

Manuel LÃ³pez Granados

List of Publications by Year in descending order

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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	Furfural: a renewable and versatile platform molecule for the synthesis of chemicals and fuels. <i>Energy and Environmental Science</i> , 2016, 9, 1144-1189.	30.8	1,220
2	Biodiesel from sunflower oil by using activated calcium oxide. <i>Applied Catalysis B: Environmental</i> , 2007, 73, 317-326.	20.2	677
3	Deactivation of solid catalysts in liquid media: the case of leaching of active sites in biomass conversion reactions. <i>Green Chemistry</i> , 2015, 17, 4133-4145.	9.0	200
4	Leaching and homogeneous contribution in liquid phase reaction catalysed by solids: The case of triglycerides methanolysis using CaO. <i>Applied Catalysis B: Environmental</i> , 2009, 89, 265-272.	20.2	199
5	Synergy of FeCe ¹⁺ xO ₂ mixed oxides for N ₂ O decomposition. <i>Journal of Catalysis</i> , 2006, 239, 340-346.	6.2	177
6	Chemical Structures of Coprecipitated Fe ²⁺ Ce Mixed Oxides. <i>Chemistry of Materials</i> , 2005, 17, 2329-2339.	6.7	161
7	Potassium leaching during triglyceride transesterification using K ⁺ /Al ₂ O ₃ catalysts. <i>Catalysis Communications</i> , 2007, 8, 2074-2080.	3.3	149
8	Advances in catalytic routes for the production of carboxylic acids from biomass: a step forward for sustainable polymers. <i>Chemical Society Reviews</i> , 2020, 49, 5704-5771.	38.1	134
9	Selective Conversion of Furfural to Maleic Anhydride and Furan with VO _x /Al ₂ O ₃ Catalysts. <i>ChemSusChem</i> , 2012, 5, 1984-1990.	6.8	132
10	Spectroscopic Evidence of Cu-Al Interactions in Cu-Zn-Al Mixed Oxide Catalysts Used in CO Hydrogenation. <i>Journal of Catalysis</i> , 1998, 178, 146-152.	6.2	130
11	Manganese-promoted Rh/Al ₂ O ₃ for C ₂ -oxygenates synthesis from syngas. <i>Applied Catalysis A: General</i> , 2004, 261, 47-55.	4.3	123
12	Reverse Topotactic Transformation of a Cu ₂ ZnAl Catalyst during Wet Pd Impregnation: Relevance for the Performance in Methanol Synthesis from CO ₂ /H ₂ Mixtures. <i>Journal of Catalysis</i> , 2002, 210, 273-284.	6.2	119
13	Pd-Modified Cu ₂ Zn Catalysts for Methanol Synthesis from CO ₂ /H ₂ Mixtures: Catalytic Structures and Performance. <i>Journal of Catalysis</i> , 2002, 210, 285-294.	6.2	116
14	A Comparison of the Reactivity of α -Nonequilibrated and α -Equilibrated γ -Pd ⁰ O Catalysts: Structural Evolution, Surface Characterization, and Reactivity in the Selective Oxidation of n-Butane and n-Pentane. <i>Journal of Catalysis</i> , 1996, 160, 52-64.	6.2	109
15	Metal-support interactions and reactivity of Co/CeO ₂ catalysts in the Fischer-Tropsch synthesis reaction. <i>Journal of Catalysis</i> , 2005, 234, 451-462.	6.2	109
16	Aqueous-phase catalytic oxidation of furfural with H ₂ O ₂ : high yield of maleic acid by using titanium silicalite-1. <i>RSC Advances</i> , 2014, 4, 54960-54972.	3.6	97
17	Catalytic and structural properties of co-precipitated Mg-Zr mixed oxides for furfural valorization via aqueous aldol condensation with acetone. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 638-648.	20.2	96
18	Deactivation of real three way catalysts by CePO ₄ formation. <i>Applied Catalysis B: Environmental</i> , 2003, 40, 305-317.	20.2	92

