

# Luz Sanchez-Silva

## List of Publications by Citations

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104  
papers

3,444  
citations

31  
h-index

56  
g-index

106  
ext. papers

4,052  
ext. citations

6.2  
avg. IF

5.63  
L-index

#	Paper	IF	Citations
104	Thermogravimetric-mass spectrometric analysis of lignocellulosic and marine biomass pyrolysis. <i>Bioresource Technology</i> , <b>2012</b> , 109, 163-72	11	266
103	Pyrolysis, combustion and gasification characteristics of <i>Nannochloropsis gaditana</i> microalgae. <i>Bioresource Technology</i> , <b>2013</b> , 130, 321-31	11	189
102	Development of thermo-regulating textiles using paraffin wax microcapsules. <i>Thermochimica Acta</i> , <b>2010</b> , 498, 16-21	2.9	186
101	Microencapsulation of PCMs with a polystyrene shell. <i>Colloid and Polymer Science</i> , <b>2007</b> , 285, 1377-1385	2.4	176
100	Microencapsulation of PCMs with a styrene-methyl methacrylate copolymer shell by suspension-like polymerisation. <i>Chemical Engineering Journal</i> , <b>2010</b> , 157, 216-222	14.7	153
99	Thermogravimetric-mass spectrometric analysis on combustion of lignocellulosic biomass. <i>Bioresource Technology</i> , <b>2013</b> , 143, 562-74	11	127
98	Kinetic analysis and thermal characterization of the microalgae combustion process by thermal analysis coupled to mass spectrometry. <i>Applied Energy</i> , <b>2014</b> , 114, 227-237	10.7	121
97	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. <i>Applied Thermal Engineering</i> , <b>2010</b> , 30, 1164-1169	5.8	103
96	Thermal testing and numerical simulation of gypsum wallboards incorporated with different PCMs content. <i>Applied Energy</i> , <b>2011</b> , 88, 930-937	10.7	100
95	Influence of operation conditions on the microencapsulation of PCMs by means of suspension-like polymerization. <i>Colloid and Polymer Science</i> , <b>2008</b> , 286, 1019-1027	2.4	96
94	Pyrolysis of three different types of microalgae: Kinetic and evolved gas analysis. <i>Energy</i> , <b>2014</b> , 73, 33-43	7.9	86
93	Synthesis and Characterization of Paraffin Wax Microcapsules with Acrylic-Based Polymer Shells. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 12204-12211	3.9	81
92	Gasification of lignocellulosic biomass char obtained from pyrolysis: Kinetic and evolved gas analyses. <i>Energy</i> , <b>2014</b> , 71, 456-467	7.9	80
91	Influence of Different Improved Hummers Method Modifications on the Characteristics of Graphite Oxide in Order to Make a More Easily Scalable Method. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 12836-12847	3.9	75
90	Life cycle assessment of swine and dairy manure: pyrolysis and combustion processes. <i>Bioresource Technology</i> , <b>2015</b> , 182, 184-192	11	69
89	Three integrated process simulation using aspen plus : Pine gasification, syngas cleaning and methanol synthesis. <i>Energy Conversion and Management</i> , <b>2018</b> , 177, 416-427	10.6	66
88	Influence of the reduction strategy in the synthesis of reduced graphene oxide. <i>Advanced Powder Technology</i> , <b>2017</b> , 28, 3195-3203	4.6	64

