

Agustin Martinez

List of Publications by Year in descending order

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98
papers

9,596
citations

32410

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40945

97
g-index

101
all docs

101
docs citations

101
times ranked

7461
citing authors

#	ARTICLE	IF	CITATIONS
1	A Career in Catalysis: Avelino Corma. ACS Catalysis, 2022, 12, 7054-7123.	5.5	14
2	Short-channel mesoporous SBA-15 silica modified by aluminum grafting as a support for CoRu Fischer-Tropsch synthesis catalysts. Catalysis Science and Technology, 2021, 11, 4245-4258.	2.1	7
3	Copper surface-alloying of H ₂ -permeable Pd-based membrane for integration in Fischer-Tropsch synthesis reactors. Journal of Membrane Science, 2021, 619, 118516.	4.1	4
4	High-performing Ir- and Pt-containing catalysts based on mesoporous beta zeolite for the selective ring opening of decalin. Catalysis Science and Technology, 2020, 10, 1073-1085.	2.1	10
5	The nature of active Ni sites and the role of Al species in the oligomerization of ethylene on mesoporous Ni-Al-MCM-41 catalysts. Applied Catalysis A: General, 2020, 608, 117831.	2.2	12
6	Insights into the Promotion with Ru of Co/TiO ₂ Fischer-Tropsch Catalysts: An In Situ Spectroscopic Study. ACS Catalysis, 2020, 10, 6042-6057.	5.5	39
7	Influence of amines in the synthesis and properties of mesostructured aluminas and assessment as supports for Co-based Fischer-Tropsch synthesis catalysts. Fuel Processing Technology, 2020, 205, 106433.	3.7	3
8	New trends in tailoring active sites in zeolite-based catalysts. Chemical Society Reviews, 2019, 48, 1095-1149.	18.7	330
9	Ethanol conversion into 1,3-butadiene over a mixed Hf-Zn catalyst: Effect of reaction conditions and water content in ethanol. Fuel Processing Technology, 2019, 193, 263-272.	3.7	35
10	Ethanol conversion into 1,3-butadiene over a mixed Hf-Zn catalyst: A study of the reaction pathway and catalyst deactivation. Applied Catalysis A: General, 2019, 570, 96-106.	2.2	31
11	Nature of Active Nickel Sites and Initiation Mechanism for Ethylene Oligomerization on Heterogeneous Ni-beta Catalysts. ACS Catalysis, 2018, 8, 3903-3912.	5.5	102
12	Catalytic conversion of furfural-acetone condensation products into bio-derived C8 linear alcohols over Ni Cu/Al-SBA-15. Catalysis Communications, 2018, 114, 42-45.	1.6	9
13	The impact of support surface area on the SMSI decoration effect and catalytic performance for Fischer-Tropsch synthesis of Co-Ru/TiO ₂ -anatase catalysts. Catalysis Today, 2017, 296, 170-180.	2.2	25
14	Steering linear 1-alkene, propene or gasoline yields in ethene oligomerization via the interplay between nickel and acid sites. Chemical Engineering Science, 2017, 173, 49-59.	1.9	32
15	TiO ₂ polymorph dependent SMSI effect in Co-Ru/TiO ₂ catalysts and its relevance to Fischer-Tropsch synthesis. Catalysis Today, 2017, 289, 181-191.	2.2	45
16	Bifunctional noble metal/zeolite catalysts for upgrading low-quality diesel fractions via selective opening of naphthenic rings. Catalysis Science and Technology, 2016, 6, 2528-2542.	2.1	30
17	Direct conversion of methane to aromatics in a catalytic co-ionic membrane reactor. Science, 2016, 353, 563-566.	6.0	341
18	Heterogeneous oligomerization of ethylene to liquids on bifunctional Ni-based catalysts: The influence of support properties on nickel speciation and catalytic performance. Catalysis Today, 2016, 277, 78-88.	2.2	72

