment of the Fischer-Tropsch biofuels production by supercritical water reforming of the bio-oil aqueous phase. Energy, 2020, 210, 118648.	8.8	17

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37	Hydrogen production from supercritical water reforming of acetic acid, acetol, 1-butanol and glucose over Ni-based catalyst. Journal of Supercritical Fluids, 2018, 138, 259-270.	3.2	16
38	Development of contemporary engineering graduate attributes through open-ended problems and activities. European Journal of Engineering Education, 2021, 46, 441-456.	2.3	15
39	A pilot plant technical assessment of an advanced in-duct desulphurisation process. Journal of Hazardous Materials, 2001, 83, 197-218.	12.4	14
40	Turnover rates for the supercritical water reforming of glycerol on supported Ni and Ru catalysts. Fuel, 2016, 180, 417-423.	6.4	14
41	Flue-Gas Desulfurization in an Advanced in-Duct Desulfurization Process:â€‰ An Empirical Model from an Experimental Pilot-Plant Study. Industrial & Engineering Chemistry Research, 2003, 42, 6625-6637.	3.7	12
42	Autothermal Reforming of Glycerol with Supercritical Water for Maximum Power through a Turbine Plus a Fuel Cell. Energy & Fuels, 2013, 27, 576-587.	5.1	12
43	Syngas methanation from the supercritical water reforming of glycerol. Energy, 2014, 76, 584-592.	8.8	12
44	Flue-Gas Desulfurization in Circulating Fluidized Beds:Â An Empirical Model from an Experimental Pilot-Plant Study. Industrial & Engineering Chemistry Research, 2001, 40, 5640-5648.	3.7	11
45	A technical pilot plant assessment of flue gas desulfurisation in a circulating fluidised bed. Journal of Environmental Management, 2002, 7, 73-85.	1.7	11
46	Controllability Analysis and Decentralized Control of a Wet Limestone Flue Gas Desulfurization Plant. Industrial & Engineering Chemistry Research, 2008, 47, 9931-9940.	3.7	10
47	A realistic approach to modeling an in-duct desulfurization process based on an experimental pilot plant study. Chemical Engineering Journal, 2008, 141, 141-150.	12.7	9
48	Dynamic Analysis and Identification of a Wet Limestone Flue Gas Desulfurization Pilot Plant. Industrial & Engineering Chemistry Research, 2008, 47, 8263-8272.	3.7	9
49	Effect of mixing bio-oil aqueous phase model compounds on hydrogen production in non-catalytic supercritical reforming. Reaction Chemistry and Engineering, 2017, 2, 679-687.	3.7	8
50	Assessment of plateâ€“wire electrostatic precipitators based on dimensional and similarity analyses. Fuel, 2011, 90, 2827-2835.	6.4	7
51	High performance regenerative adsorption of hydrogen sulfide from biogas on thermally-treated sewage-sludge. Fuel Processing Technology, 2016, 145, 148-156.	7.2	6
52	A new time-dependent rate constant of the coalescence kernel for the modelling of fluidised bed granulation. Powder Technology, 2021, 379, 321-334.	4.2	6
53	Biofuel production from supercritical water gasification of sustainable biomass. Energy Conversion and Management: X, 2022, 14, 100164.	1.6	2
54	Heat Transfer Limitations in Supercritical Water Gasification. Energies, 2022, 15, 177.	3.1	2

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55	A pilot-scale laboratory experience for an inductive learning of hydrodynamics in a sieve-tray tower. Education for Chemical Engineers, 2019, 29, 42-55.	4.8	1
56	Energy Hybridization with Combined Heat and Power Technologies in Supercritical Water Gasification Processes. Applied Sciences (Switzerland), 2022, 12, 5497.	2.5	1