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19	Cyclopentyl methyl ether: A green co-solvent for the selective dehydration of lignocellulosic pentoses to furfural. <i>Bioresource Technology</i> , 2012, 126, 321-327.	9.6	92
20	Biodiesel preparation using Li/CaO catalysts: Activation process and homogeneous contribution. <i>Catalysis Today</i> , 2009, 143, 167-171.	4.4	91
21	Oxidation of furfural in aqueous H ₂ O ₂ catalysed by titanium silicalite: Deactivation processes and role of extraframework Ti oxides. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 269-280.	20.2	85
22	The effect of calcination temperature on the oxygen storage and release properties of CeO ₂ and Ce-Zr-O metal oxides modified by phosphorus incorporation. <i>Applied Catalysis B: Environmental</i> , 2005, 59, 13-25.	20.2	81
23	Dehydration of Xylose to Furfural over MCM-41-Supported Niobium-Oxide Catalysts. <i>ChemSusChem</i> , 2013, 6, 635-642.	6.8	80
24	Effects of the CePO on the oxygen storage and release properties of CeO and CeZrO solid solution. <i>Journal of Catalysis</i> , 2004, 226, 443-456.	6.2	79
25	Surface chemical promotion of Ca oxide catalysts in biodiesel production reaction by the addition of monoglycerides, diglycerides and glycerol. <i>Journal of Catalysis</i> , 2010, 276, 229-236.	6.2	79
26	Structural and surface study of calcium glyceroxide, an active phase for biodiesel production under heterogeneous catalysis. <i>Journal of Catalysis</i> , 2013, 300, 30-36.	6.2	74
27	Novel Fe-Mn-Zn-Ti-O mixed-metal oxides for the low-temperature removal of H ₂ S from gas streams in the presence of H ₂ , CO ₂ , and H ₂ O. <i>Journal of Catalysis</i> , 2005, 236, 205-220.	6.2	71
28	Transesterification of Triglycerides by CaO: Increase of the Reaction Rate by Biodiesel Addition. <i>Energy & Fuels</i> , 2009, 23, 2259-2263.	5.1	71
29	Interfacial Properties of an Ir/TiO ₂ System and Their Relevance in Crotonaldehyde Hydrogenation. <i>Journal of Catalysis</i> , 2002, 208, 229-237.	6.2	67
30	Deactivation of organosulfonic acid functionalized silica catalysts during biodiesel synthesis. <i>Applied Catalysis B: Environmental</i> , 2010, 95, 279-287.	20.2	66
31	Glycerol hydrogenolysis to 1,2-propanediol with Cu/Al ₂ O ₃ : Effect of the activation process. <i>Catalysis Today</i> , 2012, 187, 122-128.	4.4	64
32	Adsorption of nitric oxide and ammonia on vanadia-titania catalysts: ESR and XPS studies of adsorption. <i>The Journal of Physical Chemistry</i> , 1991, 95, 240-246.	2.9	63
33	Partial oxidation of methane to formaldehyde on silica-supported transition metal oxide catalysts. <i>Catalysis Today</i> , 1997, 33, 73-83.	4.4	61
34	CO ₂ hydrogenation over Pd-modified methanol synthesis catalysts. <i>Catalysis Today</i> , 1998, 45, 251-256.	4.4	60
35	Effect of Fe-addition on the catalytic activity of silicas in the partial oxidation of methane to formaldehyde. <i>Applied Catalysis A: General</i> , 2002, 226, 163-174.	4.3	60
36	Relevance in the Fischer-Tropsch Synthesis of the Formation of Fe-O-Ce Interactions on Iron-Cerium Mixed Oxide Systems. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23870-23880.	2.6	60

