

Andrés Armando Mendiburu Zevallos

List of Publications by Year in descending order

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papers

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citations

623574

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g-index

45
all docs

45
docs citations

45
times ranked

611
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust multi-objective optimization of a renewable based hybrid power system. Applied Energy, 2018, 223, 52-68.	5.1	79
2	Thermochemical equilibrium modeling of biomass downdraft gasifier: Stoichiometric models. Energy, 2014, 66, 189-201.	4.5	75
3	Flammability limits: A review with emphasis on ethanol for aeronautical applications and description of the experimental procedure. Journal of Hazardous Materials, 2012, 241-242, 32-54.	6.5	60
4	Thermochemical equilibrium modeling of a biomass downdraft gasifier: Constrained and unconstrained non-stoichiometric models. Energy, 2014, 71, 624-637.	4.5	53
5	Assessment of photovoltaic performance models for system simulation. Renewable and Sustainable Energy Reviews, 2017, 72, 1104-1123.	8.2	52
6	Ethanol as a renewable biofuel: Combustion characteristics and application in engines. Energy, 2022, 257, 124688.	4.5	35
7	Flammability limits of hydrated and anhydrous ethanol at reduced pressures in aeronautical applications. Journal of Hazardous Materials, 2014, 280, 174-184.	6.5	31
8	Determination of lower flammability limits of C _n H _m O compounds in air and study of initial temperature dependence. Chemical Engineering Science, 2016, 144, 188-200.	1.9	22
9	Flammability limits temperature dependence of pure compounds in air at atmospheric pressure. Energy, 2017, 118, 414-424.	4.5	22
10	Estimation of lower flammability limits of CH compounds in air at atmospheric pressure, evaluation of temperature dependence and diluent effect. Journal of Hazardous Materials, 2015, 285, 409-418.	6.5	21
11	Thermodynamic analysis and comparison of downdraft gasifiers integrated with gas turbine, spark and compression ignition engines for distributed power generation. Applied Thermal Engineering, 2014, 66, 290-297.	3.0	19
12	Estimation of upper flammability limits of C _n H _m compounds in air at standard atmospheric pressure and evaluation of temperature dependence. Journal of Hazardous Materials, 2016, 304, 512-521.	6.5	17
13	Difficulties on the determination of the flammability limits of fuel mixtures by the Law of Le Chatelier. Chemical Engineering Research and Design, 2020, 142, 45-55.	2.7	17
14	Method for determination of flammability limits of gaseous compounds diluted with N ₂ and CO ₂ in air. Fuel, 2018, 226, 65-80.	3.4	15
15	Determination of upper flammability limits of C _n H _m O compounds in air at reference temperature and atmospheric pressure. Fuel, 2017, 188, 212-222.	3.4	12
16	Fast-flame limit for hydrogen/methane-air mixtures. Proceedings of the Combustion Institute, 2019, 37, 3661-3668.	2.4	12
17	Energetic analysis of reheating furnaces in the combustion of coke oven gas, Linz-Donawitz gas and blast furnace gas in the steel industry. Applied Thermal Engineering, 2020, 169, 114905.	3.0	12
18	DDT limits of ethanol-air in an obstacles-filled tube. Combustion Science and Technology, 2023, 195, 1-16.	1.2	10

