Manuel LÃ³pez Granados

List of Publications by Year
in descending order

115 papers	7,637 citations	41344 49 h-index	53230 85 g-index
119 all docs	119 docs citations	119 times ranked	7333 citing authors

#	Article	IF	Citations
1	Elucidating the roles of acid site nature and strength in the direct conversion of levulinic acid into ethyl valerate: the case of Zr-modified beta zeolite-supported Pd catalysts. Sustainable Energy and Fuels, 2022, 6, 1164-1174.	4.9	5
2	Integrated Environmental and Exergoeconomic Analysis of Biomassâ€Derived Maleic Anhydride. Advanced Sustainable Systems, 2022, 6, .	5.3	6
3	Efficient Conversion of Glucose to Methyl Lactate with Sn-USY: Retro-aldol Activity Promotion by Controlled Ion Exchange. ACS Sustainable Chemistry and Engineering, 2022, 10, 8885-8896.	6.7	9
4	Understanding the role of Al/Zr ratio in Zr-Al-Beta zeolite: Towards the one-pot production of GVL from glucose. Catalysis Today, 2021, 367, 228-238.	4.4	24
5	The relevance of Lewis acid sites on the gas phase reaction of levulinic acid into ethyl valerate using CoSBA-xAl bifunctional catalysts. Catalysis Science and Technology, 2021, 11, 4280-4293.	4.1	5
6	Catalytic Transfer Hydrogenation of Glucose to Sorbitol with Raney Ni Catalysts Using Biomass-Derived Diols as Hydrogen Donors. ACS Sustainable Chemistry and Engineering, 2021, 9, 14857-14867.	6.7	24
7	Process design and techno-economic analysis of gas and aqueous phase maleic anhydride production from biomass-derived furfural. Biomass Conversion and Biorefinery, 2020, 10, 1021-1033.	4.6	23
8	Advances in catalytic routes for the production of carboxylic acids from biomass: a step forward for sustainable polymers. Chemical Society Reviews, 2020, 49, 5704-5771.	38.1	134
9	Stable Continuous Production of Î³-Valerolactone from Biomass-Derived Levulinic Acid over Zrâ€“Al-Beta Zeolite Catalyst. Catalysts, 2020, 10, 678.	3.5	23
10	Catalytic transfer hydrogenation of maleic acid with stoichiometric amounts of formic acid in aqueous phase: paving the way for more sustainable succinic acid production. Green Chemistry, 2020, 22, 1859-1872.	9.0	32
11	Oxidation of lignocellulosic platform molecules to value-added chemicals using heterogeneous catalytic technologies. Catalysis Science and Technology, 2020, 10, 2721-2757.	4.1	60
12	Post-synthesis Treatment of TS-1 with TPAOH: Effect of Hydrophobicity on the Liquid-Phase Oxidation of Furfural to Maleic Acid. Topics in Catalysis, 2019, 62, 560-569.	2.8	12
13	Direct Conversion of Levulinic Acid into Valeric Biofuels Using Pd Supported Over Zeolites as Catalysts. Topics in Catalysis, 2019, 62, 579-588.	2.8	24
14	Snâ€“Al-USY for the valorization of glucose to methyl lactate: switching from hydrolytic to retro-aldol activity by alkaline ion exchange. Green Chemistry, 2019, 21, 5876-5885.	9.0	24
15	Improving the production of maleic acid from biomass: TS-1 catalysed aqueous phase oxidation of furfural in the presence of Î³-valerolactone. Green Chemistry, 2018, 20, 2845-2856.	9.0	58
16	Deactivation of CuZn Catalysts Used in Glycerol Hydrogenolysis to Obtain 1,2-Propanediol. Topics in Catalysis, 2017, 60, 1062-1071.	2.8	23
17	Significance of isomeric reaction intermediates in the hydrogenolysis of glycerol to 1,2-propanediol with Cu-based catalysts. Catalysis Science and Technology, 2017, 7, 3119-3127.	4.1	14
18	Gas phase oxidation of furfural to maleic anhydride on V 2 O 5 /Î³-Al 2 O 3 catalysts: Reaction conditions to slow down the deactivation. Journal of Catalysis, 2017, 348, 265-275.	6.2	48

