Francesc Medina Cabello

List of Publications by Year
in descending order

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214 papers	7,639 citations	44069 48 h-index	79698 73 g-index
215 all docs	215 docs citations	215 times ranked	8086 citing authors

#	Article	IF	Citations
1	Significance and Challenges of Biomass as a Suitable Feedstock for Bioenergy and Biochemical Production: A Review. Energies, 2018, 11, 3366.	3.1	260
2	Aldol Condensations Over Reconstructed Mg-Al Hydrotalcites: Structure-Activity Relationships Related to the Rehydration Method. Chemistry - A European Journal, 2005, 11, 728-739.	3.3	215
3	Different morphologies of silver nanoparticles as catalysts for the selective oxidation of styrene in the gas phase. Chemical Communications, 2004, , 846-847.	4.1	171
4	Catalytic reduction of nitrate on Pt-Cu and Pd-Cu on active carbon using continuous reactorThe effect of copper nanoparticles. Applied Catalysis B: Environmental, 2006, 62, 77-85.	20.2	157
5	Ozonation of activated carbons: Effect on the adsorption of selected phenolic compounds from aqueous solutions. Journal of Colloid and Interface Science, 2005, 283, 503-512.	9.4	141
6	Characterization of nickel species on several Î³-alumina supported nickel samples. Journal of Molecular Catalysis A, 1996, 106, 125-134.	4.8	139
7	Preparation and Study of Cuâ^'Al Mixed Oxides via Hydrotalcite-like Precursors. Chemistry of Materials, 1999, 11, 939-948.	6.7	129
8	Propene epoxidation over TiO2-supported Auâ€“Cu alloy catalysts prepared from thiol-capped nanoparticles. Journal of Catalysis, 2008, 258, 187-198.	6.2	124
9	Cu/Ni/Al layered double hydroxides as precursors of catalysts for the wet air oxidation of phenol aqueous solutions. Applied Catalysis B: Environmental, 2001, 30, 195-207.	20.2	114
10	Characterization and activity of copper and nickel catalysts for the oxidation of phenol aqueous solutions. Applied Catalysis B: Environmental, 1998, 18, 307-315.	20.2	108
11	Enhanced use of renewable resources: Transesterification of glycerol catalyzed by hydrotalcite-like compounds. Chemical Engineering Journal, 2010, 161, 340-345.	12.7	107
12	Hydrogenation of Acetonitrile on Nickel-Based Catalysts Prepared from Hydrotalcite-like Precursors. Journal of Catalysis, 1997, 167, 142-152.	6.2	106
13	Supported choline hydroxide (ionic liquid) as heterogeneous catalyst for aldol condensation reactions. Chemical Communications, 2004, , 1096-1097.	4.1	103
14	Conversion of glycerol over 10%Ni/Î³-Al2O3 catalyst. Applied Catalysis B: Environmental, 2014, 147, 464-480.	20.2	94
15	Synthesis and characterization of several Ni/NiAl2O4 catalysts active for the 1,2,4-trichlorobenzene hydrodechlorination. Applied Catalysis B: Environmental, 2000, 25, 213-227.	20.2	90
16	Improving the Stability of CeO₂ Catalyst by Rare Earth Metal Promotion and Molecular Insights in the Dimethyl Carbonate Synthesis from CO₂ and Methanol with 2-Cyanopyridine. ACS Catalysis, 2018, 8, 3181-3193.	11.2	90
17	Phenol degradation by Fenton's process using catalytic in situ generated hydrogen peroxide. Applied Catalysis B: Environmental, 2009, 89, 519-526.	20.2	89
18	Synthesis of glycerol carbonates by transesterification of glycerol in a continuous system using supported hydrotalcites as catalysts. Applied Catalysis B: Environmental, 2012, 113-114, 212-220.	20.2	89

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19	Activation under oxidizing and reducing atmospheres of Ni-containing layered double hydroxides. Applied Catalysis A: General, 1997, 159, 241-258.	4.3	87