#	ARTICLE	IF	CITATIONS
19	Modeling of syngas composition obtained from fixed bed gasifiers using Kuhn-Tucker multipliers. Fuel, 2021, 287, 119068.	3.4	10
20	Characterization of the flame front inversion of Ethanol-Air deflagrations inside A closed tube. Energy, 2019, 187, 115932.	4.5	8
21	Thermodynamic study of syngas combustion in gas microturbines with regeneration composed with metallic and ceramic materials. Applied Thermal Engineering, 2019, 157, 113285.	3.0	8
22	Design and study of a pure tire pyrolysis oil (TPO) and blended with Brazilian diesel using Y-Jet atomizer. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	8
23	Prediction of flammability limits for ethanol-air blends by the Kriging regression model and response surfaces. Fuel, 2017, 210, 410-424.	3.4	7
24	Modeling of syngas composition obtained from fluidized bed gasifiers using Kuhn-Tucker multipliers. Energy, 2018, 152, 371-382.	4.5	7
25	Experimental determination of lower flammability limits of Synthesized Iso-Paraffins (SIP), jet fuel and mixtures at atmospheric and reduced pressures with air. Fire Safety Journal, 2021, 121, 103276.	1.4	7
26	ANALYTICAL SOLUTION FOR TRANSIENT ONEDIMENSIONAL COUETTE FLOW CONSIDERING CONSTANT AND TIME-DEPENDENT PRESSURE GRADIENTS. Revista De Engenharia TÁ©mica, 2009, 8, 92.	0.0	5
27	Experimental determination of upper flammability limits of synthesized iso-paraffins (SIP), Jet fuel and their mixtures with air at atmospheric and sub-atmospheric pressures. Chemical Engineering Research and Design, 2022, 160, 102-115.	2.7	5
28	Comparative Study Of Solar Irradiation Models. , 2020, , .		3
29	CO2 Emission Factors and Carbon Losses for Off-Road Mining Trucks. Energies, 2022, 15, 2659.	1.6	3
30	Relevant Parameters on the Formation of Tulip Flames. , 2020, , .		1
31	STUDY OF FLAME ACCELERATION IN CLOSED AND HALF-OPEN DUCTS. , 2021, , .		1
32	Optimization of the synthesis gas modeling obtained from a fluidized bed gasifier using the Kuhn-Tucker multipliers. , 2017, , .		0
33	PROPAGATION OF ANHYDROUS ETHANOL-AIR FLAMES WITH DISTINCT EQUIVALENCE RATIOS AT SUB-ATMOSPHERIC PRESSURE. , 2018, , .		0
34	STABILITY AND HEIGHT OF CONFINED INVERSE DIFFUSION FLAMES OF NATURAL GAS AND OXYGEN-ENRICHED AIR.. , 2019, , .		0
35	DIMENSIONLESS MODELS OF INTEGRAL SAUTER MEAN DIAMETER OF THE SPRAY OBTAINED FROM EFFERVESCENT ATOMIZERS. , 2019, , .		0
36	EFFERVESCENT ATOMIZATION MECHANICS. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
37	STATE OF THE ART ON QUENCHING DISTANCE STUDIES. , 2020, , .		0
38	REHEATING FURNACES IN THE STEEL INDUSTRY: UTILIZATION OF COMBUSTION GASES FOR LOAD PREHEATING AND COMBUSTION AIR PREHEATING USING COG, LDG AND BFG AS PROCESS GASES. , 2020, , .		0
39	THE EFFECT OF OXYGEN ENRICHMENT ON THE HEIGHT OF NON- PREMIXED INVERSE DIFFUSION FLAMES. , 2020, , .		0
40	REHEATING FURNACES IN THE STEEL INDUSTRY: REDUCTION OF HEAT TRANSFER LOSSES BY ANALYZING THE TYPES OF INSULATION MATERIALS AND THICKNESS IN EACH LAYER. , 2020, , .		0
41	STABILITY LIMITS OF NON-PREMIXED INVERSE TURBULENT DIFFUSION FLAMES WITH O2 ENRICHMENT. , 2020, , .		0
42	REHEATING FURNACES IN THE STEEL INDUSTRY: DETERMINATION OF THE THERMAL POWERS IN THE COMBUSTION OF COKE OVEN GAS, LINZ-DONAWITZ GAS AND BLAST FURNACE GAS. , 2020, , .		0
43	COMPARISON OF THE THERMAL EFFICIENCY OF A GAS TURBINE WORKING WITH COMBUSTION AND DETONATION CHAMBERS. , 2021, , .		0
44	STRATIFIED TWO-PHASE FLOW MODEL FOR EFFERVESCENT ATOMIZATION. , 2021, , .		0
45	NUMERICAL STUDY OF SHOCK WAVE REFLECTION WHEN INTERACTING WITH A RIGID WEDGE. , 2021, , .		0