#	Article	IF	Citations
19	Silica-poly(styrenesulphonic acid) nanocomposites as promising acid catalysts. Catalysis Today, 2017, 279, 155-163.	4.4	5
20	Oxidation of furfural in aqueous H2O2 catalysed by titanium silicalite: Deactivation processes and role of extraframework Ti oxides. Applied Catalysis B: Environmental, 2017, 202, 269-280.	20.2	85
21	Selective conversion of sorbitol to glycols and stability of nickelâ€“ruthenium supported on calcium hydroxide catalysts. Applied Catalysis B: Environmental, 2016, 185, 141-149.	20.2	32
22	Furfural: a renewable and versatile platform molecule for the synthesis of chemicals and fuels. Energy and Environmental Science, 2016, 9, 1144-1189.	30.8	1,220
23	Deactivation of solid catalysts in liquid media: the case of leaching of active sites in biomass conversion reactions. Green Chemistry, 2015, 17, 4133-4145.	9.0	200
24	Exploitment of niobium oxide effective acidity for xylose dehydration to furfural. Catalysis Today, 2015, 254, 90-98.	4.4	48
25	Synthesis of silica xerogelâ€“poly(styrene sulphonic acid) nanocomposites as acid catalysts: effects of temperature and polymer concentration on their textural and chemical properties. Journal of Sol-Gel Science and Technology, 2015, 75, 164-179.	2.4	6
26	Aqueous-phase catalytic oxidation of furfural with H₂O₂: high yield of maleic acid by using titanium silicalite-1. RSC Advances, 2014, 4, 54960-54972.	3.6	97
27	Strategies for immobilizing homogeneous zinc catalysts in biodiesel production. Catalysis Communications, 2014, 56, 81-85.	3.3	16
28	Silica-poly(styrenesulphonic acid) nanocomposites for the catalytic dehydration of xylose to furfural. Applied Catalysis B: Environmental, 2014, 150-151, 421-431.	20.2	31
29	Sorbitol hydrogenolysis to glycols by supported ruthenium catalysts. Chinese Journal of Catalysis, 2014, 35, 614-621.	14.0	32
30	Poly-(styrene sulphonic acid): An acid catalyst from polystyrene waste for reactions of interest in biomass valorization. Catalysis Today, 2014, 234, 285-294.	4.4	49
31	Structural and surface study of calcium glyceroxide, an active phase for biodiesel production under heterogeneous catalysis. Journal of Catalysis, 2013, 300, 30-36.	6.2	74
32	Dehydration of Xylose to Furfural over MCMâ€41â€Supported Niobiumâ€Oxide Catalysts. ChemSusChem, 2013, 6, 635-642.	6.8	80
33	Stability and regeneration of Cuâ€“ZrO2 catalysts used in glycerol hydrogenolysis to 1,2-propanediol. Catalysis Today, 2013, 210, 98-105.	4.4	48
34	Selective Conversion of Furfural to Maleic Anhydride and Furan with VO_x/Al₂O₃ Catalysts. ChemSusChem, 2012, 5, 1984-1990.	6.8	132
35	Cyclopentyl methyl ether: A green co-solvent for the selective dehydration of lignocellulosic pentoses to furfural. Bioresource Technology, 2012, 126, 321-327.	9.6	92
36	Preparation and Characterization of Mgâ€Zr Mixed Oxide Aerogels and Their Application as Aldol Condensation Catalysts. ChemPhysChem, 2012, 13, 3282-3292.	2.1	25