87	Kinetic analysis of manure pyrolysis and combustion processes. <i>Waste Management</i> , <b>2016</b> , 58, 230-240	8.6	63
86	Effect of the operation conditions on the selective oxidation of glycerol with catalysts based on Au supported on carbonaceous materials. <i>Chemical Engineering Journal</i> , <b>2011</b> , 178, 423-435	14.7	60
85	Simulation of the gasification of animal wastes in a dual gasifier using Aspen Plus <sup>®</sup> . <i>Energy Conversion and Management</i> , <b>2017</b> , 140, 211-217	10.6	57
84	Comparative study of different scalable routes to synthesize graphene oxide and reduced graphene oxide. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 203, 284-292	4.4	56
83	Synthesis and characterization of Au supported on carbonaceous material-based catalysts for the selective oxidation of glycerol. <i>Chemical Engineering Journal</i> , <b>2011</b> , 172, 418-429	14.7	52
82	Thermal and morphological stability of polystyrene microcapsules containing phase-change materials. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 291-297	2.9	45
81	Energetic, economic and environmental assessment of the pyrolysis and combustion of microalgae and their oils. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 51, 1752-1770	16.2	44
80	Applying an Experimental Design to Improve the Characteristics of Microcapsules Containing Phase Change Materials for Fabric Uses. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 9783-9790	3.9	44
79	Solvent-Based Exfoliation via Sonication of Graphitic Materials for Graphene Manufacture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 845-855	3.9	43
78	Valorization of Mexican biomasses through pyrolysis, combustion and gasification processes. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 71, 509-522	16.2	41
77	Catalytic oxidation of crude glycerol using catalysts based on Au supported on carbonaceous materials. <i>Applied Catalysis A: General</i> , <b>2013</b> , 450, 189-203	5.1	41
76	Comparison of the steam gasification performance of three species of microalgae by thermogravimetric-mass spectrometric analysis. <i>Fuel</i> , <b>2014</b> , 134, 1-10	7.1	38
75	Synthesis and characterization of graphene: influence of synthesis variables. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 2962-70	3.6	36
74	Performing the best composition of supported Co/SiC catalyst for selective FTS diesel production. <i>Fuel</i> , <b>2012</b> , 95, 587-598	7.1	36
73	CO <sub>2</sub> gasification process performance for energetic valorization of microalgae. <i>Energy</i> , <b>2017</b> , 119, 37-43	7.9	30
72	Characterization of different heat transfer fluids and degradation study by using a pilot plant device operating at real conditions. <i>Energy</i> , <b>2013</b> , 54, 240-250	7.9	30
71	Effects of freeze-drying conditions on aerogel properties. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 8977-8985	4.5	29
70	Preparation and characterization of Fe-PILCs. Influence of the synthesis parameters. <i>Clays and Clay Minerals</i> , <b>2005</b> , 53, 613-621	2.1	29

69	Synergistic effect in the steam co-gasification of olive pomace, coal and petcoke: Thermogravimetric-mass spectrometric analysis. <i>Energy Conversion and Management</i> , <b>2018</b> , 159, 140-150	10.6	28
68	Influence of different suspension stabilizers on the preparation of Rubitherm RT31 microcapsules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2011</b> , 390, 62-66	5.1	28
67	Immobilized laccase on polyimide aerogels for removal of carbamazepine. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 376, 83-90	12.8	27
66	Experimental investigation of a thermal storage system using phase change materials. <i>Applied Thermal Engineering</i> , <b>2016</b> , 107, 264-270	5.8	25
65	Combustion kinetic study of woody and herbaceous crops by thermal analysis coupled to mass spectrometry. <i>Energy</i> , <b>2015</b> , 90, 1626-1635	7.9	23
64	Scale-up of a suspension-like polymerization process for the microencapsulation of phase change materials. <i>Journal of Microencapsulation</i> , <b>2010</b> , 27, 583-93	3.4	22
63	Environmental assessment of olive pomace valorization through two different thermochemical processes for energy production. <i>Journal of Cleaner Production</i> , <b>2018</b> , 186, 771-781	10.3	21
62	Life cycle assessment of olive pomace valorisation through pyrolysis. <i>Renewable Energy</i> , <b>2018</b> , 122, 589-601		20
61	Dolomite effect on steam co-gasification of olive pomace, coal and petcoke: TGA-MS analysis, reactivity and synergistic effect. <i>Fuel</i> , <b>2018</b> , 234, 142-150	7.1	20
60	Effect of different concentrations of O <sub>2</sub> under inert and CO <sub>2</sub> atmospheres on the swine manure combustion process. <i>Fuel</i> , <b>2017</b> , 195, 23-32	7.1	19
59	CO <sub>2</sub> gasification of dairy and swine manure: A life cycle assessment approach. <i>Renewable Energy</i> , <b>2016</b> , 95, 552-560	8.1	19
58	Simulation of biomass gasification in bubbling fluidized bed reactor using aspen plus. <i>Energy Conversion and Management</i> , <b>2021</b> , 235, 113981	10.6	18
57	CNF-reinforced polymer aerogels: Influence of the synthesis variables and economic evaluation. <i>Chemical Engineering Journal</i> , <b>2015</b> , 262, 691-701	14.7	17
56	Hydroxyethyl cellulose/alumina-based aerogels as lightweight insulating materials with high mechanical strength. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 1556-1567	4.3	17
55	Poly(urea-formaldehyde) microcapsules containing commercial paraffin: in situ polymerization study. <i>Colloid and Polymer Science</i> , <b>2018</b> , 296, 1449-1457	2.4	16
54	Smart microcapsules containing nonpolar chemical compounds and carbon nanofibers. <i>Chemical Engineering Journal</i> , <b>2012</b> , 181-182, 813-822	14.7	15
53	Nanoclay-Based PVA Aerogels: Synthesis and Characterization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 6218-6225	3.9	14
52	Optimization of the synthesis procedure of microparticles containing gold for the selective oxidation of glycerol. <i>Applied Catalysis A: General</i> , <b>2014</b> , 472, 11-20	5.1	14