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19	Non-oxidative methane dehydroaromatization on Mo/HZSM-5 catalysts: Tuning the acidic and catalytic properties through partial exchange of zeolite protons with alkali and alkaline-earth cations. <i>Applied Catalysis A: General</i> , 2016, 515, 32-44.	2.2	46
20	A rational strategy for preparing Cu ²⁺ /ZnO/H-ZSM-5 hybrid catalysts with enhanced stability during the one-step conversion of syngas to dimethyl ether (DME). <i>Applied Catalysis A: General</i> , 2015, 493, 40-49.	2.2	46
21	Cobalt-Catalyzed Fischer-Tropsch Synthesis: Chemical Nature of the Oxide Support as a Performance Descriptor. <i>ACS Catalysis</i> , 2015, 5, 3323-3335.	5.5	91
22	The influence of zeolite surface-aluminum species on the deactivation of CuZnAl/zeolite hybrid catalysts for the direct DME synthesis. <i>Catalysis Today</i> , 2014, 227, 144-153.	2.2	44
23	The impact of zeolite pore structure on the catalytic behavior of CuZnAl/zeolite hybrid catalysts for the direct DME synthesis. <i>Applied Catalysis A: General</i> , 2013, 468, 102-111.	2.2	53
24	New bifunctional Ni ²⁺ /H-Beta catalysts for the heterogeneous oligomerization of ethylene. <i>Applied Catalysis A: General</i> , 2013, 467, 509-518.	2.2	123
25	The impact of pre-reduction thermal history on the metal surface topology and site-catalytic activity of Fischer-Tropsch catalysts. <i>Journal of Catalysis</i> , 2013, 302, 37-48.	3.1	69
26	A simple and efficient approach to confine Cu/ZnO methanol synthesis catalysts in the ordered mesoporous SBA-15 silica. <i>Catalysis Today</i> , 2013, 215, 152-161.	2.2	49
27	n-Hexadecane hydrocracking Single-Event MicroKinetics on Pt/H-beta. <i>Applied Catalysis A: General</i> , 2012, 441-442, 10-20.	2.2	31
28	Study of the interaction between components in hybrid CuZnAl/HZSM-5 catalysts and its impact in the syngas-to-DME reaction. <i>Catalysis Today</i> , 2012, 179, 43-51.	2.2	102
29	Direct synthesis of DME from syngas on hybrid CuZnAl/ZSM-5 catalysts: New insights into the role of zeolite acidity. <i>Applied Catalysis A: General</i> , 2012, 411-412, 170-179.	2.2	130
30	New insights into the role of the electronic properties of oxide promoters in Rh-catalyzed selective synthesis of oxygenates from synthesis gas. <i>Journal of Catalysis</i> , 2011, 280, 274-288.	3.1	64
31	Improvement of catalyst stability during methane dehydroaromatization (MDA) on Mo/HZSM-5 comprising intracrystalline mesopores. <i>Catalysis Today</i> , 2011, 169, 75-84.	2.2	64
32	Enhanced sulfur resistance of bifunctional Pd/HZSM-5 catalyst comprising hierarchical carbon-templated zeolite. <i>Applied Catalysis A: General</i> , 2010, 379, 188-197.	2.2	23
33	Nanofibrous γ -Al ₂ O ₃ as support for Co-based Fischer-Tropsch catalysts: Pondering the relevance of diffusional and dispersion effects on catalytic performance. <i>Journal of Catalysis</i> , 2009, 263, 292-305.	3.1	117
34	Cobalt particle size effects in Fischer-Tropsch synthesis: structural and in situ spectroscopic characterisation on reverse micelle-synthesised Co/ITQ-2 model catalysts. <i>Journal of Catalysis</i> , 2009, 266, 129-144.	3.1	342
35	The Application of Zeolites and Periodic Mesoporous Silicas in the Catalytic Conversion of Synthesis Gas. <i>Topics in Catalysis</i> , 2009, 52, 75-90.	1.3	69
36	Cobalt supported on morphologically tailored SBA-15 mesostructures: The impact of pore length on metal dispersion and catalytic activity in the Fischer-Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2009, 367, 146-156.	2.2	134

