Luis M Ganda

List of Publications by Year in Descending Order

125 papers	7,810 citations	44 h-index	87 g-index
132 ext. papers	8,719 ext. citations	7.7 avg, IF	6.05 L-index

#	Paper	IF	Citations
125	Acoustic and psychoacoustic levels from an internal combustion engine fueled by hydrogen vs. gasoline. *Fuel*, **2022**, 317, 123505	7.1	1
124	Mesoporous Sn-In-MCM-41 Catalysts for the Selective Sugar Conversion to Methyl Lactate and Comparative Life Cycle Assessment with the Biochemical Process.. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 2868-2880	8.3	1
123	Reaction Monitoring by Ultrasounds in a Pseudohomogeneous Medium: Triglyceride Ethanolysis for Biodiesel Production. *Processes*, **2022**, 10, 12	2.9	0
122	Iron-based oxygen carrier particles produced from micronized size minerals or industrial wastes. *Powder Technology*, **2021**, 396, 637-637	5.2	0
121	A techno-economic and life cycle assessment for the production of green methanol from CO2: catalyst and process bottlenecks. *Journal of Energy Chemistry*, **2021**, 68, 255-255	12	5
120	Renewable Hydrocarbon Production from Waste Cottonseed Oil Pyrolysis and Catalytic Upgrading of Vapors with Mo-Co and Mo-Ni Catalysts Supported on AlO. *Nanomaterials*, **2021**, 11,	5.4	2
119	Pseudo-Homogeneous and Heterogeneous Kinetic Models of the NaOH-Catalyzed Methanolysis Reaction for Biodiesel Production. *Energies*, **2021**, 14, 4192	3.1	1
118	Comparative performance of coke oven gas, hydrogen and methane in a spark ignition engine. *International Journal of Hydrogen Energy*, **2021**, 46, 17572-17586	6.7	11
117	Oxidative steam reforming of glycerol. A review. *Renewable and Sustainable Energy Reviews*, **2021**, 148, 111299	16.2	7
116	Performance comparison between washcoated and packed-bed monolithic reactors for the low-temperature Fischer-Tropsch synthesis. *Chemical Engineering Journal*, **2021**, 425, 130424	14.7	1
115	Innovative catalyst integration on transparent silicone microreactors for photocatalytic applications. *Catalysis Today*, **2020**, 383, 164-164	5.3	3
114	Functionalization of 3D printed ABS filters with MOF for toxic gas removal. *Journal of Industrial and Engineering Chemistry*, **2020**, 89, 194-203	6.3	12
113	Catalytic Performance of Bulk and Al2O3-Supported Molybdenum Oxide for the Production of Biodiesel from Oil with High Free Fatty Acids Content. *Catalysts*, **2020**, 10, 158	4	13
112	Fruit and vegetable waste management: Conventional and emerging approaches. *Journal of Environmental Management*, **2020**, 265, 110510	7.9	102
111	Valorization of selected fruit and vegetable wastes as bioactive compounds: Opportunities and challenges. *Critical Reviews in Environmental Science and Technology*, **2020**, 50, 2061-2108	11.1	42
110	In Situ Synthesis of SERS-Active Au@POM Nanostructures in a Microfluidic Device for Real-Time Detection of Water Pollutants. *ACS Applied Materials & Interfaces*, **2020**, 12, 36458-36467	9.5	16
109	Three-Dimensional Printing of Acrylonitrile Butadiene Styrene Microreactors for Photocatalytic Applications. *Industrial & Engineering Chemistry Research*, **2020**, 59, 20686-20692	3.9	2

108	Application of a Modeling Tool to Describe Fly Ash Generation, Composition, and Melting Behavior in a Wheat Straw Fired Commercial Power Plant. *Processes*, **2020**, 8, 1510	2.9	
107	Production of Aromatic Compounds by Catalytic Depolymerization of Technical and Downstream Biorefinery Lignins. *Biomolecules*, **2020**, 10,	5.9	3
106	Syngas production via catalytic oxidative steam reforming of glycerol using a Co/Al coprecipitated catalyst and different bed fillers. *Fuel Processing Technology*, **2019**, 189, 120-133	7.2	15
