## Luz Sanchez-Silva

List of Publications by Year in descending order

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105 papers

4,614 citations

35 h-index 64 g-index

106 all docs

106 does citations

106 times ranked 4846 citing authors

#	Article	IF	CITATIONS
1	Thermogravimetric–mass spectrometric analysis of lignocellulosic and marine biomass pyrolysis. Bioresource Technology, 2012, 109, 163-172.	4.8	332
2	Development of thermo-regulating textiles using paraffin wax microcapsules. Thermochimica Acta, 2010, 498, 16-21.	1.2	218
3	Pyrolysis, combustion and gasification characteristics of Nannochloropsis gaditana microalgae. Bioresource Technology, 2013, 130, 321-331.	4.8	218
4	Microencapsulation of PCMs with a polystyrene shell. Colloid and Polymer Science, 2007, 285, 1377-1385.	1.0	197
5	Microencapsulation of PCMs with a styrene-methyl methacrylate copolymer shell by suspension-like polymerisation. Chemical Engineering Journal, 2010, 157, 216-222.	6.6	181
6	Thermogravimetric-mass spectrometric analysis on combustion of lignocellulosic biomass. Bioresource Technology, 2013, 143, 562-574.	4.8	154
7	Kinetic analysis and thermal characterization of the microalgae combustion process by thermal analysis coupled to mass spectrometry. Applied Energy, 2014, 114, 227-237.	5.1	145
8	Improvement of the thermal behaviour of gypsum blocks by the incorporation of microcapsules containing PCMS obtained by suspension polymerization with an optimal core/coating mass ratio. Applied Thermal Engineering, 2010, 30, 1164-1169.	3.0	136
9	Three integrated process simulation using aspen plus $\hat{A}^{\otimes}$ : Pine gasification, syngas cleaning and methanol synthesis. Energy Conversion and Management, 2018, 177, 416-427.	4.4	134
10	Influence of Different Improved Hummers Method Modifications on the Characteristics of Graphite Oxide in Order to Make a More Easily Scalable Method. Industrial & Engineering Chemistry Research, 2016, 55, 12836-12847.	1.8	118
11	Influence of the reduction strategy in the synthesis of reduced graphene oxide. Advanced Powder Technology, 2017, 28, 3195-3203.	2.0	116
12	Thermal testing and numerical simulation of gypsum wallboards incorporated with different PCMs content. Applied Energy, 2011, 88, 930-937.	5.1	111
13	Pyrolysis of three different types of microalgae: Kinetic and evolved gas analysis. Energy, 2014, 73, 33-43.	4.5	105
14	Influence of operation conditions on the microencapsulation of PCMs by means of suspension-like polymerization. Colloid and Polymer Science, 2008, 286, 1019-1027.	1.0	102
15	Gasification of lignocellulosic biomass char obtained from pyrolysis: Kinetic and evolved gas analyses. Energy, 2014, 71, 456-467.	4.5	95
16	Synthesis and Characterization of Paraffin Wax Microcapsules with Acrylic-Based Polymer Shells. Industrial & Description of Paraffin Wax Microcapsules with Acrylic-Based Polymer Shells.	1.8	92
17	Comparative study of different scalable routes to synthesize graphene oxide and reduced graphene oxide. Materials Chemistry and Physics, 2018, 203, 284-292.	2.0	92
18	Life cycle assessment of swine and dairy manure: Pyrolysis and combustion processes. Bioresource Technology, 2015, 182, 184-192.	4.8	86

