

Josã Luiz Francisco Alves

List of Publications by Year in descending order

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36
papers

894
citations

430442

18
h-index

500791

28
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36
all docs

36
docs citations

36
times ranked

546
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal investigation of plastic solid waste pyrolysis via the deconvolution technique using the asymmetric double sigmoidal function: Determination of the kinetic triplet, thermodynamic parameters, thermal lifetime and pyrolytic oil composition for clean energy recovery. <i>Energy Conversion and Management</i> , 2019, 200, 112031.	4.4	82
2	Kinetics and thermodynamics parameters evaluation of pyrolysis of invasive aquatic macrophytes to determine their bioenergy potentials. <i>Biomass and Bioenergy</i> , 2019, 121, 28-40.	2.9	74
3	Prospecting pecan nutshell pyrolysis as a source of bioenergy and bio-based chemicals using multicomponent kinetic modeling, thermodynamic parameters estimation, and Py-GC/MS analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111753.	8.2	54
4	Determination of the Bioenergy Potential of Brazilian Pine-Fruit Shell via Pyrolysis Kinetics, Thermodynamic Study, and Evolved Gas Analysis. <i>Bioenergy Research</i> , 2019, 12, 168-183.	2.2	53
5	Pyrolysis kinetic evaluation by single-step for waste wood from reforestation. <i>Waste Management</i> , 2018, 72, 265-273.	3.7	46
6	Insights into the bioenergy potential of jackfruit wastes considering their physicochemical properties, bioenergy indicators, combustion behaviors, and emission characteristics. <i>Renewable Energy</i> , 2020, 155, 1328-1338.	4.3	45
7	Bioenergy potential of red macroalgae <i>Gelidium floridanum</i> by pyrolysis: Evaluation of kinetic triplet and thermodynamics parameters. <i>Bioresource Technology</i> , 2019, 291, 121892.	4.8	44
8	Pyrolysis of the freshwater macroalgae <i>Spirogyra crassa</i> : Evaluating its bioenergy potential using kinetic triplet and thermodynamic parameters. <i>Renewable Energy</i> , 2021, 179, 1169-1178.	4.3	36
9	Exploring Açaí-Seed (<i>Euterpe oleracea</i>) Pyrolysis Using Multi-component Kinetics and Thermodynamics Assessment Towards its Bioenergy Potential. <i>Bioenergy Research</i> , 2021, 14, 209-225.	2.2	34
10	Combustion of pistachio shell: physicochemical characterization and evaluation of kinetic parameters. <i>Environmental Science and Pollution Research</i> , 2018, 25, 21420-21429.	2.7	33
11	Pyrolysis of cocoa shell and its bioenergy potential: evaluating the kinetic triplet, thermodynamic parameters, and evolved gas analysis using TGA-FTIR. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 723-739.	2.9	33
12	Evaluation of gaseous emissions from thermal conversion of a mixture of solid municipal waste and wood chips in a pilot-scale heat generator. <i>Renewable Energy</i> , 2019, 141, 402-410.	4.3	29
13	Investigation of the bioenergy potential of microalgae <i>Scenedesmus acuminatus</i> by physicochemical characterization and kinetic analysis of pyrolysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 3269-3280.	2.0	28
14	Prospection of catole coconut (<i>Syagrus cearensis</i>) as a new bioenergy feedstock: Insights from physicochemical characterization, pyrolysis kinetics, and thermodynamics parameters. <i>Renewable Energy</i> , 2022, 181, 207-218.	4.3	27
15	Demonstrating the Suitability of Tamarind Residues to Bioenergy Exploitation Via Combustion Through Physicochemical Properties, Performance Indexes, and Emission Characteristics. <i>Bioenergy Research</i> , 2020, 13, 1308-1320.	2.2	26
16	Investigation on prospective bioenergy from pyrolysis of butia seed waste using TGA-FTIR: Assessment of kinetic triplet, thermodynamic parameters and evolved volatiles. <i>Renewable Energy</i> , 2022, 191, 238-250.	4.3	24
17	Kinetic and thermodynamics study of the pyrolytic process of the freshwater macroalga, <i>Chara vulgaris</i> . <i>Journal of Applied Phycology</i> , 2021, 33, 2511-2521.	1.5	22
18	Pyrolysis kinetics and physicochemical characteristics of skin, husk, and shell from green coconut wastes. <i>Energy, Ecology and Environment</i> , 2019, 4, 125-132.	1.9	20