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37	Catalytic behavior of hybrid Co/SiO ₂ -(medium-pore) zeolite catalysts during the one-stage conversion of syngas to gasoline. <i>Applied Catalysis A: General</i> , 2008, 346, 117-125.	2.2	55
38	Modulation of zeolite acidity by post-synthesis treatments in Mo/HZSM-5 catalysts for methane dehydroaromatization. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 1075-1080.	1.5	6
39	The key role of support surface tuning during the preparation of catalysts from reverse micellar-synthesized metal nanoparticles. <i>Catalysis Communications</i> , 2007, 8, 1479-1486.	1.6	40
40	Breaking the dispersion-reducibility dependence in oxide-supported cobalt nanoparticles. <i>Journal of Catalysis</i> , 2007, 245, 470-476.	3.1	100
41	Influence of the preparative route on the properties of WO ₃ -ZrO ₂ catalysts: A detailed structural, spectroscopic, and catalytic study. <i>Journal of Catalysis</i> , 2007, 248, 288-302.	3.1	100
42	A detailed study of the activity and deactivation of zeolites in hybrid Co/SiO ₂ -zeolite Fischer-Tropsch catalysts. <i>Journal of Catalysis</i> , 2007, 249, 162-173.	3.1	127
43	Hydroconversion of n-hexadecane over Pt/WO ₃ -ZrO ₂ catalysts prepared by a PVA-template coprecipitation route. <i>Applied Catalysis A: General</i> , 2006, 309, 224-236.	2.2	33
44	Dehydroaromatization of methane under non-oxidative conditions over bifunctional Mo/ITQ-2 catalysts. <i>Catalysis Today</i> , 2005, 107-108, 676-684.	2.2	44
45	The influence of ZSM-5 zeolite composition and crystal size on the in situ conversion of Fischer-Tropsch products over hybrid catalysts. <i>Applied Catalysis A: General</i> , 2005, 294, 251-259.	2.2	106
46	Zeolites in refining and petrochemistry. <i>Studies in Surface Science and Catalysis</i> , 2005, 157, 337-366.	1.5	56
47	Characterization and catalytic properties of cobalt supported on delaminated ITQ-6 and ITQ-2 zeolites for the Fischer-Tropsch synthesis reaction. <i>Journal of Catalysis</i> , 2004, 228, 321-332.	3.1	94
48	Hydrogenation and ring opening of Tetralin over bifunctional catalysts based on the new ITQ-21 zeolite. <i>Applied Catalysis A: General</i> , 2004, 273, 277-286.	2.2	57
49	Hydrocracking catalysts based on the new large-pore ITQ-21 zeolite for maximizing diesel products. <i>Studies in Surface Science and Catalysis</i> , 2004, 154, 2380-2386.	1.5	13
50	Fischer-Tropsch synthesis of hydrocarbons over mesoporous Co/SBA-15 catalysts: the influence of metal loading, cobalt precursor, and promoters. <i>Journal of Catalysis</i> , 2003, 220, 486-499.	3.1	425
51	Catalytic performance of mesoporous VO _x /SBA-15 catalysts for the partial oxidation of methane to formaldehyde. <i>Applied Catalysis A: General</i> , 2003, 249, 345-354.	2.2	128
52	The influence of zeolite acidity for the coupled hydrogenation and ring opening of 1-methylnaphthalene on Pt/USY catalysts. <i>Applied Catalysis A: General</i> , 2002, 230, 203-217.	2.2	109
53	Title is missing!. <i>Catalysis Letters</i> , 2002, 83, 37-41.	1.4	39
54	Simultaneous isomerization of n-heptane and saturation of benzene over Pt/Beta catalysts. <i>Catalysis Today</i> , 2001, 65, 117-122.	2.2	49