20	Study of alkaline-doping agents on the performance of reconstructed Mgâ€“Al hydrotalcites in aldol condensations. Applied Catalysis A: General, 2005, 281, 191-198.	4.3	87
21	Propene epoxidation by nitrous oxide over Auâ€“Cu/TiO2 alloy catalysts. Journal of Molecular Catalysis A, 2007, 274, 159-168.	4.8	87
22	New Short Aliphatic Chain Ionic Liquids:â€‰ Synthesis, Physical Properties, and Catalytic Activity in Aldol Condensations. Journal of Physical Chemistry B, 2007, 111, 12468-12477.	2.6	83
23	Nanoplatelet-based reconstructed hydrotalcites: towards more efficient solid base catalysts in aldol condensations. Chemical Communications, 2005, , 1453-1455.	4.1	82
24	Preparation and Characterization of Several High-Area NiAl2O4Spinels. Study of Their Reducibility. Chemistry of Materials, 2000, 12, 331-335.	6.7	80
25	BrÃ¸nsted ionic liquids: Study of physico-chemical properties and catalytic activity in aldol condensations. Chemical Engineering Journal, 2010, 162, 802-808.	12.7	78
26	Characterisation of copper catalysts and activity for the oxidation of phenol aqueous solutions. Applied Catalysis B: Environmental, 1998, 16, 53-67.	20.2	77
27	Epoxidation of styrene with hydrogen peroxide using hydrotalcites as heterogeneous catalysts. Applied Catalysis A: General, 2004, 272, 175-185.	4.3	77
28	Cobalt hydrotalcites as catalysts for bioethanol steam reforming. The promoting effect of potassium on catalyst activity and long-term stability. Applied Catalysis B: Environmental, 2012, 127, 59-67.	20.2	77
29	Defect-induced strategies for the creation of highly active hydrotalcites in base-catalyzed reactions. Journal of Catalysis, 2007, 252, 249-257.	6.2	76
30	Dark fermentative hydrogen and ethanol production from biodiesel waste glycerol using a co-culture of Escherichia coli and Enterobacter sp.. Fuel, 2016, 186, 375-384.	6.4	76
31	Comparative study of the morphology and surface properties of nickel oxide prepared from different precursors. Solid State Ionics, 2003, 156, 233-243.	2.7	74
32	Preparation and Activity of Cuâ€“Al Mixed Oxides via Hydrotalcite-like Precursors for the Oxidation of Phenol Aqueous Solutions. Journal of Catalysis, 1999, 188, 311-324.	6.2	73
33	Enhanced photocatalytic degradation of methylene blue: Preparation of TiO2/reduced graphene oxide nanocomposites by direct sol-gel and hydrothermal methods. Materials Research Bulletin, 2017, 95, 578-587.	5.2	68
34	Surface structure of bulk nickel catalysts, active in the gas-phase hydrodechlorination reaction of aromatics. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 2811-2816.	1.7	66
35	Tunable basic and textural properties of hydrotalcite derived materials for transesterification of glycerol. Applied Clay Science, 2012, 58, 16-24.	5.2	66
36	Comparative study of nanocrystalline SnO2 materials for gas sensor application: Thermal stability and catalytic activity. Sensors and Actuators B: Chemical, 2009, 137, 637-643.	7.8	62

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37	Microwave effect during aging on the porosity and basic properties of hydrotalcites. Microporous and Mesoporous Materials, 2007, 101, 363-373.	4.4	60
38	Hydrodechlorination of trichloroethylene on noble metal promoted Cu-hydrotalcite-derived catalysts. Journal of Catalysis, 2009, 263, 239-246.	6.2	59
39	Catalytic ozonation of phenolic compoundsThe case of gallic acid. Applied Catalysis B: Environmental, 2006, 67, 177-186.	20.2	55
