Luz Sanchez-Silva

List of Publications by Year in Descending Order

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	Gasification versus fast pyrolysis bio-oil production: A life cycle assessment. *Journal of Cleaner Production*, **2022**, 336, 130373	10.3	2
103	PtRu nanoparticles supported on noble carbons for ethanol electrooxidation. *Journal of Energy Chemistry*, **2022**, 66, 168-180	12	5
102	Comparison of nanoclay/polyvinyl alcohol aerogels scale production: Life Cycle Assessment. *Chemical Engineering Research and Design*, **2021**, 176, 243-253	5.5	
101	Long-Term Performance of Nanomodified Coated Concrete Structures under Hostile Marine Climate Conditions. *Nanomaterials*, **2021**, 11,	5.4	3
100	Olive Waste Valorization Through TGA-MS Gasification: A Diatomaceous Earth Effect. *Industrial & Engineering Chemistry Research*, **2021**, 60, 7505-7515	3.9	2
99	Simulation of biomass gasification in bubbling fluidized bed reactor using aspen plus . *Energy Conversion and Management*, **2021**, 235, 113981	10.6	18
98	Catalytic effect of alkali and alkaline earth metals on fast pyrolysis pre-treatment of agricultural waste. *Biofuels, Bioproducts and Biorefining*, **2021**, 15, 1473-1484	5.3	1
97	Impact of the forecast price on economic results for methanol production from olive waste. *Fuel*, **2021**, 295, 120631	7.1	1
96	Environmental and economic analysis of bioethanol production from sugarcane molasses and agave juice. *Environmental Science and Pollution Research*, **2021**, 28, 64374-64393	5.1	4
95	Life cycle assessment of electricity generation from combustion and gasification of biomass in Mexico. *Sustainable Production and Consumption*, **2021**, 27, 72-85	8.2	7
94	Fast pyrolysis as an alternative to the valorization of olive mill wastes. *Journal of the Science of Food and Agriculture*, **2021**, 101, 2650-2658	4.3	1
93	Valorization of olive oil industry subproducts: ash and olive pomace fast pyrolysis. *Food and Bioproducts Processing*, **2021**, 125, 37-45	4.9	5
92	Olive pomace versus natural gas for methanol production: a life cycle assessment. *Environmental Science and Pollution Research*, **2021**, 28, 30335-30350	5.1	4
91	Fast pyrolysis of agroindustrial wastes blends: Hydrocarbon production enhancement. *Journal of Analytical and Applied Pyrolysis*, **2021**, 157, 105242	6	1
90	Obtaining activated biochar from olive stone using a bench scale high-pressure thermobalance. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105374	6.8	6
89	Is methanol synthesis from co-gasification of olive pomace and petcoke economically feasible?. *Fuel* , **2020**, 278, 118284	7.1	5
88	Multi-criteria analysis for selecting the optimum blend in the co-gasification process. *Computers and Chemical Engineering*, **2020**, 141, 106983	4	0

