

Vicente Cortés Corberán

List of Publications by Year in descending order

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111
papers

3,124
citations

159358

30
h-index

174990

52
g-index

121
all docs

121
docs citations

121
times ranked

3038
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidative dehydrogenation of lower alkanes on vanadium oxide-based catalysts. The present state of the art and outlooks. <i>Applied Catalysis A: General</i> , 1995, 127, 1-40.	2.2	614
2	Preferential oxidation of CO in excess H ₂ over CuO/CeO ₂ catalysts: Characterization and performance as a function of the exposed face present in the CeO ₂ support. <i>Applied Catalysis B: Environmental</i> , 2013, 130-131, 224-238.	10.8	146
3	Selective Oxidation of Ethanol to Acetaldehyde on V ₂ O ₅ /TiO ₂ /SiO ₂ Catalysts. <i>Journal of Catalysis</i> , 1997, 171, 1-13.	3.1	99
4	Surface properties and catalytic performance for ethane combustion of La ^x KxMnO ₃ + $\hat{\Gamma}$ perovskites. <i>Applied Catalysis A: General</i> , 2001, 207, 17-24.	2.2	96
5	Selective oxidehydrogenation of ethane with CO ₂ over CeO ₂ -based catalysts. <i>Catalysis Today</i> , 2000, 61, 43-48.	2.2	79
6	Oxidative dehydrogenation of ethane with CO ₂ over CrO _x catalysts supported on Al ₂ O ₃ , ZrO ₂ , CeO ₂ and CexZr1-xO ₂ . <i>Catalysis Today</i> , 2019, 333, 71-80.	2.2	72
7	Tuning of Lecitase features via solid-phase chemical modification: Effect of the immobilization protocol. <i>Process Biochemistry</i> , 2014, 49, 604-616.	1.8	65
8	Nanostructured ceria-based catalysts for oxydehydrogenation of ethane with CO ₂ . <i>Topics in Catalysis</i> , 2001, 15, 181-188.	1.3	60
9	Selective oxidation of toluene over V ₂ O ₅ /TiO ₂ catalysts. Effect of vanadium loading and of molybdenum addition on the catalytic properties. <i>Applied Catalysis A: General</i> , 1995, 126, 365-380.	2.2	58
10	Green oxidation of fatty alcohols: Challenges and opportunities. <i>Applied Catalysis A: General</i> , 2014, 474, 211-223.	2.2	57
11	Hydroxylation/oxidation of benzene over Cu-ZSM-5 systems: Optimization of the one-step route to phenol. <i>Journal of Catalysis</i> , 2007, 250, 184-189.	3.1	55
12	Faujasite Catalysts Promoted with Gallium Oxide: A Physicochemical Study. <i>The Journal of Physical Chemistry</i> , 1996, 100, 10323-10330.	2.9	54
13	Low-temperature CO oxidation on Ag/ZSM-5 catalysts: Influence of Si/Al ratio and redox pretreatments on formation of silver active sites. <i>Fuel</i> , 2017, 188, 121-131.	3.4	53
14	Ethanol steam reforming on nanostructured catalysts of Ni, Co and CeO ₂ : Influence of synthesis method on activity, deactivation and regenerability. <i>Catalysis Today</i> , 2017, 296, 135-143.	2.2	51
15	Reuse of anion exchangers as supports for enzyme immobilization: Reinforcement of the enzyme-support multiinteraction after enzyme inactivation. <i>Process Biochemistry</i> , 2016, 51, 1391-1396.	1.8	50
16	Propane dehydrogenation and coke formation on chromia-alumina catalysts: effect of reductive pretreatments. <i>Industrial & Engineering Chemistry Research</i> , 1992, 31, 2670-2674.	1.8	49
17	Oxidative dehydrogenation of propane over calcined vanadate-exchanged Mg,Al-layered double hydroxides. <i>Applied Catalysis A: General</i> , 1999, 185, 65-73.	2.2	49
18	Novel approaches for the improvement of selectivity in the oxidative activation of light alkanes. <i>Catalysis Today</i> , 2005, 99, 33-41.	2.2	47