40	Aldol condensation of campholenic aldehyde and MEK over activated hydrotalcites. Applied Catalysis B: Environmental, 2007, 70, 577-584.	20.2	53
41	Hydrodechlorination of 1,2,4-trichlorobenzene on nickel-based catalysts prepared from several Ni/Mg/Al hydrotalcite-like precursors. Applied Catalysis B: Environmental, 2001, 32, 25-35.	20.2	52
42	Cobalt hydrotalcite for the steam reforming of ethanol with scarce carbon production. RSC Advances, 2012, 2, 2946.	3.6	52
43	Palladium hydrotalcites as precursors for the catalytic hydroconversion of CCl2F2 (CFC-12) and CHClF2 (HCFC-22). Applied Catalysis B: Environmental, 2001, 32, 167-179.	20.2	51
44	Study of Ptâ€“CeO2 interaction and the effect in the selective hydrodechlorination of trichloroethylene. Applied Catalysis B: Environmental, 2009, 87, 84-91.	20.2	51
45	Effect of the alumina phase and its modification on Ni/Al2O3 catalysts for the hydrodechlorination of 1,2,4-trichlorobenzene. Applied Catalysis B: Environmental, 1999, 22, 135-147.	20.2	50
46	The DBU-H2O complex as a new catalyst for aldol condensation reactions. Catalysis Communications, 2008, 9, 2090-2094.	3.3	50
47	Catalytic reduction of nitrates using Pt/CeO2 catalysts in a continuous reactor. Catalysis Today, 2010, 149, 341-347.	4.4	50
48	Sensitivity of styrene oxidation reaction to the catalyst structure of silver nanoparticles. Applied Surface Science, 2005, 252, 793-800.	6.1	49
49	Influence of copper on nickel-based catalysts in the conversion of glycerol. Applied Catalysis B: Environmental, 2015, 166-167, 166-180.	20.2	49
50	Catalysis under microscope: Unraveling the mechanism of catalyst de- and re-activation in the continuous dimethyl carbonate synthesis from CO2 and methanol in the presence of a dehydrating agent. Catalysis Today, 2017, 283, 2-10.	4.4	49
51	Hydrolysis of dilute acid-pretreated cellulose under mild hydrothermal conditions. Carbohydrate Polymers, 2014, 111, 116-124.	10.2	48
52	Copper-supported pillared clay catalysts for the wet hydrogen peroxide catalytic oxidation of model pollutant tyrosol. Applied Catalysis A: General, 2008, 349, 20-28.	4.3	47
53	Microwave-assisted synthesis of saponite. Applied Clay Science, 2010, 48, 26-31.	5.2	47
54	PdCu alloy nanoparticles on alumina as selective catalysts for trichloroethylene hydrodechlorination to ethylene. Applied Catalysis A: General, 2013, 453, 130-141.	4.3	46

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55	On the role of the activation procedure of supported hydrotalcites for base catalyzed reactions: Glycerol to glycerol carbonate and self-condensation of acetone. Applied Catalysis B: Environmental, 2013, 134-135, 231-237.	20.2	46
56	FeOOH and derived phases: Efficient heterogeneous catalysts for clofibric acid degradation by advanced oxidation processes (AOPs). Catalysis Today, 2015, 240, 46-54.	4.4	45
57	Influence of structural properties on the activity of WO 3 catalysts for visible light photocatalytic ozonation. Chemical Engineering Science, 2015, 126, 80-90.	3.8	44
58	Treatment of saline produced water through photocatalysis using rGO-TiO2 nanocomposites. Catalysis Today, 2018, 315, 194-204.	4.4	44
59	Several Factors Affecting Faster Rates of Gibbsite Formation. Chemistry of Materials, 1999, 11, 123-129.	6.7	43
60	Synthesis of silver-gold alloy nanoparticles by a phase-transfer system. Journal of Materials Research, 2006, 21, 105-111.	2.6	43
