Carlos T Pinho

List of Publications by Year
in descending order

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45 papers	501 citations	759233 12 h-index	713466 21 g-index
45 all docs	45 docs citations	45 times ranked	449 citing authors

#	Article	IF	Citations
1	Combustion Characteristics of Premixed Hydrogen/Air in an Undulate Microchannel. Energies, 2022, 15, 626.	3.1	4
2	Determination of Combustion Kinetic Data of Some Agricultural Wastes from the Galicia-Northern Portugal Euroregion. Waste and Biomass Valorization, 2021, 12, 3091-3107.	3.4	2
3	Analysis of the thermal performance of an uncovered 1-hectare solar pond in Benguela, Angola. Case Studies in Thermal Engineering, 2021, 27, 101254.	5.7	4
4	Co-Gasification of Crude Glycerol/Animal Fat Mixtures. Energies, 2020, 13, 1699.	3.1	2
5	COMPARATIVE ANALYSIS OF FLUIDIZED AND FIXED BEDS TO OBTAIN DATA ON THE CHAR PELLET'S COMBUSTION REGIME. International Journal of Energy for A Clean Environment, 2020, 21, 237-268.	1.1	4
6	Impact of Road Geometry on Vehicle Energy Consumption and CO2 Emissions: An Energy-Efficiency Rating Methodology. Energies, 2020, 13, 119.	3.1	16
7	Gasification of Crude Glycerol after Salt Removal. Energy & Fuels, 2019, 33, 9942-9948.	5.1	9
8	Analysis of kinetic and diffusive data from the combustion of char pellets made with hybrid mixtures. Energy, 2019, 181, 1179-1188.	8.8	3
9	Assessment of an Innovative Way to Store Hydrogen in Vehicles. Energies, 2019, 12, 1762.	3.1	6
10	Impacts of Dilution on Hydrogen Combustion Characteristics and NOx Emissions. Journal of Heat Transfer, 2019, 141, .	2.1	6
11	Test of Two Phase Change Materials for Thermal Energy Storage: Determination of the Global Heat Transfer Coefficient. ChemEngineering, 2018, 2, 10.	2.4	3
12	Evolution of global heat transfer coefficient on PCM energy storage cycles. Energy Procedia, 2017, 136, 188-195.	1.8	4
13	Simple Methodology To Quantify the Fragmentation on Batches of Char Pellets During Fluidized Bed Combustion. Energy & Fuels, 2017, 31, 5073-5078.	5.1	1
14	Fluidized bed combustion of char pellets made from blends of shrubs and cork residues. , 2017, , .		1
15	Numerical studies of fuel-rich micro combustion: effect of N2 dilution on NOx emissions. , 2017, , .		1
16	Energy and exergy analysis of an aromatics plant. Case Studies in Thermal Engineering, 2016, 8, 115-127.	5.7	15
17	Analysis of the fluidized bed combustion behavior of Quercus ilex char. Applied Thermal Engineering, 2015, 81, 346-352.	6.0	5
18	Sizing of a Domestic Hot Water Heating and Storage System for Short Operating Cycles - A Theoretical Approach. International Review of Mechanical Engineering, 2015, 9, 400.	0.2	2

