Antonio A Romero Reyes

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5676187/publications.pdf

Version: 2024-02-01

195 papers	7,072 citations	61977 43 h-index	76898 74 g-index
206 all docs	206 docs citations	206 times ranked	8295 citing authors

#	Article	IF	Citations
1	Sustainable Preparation of Supported Metal Nanoparticles and Their Applications in Catalysis. ChemSusChem, 2009, 2, 18-45.	6.8	702
2	Biofuels: a technological perspective. Energy and Environmental Science, 2008, 1, 542.	30.8	521
3	Biodiesel as feasible petrol fuel replacement: a multidisciplinary overview. Energy and Environmental Science, 2010, 3, 1706.	30.8	224
4	Synthesis and Characterization of the Mesoporous Silicate Molecular Sieve MCM-48. Journal of Physical Chemistry B, 1997, 101, 5294-5300.	2.6	173
5	Nanostructured Photocatalysts and Their Applications in the Photocatalytic Transformation of Lignocellulosic Biomass: An Overview. Materials, 2009, 2, 2228-2258.	2.9	168
6	Microwave-assisted depolymerisation of organosolv lignin via mild hydrogen-free hydrogenolysis: Catalyst screening. Applied Catalysis B: Environmental, 2014, 145, 43-55.	20.2	156
7	Design and development of catalysts for Biomass-To-Liquid-Fischerâ€“Tropsch (BTL-FT) processes for biofuels production. Energy and Environmental Science, 2012, 5, 5186-5202.	30.8	139
8	Catalytic transformations of biomass-derived acids into advanced biofuels. Catalysis Today, 2012, 195, 162-168.	4.4	108
9	Nanocatalysis in continuous flow: supported iron oxide nanoparticles for the heterogeneous aerobic oxidation of benzyl alcohol. Green Chemistry, 2013, 15, 1530.	9.0	100
10	Aluminosilicate Mesoporous Molecular Sieve MCM-48. Journal of Physical Chemistry B, 1998, 102, 123-128.	2.6	98
11	An overview on glycerol-free processes for the production of renewable liquid biofuels, applicable in diesel engines. Renewable and Sustainable Energy Reviews, 2015, 42, 1437-1452.	16.4	96
12	Efficient microwave-assisted production of furfural from C5 sugars in aqueous media catalysed by BrÃ¶nsted acidic ionic liquids. Catalysis Science and Technology, 2012, 2, 1828.	4.1	87
13	Non-porous carbonaceous materials derived from coffee waste grounds as highly sustainable anodes for lithium-ion batteries. Journal of Cleaner Production, 2019, 207, 411-417.	9.3	85
14	Microwave facile preparation of highly active and dispersed SBA-12 supported metal nanoparticles. Green Chemistry, 2008, 10, 853.	9.0	81
15	Fe/Al synergy in Fe2O3 nanoparticles supported on porous aluminosilicate materials: excelling activities in oxidation reactions. Chemical Communications, 2010, 46, 7825.	4.1	81
16	Sustainable preparation of a novel glycerol-free biofuel by using pig pancreatic lipase: Partial 1,3-regiospecific alcoholysis of sunflower oil. Process Biochemistry, 2009, 44, 334-342.	3.7	78
17	Conversion of Alcohols (Î±-Methylated Series) on ALPO4 Catalysts. Journal of Catalysis, 1995, 151, 307-314.	6.2	75
18	Synthesis of acidic Al-MCM-48: influence of the Si/Al ratio, degree of the surfactant hydroxyl exchange, and post-treatment in NHF solution. Journal of Catalysis, 2005, 230, 327-338.	6.2	75

#	Article	IF	Citations
19	Efficient Microwave Oxidation of Alcohols Using Lowâ€Loaded Supported Metallic Iron Nanoparticles. ChemSusChem, 2008, 1, 746-750.	6.8	74
20	A Dry Milling Approach for the Synthesis of Highly Active Nanoparticles Supported on Porous Materials. ChemSusChem, 2011, 4, 1561-1565.	6.8	74
21	Development of a new biodiesel that integrates glycerol, by using CaO as heterogeneous catalyst, in the partial methanolysis of sunflower oil. Fuel, 2014, 122, 94-102.	6.4	73
22	Effect of Phosphate Precursor and Organic Additives on the Structural and Catalytic Properties of Amorphous Mesoporous AlPO4Materials. Chemistry of Materials, 2003, 15, 3352-3364.	6.7	72
23	Influence of acidâ€"base properties of catalysts in the gas-phase dehydrationâ€"dehydrogenation of cyclohexanol on amorphous AlPO4 and several inorganic solids. Applied Catalysis A: General, 2003, 243, 93-107.	4.3	71