51	Synthesis and Characterization of Nitrogen-Doped Carbon Nanospheres Decorated with Au Nanoparticles for the Liquid-Phase Oxidation of Glycerol. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 16696-16706	3.9	14
50	Thickness control of graphene deposited over polycrystalline nickel. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 4414-4423	3.6	13
49	Linear and crosslinked polyimide aerogels: synthesis and characterization. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 2638-2648	5.5	12
48	PVA/nanoclay/graphene oxide aerogels with enhanced sound absorption properties. <i>Applied Acoustics</i> , <b>2019</b> , 156, 40-45	3.1	12
47	Utilization and reusability of hydroxyethyl cellulose alumina based aerogels for the removal of spilled oil. <i>Chemosphere</i> , <b>2020</b> , 260, 127568	8.4	12
46	Pyrolysis process using a bench scale high pressure thermobalance. <i>Fuel Processing Technology</i> , <b>2017</b> , 167, 345-354	7.2	11
45	Comparison of three Mexican biomasses valorization through combustion and gasification: Environmental and economic analysis. <i>Energy</i> , <b>2019</b> , 189, 116095	7.9	10
44	Pyrolysis and combustion kinetics of microcapsules containing carbon nanofibers by thermal analysis-mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2012</b> , 94, 246-252	6	10
43	Improving the growth of monolayer CVD-graphene over polycrystalline iron sheets. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 5066-5074	3.6	9
42	Tailor-Made Aerogels Based on Carbon Nanofibers by Freeze-Drying. <i>Science of Advanced Materials</i> , <b>2014</b> , 6, 665-673	2.3	9
41	Novel etchings to transfer CVD-grown graphene from copper to arbitrary substrates. <i>Chemical Physics Letters</i> , <b>2014</b> , 614, 89-94	2.5	8
40	CVD-graphene growth on different polycrystalline transition metals. <i>AIMS Materials Science</i> , <b>2017</b> , 4, 194-208	1.9	8
39	The effect of the dry glass transition temperature on the synthesis of paraffin microcapsules obtained by suspension-like polymerization. <i>Polymer Engineering and Science</i> , <b>2014</b> , 54, 208-214	2.3	7
38	Kinetic study of the CO <sub>2</sub> gasification of manure samples. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2017</b> , 127, 2499-2509	4.1	7
37	Preparation of coated thermo-regulating textiles using Rubitherm-RT31 microcapsules. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 124, n/a-n/a	2.9	7
36	Life cycle assessment of electricity generation from combustion and gasification of biomass in Mexico. <i>Sustainable Production and Consumption</i> , <b>2021</b> , 27, 72-85	8.2	7
35	Mexican biomasses valorization through pyrolysis process: Environmental and costs analysis. <i>Waste Management</i> , <b>2019</b> , 95, 171-181	8.6	6
34	Binary Blends Versus Ternary Blends in Steam Cogasification by Means of TGAMS: Reactivity and H <sub>2</sub> /CO Ratio. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 12801-12811	3.9	6

