Luis E Arteaga-PÃ©rez

List of Publications by Year
in descending order

51 papers	1,110 citations	331259 21 h-index	414034 32 g-index
51 all docs	51 docs citations	51 times ranked	1380 citing authors

#	Article	IF	Citations
1	Waste tires pyrolysis kinetics and reaction mechanisms explained by TGA and Py-GC/MS under kinetically-controlled regime. Waste Management, 2020, 102, 21-29.	3.7	101
2	Torrefaction of wood and bark from Eucalyptus globulus and Eucalyptus nitens: Focus on volatile evolution vs feasible temperatures. Energy, 2015, 93, 1731-1741.	4.5	58
3	Energy and exergy analysis of a sugar cane bagasse gasifier integrated to a solid oxide fuel cell based on a quasi-equilibrium approach. Chemical Engineering Journal, 2013, 228, 1121-1132.	6.6	51
4	Life-Cycle Assessment of coalâ€“biomass based electricity in Chile: Focus on using raw vs torrefied wood. Energy for Sustainable Development, 2015, 29, 81-90.	2.0	51
5	Comprehensive Characterization of Sugarcane Bagasse Ash for Its Use as an Adsorbent. Bioenergy Research, 2015, 8, 1885-1895.	2.2	51
6	Bioethanol steam reforming for ecological syngas and electricity production using a fuel cell SOFC system. Chemical Engineering Journal, 2008, 136, 256-266.	6.6	49
7	Exergoenvironmental analysis of a waste-based Integrated Combined Cycle (WICC) for heat and power production. Journal of Cleaner Production, 2017, 164, 187-197.	4.6	42
8	A modelling approach to the techno-economics of Biomass-to-SNG/Methanol systems: Standalone vs Integrated topologies. Chemical Engineering Journal, 2016, 286, 663-678.	6.6	41
9	Torrefaction of Pinus radiata and Eucalyptus globulus: A combined experimental and modeling approach to process synthesis. Energy for Sustainable Development, 2015, 29, 13-23.	2.0	39
10	Steam torrefaction of Eucalyptus globulus for producing black pellets: A pilot-scale experience. Bioresource Technology, 2017, 238, 194-204.	4.8	38
11	Exergoeconomic valuation of a waste-based integrated combined cycle (WICC) for heat and power production. Energy, 2016, 114, 239-252.	4.5	37
12	Effect of citric acid leaching on the demineralization and thermal degradation behavior of sugarcane trash and bagasse. Biomass and Bioenergy, 2018, 108, 371-380.	2.9	36
13	Energy and exergy analysis of an ethanol fueled solid oxide fuel cell power plant. Chemical Engineering Journal, 2010, 162, 1057-1066.	6.6	35
14	Microencapsulated Bio-Based Rejuvenators for the Self-Healing of Bituminous Materials. Materials, 2020, 13, 1446.	1.3	29
15	An auto-sustainable solid oxide fuel cell system fueled by bio-ethanolProcess simulation and heat exchanger network synthesis. Chemical Engineering Journal, 2009, 150, 242-251.	6.6	28
16	In situ catalytic fast pyrolysis of crude and torrefied Eucalyptus globulus using carbon aerogel-supported catalysts. Energy, 2017, 128, 701-712.	4.5	28
17	Life cycle assessment of innovative insulation panels based on eucalyptus bark fibers. Journal of Cleaner Production, 2020, 249, 119356.	4.6	26
18	Coaxial Spinning of All-Cellulose Systems for Enhanced Toughness: Filaments of Oxidized Nanofibrils Sheathed in Cellulose II Regenerated from a Protic Ionic Liquid. Biomacromolecules, 2020, 21, 878-891.	2.6	25