24	Activity of Gallium and Aluminum SBA-15 materials in the Friedelâ€"Crafts alkylation of toluene with benzyl chloride and benzyl alcohol. Applied Catalysis A: General, 2008, 349, 148-155.	4.3	71
25	Continuous flow nanocatalysis: reaction pathways in the conversion of levulinic acid to valuable chemicals. Green Chemistry, 2013, 15, 2786.	9.0	70
26	Screening of amorphous metalâ€"phosphate catalysts for the oxidative dehydrogenation of ethylbenzene to styrene. Applied Catalysis B: Environmental, 2007, 70, 611-620.	20.2	69
27	Efficient and simple reactive milling preparation of photocatalytically active porous ZnO nanostructures using biomass derived polysaccharides. Green Chemistry, 2014, 16, 2876-2885.	9.0	68
28	Laser-driven heterogeneous catalysis: efficient amide formation catalysed by Au/SiO2 systems. Green Chemistry, 2013, 15, 2043.	9.0	58
29	Benign-by-design preparation of humin-based iron oxide catalytic nanocomposites. Green Chemistry, 2017, 19, 4423-4434.	9.0	57
30	Biodiesel at the Crossroads: A Critical Review. Catalysts, 2019, 9, 1033.	3.5	57
31	Production of a new second generation biodiesel with a low cost lipase derived from Thermomyces lanuginosus: Optimization by response surface methodology. Catalysis Today, 2011, 167, 107-112.	4.4	56
32	Evidences of the in situ generation of highly active Lewis acid species on Zr-SBA-15. Applied Catalysis A: General, 2009, 371, 85-91.	4.3	54
33	Selective ethanolysis of sunflower oil with Lipozyme RM IM, an immobilized Rhizomucor miehei lipase, to obtain a biodiesel-like biofuel, which avoids glycerol production through the monoglyceride formation. New Biotechnology, 2014, 31, 596-601.	4.4	53
34	Fluoride and Sulfate Treatment of AlPO4-Al2O3 Catalysts .I. Structure, Texture, Surface Acidity and Catalytic Performance in Cyclohexene Conversion and Cumene Cracking. Journal of Catalysis, 1994, 145, 107-125.	6.2	51
35	Structural and Textural Characterization of AlPO4â€"B2O3and Al2O3â€"B2O3(5â€"30 wt% B2O3) Systems Obtained by Boric Acid Impregnation. Journal of Catalysis, 1998, 173, 333-344.	6.2	50
36	Chemical transformations of glucose to value added products using Cu-based catalytic systems. Physical Chemistry Chemical Physics, 2013, 15, 12165.	2.8	49

#	Article	IF	Citations
37	Alkylation of toluene with methanol over AlPO4, AlPO4$z.sbnd;Al2O3, AlPO4$z.sbnd;TiO2, and AlPO4$z.sbnd;ZrO2 catalysts. Journal of Catalysis, 1992, 137, 51-68.	6.2	48
38	NH4F effect in post-synthesis treatment of Al-MCM-41 mesoporous materials. Microporous and Mesoporous Materials, 2005, 84, 11-20.	4.4	48
39	Influence of the acidâ€“base properties in Si-MCM-41 and B-MCM-41 mesoporous materials on the activity and selectivity of É›-caprolactam synthesis. Applied Catalysis A: General, 2006, 299, 224-234.	4.3	48
40	Catalytic performance of Al-MCM-41 materials in the N-alkylation of aniline. Journal of Molecular Catalysis A, 2007, 269, 190-196.	4.8	45
41	Insights into the activity, selectivity and stability of heterogeneous catalysts in the continuous flow hydroconversion of furfural. Catalysis Science and Technology, 2016, 6, 4705-4711.	4.1	45
42	Towards industrial furfural conversion: Selectivity and stability of palladium and platinum catalysts under continuous flow regime. Catalysis Today, 2018, 308, 32-37.	4.4	45
43	Carbonaceous residues from biomass gasification as catalysts for biodiesel production. Journal of Natural Gas Chemistry, 2012, 21, 246-250.	1.8	43
44	Aqueous oxidation of alcohols catalysed by recoverable iron oxide nanoparticles supported on aluminosilicates. Green Chemistry, 2013, 15, 1232.	9.0	43
45	Study on dry-media microwave azalactone synthesis on different supported KF catalysts: influence of textural and acidâ€“base properties of supports. Perkin Transactions II RSC, 2002, , 227-234.	1.1	42
46	Insights into the selective hydrogenation of levulinic acid to Î³-valerolactone using supported mono- and bimetallic catalysts. Journal of Molecular Catalysis A, 2016, 417, 145-152.	4.8	42
47	Mechanochemical Synthesis of TiO2 Nanocomposites as Photocatalysts for Benzyl Alcohol Photo-Oxidation. Nanomaterials, 2016, 6, 93.	4.1	41
