Adam F Lee

List of Publications by Year
in descending order

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283 papers	19,067 citations	10986 71 h-index	15266 126 g-index
325 all docs	325 docs citations	325 times ranked	20756 citing authors

#	Article	IF	Citations
1	Hierarchical porous materials: catalytic applications. Chemical Society Reviews, 2013, 42, 3876-3893.	38.1	828
2	Heterogeneous catalysis for sustainable biodiesel productionviaesterification and transesterification. Chemical Society Reviews, 2014, 43, 7887-7916.	38.1	614
3	Ag Alloyed Pd Single-Atom Catalysts for Efficient Selective Hydrogenation of Acetylene to Ethylene in Excess Ethylene. ACS Catalysis, 2015, 5, 3717-3725.	11.2	545
4	Structure-reactivity correlations in MgAl hydrotalcite catalysts for biodiesel synthesis. Applied Catalysis A: General, 2005, 287, 183-190.	4.3	512
5	Non defect-stabilized thermally stable single-atom catalyst. Nature Communications, 2019, 10, 234.	12.8	452
6	Atomically dispersed nickel as coke-resistant active sites for methane dry reforming. Nature Communications, 2019, 10, 5181.	12.8	398
7	Classical strong metalâ€“support interactions between gold nanoparticles and titanium dioxide. Science Advances, 2017, 3, e1700231.	10.3	361
8	Highâ€Activity, Singleâ€Site Mesoporous Pd/Al₂O₃ Catalysts for Selective Aerobic Oxidation of Allylic Alcohols. Angewandte Chemie - International Edition, 2007, 46, 8593-8596.	13.8	336
9	Investigation of Ni-based alumina-supported catalysts for the oxidative dehydrogenation of ethane to ethylene: structural characterization and reactivity studies. Journal of Catalysis, 2005, 231, 159-171.	6.2	300
10	Cobalt promoted TiO2/GO for the photocatalytic degradation of oxytetracycline and Congo Red. Applied Catalysis B: Environmental, 2017, 201, 159-168.	20.2	298
11	Highly selective hydrogenation of furfural over supported Pt nanoparticles under mild conditions. Applied Catalysis B: Environmental, 2016, 180, 580-585.	20.2	288
12	Artificial photosynthesis as a frontier technology for energy sustainability. Energy and Environmental Science, 2013, 6, 1074.	30.8	284
13	Structureâ€“activity relations in Cs-doped heteropolyacid catalysts for biodiesel production. Journal of Catalysis, 2007, 248, 226-234.	6.2	259
14	Heterogeneously Catalyzed Hydrothermal Processing of C₅â€“C₆ Sugars. Chemical Reviews, 2016, 116, 12328-12368.	47.7	253
15	Evaluation of the activity and stability of alkali-doped metal oxide catalysts for application to an intensified method of biodiesel production. Chemical Engineering Journal, 2008, 135, 63-70.	12.7	231
16	Surface Modification of Natural Fibers Using Bacteria: Depositing Bacterial Cellulose onto Natural Fibers To Create Hierarchical Fiber Reinforced Nanocomposites. Biomacromolecules, 2008, 9, 1643-1651.	5.4	226
17	A magnetically separable SO4/Fe-Al-TiO2 solid acid catalyst for biodiesel production from waste cooking oil. Applied Catalysis B: Environmental, 2018, 234, 268-278.	20.2	222
18	Structural and Catalytic Properties of Novel Au/Pd Bimetallic Colloid Particles: EXAFS, XRD, and Acetylene Coupling. The Journal of Physical Chemistry, 1995, 99, 6096-6102.	2.9	220

