Eduardo Osorio

List of Publications by Year
in descending order

36 papers	839 citations	430874 18 h-index	501196 28 g-index
36 all docs	36 docs citations	36 times ranked	1024 citing authors

#	Article	IF	Citations
1	Automated procedure for coke microstructural characterization in imagej software aiming industrial application. Fuel, 2021, 304, 121374.	6.4	15
2	Evaluation of the thermoplastic behavior of charcoal, coal tar and coking coal blends. Journal of Materials Research and Technology, 2020, 9, 3406-3410.	5.8	14
3	Non-isothermal kinetic study of fodder radish seed cake pyrolysis: performance of model-free and model-fitting methods. Brazilian Journal of Chemical Engineering, 2020, 37, 139-155.	1.3	5
4	Thermoplastic interaction of ultra-high fluidity Brazilian coal with components of blends. Journal of Materials Research and Technology, 2020, 9, 2737-2743.	5.8	3
5	Steam Gasification of Biochar Derived from the Pyrolysis of Chromeâ€Tanned Leather Shavings. Chemical Engineering and Technology, 2019, 42, 2530-2538.	1.5	8
6	Investigation of the Structure of the Biochar Obtained by Slow Pyrolysis of Elephant Grass during Its Steam Gasification. Chemical Engineering and Technology, 2019, 42, 2546-2555.	1.5	6
7	Evaluation of zinc removal and compressive strength of self-reducing pellets composed of Electric Arc Furnace Dust. REM: International Engineering Journal, 2019, 72, 71-77.	0.4	0
8	Multi-technique characterization of chromated copper arsenate-treated wooden utility poles from the Brazilian electricity network. European Journal of Wood and Wood Products, 2019, 77, 279-291.	2.9	1
9	Carbothermic reduction of Electric Arc Furnace Dust via thermogravimetry. REM: International Engineering Journal, 2018, 71, 411-418.	0.4	4
10	Critical analysis of non-isothermal kinetics of poultry litter pyrolysis. Journal of Thermal Analysis and Calorimetry, 2018, 134, 2329-2338.	3.6	5
11	Effect of charcoal blending with a vitrinite rich coking coal on coke reactivity. Fuel Processing Technology, 2017, 155, 97-105.	7.2	44
12	How coke optical texture became a relevant tool for understanding coal blending and coke quality. Fuel Processing Technology, 2017, 164, 13-23.	7.2	45
13	Steam gasification of biochar derived from elephant grass pyrolysis in a screw reactor. Energy Conversion and Management, 2017, 153, 163-174.	9.2	50
14	Demineralization of Brazilian Coals for Use in Gasification and Oxy-Fuel Combustion Processes, Aiming to Reduce CO₂ Emissions. Energy & Fuels, 2017, 31, 8560-8571.	5.1	5
15	On the reduction behavior, structural and mechanical features of iron ore-carbon briquettes. Fuel Processing Technology, 2017, 155, 238-245.	7.2	23
16	Pulverized combustion under conventional (O 2 /N 2) and oxy-fuel (O 2 /CO 2) conditions of biomasses treated at different temperatures. Fuel Processing Technology, 2017, 155, 174-182.	7.2	19
17	Scale Recycling Through Self-Reducing Briquettes to Use in EAF. ISIJ International, 2017, 57, 2081-2090.	1.4	9
18	Combustibility and reactivity of coal blends and charcoal fines aiming use in ironmaking. Materials Research, 2016, 19, 594-601.	1.3	9

#	Article	IF	Citations
19	Combustion of eucalyptus charcoals and coals of similar volatile yields aiming at blast furnace injection in a CO2 mitigation environment. Journal of Cleaner Production, 2016, 129, 1-11.	9.3	45
20	Kinetics of the Oxy-fuel Combustion of High-Ash-Content Coal from the Candiota Mine, Rio Grande do Sul. Energy & Fuels, 2016, 30, 1958-1964.	5.1	2
21	Carbon Gasification in Self-reducing Mixtures. ISIJ International, 2014, 54, 2687-2696.	1.4	18
22	Review of the rice production cycle: By-products and the main applications focusing on rice husk combustion and ash recycling. Waste Management and Research, 2014, 32, 1034-1048.	3.9	95
23	Integrating physicochemical information to follow the transformations of biomass upon torrefaction and low-temperature carbonization. Fuel, 2014, 131, 17-27.	6.4	61
24	Study of coal, char and coke fines structures and their proportions in the off-gas blast furnace samples by X-ray diffraction. Fuel, 2013, 114, 224-228.	6.4	79
25	Aspects for a cleaner production approach for coal and biomass use as a decentralized energy source in southern Brazil. Journal of Cleaner Production, 2013, 47, 85-95.	9.3	31
26	Study on reducing and melting behavior of mill scale/petroleum coke blend. Tecnologia Em Metalurgia, Materiais E Mineracao, 2013, 10, 365-374.	0.2	8
27	Characterization and Reduction Behavior of Mill Scale. ISIJ International, 2011, 51, 1072-1079.	1.4	56
28	Reactivity to CO2 of chars prepared in O2/N2 and O2/CO2 mixtures for pulverized coal injection (PCI) in blast furnace in relation to char petrographic characteristics. International Journal of Coal Geology, 2010, 84, 293-300.	5.0	19
29	Reactivity of brazilian coal, charcoal, imported coal and blends aiming to their injection into blast furnaces. Materials Research, 2010, 13, 287-292.	1.3	26
30	Non-isothermal combustion behaviour of coal blends in a thermobalance as seen by optical microscopy. Thermochimica Acta, 2008, 475, 1-7.	2.7	11
31	Coal char combustion under a CO2-rich atmosphere: Implications for pulverized coal injection in a blast furnace. Fuel Processing Technology, 2008, 89, 1017-1024.	7.2	29
32	Thermal analysis evaluation of the reactivity of coal mixtures for injection in the blast furnace. Materials Research, 2006, 9, 91-95.	1.3	20
33	Evaluation of petrology and reactivity of coal blends for use in pulverized coal injection (PCI). International Journal of Coal Geology, 2006, 68, 14-29.	5.0	44
34	Exploring the possibilities of using Brazilian subbituminous coals for blast furnace pulverized fuel injection. Fuel, 2005, 84, 763-772.	6.4	30
35	DESENVOLVIMENTO DE EQUIPAMENTO DE LABORATÃ“RIO PARA SIMULAR PCI EM ALTOS-FORNOS. , 0, , .		0
36	Treatment of a forging industry graphite-rich wastewater and sludge characterization. , 0, 112, 72-79.		0