48	Acidity and catalytic activity of AlPO4â€“B2O3 and Al2O3â€“B2O3 (5â€“30wt% B2O3) systems prepared by impregnation. Applied Catalysis A: General, 1998, 170, 159-168.	4.3	40
49	Continuous-Flow Processes in Heterogeneously Catalyzed Transformations of Biomass Derivatives into Fuels and Chemicals. Challenges, 2012, 3, 114-132.	1.7	40
50	Solventless mechanochemical synthesis of magnetic functionalized catalytically active mesoporous SBA-15 nanocomposites. Journal of Materials Chemistry A, 2014, 2, 387-393.	10.3	40
51	Mechanochemical synthesis of supported cobalt oxide nanoparticles on mesoporous materials as versatile bifunctional catalysts. Microporous and Mesoporous Materials, 2018, 272, 129-136.	4.4	39
52	Structure, Texture, Surface Acidity, and Catalytic Activity of AlPO4â€“ZrO2(5â€“50 wt% ZrO2) Catalysts Prepared by a Solâ€“Gel Procedure. Journal of Catalysis, 1998, 179, 483-494.	6.2	38
53	Benign-by-Design Orange Peel-Templated Nanocatalysts for Continuous Flow Conversion of Levulinic Acid to N-Heterocycles. ACS Sustainable Chemistry and Engineering, 2018, 6, 16637-16644.	6.7	38
54	N-Alkylation of Aniline with Methanol over CrPO4and CrPO4â€“AlPO4(5â€“50 wt% AlPO4) Catalysts. Journal of Catalysis, 1997, 172, 103-109.	6.2	36

#	Article	IF	Citations
55	Properties of a glucose oxidase covalently immobilized on amorphous AlPO4 support. Journal of Molecular Catalysis B: Enzymatic, 2001, 11, 567-577.	1.8	36
56	Covalent immobilization of porcine pancreatic lipase on amorphous AlPO4 and other inorganic supports. Journal of Chemical Technology and Biotechnology, 1998, 72, 249-254.	3.2	35
57	Catalytic applications of mesoporous silica-based materials. Catalysis, 2012, , 253-280.	1.0	35
58	Covalent immobilization of acid phosphatase on amorphous AlPO4 support. Journal of Molecular Catalysis B: Enzymatic, 1999, 6, 473-481.	1.8	34
59	A comprehensive study of reaction parameters in the enzymatic production of novel biofuels integrating glycerol into their composition. Bioresource Technology, 2010, 101, 6657-6662.	9.6	34
60	High alkylation activities of ball-milled synthesized low-load supported iron oxide nanoparticles on mesoporous aluminosilicates. Catalysis Today, 2012, 187, 65-69.	4.4	34
61	N-Alkylation of aniline with methanol over AlPO4Al2O3 catalysts. Applied Catalysis A: General, 1998, 166, 39-45.	4.3	33
62	Continuousâ€Flow Synthesis of Supported Magnetic Iron Oxide Nanoparticles for Efficient Isoeugenol Conversion into Vanillin. ChemSusChem, 2018, 11, 389-396.	6.8	33
63	Highly efficient direct oxygen electro-reduction by partially unfolded laccases immobilized on waste-derived magnetically separable nanoparticles. Nanoscale, 2018, 10, 3961-3968.	5.6	31
64	Development of mesoporous Al,B-MCM-41 materials. Applied Catalysis B: Environmental, 2007, 70, 567-576.	20.2	30
65	Preparation of Highly Active and Dispersed Platinum Nanoparticles on Mesoporous Alâ€MCMâ€48 and Their Activity in the Hydroisomerisation of nâ€Octane. Chemistry - A European Journal, 2008, 14, 5988-5995.	3.3	30
66	New Biofuel Integrating Glycerol into Its Composition Through the Use of Covalent Immobilized Pig Pancreatic Lipase. International Journal of Molecular Sciences, 2012, 13, 10091-10112.	4.1	30
67	Insights into the microwave-assisted preparation of supported iron oxide nanoparticles on silica-type mesoporous materials. Green Chemistry, 2012, 14, 393-402.	9.0	30
68	Technological challenges for the production of biodiesel in arid lands. Journal of Arid Environments, 2014, 102, 127-138.	2.4	29
69	Insights into the Microwave-Assisted Mild Deconstruction of Lignin Feedstocks Using NiO-Containing ZSM-5 Zeolites. ACS Sustainable Chemistry and Engineering, 2016, 4, 4305-4313.	6.7	29
70	AlP04-Al203 catalysts with low-alumina content. Applied Catalysis A: General, 1993, 104, 109-135.	4.3	28
71	One-step microwave-assisted asymmetric cyclisation/hydrogenation of citronellal to menthols using supported nanoparticles on mesoporous materials. Organic and Biomolecular Chemistry, 2010, 8, 2845.	2.8	28
