

Bruno Piriou

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

515
citations

840776

11
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

750
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass gasification in a catalytic fluidized reactor with beds of different materials. Chemical Engineering Journal, 2009, 154, 369-374.	12.7	136
2	Influence of engine load and fuel droplet size on performance of a CI engine fueled with cottonseed oil and its blends with diesel fuel. Applied Energy, 2013, 111, 1046-1053.	10.1	61
3	Potential direct use of solid biomass in internal combustion engines. Progress in Energy and Combustion Science, 2013, 39, 169-188.	31.2	58
4	Rh-perovskite catalysts for conversion of tar from biomass pyrolysis. Chemical Engineering Journal, 2009, 154, 361-368.	12.7	45
5	Combustion of vegetable oils under optimized conditions of atomization and granulometry in a modified fuel oil burner. Fuel, 2014, 118, 329-334.	6.4	36
6	Oxidative pyrolysis of pine wood, wheat straw and miscanthus pellets in a fixed bed. Fuel Processing Technology, 2018, 178, 226-235.	7.2	31
7	Dual bed reactor for the study of catalytic biomass tars conversion. Experimental Thermal and Fluid Science, 2010, 34, 269-274.	2.7	29
8	Comparative analysis of wood and solid recovered fuels gasification in a downdraft fixed bed reactor. Waste Management, 2019, 85, 106-120.	7.4	29
9	Structure, crystal chemistry and magnetism of rare earth calcium-doped cobaltates: $\text{Ln}_2\text{Ca}_x\text{CoO}_4$ (Ln=Pr, Nd, Sm, Eu and Gd). Solid State Sciences, 2011, 13, 2113-2123.	3.2	18
10	Comparative comminution efficiencies of rotary, stirred and vibrating ball-mills for the production of ultrafine biomass powders. Energy, 2021, 227, 120508.	8.8	15
11	Investigation of the catalytic activity of Rh/LaCoO_3 catalyst in the conversion of tar from biomass devolatilization products. Applied Catalysis A: General, 2010, 385, 123-129.	4.3	14
12	Direct use of biomass powder in internal combustion engines. Sustainable Energy and Fuels, 2019, 3, 2763-2770.	4.9	10
13	Analysis of pollutants in the product gas of a pilot scale downdraft gasifier fed with wood, or mixtures of wood and waste materials. Biomass and Bioenergy, 2019, 125, 139-150.	5.7	8
14	Magnetic properties of spinel-type oxides $\text{NiMn}_{2-x}\text{Me}_x\text{O}_4$. Journal of the Chilean Chemical Society, 2005, 50, .	1.2	8
15	Magnetic properties of $\text{Cu}_{1+x}\text{Mn}_2\text{O}_4$ and $\text{Ni}_{1+x}\text{Mn}_2\text{O}_4$ solid solutions. Journal of the European Ceramic Society, 2007, 27, 3911-3914.	5.7	7
16	Shadowgraphy investigation of the combustion of raw and pre-treated single biomass particles: Influence of particle size and volatile content. Fuel, 2019, 258, 116113.	6.4	6
17	Vers une généralisation plus «verte» de biodiesels. OCL - Oilseeds and Fats, Crops and Lipids, 2021, 28, 2.		2
18	Oxidative Pyrolysis of Agricultural Residues in Gasification and Carbonization Processes. IOP Conference Series: Earth and Environmental Science, 2018, 159, 012032.	0.3	1

#	ARTICLE	IF	CITATIONS
19	Derivation of the kinetics of devolatilisation and oxidation of pulverized biomass in a drop tube furnace: Sensitivity to volume evolution and drag-coefficient model. Fuel, 2021, 293, 120434.	6.4	1
20	An innovative device for powders classification based on combined aerodynamic and electrostatic separation of particles. EPJ Web of Conferences, 2017, 140, 16005.	0.3	0