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19	Coimmobilization of enzymes in bilayers using pei as a glue to reuse the most stable enzyme: Preventing pei release during inactivated enzyme desorption. <i>Process Biochemistry</i> , 2017, 61, 95-101.	1.8	47
20	Oxidative dehydrogenation of ethane on supported vanadium-containing oxides. <i>Applied Catalysis A: General</i> , 1995, 124, 281-296.	2.2	39
21	Oxidative dehydrogenation of isobutane on MCM-41 mesoporous molecular sieves. <i>Applied Catalysis A: General</i> , 2002, 232, 189-202.	2.2	39
22	Freeze-Dried Precursor-Based Synthesis of Nanostructured Cobalt-Nickel Molybdates $\text{Co}_{1-x}\text{Ni}_x\text{MoO}_4$. <i>Chemistry of Materials</i> , 2004, 16, 1697-1703.	3.2	39
23	Increasing the Enzyme Loading Capacity of Porous Supports by a Layer-by-Layer Immobilization Strategy Using PEI as Glue. <i>Catalysts</i> , 2019, 9, 576.	1.6	39
24	Selective oxidation of toluene on $\text{V}_2\text{O}_5/\text{TiO}_2/\text{SiO}_2$ catalysts modified with Te, Al, Mg, and K_2SO_4 . <i>Catalysis Today</i> , 1996, 32, 265-272.	2.2	38
25	Oxidation of ethane on high specific surface SmCoO_3 and PrCoO_3 perovskites. <i>Catalysis Today</i> , 2009, 143, 309-314.	2.2	38
26	Novel manganese-promoted inverse CeO_2/CuO catalyst: In situ characterization and activity for the water-gas shift reaction. <i>Catalysis Today</i> , 2020, 339, 24-31.	2.2	35
27	Oxidative dehydrogenation of isobutane over LaBaSm oxide catalyst. <i>Catalysis Today</i> , 2000, 61, 369-375.	2.2	34
28	Improving the CO-PROX Performance of Inverse CeO_2/CuO Catalysts: Doping of the CuO Component with Zn. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9030-9041.	1.5	34
29	Influence of Ceria Dispersion on the Catalytic Performance of $\text{Cu}/(\text{CeO}_2)/\text{Al}_2\text{O}_3$ Catalysts for the CO Oxidation Reaction.. <i>Studies in Surface Science and Catalysis</i> , 1998, , 591-600.	1.5	33
30	Towards efficient catalysts for the oxidative dehydrogenation of propane in the presence of CO_2 : Cr/SiO_2 systems prepared by direct hydrothermal synthesis. <i>Catalysis Science and Technology</i> , 2016, 6, 840-850.	2.1	32
31	On the role of heterogeneous and homogeneous processes in oxidative dehydrogenation of C3-C4 alkanes. <i>Catalysis Today</i> , 2000, 61, 287-293.	2.2	31
32	Surface reactivity of reduced LaFeO_3 as studied by TPD and IR spectroscopies of CO, CO_2 and H_2 . <i>Journal of Materials Science</i> , 1989, 24, 4437-4442.	1.7	29
33	Effect of LaCoO_3 perovskite deposition on ceria-based supports on total oxidation of VOC. <i>Catalysis Today</i> , 2006, 112, 169-173.	2.2	28
34	Multi-CombiLipases: Co-Immobilizing Lipases with Very Different Stabilities Combining Immobilization via Interfacial Activation and Ion Exchange. The Reuse of the Most Stable Co-Immobilized Enzymes after Inactivation of the Least Stable Ones. <i>Catalysts</i> , 2020, 10, 1207.	1.6	28
35	Synthesis of high surface area perovskite catalysts by non-conventional routes. <i>Catalysis Today</i> , 1997, 33, 361-369.	2.2	26
36	Synthesis and surface characterization of nanometric $\text{La}_{1-x}\text{K}_x\text{MnO}_3$ particles. <i>Catalysis Today</i> , 1999, 52, 45-52.	2.2	25