72	Catalytic Properties of ZrO2â€“SiO2: Effects of Sulfation in the Cyclohexene Isomerization Reaction. Journal of Catalysis, 1996, 161, 605-613.	6.2	27

#	Article	IF	Citations
73	Biofuel that Keeps Glycerol as Monoglyceride by 1,3-Selective Ethanolysis with Pig Pancreatic Lipase Covalently Immobilized on AlPO4 Support. Energies, 2013, 6, 3879-3900.	3.1	27
74	Microwave-Assisted Conversion of Levulinic Acid to Î³-Valerolactone Using Low-Loaded Supported Iron Oxide Nanoparticles on Porous Silicates. Applied Sciences (Switzerland), 2015, 5, 532-543.	2.5	27
75	Synthesis, Performance and Emission Quality Assessment of Ecodiesel from Castor Oil in Diesel/Biofuel/Alcohol Triple Blends in a Diesel Engine. Catalysts, 2019, 9, 40.	3.5	27
76	Catechol O-methylation with dimethyl carbonate over different acidâ€“base catalysts. New Journal of Chemistry, 2006, 30, 1228-1234.	2.8	26
77	Microwave-assisted versatile hydrogenation of carbonyl compounds using supported metal nanoparticles. Organic and Biomolecular Chemistry, 2009, 7, 4821.	2.8	26
78	Natural porous agar materials from macroalgae. Carbohydrate Polymers, 2013, 92, 1555-1560.	10.2	26
79	Production of a biodiesel-like biofuel without glycerol generation, by using Novozym 435, an immobilized Candida antarctica lipase. Bioresources and Bioprocessing, 2014, 1, .	4.2	26
80	Biocatalytic Behaviour of Immobilized Rhizopus oryzae Lipase in the 1,3-Selective Ethanolysis of Sunflower Oil to Obtain a Biofuel Similar to Biodiesel. Molecules, 2014, 19, 11419-11439.	3.8	26
81	Solventless mechanochemical preparation of novel magnetic bioconjugates. Chemical Communications, 2017, 53, 7635-7637.	4.1	26
82	Vanadylâ€“aluminum binary phosphate: Al/V ratio influence on their structure and catalytic behavior in the 2-propanol conversion. Catalysis Today, 2003, 78, 269-280.	4.4	25
83	Catalytic conversion of starch into valuable furan derivatives using supported metal nanoparticles on mesoporous aluminosilicate materials. Catalysis Science and Technology, 2014, 4, 428-434.	4.1	25
84	Controllable Design of Polypyrrole-Iron Oxide Nanocoral Architectures for Supercapacitors with Ultrahigh Cycling Stability. ACS Applied Energy Materials, 2019, 2, 2161-2168.	5.1	25
85	Diethyl Ether as an Oxygenated Additive for Fossil Diesel/Vegetable Oil Blends: Evaluation of Performance and Emission Quality of Triple Blends on a Diesel Engine. Energies, 2020, 13, 1542.	3.1	25
86	Modified SBA-1 materials for the Knoevenagel condensation under microwave irradiation. Microporous and Mesoporous Materials, 2009, 118, 87-92.	4.4	24
87	Continuous flow synthesis of menthol via tandem cyclisationâ€“hydrogenation of citronellal catalysed by scrap catalytic converters. Green Chemistry, 2020, 22, 379-387.	9.0	24
88	Biodiesel Is Dead: Long Life to Advanced Biofuelsâ€”A Comprehensive Critical Review. Energies, 2022, 15, 3173.	3.1	24
89	Ga-MCM-41 synthesis and catalytic activity in the liquid-phase isomerisation of Î±-pinene. Microporous and Mesoporous Materials, 2007, 103, 333-340.	4.4	23
90	Novel mesoporous silicoaluminophosphates as highly active and selective materials in the Beckmann rearrangement of cyclohexanone and cyclododecanone oximes. Journal of Catalysis, 2007, 252, 1-10.	6.2	23

#	Article	IF	Citations
91	Microwave oxidation of alkenes and alcohols using highly active and stable mesoporous organotitanium silicates. Journal of Molecular Catalysis A, 2008, 293, 17-24.	4.8	23
92	Efficient hydrogenation of alkenes using a highly active and reusable immobilised Ru complex on AlPO4. Journal of Molecular Catalysis A, 2009, 308, 41-45.	4.8	23
93	Mechanochemical Synthesis of Maghemite/Silica Nanocomposites: Advanced Materials for Aqueous Roomâ€Temperature Catalysis. ChemSusChem, 2014, 7, 1876-1880.	6.8	23
94	Continuous-Flow Hydrogenation of Methyl Levulinate Promoted by Zr-Based Mesoporous Materials. Catalysts, 2019, 9, 142.	3.5	23
95	Anion treatment (Fâ˜ or SO42â˜) of AlPO4-Al2O3 (25 wt.-% Al2O3) catalysts. Applied Catalysis A: General, 1993, 99, 161-173.	4.3	22
96	Title is missing!. Catalysis Letters, 1998, 52, 205-213.	2.6	22