87	Binary Blends Versus Ternary Blends in Steam Cogasification by Means of TGA-MS: Reactivity and H2/CO Ratio. *Industrial & Engineering Chemistry Research*, **2020**, 59, 12801-12811	3.9	6
86	Effects of oxidizing procedures on carbon nanofibers surface and dispersability in an epoxy resin. *Materials Chemistry and Physics*, **2020**, 243, 122571	4.4	4
85	Utilization and reusability of hydroxyethyl cellulose alumina based aerogels for the removal of spilled oil. *Chemosphere*, **2020**, 260, 127568	8.4	12
84	Study cases methodology in process dynamic and industrial plants control subject. *Computer Applications in Engineering Education*, **2020**, 28, 1434-1448	1.6	
83	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	6.7	6
82	Exergetic and Economic Improvement for a Steam Methane-Reforming Industrial Plant: Simulation Tool. *Energies*, **2020**, 13, 3807	3.1	6
81	Linear and crosslinked polyimide aerogels: synthesis and characterization. *Journal of Materials Research and Technology*, **2019**, 8, 2638-2648	5.5	12
80	Mexican biomasses valorization through pyrolysis process: Environmental and costs analysis. *Waste Management*, **2019**, 95, 171-181	8.6	6
79	Immobilized laccase on polyimide aerogels for removal of carbamazepine. *Journal of Hazardous Materials*, **2019**, 376, 83-90	12.8	27
78	Simulator-based learning in the teaching of chemical engineering. *Computer Applications in Engineering Education*, **2019**, 27, 1267-1276	1.6	5
77	PVA/nanoclay/graphene oxide aerogels with enhanced sound absorption properties. *Applied Acoustics*, **2019**, 156, 40-45	3.1	12
76	Comparison of three Mexican biomasses valorization through combustion and gasification: Environmental and economic analysis. *Energy*, **2019**, 189, 116095	7.9	10
75	Taylor-made aerogels through a freeze-drying process: economic assessment. *Journal of Sol-Gel Science and Technology*, **2019**, 89, 436-447	2.3	1
74	Improvement of the mechanical and flame-retardant properties of polyetherimide membranes modified with Graphene oxide. *Polymer-Plastics Technology and Materials*, **2019**, 58, 1170-1177	1.5	5
73	Nanoclay-Based PVA Aerogels: Synthesis and Characterization. *Industrial & Engineering Chemistry Research*, **2018**, 57, 6218-6225	3.9	14
72	Life cycle assessment of olive pomace valorisation through pyrolysis. *Renewable Energy*, **2018**, 122, 589-601	6.1	20
71	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	10.6	28
70	Environmental assessment of olive pomace valorization through two different thermochemical processes for energy production. *Journal of Cleaner Production*, **2018**, 186, 771-781	10.3	21

69	Comparative study of different scalable routes to synthesize graphene oxide and reduced graphene oxide. *Materials Chemistry and Physics*, **2018**, 203, 284-292	4.4	56
68	Dolomite effect on steam co-gasification of olive pomace, coal and petcoke: TGA-MS analysis, reactivity and synergistic effect. *Fuel*, **2018**, 234, 142-150	7.1	20
67	Hydroxyethyl cellulose/alumina-based aerogels as lightweight insulating materials with high mechanical strength. *Journal of Materials Science*, **2018**, 53, 1556-1567	4.3	17
66	Three integrated process simulation using aspen plus : Pine gasification, syngas cleaning and methanol synthesis. *Energy Conversion and Management*, **2018**, 177, 416-427	10.6	66
65	Future Market and Policy Initiatives of New High Value Products **2018**, 299-310		
64	Poly(urea-formaldehyde) microcapsules containing commercial paraffin: in situ polymerization study. *Colloid and Polymer Science*, **2018**, 296, 1449-1457	2.4	16
63	CO2 gasification process performance for energetic valorization of microalgae. *Energy*, **2017**, 119, 37-43	7.9	30
62	Effect of different concentrations of O2 under inert and CO2 atmospheres on the swine manure combustion process. *Fuel*, **2017**, 195, 23-32	7.1	19
61	Improving the growth of monolayer CVD-graphene over polycrystalline iron sheets. *New Journal of Chemistry*, **2017**, 41, 5066-5074	3.6	9
60	Simulation of the gasification of animal wastes in a dual gasifier using Aspen Plus . *Energy Conversion and Management*, **2017**, 140, 211-217	10.6	57
59	Valorization of Mexican biomasses through pyrolysis, combustion and gasification processes. *Renewable and Sustainable Energy Reviews*, **2017**, 71, 509-522	16.2	41
58	Influence of the reduction strategy in the synthesis of reduced graphene oxide. *Advanced Powder Technology*, **2017**, 28, 3195-3203	4.6	64
57	Pyrolysis process using a bench scale high pressure thermobalance. *Fuel Processing Technology*, **2017**, 167, 345-354	7.2	11
56	Kinetic study of the CO2 gasification of manure samples. *Journal of Thermal Analysis and Calorimetry*, **2017**, 127, 2499-2509	4.1	7
55	Temperature influence on the fast pyrolysis of manure samples: char, bio-oil and gases production. *E3S Web of Conferences*, **2017**, 22, 00043	0.5	2
54	CVD-graphene growth on different polycrystalline transition metals. *AIMS Materials Science*, **2017**, 4, 194-208	1.9	8
53	Pyrolysis of Biomass for Biofuel Production. *Green Energy and Technology*, **2016**, 467-483	0.6	1
52	Effects of freeze-drying conditions on aerogel properties. *Journal of Materials Science*, **2016**, 51, 8977-8985	4.3	29