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37	Role of P-containing species in phosphated CeO ₂ in the deterioration of its oxygen storage and release properties. <i>Journal of Catalysis</i> , 2006, 239, 410-421.	6.2	60
38	Catalytic dehydration of xylose to furfural: vanadyl pyrophosphate as source of active soluble species. <i>Carbohydrate Research</i> , 2011, 346, 2785-2791.	2.3	60
39	Oxidation of lignocellulosic platform molecules to value-added chemicals using heterogeneous catalytic technologies. <i>Catalysis Science and Technology</i> , 2020, 10, 2721-2757.	4.1	60
40	The Role of Vanadium Oxide on the Titania Transformation under Thermal Treatments and Surface Vanadium States. <i>Journal of Solid State Chemistry</i> , 1996, 124, 69-76.	2.9	59
41	Improving the production of maleic acid from biomass: TS-1 catalysed aqueous phase oxidation of furfural in the presence of β -valerolactone. <i>Green Chemistry</i> , 2018, 20, 2845-2856.	9.0	58
42	Morphology and Surface Properties of Titania-Silica Hydrophobic Xerogels. <i>Langmuir</i> , 2000, 16, 9460-9467.	3.5	57
43	Deterioration of the oxygen storage and release properties of CeZrO ₄ by incorporation of calcium. <i>Journal of Catalysis</i> , 2008, 256, 172-182.	6.2	57
44	Title is missing!. <i>Catalysis Letters</i> , 2002, 79, 165-170.	2.6	56
45	Polarity of the acid chain of esters and transesterification activity of acid catalysts. <i>Journal of Catalysis</i> , 2009, 262, 18-26.	6.2	55
46	A new and efficient procedure for removing calcium soaps in biodiesel obtained using CaO as a heterogeneous catalyst. <i>Fuel</i> , 2012, 95, 464-470.	6.4	54
47	Evolution of the bulk structure and surface species on Fe-Ce catalysts during the Fischer-Tropsch synthesis. <i>Green Chemistry</i> , 2007, 9, 663-670.	9.0	53
48	Mg-Zr mixed oxides for aqueous aldol condensation of furfural with acetone: Effect of preparation method and activation temperature. <i>Catalysis Today</i> , 2011, 167, 77-83.	4.4	52
49	Surface modified amorphous titanosilicate catalysts for liquid phase epoxidation. <i>Catalysis Today</i> , 2000, 61, 49-54.	4.4	51
50	TWC deactivation by lead: A study of the Rh/CeO ₂ system. <i>Applied Catalysis B: Environmental</i> , 2006, 62, 132-143.	20.2	49
51	Poly-(styrene sulphonic acid): An acid catalyst from polystyrene waste for reactions of interest in biomass valorization. <i>Catalysis Today</i> , 2014, 234, 285-294.	4.4	49
52	Stability and regeneration of Cu-ZrO ₂ catalysts used in glycerol hydrogenolysis to 1,2-propanediol. <i>Catalysis Today</i> , 2013, 210, 98-105.	4.4	48
53	Exploitation of niobium oxide effective acidity for xylose dehydration to furfural. <i>Catalysis Today</i> , 2015, 254, 90-98.	4.4	48
54	Gas phase oxidation of furfural to maleic anhydride on V ₂ O ₅ / γ -Al ₂ O ₃ catalysts: Reaction conditions to slow down the deactivation. <i>Journal of Catalysis</i> , 2017, 348, 265-275.	6.2	48