61	Enhanced Cu activity in catalytic ozonation of clofibric acid by incorporation into ammonium dawsonite. Applied Catalysis B: Environmental, 2011, 107, 9-17.	20.2	43
62	Catalytic ozonation of clofibric acid over copper-based catalysts: In situ ATR-IR studies. Applied Catalysis B: Environmental, 2017, 209, 523-529.	20.2	43
63	Glycerol fermentation to hydrogen by Thermotoga maritima: Proposed pathway and bioenergetic considerations. International Journal of Hydrogen Energy, 2013, 38, 5563-5572.	7.1	42
64	Boosted CO2 reaction with methanol to yield dimethyl carbonate over Mgâ€“Al hydrotalcite-silica lyogels. Chemical Communications, 2013, 49, 5489.	4.1	41
65	Durable ethanol steam reforming in a catalytic membrane reactor at moderate temperature over cobalt hydrotalcite. International Journal of Hydrogen Energy, 2014, 39, 10902-10910.	7.1	41
66	Characterization and activity of hydrotalcite-type catalysts for acetonitrile hydrogenation. Journal of Molecular Catalysis A, 1997, 119, 201-212.	4.8	40
67	Study of preparation conditions of NiOâ€“MgO systems to control the morphology and particle size of the NiO phase. Solid State Ionics, 2000, 134, 229-239.	2.7	40
68	Fast microwave synthesis of hectorite. Applied Clay Science, 2009, 43, 103-107.	5.2	40
69	Integrated processes for produced water polishing: Enhanced flotation/sedimentation combined with advanced oxidation processes. Chemosphere, 2017, 168, 309-317.	8.2	40
70	Preparation and Characterization of Different Phases of Aluminum Trifluoride. Chemistry of Materials, 2000, 12, 1148-1155.	6.7	39
71	Conversion under hydrogen of dichlorodifluoromethane and chlorodifluoromethane over nickel catalysts. Applied Catalysis B: Environmental, 1999, 23, 175-185.	20.2	38
72	Effect of microwaves in the dealumination of mordenite on its surface and acidic properties. Microporous and Mesoporous Materials, 2009, 118, 341-347.	4.4	38

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73	Catalytic reduction of nitrates in water on Pt promoted Cu hydrotalcite-derived catalysts: Effect of the Ptâ€“Cu alloy formation. Applied Catalysis B: Environmental, 2011, 110, 58-70.	20.2	38
74	Pd/TiO2-WO3 photocatalysts for hydrogen generation from water-methanol mixtures. Applied Surface Science, 2018, 455, 570-580.	6.1	37
75	Oxidation of ethanol to acetaldehyde over Na-promoted vanadium oxide catalysts. Applied Catalysis A: General, 2007, 332, 263-272.	4.3	36
76	Pretreatment Effect on Pt/CeO₂ Catalyst in the Selective Hydrodechlorination of Trichloroethylene. Journal of Physical Chemistry C, 2010, 114, 17675-17682.	3.1	36
77	Synthesis of the ZnTiO3/TiO2 Nanocomposite Supported in Ecuadorian Clays for the Adsorption and Photocatalytic Removal of Methylene Blue Dye. Nanomaterials, 2020, 10, 1891.	4.1	36
78	Catalytic wet peroxide oxidation of phenolic solutions over Fe2O3/CeO2 and WO3/CeO2 catalyst systems. Catalysis Communications, 2008, 9, 1533-1538.	3.3	35
79	Characterization of several Î³-alumina-supported nickel catalysts and activity for selective hydrogenation of hexanedinitrile. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 1455-1459.	1.7	34
80	Hydrogen Production by Steam Reforming of Vegetable Oils Using Nickel-Based Catalysts. Industrial & Engineering Chemistry Research, 2001, 40, 4757-4766.	3.7	33
81	Biohydrogen Production from Glycerol using Thermotoga spp.. Energy Procedia, 2012, 29, 300-307.	1.8	33
82	Preparation of 2-phenylethanol by catalytic selective hydrogenation of styrene oxide using palladium catalysts. Journal of Molecular Catalysis A, 2005, 239, 215-221.	4.8	32