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37	Selective oxidative activation of isobutane on a novel vanadium-substituted bimodal mesoporous oxide V-LVM-7. <i>Catalysis Today</i> , 2006, 117, 180-186.	2.2	24
38	Oxidative dehydrogenation of propane on zeolite catalysts. <i>Catalysis Today</i> , 2000, 61, 343-352.	2.2	23
39	Direct oxidation of isobutane to methacrolein over V-MCM-41 catalysts. <i>Catalysis Today</i> , 2004, 91-92, 43-47.	2.2	23
40	Oxidative dehydrogenation of isobutane over Co-MCM-41 catalysts. <i>Catalysis Today</i> , 2004, 91-92, 127-130.	2.2	22
41	Selective oxidation of 1-octanol over gold supported on mesoporous metal-modified HMS: The effect of the support. <i>Catalysis Today</i> , 2014, 227, 65-70.	2.2	22
42	Oxidation of 5-Hydroxymethylfurfural on Supported Ag, Au, Pd and Bimetallic Pd-Au Catalysts: Effect of the Support. <i>Catalysts</i> , 2021, 11, 115.	1.6	20
43	Effect of different additives on the performance of V ⁵⁺ Mg ²⁺ O catalysts in the oxidative dehydrogenation of propane. <i>Reaction Kinetics and Catalysis Letters</i> , 1995, 55, 213-220.	0.6	19
44	Propane partial oxidation to acrolein over combined catalysts. <i>Catalysis Letters</i> , 2000, 69, 203-206.	1.4	19
45	In situ structural changes during toluene complete oxidation on supported EuCoO ₃ monitored with ¹⁵¹ Eu Mössbauer spectroscopy. <i>Catalysis Today</i> , 2006, 117, 329-336.	2.2	19
46	Nickel catalysts promoted with lanthanum for ethanol steam reforming: Influence of support and treatment on activity. <i>Applied Catalysis A: General</i> , 2021, 619, 118141.	2.2	19
47	Isomorphe Substitution in Zeolithen: Katalyse an Boro-, Alumo- und Gallosilicaten mit ZSM-5-Struktur. <i>Chemie-Ingenieur-Technik</i> , 1986, 58, 969-971.	0.4	18
48	Title is missing!. <i>Topics in Catalysis</i> , 2000, 11/12, 153-160.	1.3	18
49	Catalytic properties of niobium and gallium oxide systems supported on MCM-41 type materials. <i>Applied Catalysis A: General</i> , 2007, 325, 328-335.	2.2	18
50	Hydrogen from Bioethanol. , 2013, , 135-169.		17
51	Causes of Activation and Deactivation of Modified Nanogold Catalysts during Prolonged Storage and Redox Treatments. <i>Molecules</i> , 2016, 21, 486.	1.7	17
52	Silver catalysts for liquid-phase oxidation of alcohols in green chemistry: Challenges and outlook. <i>Catalysis Today</i> , 2019, 333, 81-88.	2.2	17
53	Gallium oxide promoted zeolite catalysts for oxidative dehydrogenation of propane. <i>Catalysis Today</i> , 1996, 32, 193-204.	2.2	16
54	Improvement of catalytic functions of binary V-Sb oxide catalysts for oxidative conversion of isobutane to isobutene. <i>Chemical Engineering Journal</i> , 2003, 95, 37-45.	6.6	16

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55	Green Oxidation of n-Octanol on Supported Nanogold Catalysts: Formation of Gold Active Sites under Combined Effect of Gold Content, Additive Nature and Redox Pretreatment. <i>ChemCatChem</i> , 2019, 11, 1615-1624.	1.8	16
56	Mixed MVSb oxides as oxidehydrogenation catalysts. <i>Catalysis Today</i> , 1996, 32, 177-183.	2.2	15
57	n-Octanol oxidation on Au/TiO ₂ catalysts promoted with La and Ce oxides. <i>Molecular Catalysis</i> , 2017, 427, 1-10.	1.0	15
58	Ethane oxidehydrogenation selectivity and reductibility of mixed NiVSb oxides. <i>Catalysis Letters</i> , 1996, 40, 223-228.	1.4	14
59	Au/TiO ₂ catalysts promoted with Fe and Mg for n-octanol oxidation under mild conditions. <i>Catalysis Today</i> , 2016, 278, 104-112.	2.2	14
60	Modified Ag/TiO ₂ systems: Promising catalysts for liquid-phase oxidation of alcohols. <i>Fuel</i> , 2018, 234, 110-119.	3.4	14
61	Structure of unpromoted and alkali-metal promoted MnO _x -based catalysts for oxidative coupling of methane. <i>Applied Catalysis</i> , 1990, 61, 311-328.	1.1	13
62	Catalytic combustion of ethane over high surface area Ln _{1-x} KxMnO ₃ (Ln = La, Nd) perovskites: The effect of potassium substitution. <i>Studies in Surface Science and Catalysis</i> , 1997, , 747-756.	1.5	13
63	Oxidative conversion of isobutane to isobutene over V-Sb-Ni oxide catalysts. <i>Applied Catalysis A: General</i> , 2003, 250, 143-150.	2.2	13
64	High Performance Of Vanadia Catalysts Supported On TiO ₂ -Coated Silica For Selective Oxidation Of Ethanol. <i>Studies in Surface Science and Catalysis</i> , 1992, 72, 147-154.	1.5	12
65	Oxidehydrogenation of Ethane with CO ₂ over transition metal doped MCM-41 mesoporous catalysts. <i>Studies in Surface Science and Catalysis</i> , 2004, 153, 343-346.	1.5	12
66	Identification of Subnanometric Ag Species, Their Interaction with Supports and Role in Catalytic CO Oxidation. <i>Molecules</i> , 2016, 21, 532.	1.7	12
67	High performance of V-Ga-O catalysts for oxidehydrogenation of propane. <i>Catalysis Today</i> , 2003, 78, 247-256.	2.2	11
68	Nanostructured Oxide Catalysts for Oxidative Activation of Alkanes. <i>Topics in Catalysis</i> , 2009, 52, 962-969.	1.3	11
69	Novel route of synthesis of ultra-small Au nanoparticles on SiO ₂ supports. <i>Fuel</i> , 2019, 236, 589-597.	3.4	11
70	Effect of Gold Electronic State on the Catalytic Performance of Nano Gold Catalysts in n-Octanol Oxidation. <i>Nanomaterials</i> , 2020, 10, 880.	1.9	11
71	Structure and reactivity of alkali-doped calcium oxide catalysts for oxidative coupling of methane. <i>Applied Catalysis A: General</i> , 1993, 101, 167-183.	2.2	10
72	The thermal spreading of antimony oxides onto Fe ₂ O ₃ . <i>Applied Surface Science</i> , 2003, 210, 346-352.	3.1	10