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55	Catalytic Performance of the New Delaminated ITQ-2 Zeolite for Mild Hydrocracking and Aromatic Hydrogenation Processes. <i>Journal of Catalysis</i> , 2001, 200, 259-269.	3.1	86
56	Activity, Selectivity, and Sulfur Resistance of Pt/WO _x -ZrO ₂ and Pt/Beta Catalysts for the Simultaneous Hydroisomerization of n-Heptane and Hydrogenation of Benzene. <i>Journal of Catalysis</i> , 2000, 190, 309-319.	3.1	118
57	Selective isomerization of n-butenes to isobutene on high Si/Al ratio ferrierite in the absence of coke deposits: implications on the reaction mechanism. <i>Applied Catalysis A: General</i> , 1999, 183, 155-165.	2.2	42
58	Zeolite SUZ-4: reproducible synthesis, physicochemical characterization and catalytic evaluation for the skeletal isomerization of n-butenes. <i>Microporous and Mesoporous Materials</i> , 1999, 28, 427-436.	2.2	29
59	Supported heteropolyacid (HPW) catalysts for the continuous alkylation of isobutane with 2-butene: The benefit of using MCM-41 with larger pore diameters. <i>Journal of Catalysis</i> , 1998, 177, 306-313.	3.1	240
60	Ethylbenzene hydroisomerization over bifunctional zeolite based catalysts: The influence of framework and extraframework composition and zeolite structure. <i>Journal of Catalysis</i> , 1998, 177, 363-377.	3.1	75
61	Mild Hydrocracking of Vacuum Gasoil over NiMo-Beta Zeolite Catalysts: The Role of the Location of the NiMo Phases and the Crystallite Size of the Zeolite. <i>Journal of Catalysis</i> , 1998, 179, 537-547.	3.1	85
62	Isomorphous substitution in ZSM-22 zeolite. The role of zeolite acidity and crystal size during the skeletal isomerization of n-butene. <i>Applied Catalysis A: General</i> , 1998, 174, 163-175.	2.2	46
63	Direct Synthesis and Characterization of Hydrophobic Aluminum-Free Ti-Beta Zeolite. <i>Journal of Physical Chemistry B</i> , 1998, 102, 75-88.	1.2	395
64	Transformation of Alkanes on Solid Acid and Bifunctional Catalysts. , 1998, , 35-74.		1
65	Epoxidation of unsaturated fatty esters over large-pore Ti-containing molecular sieves as catalysts: important role of the hydrophobic-hydrophilic properties of the molecular sieve. <i>Chemical Communications</i> , 1997, , 795-796.	2.2	102
66	Hydrogenation of Aromatics in Diesel Fuels on Pt/MCM-41 Catalysts. <i>Journal of Catalysis</i> , 1997, 169, 480-489.	3.1	238
67	Hydrocracking-hydroisomerization of n-decane on amorphous silica-alumina with uniform pore diameter. <i>Applied Catalysis A: General</i> , 1997, 152, 107-125.	2.2	106
68	Diastereoselective epoxidation of allylic alcohols with hydrogen peroxide catalyzed by titanium-containing zeolites or methyltrioxorhenium versus stoichiometric oxidation with dimethyldioxirane: Clues on the active species in the zeolite lattice. <i>Journal of Molecular Catalysis A</i> , 1997, 117, 357-366.	4.8	47
69	Synthesis and catalytic activity of aluminium-free zeolite Ti-Beta oxidation catalysts. <i>Chemical Communications</i> , 1996, , 1339-1340.	2.2	123
70	Unseeded synthesis of Al-free Ti-Beta zeolite in fluoride medium: a hydrophobic selective oxidation catalyst. <i>Chemical Communications</i> , 1996, , 2367-2368.	2.2	134
71	Large pore ti-beta zeolite with very low aluminium content: An active and selective catalyst for oxidations using hydrogen peroxide. <i>Industrial Chemistry Library</i> , 1996, 8, 391-404.	0.1	5
72	Skeletal Isomerization of 1-Butene on MCM-22 Zeolite Catalyst. <i>Journal of Catalysis</i> , 1996, 158, 561-569.	3.1	126