83	Improved Fe₂O₃/Al₂O₃ as heterogeneous Fenton catalysts for the oxidation of phenol solutions in a continuous reactor. Journal of Chemical Technology and Biotechnology, 2014, 89, 1121-1128.	3.2	32
84	Highly basic catalysts obtained by intercalation of La-containing anionic complexes in layered double hydroxides. Applied Catalysis A: General, 2010, 382, 272-276.	4.3	31
85	Structure evolution of layered double hydroxides activated by ultrasound induced reconstruction. Applied Clay Science, 2013, 83-84, 1-11.	5.2	31
86	Biohydrogen production by dark fermentation of glycerol using Enterobacter and Citrobacter Sp. Biotechnology Progress, 2013, 29, 31-38.	2.6	31
87	Microwave processes: A viable technology for obtaining xylose from walnut shell to produce lactic acid by Bacillus coagulans. Journal of Cleaner Production, 2019, 231, 1171-1181.	9.3	31
88	Characterization of potassium-doped nickel catalysts and activity for selective hydrogenation of 1,6-hexanedinitrile. Journal of Molecular Catalysis, 1993, 81, 387-395.	1.2	30
89	NiO Reducibilities: Structural and Catalytic Properties of Their Pure and Potassium-Doped Reduced Forms. Journal of Catalysis, 1993, 142, 392-405.	6.2	29
90	Hydrogenolysis of methylcyclopentane over the bimetallic Irâ€“Au/Î³-Al2O3 catalysts. Applied Surface Science, 2007, 253, 5888-5893.	6.1	29

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91	Clofibric acid degradation by catalytic ozonation using hydrotalcite-derived catalysts. Applied Catalysis B: Environmental, 2014, 150-151, 30-36.	20.2	29
92	Size and Aspect Ratio Control of Pd₂Sn Nanorods and Their Water Denitration Properties. Langmuir, 2015, 31, 3952-3957.	3.5	29
93	Surface characterization and catalytic properties of several graphite supported potassium-free and potassium-doped nickel catalysts. Applied Catalysis A: General, 1993, 99, 115-129.	4.3	28
94	Oxidation of activated carbon: application to vinegar decolorization. Journal of Colloid and Interface Science, 2003, 257, 173-178.	9.4	27
95	Direct generation of hydrogen peroxide from formic acid and O2 using heterogeneous Pd/Î³-Al2O3 catalysts. Chemical Communications, 2008, , 3885.	4.1	27
96	Simultaneous in situ generation of hydrogen peroxide and Fenton reaction over Pdâ€“Fe catalysts. Physical Chemistry Chemical Physics, 2010, 12, 14673.	2.8	27
97	Heterogeneous catalytic oxidation of phenol by in situ generated hydrogen peroxide applying novel catalytic membrane reactors. Chemical Engineering Journal, 2015, 262, 344-355.	12.7	27
98	Structural characteristics and catalytic performance of nickel catalysts for selective hydrogenation of 1,6-hexanedinitrile. Journal of Molecular Catalysis, 1993, 81, 363-371.	1.2	26
99	Selective Adsorption of Volatile Organic Compounds in Micropore Aluminum Methylphosphonate-Î±:Â A Combined Molecular Simulationâ^'Experimental Approach. Langmuir, 2007, 23, 7299-7305.	3.5	26
100	Catalytic wet air oxidation of phenol aqueous solutions by 1% Ru/CeO2â€“Al2O3 catalysts prepared by different methods. Catalysis Communications, 2007, 8, 424-428.	3.3	26
101	On the role of ultrasound and mechanical stirring for iodide adsorption by calcined layered double hydroxides. Applied Clay Science, 2014, 91-92, 70-78.	5.2	26
102	Acidity properties of Ni-exchanged mordenites prepared with and without microwaves. Applied Catalysis A: General, 2009, 368, 163-169.	4.3	25