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19	Liâ€“CaO catalysed tri-glyceride transesterification for biodiesel applications. Green Chemistry, 2004, 6, 335-340.	9.0	217
20	Evidence for the Surfaceâ€Catalyzed Suzukiâ€“Miyaura Reaction over Palladium Nanoparticles: An Operando XAS Study. Angewandte Chemie - International Edition, 2010, 49, 1820-1824.	13.8	211
21	P25@CoAl layered double hydroxide heterojunction nanocomposites for CO 2 photocatalytic reduction. Applied Catalysis B: Environmental, 2017, 209, 394-404.	20.2	200
22	Strong metal-support interaction promoted scalable production of thermally stable single-atom catalysts. Nature Communications, 2020, 11, 1263.	12.8	198
23	Structure and reactivity of solâ€“gel sulphonic acid silicas. Applied Catalysis A: General, 2002, 228, 127-133.	4.3	188
24	g-C3N4-Based Nanomaterials for Visible Light-Driven Photocatalysis. Catalysts, 2018, 8, 74.	3.5	188
25	Catalysts in Production of Biodiesel: A Review. Journal of Biobased Materials and Bioenergy, 2007, 1, 19-30.	0.3	188
26	Tunable KIT-6 Mesoporous Sulfonic Acid Catalysts for Fatty Acid Esterification. ACS Catalysis, 2012, 2, 1607-1614.	11.2	183
27	Hierarchical macroporousâ€“mesoporous SBA-15 sulfonic acidcatalysts for biodiesel synthesis. Green Chemistry, 2010, 12, 296-303.	9.0	179
28	Recent advances in the heterogeneously catalysed aerobic selective oxidation of alcohols. Journal of Chemical Technology and Biotechnology, 2011, 86, 161-171.	3.2	160
29	Catalytic applications of waste derived materials. Journal of Materials Chemistry A, 2016, 4, 3617-3637.	10.3	159
30	Support-Enhanced Selective Aerobic Alcohol Oxidation over Pd/Mesoporous Silicas. ACS Catalysis, 2011, 1, 636-640.	11.2	153
31	Bifunctional SO₄/ZrO₂catalysts for 5-hydroxymethylfufural (5-HMF) production from glucose. Catalysis Science and Technology, 2014, 4, 333-342.	4.1	153
32	Synthetic strategies to nanostructured photocatalysts for CO₂reduction to solar fuels and chemicals. Journal of Materials Chemistry A, 2015, 3, 14487-14516.	10.3	152
33	Î·2-dba Complexes of Pd(0):â€‰ The Substituent Effect in Suzukiâ^'Miyaura Coupling. Organic Letters, 2004, 6, 4435-4438.	4.6	151
34	Recent developments in heterogeneous catalysis for the sustainable production of biodiesel. Catalysis Today, 2015, 242, 3-18.	4.4	148
35	A Fast XPS study of the surface chemistry of ethanol over Pt{111}. Surface Science, 2004, 548, 200-208.	1.9	141
36	Hydrothermally Stable, Conformal, Sulfated Zirconia Monolayer Catalysts for Glucose Conversion to 5-HMF. ACS Catalysis, 2015, 5, 4345-4352.	11.2	137