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73	Acidity and oxidation activity of MoO ₃ -UO ₃ /SiO ₂ catalysts. Reaction Kinetics and Catalysis Letters, 1988, 36, 235-240.	0.6	9
74	TPD and IR spectroscopic studies of CO, CO ₂ and H ₂ adsorption on LaCrO ₃ . Applied Surface Science, 1989, 37, 353-366.	3.1	9
75	Laser Raman and XPS analyses of molybdenum-rare earth oxide catalysts. Surface and Interface Analysis, 1991, 17, 940-946.	0.8	9
76	Isoprene and C ₅ Olefins Production by Oxidative Dehydrogenation of Isopentane. Industrial & Engineering Chemistry Research, 2008, 47, 8037-8042.	1.8	9
77	Vanadium oxide supported on gallium and indium oxides: Synthesis, physicochemical and catalytic properties. Studies in Surface Science and Catalysis, 2000, 130, 1889-1894.	1.5	8
78	Heterogeneous selective oxidation of fatty alcohols: Oxidation of 1-tetradecanol as a model substrate. Catalysis Today, 2014, 238, 49-53.	2.2	8
79	Glycerol Oxidation over Supported Gold Catalysts: The Combined Effect of Au Particle Size and Basicity of Support. Processes, 2020, 8, 1016.	1.3	8
80	Partial oxidation of isobutene over molybdenum trioxide (MoO ₃)-uranium trioxide (UO ₃)-silicon dioxide catalysts. A reaction network. Industrial & Engineering Chemistry Product Research and Development, 1984, 23, 546-552.	0.5	7
81	Kinetics of the partial oxidation of isobutene over silica-supported molybdenum-uranium oxide catalyst. Industrial & Engineering Chemistry Product Research and Development, 1985, 24, 62-68.	0.5	7
82	Determination of kinetic parameters of the oxidative hydrogenation of ethane with CO ₂ on nanosized calcium-doped ceria under fast deactivation processes. Catalysis Today, 2006, 112, 148-152.	2.2	7
83	Nanostructured Catalysts Based on Combinations of Cobalt and Cerium Oxides for CO Oxidation and Effect of the Presence of Water. Journal of Nanoscience and Nanotechnology, 2017, 17, 3816-3823.	0.9	7
84	Recent Applications of Nanometal Oxide Catalysts in Oxidation Reactions. , 2019, , 227-293.		7
85	Selective oxidation of n-octanol on unmodified and La-modified nanogold catalysts: Effect of metal content. Catalysis Today, 2019, 333, 127-132.	2.2	7
86	The effect of support properties on n-octanol oxidation performed on gold-silver catalysts supported on MgO, ZnO and Nb ₂ O ₅ . Molecular Catalysis, 2020, 482, 110674.	1.0	7
87	Supported Gold Nanoparticles as Catalysts in Peroxidative and Aerobic Oxidation of 1-Phenylethanol under Mild Conditions. Nanomaterials, 2020, 10, 151.	1.9	7
88	Nickel Supported on Alkaline Earth Metal-Doped γ -Al ₂ O ₃ -La ₂ O ₃ as Catalysts for Dry Reforming of Methane. Russian Journal of Applied Chemistry, 2020, 93, 289-298.	0.1	6
89	Selective oxidation of ethanol on V-MCM-41 catalysts. Catalysis Today, 2020, 356, 464-470.	2.2	5
90	Inverse CeO ₂ /CuO WGS catalysts: Influence of the presence of oxygen in the reactant mixture. Catalysis Today, 2021, 363, 105-110.	2.2	5