103	Isomerisation of styrene oxide to phenylacetaldehyde by fluorinated mordenites using microwaves. Journal of Catalysis, 2005, 232, 239-245.	6.2	24
104	New synthesis route of hydrocalumite-type materials and their application as basic catalysts for aldol condensation. Applied Clay Science, 2010, 50, 498-502.	5.2	24
105	Surface characterization and hydrogenation properties of several nickel/Î±-alumina catalysts. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 3507-3512.	1.7	23
106	Nickelâ€“Magnesia Catalysts: An Alternative for the Hydrogenation of 1,6-Hexanedinitrile. Journal of Catalysis, 2002, 209, 202-209.	6.2	23
107	Effect of the aluminium fluoride phase for the Cl/F exchange reactions in CCl2F2 (CFC-12) and CHClF2 (HCFC-22). Applied Catalysis B: Environmental, 2003, 40, 259-269.	20.2	23
108	Ptâ€“Ag/activated carbon catalysts for water denitration in a continuous reactor: Incidence of the metal loading, Pt/Ag atomic ratio and Pt metal precursor. Applied Catalysis B: Environmental, 2012, 127, 351-362.	20.2	23

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109	Microporous high-surface area layered CeO2. Microporous and Mesoporous Materials, 2007, 100, 167-172.	4.4	22
110	Preparation and characterization of CeO2â€“TiO2 support for Ru catalysts: Application in CWAO of p-hydroxybenzoic acid. Microporous and Mesoporous Materials, 2009, 117, 431-435.	4.4	22
111	Hydrogen substitutes for the in situ generation of H2O2: An application in the Fenton reaction. Journal of Hazardous Materials, 2011, 192, 340-6.	12.4	22
112	Nickel and Nickelâ€“Magnesia Catalysts Active in the Hydrogenation of 1,4-Butanedinitrile. Journal of Catalysis, 2001, 197, 210-219.	6.2	21
113	Studies on the Characterization of Several Iridiumâ€“ and Rhodiumâ€“clay Catalysts and Their Activity in Imine Hydrogenation. Journal of Catalysis, 2001, 201, 70-79.	6.2	21
114	Design of NiOâ€“MgO materials with different properties. Physical Chemistry Chemical Physics, 2004, 6, 858-864.	2.8	21
115	Hydrogenation of styrene oxide in the presence of supported platinum catalysts to produce 2-phenylethanol. Journal of Molecular Catalysis A, 2007, 261, 98-103.	4.8	21
116	A novel method of copper-exchanged aluminum-pillared clay preparation for olive oil mill wastewater treatment. Journal of Physics and Chemistry of Solids, 2008, 69, 1116-1120.	4.0	21
117	New basic catalysts obtained from layered double hydroxides nanocomposites. Solid State Sciences, 2010, 12, 1013-1017.	3.2	21
118	Rational and Statistical Approaches in Enhancing the Yield of Ethylene Carbonate in Urea Transesterification with Ethylene Glycol over Metal Oxides. ACS Catalysis, 2015, 5, 6284-6295.	11.2	21
119	DFT Study of Methylene Blue Adsorption on ZnTiO3 and TiO2 Surfaces (101). Molecules, 2021, 26, 3780.	3.8	21
120	Structural and catalytic properties of several potassium-doped nickel/Î±-alumina solids. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 3981-3986.	1.7	20
121	A New Route to the Synthesis of Fine-Grain Gibbsite. Chemistry of Materials, 2001, 13, 2595-2600.	6.7	20
122	Evolution of several Ni and Niâ€“MgO catalysts during the hydrogenation reaction of adiponitrile. Applied Catalysis A: General, 2004, 272, 353-362.	4.3	20
123	Catalytic hydrodechlorination of 1,2,4-trichlorobenzene over Pd/Mg(Al)O catalysts. Applied Catalysis B: Environmental, 2009, 87, 70-77.	20.2	20
124	Chlorophenol degradation using a one-pot reductionâ€“oxidation process. Applied Catalysis B: Environmental, 2011, 104, 161-168.	20.2	20