105	Life cycle assessment of natural gas fuelled power plants based on chemical looping combustion technology. *Energy Conversion and Management*, **2019**, 198, 111856	10.6	12
104	Effect of oxygen addition, reaction temperature and thermal treatments on syngas production from biogas combined reforming using Rh/alumina catalysts. *Journal of Industrial and Engineering Chemistry*, **2019**, 80, 217-226	6.3	8
103	Partial oxidation of methane to syngas using Co/Mg and Co/Mg-Al oxide supported catalysts. *Catalysis Today*, **2019**, 333, 259-267	5.3	12
102	Relevance of plant design on CLC process performance using a Cu-based oxygen carrier. *Fuel Processing Technology*, **2018**, 171, 78-88	7.2	16
101	Syngas production by means of biogas catalytic partial oxidation and dry reforming using Rh-based catalysts. *Catalysis Today*, **2018**, 299, 280-288	5.3	47
100	Outstanding performance of rehydrated Mg-Al hydrotalcites as heterogeneous methanolysis catalysts for the synthesis of biodiesel. *Fuel*, **2018**, 211, 173-181	7.1	58
99	Characterization of combustion anomalies in a hydrogen-fueled 1.4 L commercial spark-ignition engine by means of in-cylinder pressure, block-engine vibration, and acoustic measurements. *Energy Conversion and Management*, **2018**, 172, 67-80	10.6	19
98	Oak wood extracts applied to the grapevine. An alternative to obtain quality Garnacha wines. *Food Research International*, **2018**, 105, 628-636	7	3
97	Environmental Evaluation of the Improvements for Industrial Scaling of Zeolite Membrane Manufacturing by Life Cycle Assessment. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 15773-15780	8.3	9
96	Kinetic analysis and CFD simulations of the photocatalytic production of hydrogen in silicone microreactors from water-ethanol mixtures. *Applied Catalysis B: Environmental*, **2017**, 203, 210-217	21.8	34
95	Application of Eco-Design and Life Cycle Assessment Standards for Environmental Impact Reduction of an Industrial Product. *Sustainability*, **2017**, 9, 1724	3.6	27
94	Entropy of chemical processes versus numerical representability of orderings. *Journal of Mathematical Chemistry*, **2016**, 54, 503-526	2.1	4
93	Metallic monolithic catalysts based on calcium and cerium for the production of biodiesel. *Fuel*, **2016**, 182, 668-676	7.1	14
92	Effect of the thermal conductivity of metallic monoliths on methanol steam reforming. *Catalysis Today*, **2016**, 273, 131-139	5.3	43
91	Issues concerning the use of renewable Ca-based solids as transesterification catalysts. *Fuel*, **2015**, 158, 558-564	7.1	18

90	Kinetics of the NaOH-catalyzed transesterification of sunflower oil with ethanol to produce biodiesel. *Fuel Processing Technology*, **2015**, 129, 147-155	7.2	93
89	Monitoring of the methanolysis reaction for biodiesel production by off-line and on-line refractive index and speed of sound measurements. *Fuel*, **2014**, 121, 157-164	7.1	17
88	Gold supported on CuOx/CeO2 catalyst for the purification of hydrogen by the CO preferential oxidation reaction (PROX). *Fuel*, **2014**, 118, 176-185	7.1	41
87	Heterogenization of the biodiesel synthesis catalysis: CaO and novel calcium compounds as transesterification catalysts. *Chemical Engineering Research and Design*, **2014**, 92, 1519-1530	5.5	81
86	CFD analysis of the effects of the flow distribution and heat losses on the steam reforming of methanol in catalytic (Pd/ZnO) microreactors. *Chemical Engineering Journal*, **2014**, 238, 37-44	14.7	34