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55	Bulk and Surface Structures of V ₂ O ₅ /ZrO ₂ Systems and Their Relevance for o-Xylene Oxidation. <i>Langmuir</i> , 2002, 18, 2642-2648.	3.5	47
56	Thermal decomposition of a hydrotalcite-containing Cuâ€“Znâ€“Al precursor: thermal methods combined with an in situ DRIFT study. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 3122-3127.	2.8	47
57	Reactivation of sintered Pt/Al ₂ O ₃ oxidation catalysts. <i>Applied Catalysis B: Environmental</i> , 2005, 59, 227-233.	20.2	47
58	Relevance of the physicochemical properties of CaO catalysts for the methanolysis of triglycerides to obtain biodiesel. <i>Catalysis Today</i> , 2010, 158, 114-120.	4.4	47
59	Chemical Analysis of Used Three-Way Catalysts by Total Reflection X-ray Fluorescence. <i>Analytical Chemistry</i> , 2002, 74, 5463-5469.	6.5	46
60	Effects of calcination temperature on the stability of CePO ₄ detected in vehicle-aged commercial three-way catalysts. <i>Applied Catalysis B: Environmental</i> , 2004, 48, 113-123.	20.2	42
61	Effect of mileage on the deactivation of vehicle-aged three-way catalysts. <i>Catalysis Today</i> , 2005, 107-108, 77-85.	4.4	41
62	Preliminary study on the TS-1 deactivation during styrene oxidation with H ₂ O ₂ . <i>Catalysis Today</i> , 2000, 61, 263-270.	4.4	40
63	Reactivation of sulphated Pt/Al ₂ O ₃ catalysts by reductive treatment in the simultaneous oxidation of CO and C ₃ H ₆ . <i>Applied Catalysis B: Environmental</i> , 2007, 72, 272-281.	20.2	40
64	Silylation of a Co/SiO ₂ Catalyst. Characterization and Exploitation of the CO Hydrogenation Reaction. <i>Langmuir</i> , 2006, 22, 3131-3137.	3.5	37
65	Poly(styrenesulphonic) acid: an active and reusable acid catalyst soluble in polar solvents. <i>Green Chemistry</i> , 2011, 13, 3203.	9.0	35
66	o-xylene hydrogenation on supported ruthenium catalysts. <i>Catalysis Letters</i> , 1997, 46, 71-75.	2.6	33
67	Selective oxidation of o-xylene to phthalic anhydride on V ₂ O ₅ supported on TiO ₂ -coated SiO ₂ . <i>Catalysis Letters</i> , 1997, 43, 117-121.	2.6	32
68	Sorbitol hydrogenolysis to glycols by supported ruthenium catalysts. <i>Chinese Journal of Catalysis</i> , 2014, 35, 614-621.	14.0	32
69	Selective conversion of sorbitol to glycols and stability of nickelâ€“ruthenium supported on calcium hydroxide catalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 185, 141-149.	20.2	32
70	Catalytic transfer hydrogenation of maleic acid with stoichiometric amounts of formic acid in aqueous phase: paving the way for more sustainable succinic acid production. <i>Green Chemistry</i> , 2020, 22, 1859-1872.	9.0	32
71	Silica-poly(styrenesulphonic acid) nanocomposites for the catalytic dehydration of xylose to furfural. <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 421-431.	20.2	31
72	Physicochemical Study of Structural Disorder in Vanadyl Pyrophosphate. <i>Journal of Catalysis</i> , 1993, 141, 671-687.	6.2	30

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73	Deactivation on Vehicle-Aged Diesel Oxidation Catalysts. <i>Topics in Catalysis</i> , 2004, 30/31, 451-456.	2.8	29
74	Preparation of alumina-supported CuCo catalysts from cyanide complexes and their performance in CO hydrogenation. <i>Applied Catalysis A: General</i> , 1998, 170, 145-157.	4.3	26
75	Preparation and Characterization of Mgâ€Zr Mixed Oxide Aerogels and Their Application as Aldol Condensation Catalysts. <i>ChemPhysChem</i> , 2012, 13, 3282-3292.	2.1	25
76	Reactivation of a Commercial Diesel Oxidation Catalyst by Acid Washing. <i>Environmental Science & Technology</i> , 2005, 39, 3844-3848.	10.0	24
77	Direct Conversion of Levulinic Acid into Valeric Biofuels Using Pd Supported Over Zeolites as Catalysts. <i>Topics in Catalysis</i> , 2019, 62, 579-588.	2.8	24
78	Snâ€Al-USY for the valorization of glucose to methyl lactate: switching from hydrolytic to retro-aldol activity by alkaline ion exchange. <i>Green Chemistry</i> , 2019, 21, 5876-5885.	9.0	24
79	Understanding the role of Al/Zr ratio in Zr-Al-Beta zeolite: Towards the one-pot production of GVL from glucose. <i>Catalysis Today</i> , 2021, 367, 228-238.	4.4	24
80	Catalytic Transfer Hydrogenation of Glucose to Sorbitol with Raney Ni Catalysts Using Biomass-Derived Diols as Hydrogen Donors. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 14857-14867.	6.7	24
81	Deactivation of CuZn Catalysts Used in Glycerol Hydrogenolysis to Obtain 1,2-Propanediol. <i>Topics in Catalysis</i> , 2017, 60, 1062-1071.	2.8	23
82	Process design and techno-economic analysis of gas and aqueous phase maleic anhydride production from biomass-derived furfural. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 1021-1033.	4.6	23
83	Stable Continuous Production of Î³-Valerolactone from Biomass-Derived Levulinic Acid over Zrâ€Al-Beta Zeolite Catalyst. <i>Catalysts</i> , 2020, 10, 678.	3.5	23
84	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. <i>Catalysis Today</i> , 1998, 40, 251-261.	4.4	21
85	TXRF analysis of aged three way catalysts. <i>Analyst</i> , 2006, 131, 590.	3.5	20
86	Phase transformations of vanadia-titania catalysts induced by phosphoric acid additive. <i>Journal of Catalysis</i> , 1989, 120, 457-464.	6.2	19
87	Selective oxidation of o-xylene over ternary V-Ti-Si catalysts. <i>Applied Catalysis A: General</i> , 2002, 224, 141-151.	4.3	19
88	Oxidation of Toluene and o-Xylene on Ti Phosphate-Supported Vanadium Oxide Catalysts. <i>Journal of Catalysis</i> , 1999, 188, 203-214.	6.2	18
89	Inhibition of oxygenated compounds formation during CO hydrogenation over Rh/Î³-Al2O3 catalysts calcined at high temperature. <i>Catalysis Communications</i> , 2004, 5, 703-707.	3.3	18
90	Title is missing!. <i>Catalysis Letters</i> , 2002, 84, 153-161.	2.6	17