51	Experimental investigation of a thermal storage system using phase change materials. *Applied Thermal Engineering*, **2016**, 107, 264-270	5.8	25
50	Solvent-Based Exfoliation via Sonication of Graphitic Materials for Graphene Manufacture. *Industrial & Engineering Chemistry Research*, **2016**, 55, 845-855	3.9	43
49	Influence of the Total Gas Flow at Different Reaction Times for CVD-Graphene Synthesis on Polycrystalline Nickel. *Journal of Nanomaterials*, **2016**, 2016, 1-9	3.2	4
48	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	3.9	75
47	CO2 gasification of dairy and swine manure: A life cycle assessment approach. *Renewable Energy*, **2016**, 95, 552-560	8.1	19
46	Kinetic analysis of manure pyrolysis and combustion processes. *Waste Management*, **2016**, 58, 230-240	8.6	63
45	Thickness control of graphene deposited over polycrystalline nickel. *New Journal of Chemistry*, **2015**, 39, 4414-4423	3.6	13
44	Combustion kinetic study of woody and herbaceous crops by thermal analysis coupled to mass spectrometry. *Energy*, **2015**, 90, 1626-1635	7.9	23
43	Energetic, economic and environmental assessment of the pyrolysis and combustion of microalgae and their oils. *Renewable and Sustainable Energy Reviews*, **2015**, 51, 1752-1770	16.2	44
42	CNF-reinforced polymer aerogels: Influence of the synthesis variables and economic evaluation. *Chemical Engineering Journal*, **2015**, 262, 691-701	14.7	17
41	Life cycle assessment of swine and dairy manure: pyrolysis and combustion processes. *Bioresource Technology*, **2015**, 182, 184-192	11	69
40	CATALYTIC AND NON-CATALYTIC PYROLYSIS OF BIOLOGICALLY TREATED MANURE. *Environmental Engineering and Management Journal*, **2015**, 14, 349-355	0.6	6
39	Optimization of the synthesis procedure of microparticles containing gold for the selective oxidation of glycerol. *Applied Catalysis A: General*, **2014**, 472, 11-20	5.1	14
38	Kinetic analysis and thermal characterization of the microalgae combustion process by thermal analysis coupled to mass spectrometry. *Applied Energy*, **2014**, 114, 227-237	10.7	121
37	Synthesis and Characterization of Nitrogen-Doped Carbon Nanospheres Decorated with Au Nanoparticles for the Liquid-Phase Oxidation of Glycerol. *Industrial & Engineering Chemistry Research*, **2014**, 53, 16696-16706	3.9	14
36	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, 105-11	9.3	5
35	Pyrolysis of three different types of microalgae: Kinetic and evolved gas analysis. *Energy*, **2014**, 73, 33-43	7.9	86
34	Novel etchings to transfer CVD-grown graphene from copper to arbitrary substrates. *Chemical Physics Letters*, **2014**, 614, 89-94	2.5	8