85	Experimental study of the performance and emission characteristics of an adapted commercial four-cylinder spark ignition engine running on hydrogen–methane mixtures. *Applied Energy*, **2014**, 113, 1068-1076	10.7	50
84	Ecodesign of PVC packing tape using life cycle assessment. *International Journal of Life Cycle Assessment*, **2014**, 19, 218-230	4.6	10
83	Development of eggshell derived catalyst for transesterification of used cooking oil for biodiesel production. *Asia-Pacific Journal of Chemical Engineering*, **2013**, 8, 742-748	1.3	31
82	Structured catalysts based on Mg–Al hydrotalcite for the synthesis of biodiesel. *Catalysis Today*, **2013**, 216, 211-219	5.3	42
81	Hydrotalcites as Catalysts and Catalysts Precursors for the Synthesis of Biodiesel. *Key Engineering Materials*, **2013**, 571, 1-26	0.4	5
80	Preferential oxidation of CO over Au/CuOx–CeO2 catalyst in microstructured reactors studied through CFD simulations. *Catalysis Today*, **2013**, 216, 283-291	5.3	15
79	Influence of the O2/CO ratio and the presence of H2O and CO2 in the feed-stream during the preferential oxidation of CO (PROX) over a CuOx/CeO2-coated microchannel reactor. *Catalysis Today*, **2013**, 203, 182-187	5.3	28
78	Kinetic analysis and microstructured reactors modeling for the Fischer–Tropsch synthesis over a Co–Re/Al2O3 catalyst. *Catalysis Today*, **2013**, 215, 103-111	5.3	48
77	Renewable Hydrogen Energy **2013**, 1-17		8
76	Computational Fluid Dynamics as a Tool for Designing Hydrogen Energy Technologies **2013**, 401-435		4
75	Hydrogen Hazards and Risks Analysis through CFD Simulations **2013**, 437-452		1
74	Progress in Chemical-Looping Combustion and Reforming technologies. *Progress in Energy and Combustion Science*, **2012**, 38, 215-282	33.6	1554
73	Hydrogen Production From Water Electrolysis: Current Status and Future Trends. *Proceedings of the IEEE*, **2012**, 100, 410-426	14.3	695

72	Corrections to "Hydrogen Production From Water Electrolysis: Current Status and Future Trends" [Feb 12 410-426]. *Proceedings of the IEEE*, **2012**, 100, 811-811	14.3	8
71	A CFD study on the effect of the characteristic dimension of catalytic wall microreactors. *AICHE Journal*, **2012**, 58, 2785-2797	3.6	24
70	DRIFTS study of methanol adsorption on MgAl hydrotalcite catalysts for the transesterification of vegetable oils. *Catalysis Communications*, **2012**, 17, 189-193	3.2	20
69	Preferential oxidation of CO (CO-PROX) over CuOx/CeO2 coated microchannel reactor. *Catalysis Today*, **2012**, 180, 105-110	5.3	40
68	Reduction and oxidation kinetics of nickel-based oxygen-carriers for chemical-looping combustion and chemical-looping reforming. *Chemical Engineering Journal*, **2012**, 188, 142-154	14.7	142
67	Testing of a highly reactive impregnated Fe2O3/Al2O3 oxygen carrier for a SR-CLC system in a continuous CLC unit. *Fuel Processing Technology*, **2012**, 96, 37-47	7.2	59
66	Conversion of a commercial gasoline vehicle to run bi-fuel (hydrogen-gasoline). *International Journal of Hydrogen Energy*, **2012**, 37, 1781-1789	6.7	21
65	VOCs combustion catalysed by platinum supported on manganese octahedral molecular sieves. *Applied Catalysis B: Environmental*, **2011**, 110, 231-237	21.8	44
64	Conversion of a gasoline engine-generator set to a bi-fuel (hydrogen/gasoline) electronic fuel-injected power unit. *International Journal of Hydrogen Energy*, **2011**, 36, 13781-13792	6.7	23
63	Influence of vegetable oils fatty acid composition on reaction temperature and glycerides conversion to biodiesel during transesterification. *Bioresource Technology*, **2011**, 102, 1044-50	11	34
62	Fischer–Tropsch synthesis in microchannels. *Chemical Engineering Journal*, **2011**, 167, 536-544	14.7	83