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19	Kinetic analysis of manure pyrolysis and combustion processes. Waste Management, 2016, 58, 230-240.	3.7	85
20	Simulation of the gasification of animal wastes in a dual gasifier using Aspen Plus®. Energy Conversion and Management, 2017, 140, 211-217.	4.4	84
21	Effect of the operation conditions on the selective oxidation of glycerol with catalysts based on Au supported on carbonaceous materials. Chemical Engineering Journal, 2011, 178, 423-435.	6.6	70
22	Simulation of biomass gasification in bubbling fluidized bed reactor using aspen plus $\hat{A}^{\text{@}}$ . Energy Conversion and Management, 2021, 235, 113981.	4.4	65
23	Energetic, economic and environmental assessment of the pyrolysis and combustion of microalgae and their oils. Renewable and Sustainable Energy Reviews, 2015, 51, 1752-1770.	8.2	59
24	Valorization of Mexican biomasses through pyrolysis, combustion and gasification processes. Renewable and Sustainable Energy Reviews, 2017, 71, 509-522.	8.2	57
25	Synthesis and characterization of Au supported on carbonaceous material-based catalysts for the selective oxidation of glycerol. Chemical Engineering Journal, 2011, 172, 418-429.	6.6	54
26	Thermal and morphological stability of polystyrene microcapsules containing phaseâ€change materials. Journal of Applied Polymer Science, 2011, 120, 291-297.	1.3	53
27	Solvent-Based Exfoliation via Sonication of Graphitic Materials for Graphene Manufacture. Industrial & Lamp; Engineering Chemistry Research, 2016, 55, 845-855.	1.8	51
28	Effects of freeze-drying conditions on aerogel properties. Journal of Materials Science, 2016, 51, 8977-8985.	1.7	46
29	Immobilized laccase on polyimide aerogels for removal of carbamazepine. Journal of Hazardous Materials, 2019, 376, 83-90.	6.5	46
30	Applying an Experimental Design to Improve the Characteristics of Microcapsules Containing Phase Change Materials for Fabric Uses. Industrial & Engineering Chemistry Research, 2008, 47, 9783-9790.	1.8	45
31	Catalytic oxidation of crude glycerol using catalysts based on Au supported on carbonaceous materials. Applied Catalysis A: General, 2013, 450, 189-203.	2.2	44
32	Comparison of the steam gasification performance of three species of microalgae by thermogravimetric–mass spectrometric analysis. Fuel, 2014, 134, 1-10.	3.4	42
33	Performing the best composition of supported Co/SiC catalyst for selective FTS diesel production. Fuel, 2012, 95, 587-598.	3.4	40
34	Synthesis and characterization of graphene: influence of synthesis variables. Physical Chemistry Chemical Physics, 2014, 16, 2962.	1.3	40
35	Life cycle assessment of olive pomace valorisation through pyrolysis. Renewable Energy, 2018, 122, 589-601.	4.3	40
36	Synergestic effect in the steam co-gasification of olive pomace, coal and petcoke: Thermogravimetric-mass spectrometric analysis. Energy Conversion and Management, 2018, 159, 140-150.	4.4	39

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37	Environmental assessment of olive pomace valorization through two different thermochemical processes for energy production. Journal of Cleaner Production, 2018, 186, 771-781.	4.6	36
38	CO2 gasification process performance for energetic valorization of microalgae. Energy, 2017, 119, 37-43.	4.5	35
39	Linear and crosslinked polyimide aerogels: synthesis and characterization. Journal of Materials Research and Technology, 2019, 8, 2638-2648.	2.6	35
40	Influence of different suspension stabilizers on the preparation of Rubitherm RT31 microcapsules. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 390, 62-66.	2.3	34
41	Characterization of different heat transfer fluids and degradation study by using aÂpilot plant device operating at real conditions. Energy, 2013, 54, 240-250.	4.5	33
42	Preparation and characterization of Fe-PILCs. Influence of the synthesis parameters. Clays and Clay Minerals, 2005, 53, 613-621.	0.6	32
43	Dolomite effect on steam co-gasification of olive pomace, coal and petcoke: TGA-MS analysis, reactivity and synergistic effect. Fuel, 2018, 234, 142-150.	3.4	32
44	PVA/nanoclay/graphene oxide aerogels with enhanced sound absorption properties. Applied Acoustics, 2019, 156, 40-45.	1.7	30
45	Combustion kinetic study of woody and herbaceous crops by thermal analysis coupled to mass spectrometry. Energy, 2015, 90, 1626-1635.	4.5	29
46	CO2 gasification of dairy and swine manure: A life cycle assessment approach. Renewable Energy, 2016, 95, 552-560.	4.3	28
47	Experimental investigation of a thermal storage system using phase change materials. Applied Thermal Engineering, 2016, 107, 264-270.	3.0	27
48	Environmental and economic analysis of bioethanol production from sugarcane molasses and agave juice. Environmental Science and Pollution Research, 2021, 28, 64374-64393.	2.7	27
49	Scale-up of a suspension-like polymerization process for the microencapsulation of phase change materials. Journal of Microencapsulation, 2010, 27, 583-593.	1.2	26
50	Valorization of olive oil industry subproducts: ash and olive pomace fast pyrolysis. Food and Bioproducts Processing, 2021, 125, 37-45.	1.8	25
51	Effect of different concentrations of O 2 under inert and CO 2 atmospheres on the swine manure combustion process. Fuel, 2017, 195, 23-32.	3.4	24
52	Poly(urea-formaldehyde) microcapsules containing commercial paraffin: in situ polymerization study. Colloid and Polymer Science, 2018, 296, 1449-1457.	1.0	23
53	Hydroxyethyl cellulose/alumina-based aerogels as lightweight insulating materials with high mechanical strength. Journal of Materials Science, 2018, 53, 1556-1567.	1.7	22
54	Life cycle assessment of electricity generation from combustion and gasification of biomass in Mexico. Sustainable Production and Consumption, 2021, 27, 72-85.	5.7	22