125	In situ generation of hydrogen peroxide in catalytic membrane reactors. Catalysis Today, 2012, 193, 128-136.	4.4	20
126	Combined heterogeneous catalysis and dark fermentation systems for the conversion of cellulose into biohydrogen. Biochemical Engineering Journal, 2015, 101, 209-219.	3.6	20

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127	d-Lactic acid production from cellulose: dilute acid treatment of cellulose assisted by microwave followed by microbial fermentation. Cellulose, 2015, 22, 3089-3098.	4.9	20
128	The catalytic transformation of chlorofluorocarbons in hydrogen on metal-based catalysts supported on inorganic fluorides. Catalysis Today, 2004, 88, 127-137.	4.4	19
129	Gas-phase hydrodechlorination of trichloroethylene over Pd/NiMgAl mixed oxide catalysts. Applied Catalysis B: Environmental, 2012, 117-118, 236-245.	20.2	19
130	Characterization and catalytic properties of several potassium-doped iron-nickel catalysts. Applied Catalysis A: General, 1992, 92, 131-141.	4.3	18
131	Styrene epoxidation over cesium promoted silver nanowires catalysts. Journal of Molecular Catalysis A, 2006, 258, 346-354.	4.8	18
132	1,5,7-Triazabicyclo[4.4.0]dec-5-ene (TBD) an efficient homogeneous catalyst for aldol condensation reactions. Study of the catalyst recovery and reusability using CO2. Tetrahedron Letters, 2011, 52, 385-387.	1.4	18
133	Role of the synthesis route on the properties of hybrid LDH-graphene as basic catalysts. Applied Surface Science, 2017, 396, 821-831.	6.1	18
134	Pore Size Distribution Analysis of Selected Hexagonal Mesoporous Silicas by Grand Canonical Monte Carlo Simulations. Langmuir, 2005, 21, 8733-8742.	3.5	17
135	Formation of Î³-alumina nanorods in presence of alanine. Materials Research Bulletin, 2011, 46, 271-277.	5.2	17
136	Asymmetric epoxidation of chalcone catalyzed by reusable poly-l-leucine immobilized on hydrotalcite. Journal of Catalysis, 2011, 282, 65-73.	6.2	17
137	Phosphoric acid intercalated Mgâ€“Al hydrotalcite-like compounds for catalytic carboxylation reaction of methanol in a continuous system. Applied Catalysis A: General, 2015, 493, 142-148.	4.3	17
138	Synthesis of tungsten carbide on Al-SBA-15 mesoporous materials by carburization. Microporous and Mesoporous Materials, 2016, 219, 19-28.	4.4	17
139	Microwave-assisted condensation of bio-based hydroxymethylfurfural and acetone over recyclable hydrotalcite-related materials. Applied Catalysis B: Environmental, 2021, 282, 119599.	20.2	17
140	Structural characterization of NiO doped with several caesium loadings. Journal of Molecular Catalysis A, 1997, 119, 77-85.	4.8	16
141	Steam Reforming of Sunflower Oil over Ni/Al Catalysts Prepared from Hydrotalcite-Like Materials. Catalysis Letters, 2003, 85, 41-48.	2.6	16
142	Study of the Influence of Several Mordenite Modifications on Its N2and O2Adsorption Properties. Journal of Physical Chemistry B, 2004, 108, 5359-5364.	2.6	16
143	Ethanol Steam Reforming Over Hydrotalcite-Derived Co Catalysts Doped with Pt and Rh. Topics in Catalysis, 2013, 56, 1660-1671.	2.8	16
144	Structuring of ZnTiO3/TiO2 Adsorbents for the Removal of Methylene Blue, Using Zeolite Precursor Clays as Natural Additives. Nanomaterials, 2021, 11, 898.	4.1	16

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145	La-Doped ZnTiO3/TiO2 Nanocomposite Supported on Ecuadorian Diatomaceous Earth as a Highly Efficient Photocatalyst Driven by Solar Light. Molecules, 2021, 26, 6232.	3.8	16
146	High-selective Ni-MgO catalysts for a clean obtention of 2-phenylethanol. Applied Catalysis A: General, 2004, 272, 125-132.	4.3	15