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73	Solvent Effects during the Oxidation of Olefins and Alcohols with Hydrogen Peroxide on Ti-Beta Catalyst: The Influence of the Hydrophilicity/Hydrophobicity of the Zeolite. Journal of Catalysis, 1996, 161, 11-19.	3.1	269
74	Acidic Cs ⁺ , NH ₄ ⁺ , and K ⁺ Salts of 12-Tungstophosphoric Acid as Solid Catalysts for Isobutane/2-butene Alkylation. Journal of Catalysis, 1996, 164, 422-432.	3.1	132
75	The Mechanism of the Double Bond Cleavage in the Titanium Zeolite-catalyzed Oxidation of <i>p</i> -Methylstyrene by Hydrogen Peroxide: the <i>p</i> -Hydroperoxy Alcohol as Intermediate. Chemische Berichte, 1996, 129, 1453-1455.	0.2	14
76	The role of extraframework aluminum species in USY catalysts during isobutane/2-butene alkylation. Applied Catalysis A: General, 1996, 134, 169-182.	2.2	59
77	Isobutane/2-butene alkylation on zeolite beta: Influence of post-synthesis treatments. Applied Catalysis A: General, 1996, 142, 139-150.	2.2	95
78	Kinetics of the oxidation of alcohols by hydrogen peroxide on Ti-beta zeolite: The influence of alcohol structure on catalyst reactivity. Applied Catalysis A: General, 1996, 143, 87-100.	2.2	26
79	The effect of sulfation conditions and activation temperature of sulfate-doped ZrO ₂ , TiO ₂ and SnO ₂ catalysts during isobutane/2-butene alkylation. Applied Catalysis A: General, 1996, 144, 249-268.	2.2	70
80	Zeolites and Zeotypes as catalysts. Advanced Materials, 1995, 7, 137-144.	11.1	129
81	A new highly efficient method for the synthesis of Ti-Beta zeolite oxidation catalyst. Applied Catalysis A: General, 1995, 133, L185-L189.	2.2	44
82	Oxidation of Olefins with Hydrogen Peroxide and tert-Butyl Hydroperoxide on Ti-Beta Catalyst. Journal of Catalysis, 1995, 152, 18-24.	3.1	202
83	Hydrocracking of Vacuum Gasoil on the Novel Mesoporous MCM-41 Aluminosilicate Catalyst. Journal of Catalysis, 1995, 153, 25-31.	3.1	373
84	Insight into the pore structure of zeolite MCM-22 through catalytic tests. Studies in Surface Science and Catalysis, 1994, 84, 859-866.	1.5	27
85	Proposed pore volume topology of zeolite MCM-22 based on catalytic tests. Applied Catalysis A: General, 1994, 115, 121-134.	2.2	105
86	Zeolite beta as a catalyst for alkylation of isobutane with 2-butene. Influence of synthesis conditions and process variables. Applied Catalysis A: General, 1994, 119, 83-96.	2.2	84
87	A comparative study of O ₄ Zr/ZrO ₂ and zeolite beta as catalysts for the isomerization of n-butane and the alkylation of isobutane with 2-butene. Applied Catalysis A: General, 1994, 111, 175-189.	2.2	110
88	Activity of Ti-Beta Catalyst for the Selective Oxidation of Alkenes and Alkanes. Journal of Catalysis, 1994, 145, 151-158.	3.1	300
89	Influence of Process Variables on the Continuous Alkylation of Isobutane with 2-Butene on Superacid Sulfated Zirconia Catalysts. Journal of Catalysis, 1994, 149, 52-60.	3.1	108
90	Isobutane/2-butene alkylation on MCM-22 catalyst. Influence of zeolite structure and acidity on activity and selectivity. Catalysis Letters, 1994, 28, 187-201.	1.4	77

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91	Isobutane/2-butene alkylation on ultrastable Y zeolites: Influence of zeolite unit cell size. Journal of Catalysis, 1994, 146, 185-192.	3.1	120
92	Chemistry, Catalysts, and Processes for Isoparaffinâ€“Olefin Alkylation: Actual Situation and Future Trends. Catalysis Reviews - Science and Engineering, 1993, 35, 483-570.	5.7	380
93	Soft and hard acidity in ion-exchanged Y zeolites: rearrangement of 2-bromopropiophenone ethylene acetal to 2-hydroxyethyl 2-phenylpropanoate. Journal of the Chemical Society Chemical Communications, 1992, .	2.0	14
94	Synthesis of a titaniumsilicoaluminate isomorphous to zeolite beta and its application as a catalyst for the selective oxidation of large organic molecules. Journal of the Chemical Society Chemical Communications, 1992, .	2.0	336
95	Effect of operation conditions on the behaviour of ZSM-5 addition to a RE-USY FCC catalyst. Applied Catalysis, 1991, 73, 195-216.	1.1	18
96	Hydrogen transfer on USY zeolites during gas oil cracking: Influence of the adsorption characteristics of the zeolite catalysts. Journal of Catalysis, 1990, 122, 230-239.	3.1	57
97	Synthesis of ZSM-20. Comparison of properties with zeolite Y. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 1001.	1.7	24
98	Catalytic cracking of gasoil. Applied Catalysis, 1989, 55, 65-74.	1.1	101