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55	Gasification versus fast pyrolysis bio-oil production: A life cycle assessment. Journal of Cleaner Production, 2022, 336, 130373.	4.6	22
56	Nanoclay-Based PVA Aerogels: Synthesis and Characterization. Industrial & Engineering Chemistry Research, 2018, 57, 6218-6225.	1.8	21
57	Optimization of the synthesis procedure of microparticles containing gold for the selective oxidation of glycerol. Applied Catalysis A: General, 2014, 472, 11-20.	2.2	20
58	CNF-reinforced polymer aerogels: Influence of the synthesis variables and economic evaluation. Chemical Engineering Journal, 2015, 262, 691-701.	6.6	20
59	Utilization and reusability of hydroxyethyl cellulose alumina based aerogels for the removal of spilled oil. Chemosphere, 2020, 260, 127568.	4.2	20
60	PtRu nanoparticles supported on noble carbons for ethanol electrooxidation. Journal of Energy Chemistry, 2022, 66, 168-180.	7.1	20
61	Comparison of three Mexican biomasses valorization through combustion and gasification: Environmental and economic analysis. Energy, 2019, 189, 116095.	<b>4.</b> 5	19
62	Synthesis and Characterization of Nitrogen-Doped Carbon Nanospheres Decorated with Au Nanoparticles for the Liquid-Phase Oxidation of Glycerol. Industrial & Decorated with Au Research, 2014, 53, 16696-16706.	1.8	17
63	Thickness control of graphene deposited over polycrystalline nickel. New Journal of Chemistry, 2015, 39, 4414-4423.	1.4	17
64	Obtaining activated biochar from olive stone using a bench scale high-pressure thermobalance. Journal of Environmental Chemical Engineering, 2021, 9, 105374.	3.3	16
65	Preparation of coated thermoâ€regulating textiles using Rubithermâ€RT31 microcapsules. Journal of Applied Polymer Science, 2012, 124, 4809-4818.	1.3	15
66	Smart microcapsules containing nonpolar chemical compounds and carbon nanofibers. Chemical Engineering Journal, 2012, 181-182, 813-822.	6.6	15
67	Mexican biomasses valorization through pyrolysis process: Environmental and costs analysis. Waste Management, 2019, 95, 171-181.	3.7	15
68	Exergetic and Economic Improvement for a Steam Methane-Reforming Industrial Plant: Simulation Tool. Energies, 2020, 13, 3807.	1.6	13
69	Catalytic effect of alkali and alkaline earth metals on fast pyrolysis preâ€treatment of agricultural waste. Biofuels, Bioproducts and Biorefining, 2021, 15, 1473-1484.	1.9	13
70	Pyrolysis and combustion kinetics of microcapsules containing carbon nanofibers by thermal analysis–mass spectrometry. Journal of Analytical and Applied Pyrolysis, 2012, 94, 246-252.	2.6	12
71	Tailor-Made Aerogels Based on Carbon Nanofibers by Freeze-Drying. Science of Advanced Materials, 2014, 6, 665-673.	0.1	12
72	Novel etchings to transfer CVD-grown graphene from copper to arbitrary substrates. Chemical Physics Letters, 2014, 614, 89-94.	1.2	12