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91	CO hydrogenation with Co catalyst supported on porous media. Journal of Molecular Catalysis A, 2001, 167, 81-89.	4.8	16
92	Influence of residual chloride ions in the CO hydrogenation over Rh/SiO ₂ catalysts. Journal of Molecular Catalysis A, 2003, 202, 179-186.	4.8	16
93	Strategies for immobilizing homogeneous zinc catalysts in biodiesel production. Catalysis Communications, 2014, 56, 81-85.	3.3	16
94	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
95	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
96	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
97	Oxidation of o-xylene on mesoporous Ti-phosphate-supported VO _x catalysts and promoter effect of K ⁺ on selectivity. Catalysis Today, 2005, 99, 179-186.	4.4	12
98	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
99	Role of the Support in Syngas Conversion over Pd/Cu@KL Zeolite Catalysts. Journal of Catalysis, 1998, 176, 235-245.	6.2	10
100	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
101	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
102	The effect of Mo on the catalytic and surface properties of Rh-Mo/ZrO ₂ catalysts. Catalysis Letters, 1995, 34, 331-341.	2.6	8
103	Partial oxidation of methane to formaldehyde by lithium promoted VPO catalysts. Applied Catalysis A: General, 1995, 131, 263-281.	4.3	7
104	Acid properties studies of Si and AlSi oxide pillared ZrTi phosphates. Applied Catalysis A: General, 1996, 144, 365-375.	4.3	7
105	Bulk and Surface Structures of Palladium-Modified Copper~Zinc OxidesexHydroxycarbonate Precursors. Chemistry of Materials, 2002, 14, 1863-1872.	6.7	6
106	Synthesis of silica xerogel~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
107	Integrated Environmental and Exergoeconomic Analysis of Biomass~Derived Maleic Anhydride. Advanced Sustainable Systems, 2022, 6, .	5.3	6
108	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

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109	Silica-poly(styrenesulphonic acid) nanocomposites as promising acid catalysts. <i>Catalysis Today</i> , 2017, 279, 155-163.	4.4	5
110	The relevance of Lewis acid sites on the gas phase reaction of levulinic acid into ethyl valerate using CoSBA-xAl bifunctional catalysts. <i>Catalysis Science and Technology</i> , 2021, 11, 4280-4293.	4.1	5
111	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. <i>Sustainable Energy and Fuels</i> , 2022, 6, 1164-1174.	4.9	5
112	Nucleation of isolated PO ₄ units on CeO ₂ driven by high temperatures and the effect on its oxygen storage and release properties. <i>Topics in Catalysis</i> , 2007, 42-43, 443-447.	2.8	4
113	Oxidation of o-Xylene to Phthalic Anhydride on Sb-V/ZrO ₂ Catalysts. <i>Catalysis Letters</i> , 2003, 89, 27-34.	2.6	3
114	Loss of NO storage capacity of Pt-Ba/Al ₂ O ₃ catalysts due to incorporation of phosphorous. <i>Catalysis Communications</i> , 2008, 9, 327-332.	3.3	3
115	Crotonaldehyde Hydrogenation on Rh/TiO ₂ catalysts: In situ DRIFTS studies. <i>Journal of the Chilean Chemical Society</i> , 2002, 47, .	0.1	1