61	Computational fluid dynamics simulation of ethanol steam reforming in catalytic wall microchannels. *Chemical Engineering Journal*, **2011**, 167, 603-609	14.7	52
60	Selective CO removal over Au/CeFe and CeCu catalysts in microreactors studied through kinetic analysis and CFD simulations. *Chemical Engineering Journal*, **2011**, 167, 588-596	14.7	34
59	Design and testing of a microchannel reactor for the PROX reaction. *Chemical Engineering Journal*, **2011**, 167, 634-642	14.7	38
58	Kinetics of redox reactions of ilmenite for chemical-looping combustion. *Chemical Engineering Science*, **2011**, 66, 689-702	4.4	220
57	Multiple response optimization of vegetable oils fatty acid composition to improve biodiesel physical properties. *Bioresource Technology*, **2011**, 102, 7280-8	11	82
56	Computational fluid dynamics study of heat transfer in a microchannel reactor for low-temperature Fischer–Tropsch synthesis. *Chemical Engineering Journal*, **2010**, 160, 915-922	14.7	54
55	Reactivity of a NiO/Al2O3 oxygen carrier prepared by impregnation for chemical-looping combustion. *Fuel*, **2010**, 89, 3399-3409	7.1	73

54	Conversion of a commercial spark ignition engine to run on hydrogen: Performance comparison using hydrogen and gasoline. *International Journal of Hydrogen Energy*, **2010**, 35, 1420-1429	6.7	73
53	Synthesis of biodiesel from the methanolysis of sunflower oil using PURAL MgAl hydrotalcites as catalyst precursors. *Applied Catalysis B: Environmental*, **2010**, 100, 299-309	21.8	56
52	Iron-modified ceria and Au/ceria catalysts for Total and Preferential Oxidation of CO (TOX and PROX). *Catalysis Today*, **2010**, 157, 155-159	5.3	77
51	Kinetics and selectivity of methyl-ethyl-ketone combustion in air over alumina-supported PdOxMnOx catalysts. *Journal of Catalysis*, **2009**, 261, 50-59	7.3	40
50	NiO/Al2O3 oxygen carriers for chemical-looping combustion prepared by impregnation and deposition precipitation methods. *Fuel*, **2009**, 88, 1016-1023	7.1	99
49	Influence of the power supply on the energy efficiency of an alkaline water electrolyser. *International Journal of Hydrogen Energy*, **2009**, 34, 3221-3233	6.7	74
48	Integration of methanol steam reforming and combustion in a microchannel reactor for H2 production: A CFD simulation study. *Catalysis Today*, **2009**, 143, 25-31	5.3	73
47	Methane steam reforming in a microchannel reactor for GTL intensification: A computational fluid dynamics simulation study. *Chemical Engineering Journal*, **2009**, 154, 168-173	14.7	70
46	Methyl ethyl ketone combustion over La-transition metal (Cr, Co, Ni, Mn) perovskites. *Applied Catalysis B: Environmental*, **2009**, 92, 445-453	21.8	45
45	Methane Combustion in a 500 Wth Chemical-Looping Combustion System Using an Impregnated Ni-Based Oxygen Carrier. *Energy & Fuels*, **2009**, 23, 130-142	4.1	121
44	Synthesis of biodiesel from sunflower oil with silica-supported NaOH catalysts. *Journal of Chemical Technology and Biotechnology*, **2008**, 83, 862-870	3.5	25
43	Alkaline and alkaline-earth metals compounds as catalysts for the methanolysis of sunflower oil. *Catalysis Today*, **2008**, 133-135, 305-313	5.3	128
42	Thermal performance of a commercial alkaline water electrolyzer: Experimental study and mathematical modeling. *International Journal of Hydrogen Energy*, **2008**, 33, 7338-7354	6.7	116
41	Kinetics of Methyl Ethyl Ketone Combustion in Air at Low Concentrations over a Commercial Pt/Al2O3Catalyst. *Industrial & Engineering Chemistry Research*, **2007**, 46, 9037-9044	3.9	11