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37	Facile synthesis of hierarchical Cu2O nanocubes as visible light photocatalysts. Applied Catalysis B: Environmental, 2016, 189, 226-232.	20.2	132
38	Solid base catalysed 5-HMF oxidation to 2,5-FDCA over Au/hydrotalcites: fact or fiction?. Chemical Science, 2015, 6, 4940-4945.	7.4	125
39	An Efficient Route to Highly Organized, Tunable Macroporousâ^'Mesoporous Alumina. Journal of the American Chemical Society, 2009, 131, 12896-12897.	13.7	121
40	Cu and Fe oxides dispersed on SBA-15: A Fenton type bimetallic catalyst for N,N -diethyl- p -phenyl diamine degradation. Applied Catalysis B: Environmental, 2016, 199, 323-330.	20.2	119
41	Oxidative dehydrogenation of ethane: catalytic and mechanistic aspects and future trends. Chemical Society Reviews, 2021, 50, 4564-4605.	38.1	119
42	The Origin of SO2 Promotion of Propane Oxidation over Pt/Al2O3 Catalysts. Journal of Catalysis, 1999, 184, 491-498.	6.2	113
43	Rational design of heterogeneous catalysts for biodiesel synthesis. Catalysis Science and Technology, 2012, 2, 884.	4.1	112
44	Structural studies of high dispersion H3PW12O40/SiO2 solid acid catalysts. Physical Chemistry Chemical Physics, 2006, 8, 2893.	2.8	109
45	Interdependent lateral interactions, hydrophobicity and acid strength and their influence on the catalytic activity of nanoporous sulfonic acid silicas. Green Chemistry, 2010, 12, 1383.	9.0	109
46	Surface catalysed Suzukiâ€“Miyaura cross-coupling by Pd nanoparticles: an operando XAS study. Dalton Transactions, 2010, 39, 10473.	3.3	108
47	Zirconium phosphate supported tungsten oxide solid acid catalysts for the esterification of palmitic acid. Green Chemistry, 2006, 8, 790.	9.0	107
48	Cs-doped H4SiW12O40 catalysts for biodiesel applications. Applied Catalysis A: General, 2009, 360, 50-58.	4.3	106
49	Mechanothermal synthesis of Ag/TiO2 for photocatalytic methyl orange degradation and hydrogen production. Chemical Engineering Research and Design, 2018, 120, 339-347.	5.6	106
50	On the impact of Cu dispersion on CO2 photoreduction over Cu/TiO2. Catalysis Communications, 2012, 25, 78-82.	3.3	105
51	Phenol methylation over nanoparticulate CoFe2O4 inverse spinel catalysts: The effect of morphology on catalytic performance. Applied Catalysis A: General, 2009, 366, 184-192.	4.3	104
52	Effect of Cu and Sn promotion on the catalytic deoxygenation of model and algal lipids to fuel-like hydrocarbons over supported Ni catalysts. Applied Catalysis B: Environmental, 2016, 191, 147-156.	20.2	102
53	The application of calcined natural dolomitic rock as a solid base catalyst in triglyceride transesterification for biodiesel synthesis. Green Chemistry, 2008, 10, 654.	9.0	101
54	Selectivity control in Pt-catalyzed cinnamaldehyde hydrogenation. Scientific Reports, 2015, 5, 9425.	3.3	101