#	Article	IF	Citations
37	Glycerol hydrogenolysis to 1,2-propanediol with Cu/Î³-Al2O3: Effect of the activation process. Catalysis Today, 2012, 187, 122-128.	4.4	64
38	A new and efficient procedure for removing calcium soaps in biodiesel obtained using CaO as a heterogeneous catalyst. Fuel, 2012, 95, 464-470.	6.4	54
39	Poly(styrenesulphonic) acid: an active and reusable acid catalyst soluble in polar solvents. Green Chemistry, 2011, 13, 3203.	9.0	35
40	Catalytic dehydration of xylose to furfural: vanadyl pyrophosphate as source of active soluble species. Carbohydrate Research, 2011, 346, 2785-2791.	2.3	60
41	Mgâ€"Zr mixed oxides for aqueous aldol condensation of furfural with acetone: Effect of preparation method and activation temperature. Catalysis Today, 2011, 167, 77-83.	4.4	52
42	Catalytic and structural properties of co-precipitated Mgâ€"Zr mixed oxides for furfural valorization via aqueous aldol condensation with acetone. Applied Catalysis B: Environmental, 2011, 101, 638-648.	20.2	96
43	Surface chemical promotion of Ca oxide catalysts in biodiesel production reaction by the addition of monoglycerides, diglycerides and glycerol. Journal of Catalysis, 2010, 276, 229-236.	6.2	79
44	Deactivation of organosulfonic acid functionalized silica catalysts during biodiesel synthesis. Applied Catalysis B: Environmental, 2010, 95, 279-287.	20.2	66
45	Relevance of the physicochemical properties of CaO catalysts for the methanolysis of triglycerides to obtain biodiesel. Catalysis Today, 2010, 158, 114-120.	4.4	47
46	Polarity of the acid chain of esters and transesterification activity of acid catalysts. Journal of Catalysis, 2009, 262, 18-26.	6.2	55
47	Biodiesel preparation using Li/CaO catalysts: Activation process and homogeneous contribution. Catalysis Today, 2009, 143, 167-171.	4.4	91
48	Leaching and homogeneous contribution in liquid phase reaction catalysed by solids: The case of triglycerides methanolysis using CaO. Applied Catalysis B: Environmental, 2009, 89, 265-272.	20.2	199
49	Transesterification of Triglycerides by CaO: Increase of the Reaction Rate by Biodiesel Addition. Energy & Fuels, 2009, 23, 2259-2263.	5.1	71
50	Deterioration of the oxygen storage and release properties of CeZrO4 by incorporation of calcium. Journal of Catalysis, 2008, 256, 172-182.	6.2	57
51	Loss of NO storage capacity of Ptâ€"Ba/Al2O3 catalysts due to incorporation of phosphorous. Catalysis Communications, 2008, 9, 327-332.	3.3	3
52	Reactivation of sulphated Pt/Al2O3 catalysts by reductive treatment in the simultaneous oxidation of CO and C3H6. Applied Catalysis B: Environmental, 2007, 72, 272-281.	20.2	40
53	Evolution of the bulk structure and surface species on Feâ€"Ce catalysts during the Fischerâ€"Tropsch synthesis. Green Chemistry, 2007, 9, 663-670.	9.0	53
54	Potassium leaching during triglyceride transesterification using K/Î³-Al2O3 catalysts. Catalysis Communications, 2007, 8, 2074-2080.	3.3	149

#	Article	IF	Citations
55	Biodiesel from sunflower oil by using activated calcium oxide. Applied Catalysis B: Environmental, 2007, 73, 317-326.	20.2	677
56	Nucleation of isolated PO4 units on CeO2 driven by high temperatures and the effect on its oxygen storage and release properties. Topics in Catalysis, 2007, 42-43, 443-447.	2.8	4
57	TXRF analysis of aged three way catalysts. Analyst, The, 2006, 131, 590.	3.5	20
58	Silylation of a Co/SiO2Catalyst. Characterization and Exploitation of the CO Hydrogenation Reaction. Langmuir, 2006, 22, 3131-3137.	3.5	37
59	Relevance in the Fischerâˆ'Tropsch Synthesis of the Formation of Feâˆ'Oâˆ'Ce Interactions on Ironâˆ'Cerium Mixed Oxide Systems. Journal of Physical Chemistry B, 2006, 110, 23870-23880.	2.6	60
60	Modification of a three-way catalyst washcoat by aging: A study along the longitudinal axis. Applied Surface Science, 2006, 252, 8442-8450.	6.1	13
61	Role of P-containing species in phosphated CeO2 in the deterioration of its oxygen storage and release properties. Journal of Catalysis, 2006, 239, 410-421.	6.2	60
62	Synergy of FexCe1âˆ'xO2 mixed oxides for N2O decomposition. Journal of Catalysis, 2006, 239, 340-346.	6.2	177
63	TWC deactivation by lead: A study of the Rh/CeO2 system. Applied Catalysis B: Environmental, 2006, 62, 132-143.	20.2	49
64	Oxidation of o-xylene on mesoporous Ti-phosphate-supported VOx catalysts and promoter effect of K+ on selectivity. Catalysis Today, 2005, 99, 179-186.	4.4	12
65	Metalâ€"support interactions and reactivity of Co/CeO2 catalysts in the Fischerâ€"Tropsch synthesis reaction. Journal of Catalysis, 2005, 234, 451-462.	6.2	109
66	Novel Feâ€"Mnâ€"Znâ€"Tiâ€"O mixed-metal oxides for the low-temperature removal of H2S from gas streams in the presence of H2, CO2, and H2O. Journal of Catalysis, 2005, 236, 205-220.	6.2	71
67	The effect of calcination temperature on the oxygen storage and release properties of CeO2 and Ceâ€"Zrâ€"O metal oxides modified by phosphorus incorporation. Applied Catalysis B: Environmental, 2005, 59, 13-25.	20.2	81
68	Reactivation of sintered Pt/Al2O3 oxidation catalysts. Applied Catalysis B: Environmental, 2005, 59, 227-233.	20.2	47
69	Effect of mileage on the deactivation of vehicle-aged three-way catalysts. Catalysis Today, 2005, 107-108, 77-85.	4.4	41
70	Reactivation of a Commercial Diesel Oxidation Catalyst by Acid Washing. Environmental Science & Technology, 2005, 39, 3844-3848.	10.0	24
71	Chemical Structures of Coprecipitated Feâˆ'Ce Mixed Oxides. Chemistry of Materials, 2005, 17, 2329-2339.	6.7	161
72	Effects of the CePO on the oxygen storage and release properties of CeO and CeZrO solid solution. Journal of Catalysis, 2004, 226, 443-456.	6.2	79