40	Synthesis of biodiesel with heterogeneous NaOH/alumina catalysts: Comparison with homogeneous NaOH. *Chemical Engineering Journal*, **2007**, 134, 123-130	14.7	219
39	Mapping of the range of operational conditions for Cu-, Fe-, and Ni-based oxygen carriers in chemical-looping combustion. *Chemical Engineering Science*, **2007**, 62, 533-549	4.4	478
38	Renewable Hydrogen Production:Performance of an Alkaline Water Electrolyzer Working under Emulated Wind Conditions. *Energy & Fuels*, **2007**, 21, 1699-1706	4.1	138
37	Monitoring of biodiesel production: Simultaneous analysis of the transesterification products using size-exclusion chromatography. *Chemical Engineering Journal*, **2006**, 122, 31-40	14.7	73

36	CHARACTERIZATION OF THE POROUS STRUCTURE OF AN ALUMINA-PILLARED CLAY BY MEANS OF NITROGEN ADSORPTION AND IMMERSION CALORIMETRY. *Chemical Engineering Communications*, **2005**, 192, 827-837	2.2	1
35	Dehydrogenation of ethylbenzene on alumina-pillared Fe-rich saponites. *Catalysis Letters*, **2005**, 101, 229-234	2.8	7
34	Effect of the temperature of calcination on the catalytic performance of manganese- and samarium-manganese-based oxides in the complete oxidation of acetone. *Applied Catalysis A: General*, **2004**, 274, 229-235	5.1	54
33	Preparation and characterisation of Mn- and Co-supported catalysts derived from Al-pillared clays and Mn- and Co-complexes. *Applied Catalysis A: General*, **2004**, 267, 47-58	5.1	41
32	Microstructure and quantitative estimation of the micropore-size distribution of an alumina-pillared clay from nitrogen adsorption at 77 and carbon dioxide adsorption at 273. *Chemical Engineering Science*, **2003**, 58, 3059-3075	4.4	36
31	Preparation and characterisation of vanadium catalysts supported over alumina-pillared clays. *Catalysis Today*, **2003**, 78, 181-190	5.3	21
30	Complete oxidation of acetone over manganese oxide catalysts supported on alumina- and zirconia-pillared clays. *Applied Catalysis B: Environmental*, **2002**, 38, 295-307	21.8	102
29	Dehydrogenation of Ethylbenzene on Alumina□hromia-Pillared Saponites. *Catalysis Letters*, **2002**, 78, 99-103	2.8	9
28	Comparative study of the textural properties of alumina-pillared saponites synthesised from the intercalation with various aluminium oligomers. *Studies in Surface Science and Catalysis*, **2002**, 144, 585-592	1.8	1
27	Platinum catalysts supported on Al-pillared clays: Application to the catalytic combustion of acetone and methyl-ethyl-ketone. *Catalysis Today*, **2001**, 68, 41-51	5.3	56
26	On the structural changes of a saponite intercalated with various polycations upon thermal treatments. *Applied Catalysis A: General*, **2001**, 217, 191-204	5.1	35
25	Effects of various alkali□cid additives on the activity of a manganese oxide in the catalytic combustion of ketones. *Applied Catalysis B: Environmental*, **2001**, 33, 1-8	21.8	37
24	Influence of the Ti precursor on the properties of Ti□illared smectites. *Clay Minerals*, **2001**, 36, 125-138	1.3	28
23	Main factors controlling the texture of zirconia and alumina pillared clays. *Microporous and Mesoporous Materials*, **2000**, 34, 115-125	5.3	57
22	Influence of the surface adsorption□esorption processes on the ignition curves of volatile organic compounds (VOCs) complete oxidation over supported catalysts. *Applied Catalysis B: Environmental* , **2000**, 26, 37-46	21.8	90
21	Recent Advances in the Synthesis and Catalytic Applications of Pillared Clays. *Catalysis Reviews - Science and Engineering*, **2000**, 42, 145-212	12.6	414
20	Preparation and characterization of manganese oxide catalysts supported on alumina and zirconia-pillared clays. *Applied Catalysis A: General*, **2000**, 196, 281-292	5.1	50