33	CATALYTIC AND NON-CATALYTIC PYROLYSIS OF BIOLOGICALLY TREATED MANURE. <i>Environmental Engineering and Management Journal</i> , <b>2015</b> , 14, 349-355	0.6	6
32	Process simulation and economic feasibility assessment of the methanol production via tri-reforming using experimental kinetic equations. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 26623-26636	6.7	6
31	Exergetic and Economic Improvement for a Steam Methane-Reforming Industrial Plant: Simulation Tool. <i>Energies</i> , <b>2020</b> , 13, 3807	3.1	6
30	Obtaining activated biochar from olive stone using a bench scale high-pressure thermobalance. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105374	6.8	6
29	Is methanol synthesis from co-gasification of olive pomace and petcoke economically feasible?. <i>Fuel</i> , <b>2020</b> , 278, 118284	7.1	5
28	Simulator-based learning in the teaching of chemical engineering. <i>Computer Applications in Engineering Education</i> , <b>2019</b> , 27, 1267-1276	1.6	5
27	Stabilizer effects on the synthesis of gold-containing microparticles. Application to the liquid phase oxidation of glycerol. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 431, 105-11	9.3	5
26	Improvement of the mechanical and flame-retardant properties of polyetherimide membranes modified with Graphene oxide. <i>Polymer-Plastics Technology and Materials</i> , <b>2019</b> , 58, 1170-1177	1.5	5
25	Valorization of olive oil industry subproducts: ash and olive pomace fast pyrolysis. <i>Food and Bioproducts Processing</i> , <b>2021</b> , 125, 37-45	4.9	5
24	PtRu nanoparticles supported on noble carbons for ethanol electrooxidation. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 66, 168-180	12	5
23	Nickel supported carbon nanofibers as an active and selective catalyst for the gas-phase hydrogenation of 2-tert-butylphenol. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 380, 173-81	9.3	4
22	Effects of oxidizing procedures on carbon nanofibers surface and dispersability in an epoxy resin. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 243, 122571	4.4	4
21	Environmental and economic analysis of bioethanol production from sugarcane molasses and agave juice. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 64374-64393	5.1	4
20	Influence of the Total Gas Flow at Different Reaction Times for CVD-Graphene Synthesis on Polycrystalline Nickel. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016, 1-9	3.2	4
19	Olive pomace versus natural gas for methanol production: a life cycle assessment. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 30335-30350	5.1	4
18	Functionalization of microcapsules for the removal of heavy metal ions. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2011</b> , 86, 437-446	3.5	3
17	Using Neural Networks or Linear Models to Predict the Characteristics of Microcapsules Containing Phase Change Materials. <i>Macromolecular Symposia</i> , <b>2010</b> , 287, 162-167	0.8	3
16	Long-Term Performance of Nanomodified Coated Concrete Structures under Hostile Marine Climate Conditions. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3

15	Temperature influence on the fast pyrolysis of manure samples: char, bio-oil and gases production. <i>E3S Web of Conferences</i> , <b>2017</b> , 22, 00043	0.5	2
14	Effective Method of Microcapsules Production for Smart Fabrics <b>2011</b> ,		2
13	Gasification versus fast pyrolysis bio-oil production: A life cycle assessment. <i>Journal of Cleaner Production</i> , <b>2022</b> , 336, 130373	10.3	2
12	Olive Waste Valorization Through TGA-MS Gasification: A Diatomaceous Earth Effect. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 7505-7515	3.9	2
11	Game-Based Learning and Just-in-Time Teaching to Address Misconceptions and Improve Safety and Learning in Laboratory Activities. <i>Journal of Chemical Education</i> ,	2.4	2
10	Pyrolysis of Biomass for Biofuel Production. <i>Green Energy and Technology</i> , <b>2016</b> , 467-483	0.6	1
9	Catalytic effect of alkali and alkaline earth metals on fast pyrolysis pre-treatment of agricultural waste. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2021</b> , 15, 1473-1484	5.3	1
8	Impact of the forecast price on economic results for methanol production from olive waste. <i>Fuel</i> , <b>2021</b> , 295, 120631	7.1	1
7	Taylor-made aerogels through a freeze-drying process: economic assessment. <i>Journal of Sol-Gel Science and Technology</i> , <b>2019</b> , 89, 436-447	2.3	1
6	Fast pyrolysis as an alternative to the valorization of olive mill wastes. <i>Journal of the Science of Food and Agriculture</i> , <b>2021</b> , 101, 2650-2658	4.3	1
5	Fast pyrolysis of agroindustrial wastes blends: Hydrocarbon production enhancement. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2021</b> , 157, 105242	6	1
4	Multi-criteria analysis for selecting the optimum blend in the co-gasification process. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 141, 106983	4	0
3	Comparison of nanoclay/polyvinyl alcohol aerogels scale production: Life Cycle Assessment. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 176, 243-253	5.5	
2	Study cases methodology in process dynamic and industrial plants control subject. <i>Computer Applications in Engineering Education</i> , <b>2020</b> , 28, 1434-1448	1.6	
1	Future Market and Policy Initiatives of New High Value Products <b>2018</b> , 299-310		