97	Study on the pyrolysis products of two different hardwood lignins in the presence of NiO contained-zeolites. Biomass and Bioenergy, 2017, 103, 29-34.	5.7	22
98	Integrated Mechanochemical/Microwave-Assisted Approach for the Synthesis of Biogenic Silica-Based Catalysts from Rice Husk Waste. ACS Sustainable Chemistry and Engineering, 2018, 6, 11555-11562.	6.7	22
99	Hierarchical Zeolites and their Catalytic Performance in Selective Oxidative Processes. ChemSusChem, 2015, 8, 1328-1333.	6.8	21
100	Continuous flow synthesis of amines from the cascade reactions of nitriles and carbonyl-containing compounds promoted by Pt-modified titania catalysts. Green Chemistry, 2019, 21, 300-306.	9.0	21
101	Heterogeneization of a new Ru(II) homogeneous asymmetric hydrogenation catalyst containing BINAP and the N-tridentate bpea ligand, through covalent attachment on amorphous AlPO4 support. Topics in Catalysis, 2006, 40, 193-205.	2.8	20
102	The role of mesoporosity and Si/Al ratio in the catalytic etherification of glycerol with benzyl alcohol using ZSM-5 zeolites. Journal of Molecular Catalysis A, 2015, 406, 40-45.	4.8	20
103	Mechanistic insights into the hydroconversion of cinnamaldehyde using mechanochemically-synthesized Pd/Al-SBA-15 catalysts. Green Chemistry, 2015, 17, 565-572.	9.0	20
104	Versatile low-loaded mechanochemically synthesized supported iron oxide nanoparticles for continuous flow alkylations. RSC Advances, 2013, 3, 16292.	3.6	19
105	Bioinspired Porous ZnO Nanomaterials from Fungal Polysaccharides: Advanced Materials with Unprecedented Low Toxicityin Vitrofor Human Cells. ACS Sustainable Chemistry and Engineering, 2015, 3, 2716-2725.	6.7	19
106	Towards Greener and More Efficient C-C and C-Heteroatom Couplings: Present and Future. Current Organic Synthesis, 2010, 7, 568-586.	1.3	18
107	Mechanochemical design of hemoglobin-functionalised magnetic nanomaterials for energy storage devices. Journal of Materials Chemistry A, 2017, 5, 16404-16411.	10.3	18
108	Encapsulated Laccases as Effective Electrocatalysts for Oxygen Reduction Reactions. ACS Sustainable Chemistry and Engineering, 2018, 6, 11058-11062.	6.7	18

#	Article	IF	Citations
109	AlPO4â€“Al2O3catalysts with low alumina content. Part IV.â€”Effect of fluoride ion addition on texture, surface acidity and catalytic performance in cyclohexene and cumene conversions. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 2265-2275.	1.7	17
110	A microwave approach to the selective synthesis of Ï‰-laurolactam. Green Chemistry, 2007, 9, 1109.	9.0	17
111	Outlook for Direct Use of Sunflower and Castor Oils as Biofuels in Compression Ignition Diesel Engines, Being Part of Diesel/Ethyl Acetate/Straight Vegetable Oil Triple Blends. Energies, 2020, 13, 4836.	3.1	17
112	Synthesis and characterization of novel mesoporous aluminosilicate MCM-41 containing aluminophosphate building units. Chemical Communications, 2006, , 1839.	4.1	16
113	Maximizing the Accessibility of Active Species in Weakly Acidic Zrâ€SBAâ€15 Materials. ChemCatChem, 2012, 4, 379-386.	3.7	16
114	Selective Oxidation of Isoeugenol to Vanillin over Mechanochemically Synthesized Aluminosilicate Supported Transition Metal Catalysts. ChemistrySelect, 2017, 2, 9546-9551.	1.5	16
115	Reconstruction of humins formation mechanism from decomposition products: A GC-MS study based on catalytic continuous flow depolymerizations. Molecular Catalysis, 2019, 479, 110564.	2.0	16
116	Acetone Prospect as an Additive to Allow the Use of Castor and Sunflower Oils as Drop-In Biofuels in Diesel/Acetone/Vegetable Oil Triple Blends for Application in Diesel Engines. Molecules, 2020, 25, 2935.	3.8	16
117	Selective epoxidation of alkenes using highly active V-SBA-15 materials: microwave vs. conventional heating. Journal of Materials Chemistry, 2009, 19, 8603.	6.7	15
118	Insights into the Active Species of Nanoparticleâ€Functionalized Hierarchical Zeolites in Alkylation Reactions. ChemCatChem, 2014, 6, 3530-3539.	3.7	15
119	Chromium-aluminium orthophosphates, III. Acidity and catalytic performance in cyclohexene and cumene conversions on CrPO4â^AlPO4 (20â€“50 wt.% AlPO4) catalysts obtained in aqueous ammonia. Reaction Kinetics and Catalysis Letters, 1994, 53, 55-63.	0.6	14