147	Activity and surface characteristics of several alkali-doped iron catalysts for nttrile hydrogenation. Journal of Molecular Catalysis, 1990, 61, 197-205.	1.2	14
148	Synthesis and characterization of several potassium-doped iron-nickel samples active for the 1,6-hexanedinitrile hydrogenation. Solid State Ionics, 1993, 59, 205-210.	2.7	14
149	Use of Ni/Al-MCM-41 Catalysts for the Exhaustive Hydrodechlorination of 1,2,4-Trichlorobenzene. Catalysis Letters, 2002, 79, 83-88.	2.6	14
150	Effective catalysts, prepared from several hydrotalcites aged with and without microwaves, for the clean obtention of 2-phenylethanol. Applied Catalysis A: General, 2007, 331, 19-25.	4.3	14
151	Impact of cellulose treatment with hydrotalcites in hydrothermal catalytic conversion. Chemical Engineering Science, 2018, 179, 83-91.	3.8	14
152	Recent Impacts of Heterogeneous Catalysis in Biorefineries. Industrial & Engineering Chemistry Research, 2021, 60, 18612-18626.	3.7	14
153	Effects of morphology and cesium promotion over silver nanoparticles catalysts in the styrene epoxidation. Journal of Materials Science, 2007, 42, 3307-3314.	3.7	13
154	Performance of alkali modified Pd/Mg(Al)O catalysts for hydrodechlorination of 1,2,4-trichlorobenzene. Applied Catalysis B: Environmental, 2011, 105, 361-372.	20.2	13
155	Effect of impregnation protocol in the metallic sites of Ptâ€“Ag/activated carbon catalysts for water denitration. Applied Surface Science, 2014, 298, 75-89.	6.1	13
156	Total degradation of p-hydroxybenzoic acid by Ru-catalysed wet air oxidation: a model for wastewater treatment. Environmental Chemistry Letters, 2015, 13, 481-486.	16.2	13
157	Microwave-Assisted Aldol Condensation of Furfural and Acetone over Mgâ€“Al Hydrotalcite-Based Catalysts. Crystals, 2020, 10, 833.	2.2	13
158	Activity and XRD phase identification of several nickel catalysts for adiponitrile hydrogenation. Journal of Molecular Catalysis, 1991, 68, L17-L20.	1.2	12
159	Effects of Different Catalysts on the Ozonation of Pyruvic Acid in Water. Ozone: Science and Engineering, 2006, 28, 229-235.	2.5	12
160	Catalytic activity and characterization of Pt/calcined CuZnAl hydrotalcites in nitrate reduction reaction in water. Catalysis Today, 2011, 175, 370-379.	4.4	12
161	Characterization and catalytic properties of several LaNi and SrNi solids. Applied Catalysis A: General, 1997, 152, 249-269.	4.3	11
162	Preparation and characterization of CeO2â€“Al2O3 aerogels supported ruthenium for catalytic wet air oxidation of p-hydroxybenzoic acid. Journal of Sol-Gel Science and Technology, 2011, 59, 1-6.	2.4	11

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163	Search for a reliable methodology for PSD determination based on a combined molecular simulationâ€“regularizationâ€“experimental approach. Applied Surface Science, 2005, 252, 538-547.	6.1	10
164	Synthesis and characterization of poly-l-leucine initialized and immobilized by rehydrated hydrotalcite: understanding stability and the nature of interaction. Physical Chemistry Chemical Physics, 2013, 15, 15645.	2.8	10
165	Uranium removal from a contaminated effluent using a combined microbial and nanoparticle system. New Biotechnology, 2013, 30, 788-792.	4.4	10
166	Alanine-supported protic ionic liquids as efficient catalysts for aldol condensation reactions. Comptes Rendus Chimie, 2014, 17, 18-22.	0.5	10
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