33	Synthesis and characterization of graphene: influence of synthesis variables. *Physical Chemistry Chemical Physics*, **2014**, 16, 2962-70	3.6	36
32	Comparison of the steam gasification performance of three species of microalgae by thermogravimetric mass spectrometric analysis. *Fuel*, **2014**, 134, 1-10	7.1	38
31	Gasification of lignocellulosic biomass char obtained from pyrolysis: Kinetic and evolved gas analyses. *Energy*, **2014**, 71, 456-467	7.9	80
30	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	2.3	7
29	Tailor-Made Aerogels Based on Carbon Nanofibers by Freeze-Drying. *Science of Advanced Materials*, **2014**, 6, 665-673	2.3	9
28	Characterization of different heat transfer fluids and degradation study by using a pilot plant device operating at real conditions. *Energy*, **2013**, 54, 240-250	7.9	30
27	Pyrolysis, combustion and gasification characteristics of Nannochloropsis gaditana microalgae. *Bioresource Technology*, **2013**, 130, 321-31	11	189
26	Catalytic oxidation of crude glycerol using catalysts based on Au supported on carbonaceous materials. *Applied Catalysis A: General*, **2013**, 450, 189-203	5.1	41
25	Thermogravimetric-mass spectrometric analysis on combustion of lignocellulosic biomass. *Bioresource Technology*, **2013**, 143, 562-74	11	127
24	Pyrolysis and combustion kinetics of microcapsules containing carbon nanofibers by thermal analysis mass spectrometry. *Journal of Analytical and Applied Pyrolysis*, **2012**, 94, 246-252	6	10
23	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, 173-81	9.3	4
22	Thermogravimetric-mass spectrometric analysis of lignocellulosic and marine biomass pyrolysis. *Bioresource Technology*, **2012**, 109, 163-72	11	266
21	Smart microcapsules containing nonpolar chemical compounds and carbon nanofibers. *Chemical Engineering Journal*, **2012**, 181-182, 813-822	14.7	15
20	Performing the best composition of supported Co/SiC catalyst for selective FTS diesel production. *Fuel*, **2012**, 95, 587-598	7.1	36
19	Effective Method of Microcapsules Production for Smart Fabrics **2011**,		2
18	Influence of different suspension stabilizers on the preparation of Rubitherm RT31 microcapsules. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 390, 62-66	5.1	28
17	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	14.7	60
16	Preparation of coated thermo-regulating textiles using Rubitherm-RT31 microcapsules. *Journal of Applied Polymer Science*, **2011**, 124, n/a-n/a	2.9	7

15	Thermal testing and numerical simulation of gypsum wallboards incorporated with different PCMs content. *Applied Energy*, **2011**, 88, 930-937	10.7	100
14	Functionalization of microcapsules for the removal of heavy metal ions. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 437-446	3.5	3
13	Thermal and morphological stability of polystyrene microcapsules containing phase-change materials. *Journal of Applied Polymer Science*, **2011**, 120, 291-297	2.9	45
12	Synthesis and characterization of Au supported on carbonaceous material-based catalysts for the selective oxidation of glycerol. *Chemical Engineering Journal*, **2011**, 172, 418-429	14.7	52
11	Synthesis and Characterization of Paraffin Wax Microcapsules with Acrylic-Based Polymer Shells. *Industrial & Engineering Chemistry Research*, **2010**, 49, 12204-12211	3.9	81
10	Scale-up of a suspension-like polymerization process for the microencapsulation of phase change materials. *Journal of Microencapsulation*, **2010**, 27, 583-93	3.4	22
9	Using Neural Networks or Linear Models to Predict the Characteristics of Microcapsules Containing Phase Change Materials. *Macromolecular Symposia*, **2010**, 287, 162-167	0.8	3
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	5.8	103
7	Development of thermo-regulating textiles using paraffin wax microcapsules. *Thermochimica Acta*, **2010**, 498, 16-21	2.9	186
6	Microencapsulation of PCMs with a styrene-methyl methacrylate copolymer shell by suspension-like polymerisation. *Chemical Engineering Journal*, **2010**, 157, 216-222	14.7	153
5	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	3.9	44
4	Influence of operation conditions on the microencapsulation of PCMs by means of suspension-like polymerization. *Colloid and Polymer Science*, **2008**, 286, 1019-1027	2.4	96
3	Microencapsulation of PCMs with a polystyrene shell. *Colloid and Polymer Science*, **2007**, 285, 1377-1385	2.4	176
2	Preparation and characterization of Fe-PILCs. Influence of the synthesis parameters. *Clays and Clay Minerals*, **2005**, 53, 613-621	2.1	29
1	Game-Based Learning and Just-in-Time Teaching to Address Misconceptions and Improve Safety and Learning in Laboratory Activities. *Journal of Chemical Education*,	2.4	2