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73	Improving the growth of monolayer CVD-graphene over polycrystalline iron sheets. New Journal of Chemistry, 2017, 41, 5066-5074.	1.4	12
74	Pyrolysis process using a bench scale high pressure thermobalance. Fuel Processing Technology, 2017, 167, 345-354.	3.7	11
75	Simulatorâ€based learning in the teaching of chemical engineering. Computer Applications in Engineering Education, 2019, 27, 1267-1276.	2.2	11
76	Olive pomace versus natural gas for methanol production: a life cycle assessment. Environmental Science and Pollution Research, 2021, 28, 30335-30350.	2.7	11
77	Fast pyrolysis of agroindustrial wastes blends: Hydrocarbon production enhancement. Journal of Analytical and Applied Pyrolysis, 2021, 157, 105242.	2.6	11
78	CVD-graphene growth on different polycrystalline transition metals. AIMS Materials Science, 2017, 4, 194-208.	0.7	11
79	Binary Blends Versus Ternary Blends in Steam Cogasification by Means of TGA–MS: Reactivity and H <sub>2</sub> /CO Ratio. Industrial & Engineering Chemistry Research, 2020, 59, 12801-12811.	1.8	10
80	Fast pyrolysis as an alternative to the valorization of olive mill wastes. Journal of the Science of Food and Agriculture, 2021, 101, 2650-2658.	1.7	10
81	Kinetic study of the CO2 gasification of manure samples. Journal of Thermal Analysis and Calorimetry, 2017, 127, 2499-2509.	2.0	9
82	Process simulation and economic feasibility assessment of the methanol production via tri-reforming using experimental kinetic equations. International Journal of Hydrogen Energy, 2020, 45, 26623-26636.	3.8	9
83	Game-Based Learning and Just-in-Time Teaching to Address Misconceptions and Improve Safety and Learning in Laboratory Activities. Journal of Chemical Education, 2021, 98, 3118-3130.	1.1	9
84	The effect of the dry glass transition temperature on the synthesis of paraffin microcapsules obtained by suspension-like polymerization. Polymer Engineering and Science, 2014, 54, 208-214.	1.5	7
85	Long-Term Performance of Nanomodified Coated Concrete Structures under Hostile Marine Climate Conditions. Nanomaterials, 2021, 11, 869.	1.9	7
86	Enhancement of BTX production via catalytic fast pyrolysis of almond shell, olive pomace with polyvinyl chloride mixtures. Chemical Engineering Research and Design, 2022, , .	2.7	7
87	Stabilizer effects on the synthesis of gold-containing microparticles. Application to the liquid phase oxidation of glycerol. Journal of Colloid and Interface Science, 2014, 431, 105-111.	5.0	6
88	Is methanol synthesis from co-gasification of olive pomace and petcoke economically feasible?. Fuel, 2020, 278, 118284.	3.4	6
89	CATALYTIC AND NON-CATALYTIC PYROLYSIS OF BIOLOGICALLY TREATED MANURE. Environmental Engineering and Management Journal, 2015, 14, 349-355.	0.2	6
90	Functionalization of microcapsules for the removal of heavy metal ions. Journal of Chemical Technology and Biotechnology, 2011, 86, 437-446.	1.6	5

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91	Nickel supported carbon nanofibers as an active and selective catalyst for the gas-phase hydrogenation of 2-tert-butylphenol. Journal of Colloid and Interface Science, 2012, 380, 173-181.	5.0	5
92	Improvement of the mechanical and flame-retardant properties of polyetherimide membranes modified with Graphene oxide. Polymer-Plastics Technology and Materials, 2019, 58, 1170-1177.	0.6	5
93	Effects of oxidizing procedures on carbon nanofibers surface and dispersability in an epoxy resin. Materials Chemistry and Physics, 2020, 243, 122571.	2.0	5
94	Olive Waste Valorization Through TGA-MS Gasification: A Diatomaceous Earth Effect. Industrial & Engineering Chemistry Research, 2021, 60, 7505-7515.	1.8	5
95	Using Neural Networks or Linear Models to Predict the Characteristics of Microcapsules Containing Phase Change Materials. Macromolecular Symposia, 2010, 287, 162-167.	0.4	4
96	Effective Method of Microcapsules Production for Smart Fabrics. , 0, , .		4
97	Influence of the Total Gas Flow at Different Reaction Times for CVD-Graphene Synthesis on Polycrystalline Nickel. Journal of Nanomaterials, 2016, 2016, 1-9.	1.5	4
98	Impact of the forecast price on economic results for methanol production from olive waste. Fuel, 2021, 295, 120631.	3.4	4
99	Temperature influence on the fast pyrolysis of manure samples: char, bio-oil and gases production. E3S Web of Conferences, 2017, 22, 00043.	0.2	2
100	Taylor-made aerogels through a freeze-drying process: economic assessment. Journal of Sol-Gel Science and Technology, 2019, 89, 436-447.	1.1	2
101	Multi-criteria analysis for selecting the optimum blend in the co-gasification process. Computers and Chemical Engineering, 2020, 141, 106983.	2.0	2
102	Pyrolysis of Biomass for Biofuel Production. Green Energy and Technology, 2016, , 467-483.	0.4	1
103	Synthesis, Characterization and Catalytic Application of Gold-Containing Materials. Science of Advanced Materials, 2013, 5, 1907-1915.	0.1	1
104	Comparison of nanoclay/polyvinyl alcohol aerogels scale production: Life Cycle Assessment. Chemical Engineering Research and Design, 2021, 176, 243-253.	2.7	1
105	Study cases methodology in process dynamic and industrial plants control subject. Computer Applications in Engineering Education, 2020, 28, 1434-1448.	2.2	O