120	In Situ NMR Studies of the Conversion of Methanol into Gasoline on Aluminosilicate and Gallosilicate Offretites. Journal of Physical Chemistry B, 1997, 101, 5166-5171.	2.6	14
121	Structure, texture, acidity and catalytic performance of AlPO4-caesium oxide catalysts in 2-methyl-3-butyn-2-ol conversion. Journal of Materials Chemistry, 1999, 9, 827-835.	6.7	14
122	A Biofuel Similar to Biodiesel Obtained by Using a Lipase from Rhizopus oryzae, Optimized by Response Surface Methodology. Energies, 2014, 7, 3383-3399.	3.1	14
123	Towards the photophysical studies of humin by-products. Chemical Communications, 2017, 53, 7015-7017.	4.1	14
124	New bio-nanocomposites based on iron oxides and polysaccharides applied to oxidation and alkylation reactions. Beilstein Journal of Organic Chemistry, 2017, 13, 1982-1993.	2.2	14
125	Application of Enzymatic Extracts from a CALB Standard Strain as Biocatalyst within the Context of Conventional Biodiesel Production Optimization. Molecules, 2017, 22, 2025.	3.8	14
126	Tunable shapes in supported metal nanoparticles: From nanoflowers to nanocubes. Materials Chemistry and Physics, 2009, 117, 408-413.	4.0	13

#	Article	IF	Citations
127	Efficient aromatic Câ€“H bond activation using aluminosilicate-supported metal nanoparticles. Catalysis Communications, 2014, 48, 73-77.	3.3	13
128	Encapsulated Laccases for the Roomâ€Temperature Oxidation of Aromatics: Towards Synthetic Lowâ€Molecularâ€Weight Lignins. ChemSusChem, 2016, 9, 756-762.	6.8	13
129	Performance and Emission Quality Assessment in a Diesel Engine of Straight Castor and Sunflower Vegetable Oils, in Diesel/Gasoline/Oil Triple Blends. Energies, 2019, 12, 2181.	3.1	13
130	Valorization of Humins-Extracted 5-Methoxymethylfurfural: Toward High Added Value Furanics via Continuous Flow Catalytic Hydrogenation. Industrial & Engineering Chemistry Research, 2019, 58, 16065-16070.	3.7	13
131	Activity of amino-functionalised mesoporous solid bases in microwave-assisted condensation reactions. Catalysis Communications, 2013, 33, 1-6.	3.3	12
132	Production of a Biofuel that Keeps the Glycerol as a Monoglyceride by Using Supported KF as Heterogeneous Catalyst. Energies, 2014, 7, 3764-3780.	3.1	12
133	Selectivity matters: Graphene oxide-mediated oxidative coupling of benzylamine to Nâ€benzylidine-1-phenylmethanamine under microwave irradiation. Journal of Molecular Catalysis A, 2015, 406, 19-22.	4.8	12
134	Graphene oxide-catalysed oxidation reaction of unsaturated compounds under microwave irradiation. Catalysis Communications, 2015, 72, 133-137.	3.3	12
135	Mechanochemically synthesized Ag-based nanohybrids with unprecedented low toxicity in biomedical applications. Environmental Research, 2017, 154, 204-211.	7.5	12
136	Kinetic studies of the dehydration of methanol over aluminosilicate and gallosilicate offretites. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 1221-1224.	1.7	11
137	Title is missing!. Catalysis Letters, 1999, 60, 229-235.	2.6	11
138	Wheat bran valorisation: Towards photocatalytic nanomaterials for benzyl alcohol photo-oxidation. Journal of Environmental Management, 2017, 203, 768-773.	7.8	11
139	Post-synthetic Mechanochemical Incorporation of Al-Species into the Framework of Porous Materials: Toward More Sustainable Redox Chemistries. ACS Sustainable Chemistry and Engineering, 2019, 7, 9537-9543.	6.7	11
140	Continuous flow toluene methylation over AlPO4 and AlPO4-Al2O3 catalysts. Catalysis Letters, 1994, 26, 159-167.	2.6	10
141	Evaluation of biomass-derived stabilising agents for colloidal silver nanoparticles via nanoparticle tracking analysis (NTA). RSC Advances, 2013, 3, 7119.	3.6	10
142	Rhizomucor miehei Lipase Supported on Inorganic Solids, as Biocatalyst for the Synthesis of Biofuels: Improving the Experimental Conditions by Response Surface Methodology. Energies, 2019, 12, 831.	3.1	10
143	Biofuels from Diethyl Carbonate and Vegetable Oils for Use in Triple Blends with Diesel Fuel: Effect on Performance and Smoke Emissions of a Diesel Engine. Energies, 2020, 13, 6584.	3.1	10