19	New alumina/aluminium monoliths for the catalytic elimination of VOCs. *Studies in Surface Science and Catalysis*, **2000**, 130, 593-598	1.8	10

18	Unsupported and supported manganese oxides used in the catalytic combustion of methyl-ethyl-ketone. *Studies in Surface Science and Catalysis*, **2000**, 143, 527-535	1.8	8
17	Activity and stability of single and perovskite-type manganese and cobalt oxides in the catalytic combustion of acetone. *Studies in Surface Science and Catalysis*, **2000**, 130, 2153-2158	1.8	8
16	Catalytic performance in the complete acetone oxidation of manganese and cobalt oxides supported on alumina and silica?*Financial support by the Ministry of Science and Technology (MAT2000-0985) and the Department of Education and Culture of the Navarre Government (Orden Foral 143/1998) is gratefully acknowledged.. *Studies in Surface Science and Catalysis*, **2000**, 517-525	1.8	1
15	Non-aggressive pillaring of clays with zirconium acetate. Comparison with alumina pillared clays. *Applied Catalysis A: General*, **1999**, 183, 23-33	5.1	20
14	Preparation and characterization of manganese- and samarium-manganese-alumina pillared montmorillonites. *Reaction Kinetics and Catalysis Letters*, **1998**, 64, 145-151		5
13	Pillaring of saponite with zirconium oligomers. *Microporous and Mesoporous Materials*, **1998**, 24, 173-188	5.3	34
12	Texture evolution of nickel and cobalt activated-charcoal-supported catalysts during thermal treatments at increasing temperatures. *Journal of Physics and Chemistry of Solids*, **1997**, 58, 1079-1089	3.9	5
11	Influence of the Nickel Reduction Degree on the Toxicity of H2S and Thiophene over a Ni/SiO2Catalyst. *Journal of Catalysis*, **1996**, 162, 349-358	7.3	6
10	Thiophene hydrogenolysis using temperature-programmed surface reaction as a tool to study poison toxicity. *Applied Catalysis A: General*, **1995**, 132, L1-L7	5.1	1
9	Selectivity in the High-Temperature Hydrogenation of Acetone with Silica-Supported Nickel and Cobalt Catalysts. *Journal of Catalysis*, **1995**, 157, 461-471	7.3	30
8	A new strong basic high surface area catalyst: The nitrided aluminophosphate: AlPON and Ni-AlPON. *Studies in Surface Science and Catalysis*, **1995**, 381-389	1.8	19
7	Influence of the preparation method and the nature of the support on the stability of nickel catalysts. *Applied Catalysis A: General*, **1994**, 109, 167-179	5.1	99
6	Application of a new hydrogenated aluminophosphate oxynitride (ALPON) as a catalytic support for the one-step synthesis of methyl isobutyl ketone from acetone. *Applied Catalysis A: General*, **1994**, 114, L1-L7	5.1	54
5	Effect of the reduction temperature on the selectivity of the high temperature reaction of acetone and hydrogen over alumina and titania supported nickel and cobalt catalysts. *Journal of Molecular Catalysis*, **1994**, 94, 347-367		37
4	Effect of Thermal Treatments on the Properties of Nickel and Cobalt Activated-Charcoal-Supported Catalysts. *Journal of Catalysis*, **1994**, 145, 276-288	7.3	64
3	Study of the high temperature reaction of acetone and hydrogen over zinc oxide-supported Ni and Co catalysts. *Reaction Kinetics and Catalysis Letters*, **1994**, 53, 261-268		8
2	Highly selective one-step formation of methyl isobutyl ketone from acetone with a magnesia supported nickel catalyst. *Applied Catalysis A: General*, **1993**, 101, L1-L6	5.1	52
1	Effect of the design variables on the energy performance and size parameters of a heat transformer based on the system acetone/H2/2-propanol. *International Journal of Energy Research*, **1992**, 16, 851-864	4.5	22