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19	Tuning the product distribution during the catalytic pyrolysis of waste tires: The effect of the nature of metals and the reaction temperature. Catalysis Today, 2021, 372, 164-174.	2.2	24
20	Pyrolytic oil from waste tyres as a promising encapsulated rejuvenator for the extrinsic self-healing of bituminous materials. Road Materials and Pavement Design, 2021, 22, S117-S133.	2.0	23
21	Integration of Solid Oxide Fuel Cell in a sugarâ€“ethanol factory: analysis of the efficiency and the environmental profile of the products. Journal of Cleaner Production, 2011, 19, 1395-1404.	4.6	21
22	Thermodynamic predictions of performance of a bagasse integrated gasification combined cycle under quasi-equilibrium conditions. Chemical Engineering Journal, 2014, 258, 402-411.	6.6	21
23	An investigation on the modelling of kinetics of thermal decomposition of hazardous mercury wastes. Journal of Hazardous Materials, 2013, 260, 358-367.	6.5	20
24	Catalytic upgrading of biomass-derived vapors on carbon aerogel-supported Ni: Effect of temperature, metal cluster size and catalyst-to-biomass ratio. Fuel Processing Technology, 2018, 178, 251-261.	3.7	19
25	Exergoeconomic evaluation of an ethanol-fueled solid oxide fuel cell power plant. Energy, 2015, 93, 1287-1295.	4.5	16
26	Elucidating the role of ammonia-based salts on the preparation of cellulose-derived carbon aerogels. Chemical Engineering Science, 2017, 161, 80-91.	1.9	16
27	Py-GC/MS based analysis of the influence of citric acid leaching of sugarcane residues as a pretreatment to fast pyrolysis. Journal of Analytical and Applied Pyrolysis, 2018, 134, 465-475.	2.6	16
28	Catalytic pyrolysis of used tires on noble-metal-based catalysts to obtain high-value chemicals: Reaction pathways. Catalysis Today, 2022, 394-396, 475-485.	2.2	16
29	Carbon Aerogel-Supported Nickel and Iron for Gasification Gas Cleaning. Part I: Ammonia Adsorption. Catalysts, 2018, 8, 347.	1.6	15
30	Vertical Subsurface Wetlands for Wastewater Purification. Procedia Engineering, 2012, 42, 1960-1968.	1.2	14
31	Catalytic Conversion of Model Tars over Carbon-Supported Ni and Fe. Catalysts, 2018, 8, 119.	1.6	13
32	Thermal Behavior, Reaction Pathways and Kinetic Implications of Using a Ni/SiO2 Catalyst for Waste Tire Pyrolysis. Waste and Biomass Valorization, 2021, 12, 6465-6479.	1.8	13
33	On the environmental and economic issues associated with the forestry residues-to-heat and electricity route in Chile: Sawdust gasification as a case study. Energy, 2019, 170, 763-776.	4.5	12
34	Synthesis and Characterisation of Alginate-Based Capsules Containing Waste Cooking Oil for Asphalt Self-Healing. Applied Sciences (Switzerland), 2022, 12, 2739.	1.3	12
35	Health external costs associated to the integration of solid oxide fuel cell in a sugarâ€“ethanol factory. Applied Energy, 2014, 113, 1283-1292.	5.1	9
36	One-pot amination of cyclohexanone-to-secondary amines over carbon-supported Pd: Unraveling the reaction mechanism and kinetics. Chemical Engineering Journal, 2021, 417, 129236.	6.6	9

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37	Thermodynamic Analysis of the Hydrogen Production from Ethanol: First and Second Laws Approaches. ISRN Thermodynamics, 2012, 2012, 1-8.	0.6	8
38	Influence of citric acid leaching on the yield and quality of pyrolytic bio-oils from sugarcane residues. Journal of Analytical and Applied Pyrolysis, 2019, 137, 43-53.	2.6	7
39	Valorization of Waste Tires via Catalytic Fast Pyrolysis Using Palladium Supported on Natural Halloysite. Industrial & Engineering Chemistry Research, 2021, 60, 18806-18816.	1.8	7
40	The consequences of surface heterogeneity of cobalt nanoparticles on the kinetics of CO methanation. Catalysis Science and Technology, 2019, 9, 6415-6427.	2.1	6
41	Effect of rejuvenating oil type on the synthesis and properties of alginate-based polynuclear capsules for asphalt self-healing. Road Materials and Pavement Design, 2023, 24, 1669-1694.	2.0	6
42	Fast pyrolysis of raw and acid-leached sugarcane residues en route to producing chemicals and fuels: Economic and environmental assessments. Journal of Cleaner Production, 2021, 296, 126601.	4.6	5
43	Carbothermic reduction of carbon aerogel-supported Fe during the catalytic decomposition of toluene. Catalysis Today, 2021, 372, 82-88.	2.2	4
44	Synthesis and characterisation of biocapsules containing low-cost rejuvenators for asphalt self-healing. RILEM Technical Letters, 0, 6, 1-7.	0.0	3
45	Deshalogenation of Sovtol-10 Using a No-Destructive Method: Pilot Plant Design. Procedia Engineering, 2012, 42, 346-357.	1.2	2
46	Experimental protocol for the study of One-pot amination of Cyclohexanone-to-secondary amines over Carbon-supported Pd. MethodsX, 2021, 8, 101406.	0.7	2
47	Elucidating the Role of Rh/C on the Pathways and Kinetics of Ketoneâ€toâ€Secondary Amines Reaction. ChemCatChem, 2022, 14, .	1.8	2
48	Comparison of Raw and Torrefied Dichrostachys cinerea as a Fuel for Cogeneration Systems: A Life Cycle Assessment. Waste and Biomass Valorization, 2022, 13, 3653-3669.	1.8	2
49	Comprehensive Simple Model on Solid Oxide Fuel Cells. ISRN Chemical Engineering, 2012, 2012, 1-6.	1.2	1
50	Carbon Aerogel-Supported Iron for Gasification Gas Cleaning: Tars Decomposition. Catalysts, 2022, 12, 391.	1.6	1
51	Dataset from analytical pyrolysis assays for converting waste tires into valuable chemicals in the presence of noble-metal catalysts. Data in Brief, 2022, 40, 107745.	0.5	0