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19	Influence of particle fragmentation and non-sphericity on the determination of diffusive and kinetic fluidized bed biochar combustion data. Fuel, 2014, 131, 77-88.	6.4	19
20	REDUCED MECHANISM FOR COMBUSTION OF HYDROGEN AND METHANE WITH NITROGEN CHEMISTRY. Computational Thermal Sciences, 2014, 6, 541-551.	0.9	1
21	Determination of Fluidized Bed Combustion Kinetic and Diffusive Data of Four Wood Chars from the Central Region of Portugal. Energy & Fuels, 2013, 27, 7521-7530.	5.1	11
22	Theoretical Considerations about the Steady State Combustion of Wood Char in a Bubbling Fluidized Bed Reactor. Energy and Power Engineering, 2013, 05, 212-224.	0.8	1
23	Study on Heat Transfer from a Bubbling Fluidized Bed Combustor to a Membrane Wall. International Journal of Chemical Reactor Engineering, 2012, 10, .	1.1	2
24	Fluidized-Bed Combustion of Selected Wood Chars from the Semi-arid Northeastern Region of Brazil. Energy & Fuels, 2012, 26, 400-406.	5.1	7
25	The positive displacement method for calibration of gas flow meters. The influence of gas compressibility. Applied Thermal Engineering, 2012, 41, 111-115.	6.0	10
26	Kinetic and diffusive data from batch combustion of wood chars in fluidized bed. Biomass and Bioenergy, 2011, 35, 4124-4133.	5.7	13
27	Fragmentation Effect on Batches of Pine Wood Char Burning in a Fluidized Bed. Energy & Fuels, 2010, 24, 318-323.	5.1	10
28	Splash and Disengagement Zone Heat Transfer in a Propane-Burning Fluidized Bed. Experimental Heat Transfer, 2009, 22, 73-86.	3.2	1
29	CONSIDERATIONS ON EXPERIMENTAL STUDIES OF VEGETABLE CHAR COMBUSTION IN FLUIDIZED BED. International Journal of Energy for A Clean Environment, 2009, 10, 203-215.	1.1	3
30	Spouted bed drying of cork stoppers. Chemical Engineering and Processing: Process Intensification, 2008, 47, 2395-2401.	3.6	23
31	INFLUENCE OF THE DISTRIBUTOR PLATE AND OPERATING CONDITIONS ON THE FLUIDIZATION QUALITY OF A GAS FLUIDIZED BED. Chemical Engineering Communications, 2008, 196, 342-361.	2.6	5
32	A SIMPLE APPROACH TO NUMERICAL MODELING OF PROPANE COMBUSTION IN FLUIDIZED BEDS. Chemical Engineering Communications, 2008, 196, 305-329.	2.6	4
33	Considerations about equations for steady state flow in natural gas pipelines. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2007, 29, 262-273.	1.6	86
34	Combustion of slugs of propane and air moving up through an incipiently fluidized bed. Combustion Theory and Modelling, 2007, 11, 401-425.	1.9	2
35	Fragmentation on batches of coke or char particles during fluidized bed combustion. Chemical Engineering Journal, 2006, 115, 147-155.	12.7	12
36	Overall characterization of cork dust explosion. Journal of Hazardous Materials, 2006, 133, 183-195.	12.4	65

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37	Explosibility of cork dust in methane/air mixtures. Journal of Loss Prevention in the Process Industries, 2006, 19, 17-23.	3.3	61
38	The Influence of the Distributor Plate on the Bottom Zone of a Fluidized Bed Approaching the Transition from Bubbling to Turbulent Fluidization. Chemical Engineering Research and Design, 2004, 82, 25-33.	5.6	15
39	Generic Behaviour of Propane Combustion in Fluidized Beds. Chemical Engineering Research and Design, 2004, 82, 1597-1603.	5.6	18
40	Influence of initial pressure on the explosibility of cork dust/air mixtures. Journal of Loss Prevention in the Process Industries, 2004, 17, 87-96.	3.3	25
41	First and Second-Law Efficiencies in a New Thermodynamical Diagram. Journal of Non-Equilibrium Thermodynamics, 2002, 27, .	4.2	4
42	Pressure Drop in Packed Shallow Beds of Cylindrical Cork Stoppers. Chemical Engineering Research and Design, 2001, 79, 547-552.	5.6	7
43	A dimensionless analysis of radial heat conduction with variable external convection boundary conditions. International Communications in Heat and Mass Transfer, 2001, 28, 489-497.	5.6	4
44	Heat conduction in the hollow sphere with a power-law variation of the external heat transfer coefficient. International Communications in Heat and Mass Transfer, 2000, 27, 1067-1076.	5.6	4
45	A SIMPLE ANALYSIS OF THE EXERGETIC PERFORMANCE OF THE HOT WATER STORAGE AND THE TANKLESS PRODUCTION SYSTEMS. , 0, , .		0