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19	Insights into pyrolysis characteristics of Brazilian high-ash sewage sludges using thermogravimetric analysis and bench-scale experiments with GC-MS to evaluate their bioenergy potential. <i>Biomass and Bioenergy</i> , 2020, 138, 105614.	2.9	20
20	Upgrading of banana leaf waste to produce solid biofuel by torrefaction: physicochemical properties, combustion behaviors, and potential emissions. <i>Environmental Science and Pollution Research</i> , 2022, 29, 25733-25747.	2.7	18
21	Experimental evaluation of the separation of aromatic compounds using falling film distillation on a pilot scale. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 130, 296-308.	1.8	17
22	Evaluating the bioenergy potential of cupuassu shell through pyrolysis kinetics, thermodynamic parameters of activation, and evolved gas analysis with TG/FTIR technique. <i>Thermochimica Acta</i> , 2022, 711, 179187.	1.2	16
23	Thermo-kinetic investigation of the multi-step pyrolysis of smoked cigarette butts towards its energy recovery potential. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 741-755.	2.9	14
24	Ethanol enrichment from an aqueous stream using an innovative multi-tube falling film distillation column equipped with a biphasic thermosiphon. <i>Chemical Engineering Research and Design</i> , 2020, 139, 69-75.	2.7	14
25	Assessing the bioenergy potential of high-ash anaerobic sewage sludge using pyrolysis kinetics and thermodynamics to design a sustainable integrated biorefinery. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 693-704.	2.9	13
26	Xanthan gum-based film-forming suspension containing essential oils: Production and in vitro antimicrobial activity evaluation against mastitis-causing microorganisms. <i>LWT - Food Science and Technology</i> , 2022, 153, 112470.	2.5	12
27	Potential of macauba endocarp (<i>Acrocomia aculeate</i>) for bioenergy production: Multi-component kinetic study and estimation of thermodynamic parameters of activation. <i>Thermochimica Acta</i> , 2022, 708, 179134.	1.2	10
28	Application of a new pilot-scale distillation system for monoethylene glycol recovery using an energy saving falling film distillation column. <i>Chemical Engineering Research and Design</i> , 2020, 153, 263-275.	2.7	9
29	Kinetic modeling of CO ₂ gasification of biochars prepared from Brazilian agro-industrial residues: effect of biomass indigenous mineral content. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 6675-6688.	2.9	8
30	Lignocellulosic Residues from the Brazilian Juice Processing Industry as Novel Sustainable Sources for Bioenergy Production: Preliminary Assessment Using Physicochemical Characteristics. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	8
31	Torrefaction of low-value agro-industrial wastes using macro-TGA with GC-TCD/FID analysis: Physicochemical characterization, kinetic investigation, and evolution of non-condensable gases. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 166, 105607.	2.6	8
32	Effect of compacting conditions on the viscoelastic properties of banana leaf waste and briquette quality. <i>Environmental Science and Pollution Research</i> , 2022, 29, 25970-25979.	2.7	5
33	Pyrolysis kinetics and thermodynamic parameters of macroalgae <i>Cladophora glomerata</i> based on multi-step devolatilization to assess its bioenergy potential. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	5
34	An insight into the thermokinetics of the pyrolysis of invasive grass <i>Sorghum halepense</i> towards its bioenergy potential. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 5305-5318.	2.9	5
35	Triethylene glycol recovery by an energetically intensified thermosyphon-assisted falling film distillation unit: Experimental assessment on a pilot-scale unit and in-silico comparison with a conventional column from natural gas processing. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 176, 108970.	1.8	2
36	SÃntese de carvÃ£o ativado fisicamente com vapor de Ãgua visando tratamento de efluentes industriais para fins de reÃso. , 2021, , .		0