#	Article	IF	Citations
73	Effects of calcination temperature on the stability of CePO4 detected in vehicle-aged commercial three-way catalysts. Applied Catalysis B: Environmental, 2004, 48, 113-123.	20.2	42
74	Deactivation on Vehicle-Aged Diesel Oxidation Catalysts. Topics in Catalysis, 2004, 30/31, 451-456.	2.8	29
75	Manganese-promoted Rh/Al2O3 for C2-oxygenates synthesis from syngas. Applied Catalysis A: General, 2004, 261, 47-55.	4.3	123
76	Inhibition of oxygenated compounds formation during CO hydrogenation over Rh/Î³-Al2O3 catalysts calcined at high temperature. Catalysis Communications, 2004, 5, 703-707.	3.3	18
77	Oxidation of o-Xylene to Phthalic Anhydride on Sb-V/ZrO2 Catalysts. Catalysis Letters, 2003, 89, 27-34.	2.6	3
78	Deactivation of real three way catalysts by CePO4 formation. Applied Catalysis B: Environmental, 2003, 40, 305-317.	20.2	92
79	Influence of residual chloride ions in the CO hydrogenation over Rh/SiO2 catalysts. Journal of Molecular Catalysis A, 2003, 202, 179-186.	4.8	16
80	Bulk and Surface Structures of Palladium-Modified Copperâˆ'Zinc OxidesexHydroxycarbonate Precursors. Chemistry of Materials, 2002, 14, 1863-1872.	6.7	6
81	Chemical Analysis of Used Three-Way Catalysts by Total Reflection X-ray Fluorescence. Analytical Chemistry, 2002, 74, 5463-5469.	6.5	46
82	Bulk and Surface Structures of V2O5/ZrO2Systems and Their Relevance foro-Xylene Oxidation. Langmuir, 2002, 18, 2642-2648.	3.5	47
83	Thermal decomposition of a hydrotalcite-containing Cuâ€"Znâ€"Al precursor: thermal methods combined with an in situ DRIFT study. Physical Chemistry Chemical Physics, 2002, 4, 3122-3127.	2.8	47
84	Selective oxidation of o-xylene over ternary V-Ti-Si catalysts. Applied Catalysis A: General, 2002, 224, 141-151.	4.3	19
85	Effect of Fe-addition on the catalytic activity of silicas in the partial oxidation of methane to formaldehyde. Applied Catalysis A: General, 2002, 226, 163-174.	4.3	60
86	Interfacial Properties of an Ir/TiO2 System and Their Relevance in Crotonaldehyde Hydrogenation. Journal of Catalysis, 2002, 208, 229-237.	6.2	67
87	Reverse Topotactic Transformation of a Cu?Zn?Al Catalyst during Wet Pd Impregnation: Relevance for the Performance in Methanol Synthesis from CO2/H2 Mixtures. Journal of Catalysis, 2002, 210, 273-284.	6.2	119
88	Pd-Modified Cu?Zn Catalysts for Methanol Synthesis from CO2/H2 Mixtures: Catalytic Structures and Performance. Journal of Catalysis, 2002, 210, 285-294.	6.2	116
89	Title is missing!. Catalysis Letters, 2002, 79, 165-170.	2.6	56
90	Title is missing!. Catalysis Letters, 2002, 84, 153-161.	2.6	17