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91	Catalytic and physico-chemical properties of a doped MoO ₃ /SiO ₂ catalyst used in propylene oxidation. Reaction Kinetics and Catalysis Letters, 1981, 17, 181-186.	0.6	4
92	A comparative study of propene adsorption on total and partial oxidation catalysts. Journal of Colloid and Interface Science, 1989, 129, 270-277.	5.0	4
93	The antimony-rich layer created by thermal-spreading of Sb ₂ O ₃ on Fe ₂ O ₃ surface. Surface Science, 2003, 547, 55-62.	0.8	4
94	AEM, XPS and ISS characterization of catalyst modifications during propene oxidation over a supported mixed oxide catalyst. Surface and Interface Analysis, 1986, 9, 207-213.	0.8	3
95	Raman studies of supported V, Cr and Sb oxides and their mechanical mixture with Î±-Bi ₂ Mo ₃ O ₁₂ . Journal of Molecular Catalysis A, 2000, 158, 271-274.	4.8	3
96	Transient response studies of isobutane oxidative dehydrogenation over molybdenum catalysts. Studies in Surface Science and Catalysis, 2000, 130, 1901-1906.	1.5	3
97	Nanostructured silica-supported gold: Effect of nanoparticle size distribution and electronic state on its catalytic properties in oxidation reactions. Catalysis Today, 2021, 366, 77-86.	2.2	3
98	Microemulsion vs. Precipitation: Which Is the Best Synthesis of Nickel–Ceria Catalysts for Ethanol Steam Reforming?. Processes, 2021, 9, 77.	1.3	3
99	Enhanced O ₂ adsorption in the catalytic oxidation of isobutene on a supported Mo–U–O catalyst. Journal of Colloid and Interface Science, 1985, 106, 269-272.	5.0	2
100	Partial oxidation of 1-butene on NiO–MoO ₃ catalysts supported on a HY ultrastable zeolite. Reaction Kinetics and Catalysis Letters, 1986, 32, 191-197.	0.6	2
101	Oxidative dehydrogenation of propane on gallium oxide-faujasite catalysts. Studies in Surface Science and Catalysis, 1994, 82, 133-142.	1.5	2
102	Oxidative dehydrogenation (OXD) of C ₃ –C ₄ paraffins over transition metal oxides. Reaction Kinetics and Catalysis Letters, 1995, 56, 413-420.	0.6	2
103	Novel KF-TiO ₂ catalysts for oxidative dehydrogenation of isobutane. Reaction Kinetics and Catalysis Letters, 2002, 75, 31-37.	0.6	2
104	Gold and Silver Catalysts for Liquid Phase n-Octanol Oxidation: Effect of Promoters. Current Organic Synthesis, 2017, 14, 323-331.	0.7	2
105	Unconventional Oxidants for Gas-Phase Oxidations. , 2014, , 877-920.		1
106	Selectivity control in oxidation of 1-tetradecanol on supported nano Au catalysts. Catalysis Today, 2016, 278, 113-119.	2.2	1
107	Effect of the Metal Deposition Order on Structural, Electronic and Catalytic Properties of TiO ₂ -Supported Bimetallic Au-Ag Catalysts in 1-Octanol Selective Oxidation. Catalysts, 2021, 11, 799.	1.6	1
108	Institute of catalysis and petroleum chemistry, Madrid. Applied Catalysis, 1991, 78, N16.	1.1	0

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109	Title is missing!. Catalysis Today, 2009, 141, 243-244.	2.2	0
110	Oxidative Dehydrogenation of Propane on Large-Pore Zeolites. , 1998, , 397-401.		0
111	Characterization and Catalytic Activity for the Oxidation of Ethane and Propane on Platinum and Copper Supported on CeO ₂ /Al ₂ O ₃ . Brazilian Journal of Chemical Engineering, 1998, 15, 210-216.	0.7	0