144	Toluene methylation on AlPO4-Al2O3 catalysts (5â€“15 wt.% Al2O3). Reaction Kinetics and Catalysis Letters, 1996, 57, 61-70.	0.6	9

#	Article	IF	Citations
145	Phenol methylation over CrPO4 and CrPO4â˜AlPO4 catalysts. Reaction Kinetics and Catalysis Letters, 1997, 62, 47-54.	0.6	9
146	Acetonylacetone conversion on AlPO4â€“cesium oxide (5â€“30 wt%) catalysts. Catalysis Letters, 1999, 60, 145-149.	2.6	9
147	Biochemical catalytic production of biodiesel. , 2016, , 165-199.		9
148	Conversion of 2-propanol over chromium orthophosphates. Reaction Kinetics and Catalysis Letters, 1995, 55, 133-141.	0.6	8
149	Conversion of 2-propanol over chromium aluminum orthophosphates. Catalysis Letters, 1995, 35, 143-154.	2.6	8
150	Effect of preparation method on the surface acidity and catalytic performance of iron orthophosphates in cyclohexene conversion. Journal of Materials Chemistry, 1995, 5, 2019.	6.7	8
151	Alkylation of phenol with dimethyl carbonate over AlPO4, Al2O3 and AlPO4-Al2O3 catalysts. Reaction Kinetics and Catalysis Letters, 1998, 63, 261-269.	0.6	8
152	Catalytic properties of sulfated and non-sulfated ZrO2â€“SiO2: effects of the sulfation submitted before or after the calcination process, in the cyclohexene isomerization reaction. Journal of Molecular Catalysis A, 1998, 135, 155-162.	4.8	8
153	Preparation of Mesoporous Organically Modified Titanium Materials and their Activity in the Oxidation of Cyclohexene. Catalysis Letters, 2008, 126, 179-187.	2.6	8
154	Biomaterials supported CdS nanocrystals. Materials Chemistry and Physics, 2010, 124, 52-54.	4.0	8
155	Simple Preparation of Novel Metal-Containing Mesoporous Starches. Materials, 2013, 6, 1891-1902.	2.9	8
156	MAGBONS: Novel Magnetically Separable Carbonaceous Nanohybrids from Porous Polysaccharides. ChemCatChem, 2014, 6, 2847-2853.	3.7	8
157	Microwave-assisted hydroarylation of styrenes catalysed by transition metal oxide nanoparticles supported on mesoporous aluminosilicates. Journal of Molecular Catalysis A, 2015, 407, 32-37.	4.8	8
158	Mechanochemically Synthesized Supported Magnetic Fe-Nanoparticles as Catalysts for Efficient Vanillin Production. Catalysts, 2019, 9, 290.	3.5	8
159	Evaluation of acid properties of mechanochemically synthesized supported niobium oxide catalysts in the alkylation of toluene. Molecular Catalysis, 2020, 493, 111092.	2.0	8
160	Optimization by response surface methodology of the reaction conditions in 1,3-selective transesterification of sunflower oil, by using CaO as heterogeneous catalyst. Molecular Catalysis, 2020, 484, 110804.	2.0	8
161	Fluoride treatment of AlPO4-Al2O3 catalysts. II. Poisoning experiments by bases for cyclohexene conversion and cumene cracking. Catalysis Letters, 1994, 24, 293-301.	2.6	7
162	Chromium-aluminium orthophosphates, II. Effect of AlPO4 loading on structure and texture of		

#	Article	IF	Citations
163	Isomerization of 3,3-dimethyl-1-butene over aluminum and chromium orthophosphates. Reaction Kinetics and Catalysis Letters, 1998, 64, 41-48.	0.6	7
164	Evaluation of Dimethyl Carbonate as Alternative Biofuel. Performance and Smoke Emissions of a Diesel Engine Fueled with Diesel/Dimethyl Carbonate/Straight Vegetable Oil Triple Blends. Sustainability, 2021, 13, 1749.	3.2	7
165	Characterization of acidity in AlPO4î—¸Al2O3 (5â€“15 wt% Al2O3) catalysts using pyridine temperature programmed desorption. Thermochimica Acta, 1995, 265, 103-110.	2.7	6
166	Gasâ€phase pinacol conversion on AlPO4, Î³â€Al2O3 and SiO2 catalysts. Catalysis Letters, 1998, 54, 91-93.	2.6	6
167	Continuous Flow Preparation of Iron Oxide Nanoparticles Supported on Porous Silicates. ChemCatChem, 2015, 7, 276-282.	3.7	6
168	Fe-Containing MOFs as Seeds for the Preparation of Highly Active Fe/Al-SBA-15 Catalysts in the NAlkylation of Aniline. Molecules, 2019, 24, 2695.	3.8	6
169	Mechanochemical Preparation of Novel Polysaccharide-Supported Nb2O5 Catalysts. Catalysts, 2019, 9, 38.	3.5	6
170	Continuous-Flow Hydroisomerization of C5â€“C7 Alkanes Using Mechanochemically Synthesized Supported Pt and Pdâ€“SBA-15 Materials. Journal of Flow Chemistry, 2015, 5, 11-16.	1.9	5