#	Article	IF	Citations
91	Crotonaldehyde Hydrogenation on Rh/TiO2 catalysts: In situ DRIFTS studies. Journal of the Chilean Chemical Society, 2002, 47, .	0.1	1
92	CO hydrogenation with Co catalyst supported on porous media. Journal of Molecular Catalysis A, 2001, 167, 81-89.	4.8	16
93	Î±-TiP-Supported Vanadium Oxide Catalysts: Influence of Calcination Pretreatments on Structure and Performance for o-Xylene Oxidation. Journal of Catalysis, 2001, 204, 466-478.	6.2	12
94	Surface modified amorphous titanosilicate catalysts for liquid phase epoxidation. Catalysis Today, 2000, 61, 49-54.	4.4	51
95	Preliminary study on the TS-1 deactivation during styrene oxidation with H2O2. Catalysis Today, 2000, 61, 263-270.	4.4	40
96	Morphology and Surface Properties of Titaniaâ˘'Silica Hydrophobic Xerogels. Langmuir, 2000, 16, 9460-9467.	3.5	57
97	Oxidation of Toluene and o-Xylene on Ti Phosphate-Supported Vanadium Oxide Catalysts. Journal of Catalysis, 1999, 188, 203-214.	6.2	18
98	Role of the Support in Syngas Conversion over Pd/Cuâ€"KL Zeolite Catalysts. Journal of Catalysis, 1998, 176, 235-245.	6.2	10
99	Spectroscopic Evidence of Cuâ€"Al Interactions in Cuâ€"Znâ€"Al Mixed Oxide Catalysts Used in CO Hydrogenation. Journal of Catalysis, 1998, 178, 146-152.	6.2	130
100	Study by XPS and TPD of the interaction of n-pentane and n-butane with the surface of `non-equilibrated' and `equilibrated' Vâ€"Pâ€"O catalysts. Catalysis Today, 1998, 40, 251-261.	4.4	21
101	CO2 hydrogenation over Pd-modified methanol synthesis catalysts. Catalysis Today, 1998, 45, 251-256.	4.4	60
102	Preparation of alumina-supported CuCo catalysts from cyanide complexes and their performance in CO hydrogenation. Applied Catalysis A: General, 1998, 170, 145-157.	4.3	26
103	Influence of the Preparation Methodology on the Reactivity and Characteristics of Fe-Mo-oxide Nanocrystals Stabilized inside Pentasyl-type Zeolites. Studies in Surface Science and Catalysis, 1998, 118, 577-591.	1.5	10
104	Selective oxidation of o-xylene to phthalic anhydride on V2O5 supported on TiO2-coated SiO2. Catalysis Letters, 1997, 43, 117-121.	2.6	32
105	o-xylene hydrogenation on supported ruthenium catalysts. Catalysis Letters, 1997, 46, 71-75.	2.6	33
106	Partial oxidation of methane to formaldehyde on silica-supported transition metal oxide catalysts. Catalysis Today, 1997, 33, 73-83.	4.4	61
107	TPD, XPS and ESR Studies of the Surface Processes Involved in the Oxidation ofn-Pentane on a (VO)2P2O7 System. Surface and Interface Analysis, 1997, 25, 667-676.	1.8	5
108	A Comparison of the Reactivity of â€œNonequilibratedâ€•and â€œEquilibratedâ€•Vâ€"Pâ€"O Catalysts: Structural Evolution, Surface Characterization, and Reactivity in the Selective Oxidation ofn-Butane andn-Pentane. Journal of Catalysis, 1996, 160, 52-64.	6.2	109

#	Article	IF	Citations
109	The Role of Vanadium Oxide on the Titania Transformation under Thermal Treatments and Surface Vanadium States. Journal of Solid State Chemistry, 1996, 124, 69-76.	2.9	59
110	Acid properties studies of Si and AlSi oxide pillared ZrTi phosphates. Applied Catalysis A: General, 1996, 144, 365-375.	4.3	7
111	Partial oxidation of methane to formaldehyde by lithium promoted VPO catalysts. Applied Catalysis A: General, 1995, 131, 263-281.	4.3	7
112	The effect of Mo on the catalytic and surface properties of Rh-Mo/ZrO2 catalysts. Catalysis Letters, 1995, 34, 331-341.	2.6	8
113	Physicochemical Study of Structural Disorder in Vanadyl Pyrophosphate. Journal of Catalysis, 1993, 141, 671-687.	6.2	30
114	Adsorption of nitric oxide and ammonia on vanadia-titania catalysts: ESR and XPS studies of adsorption. The Journal of Physical Chemistry, 1991, 95, 240-246.	2.9	63
115	Phase transformations of vanadia-titania catalysts induced by phosphoric acid additive. Journal of Catalysis, 1989, 120, 457-464.	6.2	19