171	Evaluation of Lipases from Wild Microbial Strains as Biocatalysts in Biodiesel Production. Separations, 2018, 5, 53.	2.4	5
172	Biomass valorization: Catalytic approaches using benign-by-design nanomaterials. Advances in Inorganic Chemistry, 2021, 77, 27-58.	1.0	5
173	Catalytic wet hydrogen peroxide oxidation of isoeugenol to vanillin using microwave-assisted synthesized metal loaded catalysts. Molecular Catalysis, 2021, 506, 111537.	2.0	5
174	Enzymatic Production of Ecodiesel by Using a Commercial Lipase CALB, Immobilized by Physical Adsorption on Mesoporous Organosilica Materials. Catalysts, 2021, 11, 1350.	3.5	5
175	Characterization of acidity in AlPO4-Al2O3 (5â€“15 wt% Al2O3) catalysts using pyridine temperature-programmed desorption. Thermochimica Acta, 1995, 261, 175-182.	2.7	4
176	Conversion of anisole in the presence of methanol over AlPO4â^'Al2O3 catalysts modified with fluoride and sulfate anions. Reaction Kinetics and Catalysis Letters, 1995, 54, 99-106.	0.6	4
177	AlPO4â^'Al2O3 catalysts with low alumina content, VII. Anisole conversion in the presence of methanol. Reaction Kinetics and Catalysis Letters, 1995, 56, 349-362.	0.6	4
178	Biofuels for Transport: Prospects and Challenges. , 2010, , 171-210.		4
179	A1PO4-Al2O3 catalysts with low alumina content. III. Surface basicity of catalysts obtained in aqueous ammonia. Catalysis Letters, 1993, 19, 137-142.	2.6	3
180	Catalytic performance of Fe-modified AlPO4 catalyst in cyclohexene skeletal isomerization. Reaction Kinetics and Catalysis Letters, 1994, 53, 13-23.	0.6	3

#	Article	IF	Citations
181	Gas-phase Beckmann rearrangement of cyclododecanone oxime on Al,B-MCM-41 mesoporous materials. Journal of Materials Science, 2009, 44, 6741-6746.	3.7	3
182	Microwave-assisted oxidation of benzyl alcohols using supported cobalt based nanomaterials under mild reaction conditions. Green Processing and Synthesis, 2014, 3, 133-139.	3.4	3
183	Continuous flow study of isoeugenol to vanillin: A bio-based iron oxide catalyst. Catalysis Today, 2021, 368, 281-290.	4.4	3
184	Glycerol Valorization towards a Benzoxazine Derivative through a Milling and Microwave Sequential Strategy. Molecules, 2022, 27, 632.	3.8	3
185	2-Methyl-3-butyn-2-ol conversion on AlPO4-cesium oxide (20 wt.%) catalysts obtained by impregnation with cesium chloride. Reaction Kinetics and Catalysis Letters, 1998, 65, 239-244.	0.6	2
186	Structure and texture of AlPO4-cesium oxide (20 wt.%) catalysts obtained by impregnation with cesium chloride. Reaction Kinetics and Catalysis Letters, 1998, 65, 245-251.	0.6	2
187	Al-, Ga- and AlGa-materials as catalysts for the N-methylation of aniline. Studies in Surface Science and Catalysis, 2008, 174, 1331-1334.	1.5	2
188	Enzymatic production of biodiesel that avoids glycerol as byproduct, by using immobilized Rhizopus Oryzae lipase. New Biotechnology, 2014, 31, S94.	4.4	2
189	Anion treatment (Fâ˜ or SO 4 2â˜) of AlPO4â˜Al2O3 (25 wt.% Al2O3) catalysts. III. Anion effect on surface basic properties. Reaction Kinetics and Catalysis Letters, 1993, 49, 183-188.	0.6	1
190	Gas-phase phenyl acetate conversion on AlPO4, Î³-Al2O3 and SiO2 catalysts. Reaction Kinetics and Catalysis Letters, 1998, 65, 107-112.	0.6	1
191	Covalent immobilization of glucose oxidase on AlPO4 as inorganic support. Progress in Biotechnology, 1998, , 505-512.	0.2	1
192	Structural and Catalytic Properties of Amorphous Mesoporous AlPO4 Materials Prepared in the Presence of 2,4-Pentanedione and 2,5-Hexanedione as Aluminium Chelating Agents. Studies in Surface Science and Catalysis, 2006, 162, 315-322.	1.5	1
193	Hydrogenation of Î±,Î²-Unsaturated Carbonyl Compounds over Covalently Heterogenized Ru(II) Diphosphine Complexes on AlPO4-Sepiolite Supports. Catalysts, 2021, 11, 289.	3.5	1
194	Production of glycerol-free and alternative biodiesels. , 2011, , 160-176.		0
195	Covalent immobilization of porcine pancreatic lipase on amorphous AlPO4 and other inorganic supports. Journal of Chemical Technology and Biotechnology, 1998, 72, 249-254.	3.2	0