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55	Spatially orthogonal chemical functionalization ofÂa hierarchical pore network for catalytic cascadeÂreactions. Nature Materials, 2016, 15, 178-182.	27.5	101
56	Hydroxyapatite supported antibacterial Ag3PO4 nanoparticles. Journal of Materials Chemistry, 2010, 20, 8056.	6.7	99
57	Pore-expanded SBA-15 sulfonic acid silicas for biodiesel synthesis. Chemical Communications, 2012, 48, 212-214.	4.1	99
58	Platinum-Catalyzed Aqueous-Phase Hydrogenation of <scp>d</scp>-Glucose to <scp>d</scp>-Sorbitol. ACS Catalysis, 2016, 6, 7409-7417.	11.2	94
59	Structureâ€“reactivity correlations in sulphated-zirconia catalysts for the isomerisation of Î±-pinene. Journal of Catalysis, 2003, 215, 57-65.	6.2	93
60	Anisotropic Surface Energetics and Wettability of Macroscopic Form I Paracetamol Crystals. Langmuir, 2006, 22, 2760-2769.	3.5	93
61	A core-shell SO4/Mg-Al-Fe3O4 catalyst for biodiesel production. Applied Catalysis B: Environmental, 2019, 259, 118093.	20.2	93
62	Recent advances in the production of Î³â€valerolactone from biomassâ€derived feedstocks via heterogeneous catalytic transfer hydrogenation. Journal of Chemical Technology and Biotechnology, 2017, 92, 1125-1135.	3.2	92
63	Reaction-Driven Surface Restructuring and Selectivity Control in Allylic Alcohol Catalytic Aerobic Oxidation over Pd. Journal of the American Chemical Society, 2011, 133, 5724-5727.	13.7	91
64	Exploiting Noninnocent (E,E)-Dibenzylideneacetone (dba) Effects in Palladium(0)-Mediated Cross-Coupling Reactions: Modulation of the Electronic Properties of dba Affects Catalyst Activity and Stability in Ligand and Ligand-Free Reaction Systems. Chemistry - A European Journal, 2006, 12, 8750-8761.	3.3	89
65	Conformal sulfated zirconia monolayer catalysts for the one-pot synthesis of ethyl levulinate from glucose. Chemical Communications, 2014, 50, 11742-11745.	4.1	88
66	Mono- and binuclear cyclometallated palladium(ii) complexes containing bridging (N,O-) and terminal (N-) imidate ligands: Air stable, thermally robust and recyclable catalysts for cross-coupling processes. Dalton Transactions, 2004, , 3970-3981.	3.3	85
67	Structure-sensitive biodiesel synthesis over MgO nanocrystals. Green Chemistry, 2009, 11, 265-268.	9.0	83
68	Catalytic upgrading of bioâ€oils by esterification. Journal of Chemical Technology and Biotechnology, 2015, 90, 780-795.	3.2	81
69	On the active site in heterogeneous palladium selox catalysts. Green Chemistry, 2006, 8, 549.	9.0	80
70	Structureâ€“reactivity correlations in the selective aerobic oxidation of cinnamyl alcohol: in situ XAFS. Green Chemistry, 2004, 6, 37-42.	9.0	75
71	Physicochemical properties of WO x /ZrO 2 catalysts for palmitic acid esterification. Applied Catalysis B: Environmental, 2015, 162, 75-84.	20.2	75
72	Single atom Cu(I) promoted mesoporous titanias for photocatalytic Methyl Orange depollution and H2 production. Applied Catalysis B: Environmental, 2018, 232, 501-511.	20.2	75

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73	A spatially orthogonal hierarchically porous acidâ€“base catalyst for cascade and antagonistic reactions. Nature Catalysis, 2020, 3, 921-931.	34.4	75
74	SO2 sequestration in large volcanic eruptions: High-temperature scavenging by tephra. Geochimica Et Cosmochimica Acta, 2013, 110, 58-69.	3.9	73
75	Support enhanced Î±-pinene isomerization over HPW/SBA-15. Applied Catalysis B: Environmental, 2017, 200, 10-18.	20.2	72
76	Full-Spectrum White Light-Emitting Diodes Enabled by an Efficient Broadband Green-Emitting CaY₂ZrScAl₃O₁₂:Ce³⁺ Garnet Phosphor. ACS Applied Materials & Interfaces, 2022, 14, 5643-5652.	8.0	72
77	Better by design: nanoengineered macroporous hydrotalcites for enhanced catalytic biodiesel production. Energy and Environmental Science, 2012, 5, 6145.	30.8	70
78	On the active site in H3PW12O40/SiO2 catalysts for fine chemical synthesis. Catalysis Letters, 2005, 102, 45-50.	2.6	69
79	Fluorination of carbon fibres in atmospheric plasma. Carbon, 2007, 45, 775-784.	10.3	69
80	ZrO₂-SBA-15 catalysts for the one-pot cascade synthesis of GVL from furfural. Catalysis Science and Technology, 2018, 8, 4485-4493.	4.1	69
81	Alumina-grafted SBA-15 as a high performance support for Pd-catalysed cinnamyl alcohol selective oxidation. Catalysis Today, 2014, 229, 46-55.	4.4	68
82	Catalytic Hydrogenation and Hydrodeoxygenation of Furfural over Pt(111): A Model System for the Rational Design and Operation of Practical Biomass Conversion Catalysts. Journal of Physical Chemistry C, 2017, 121, 8490-8497.	3.1	66
83	Photodeposition as a facile route to tunable Pt photocatalysts for hydrogen production: on the role of methanol. Catalysis Science and Technology, 2016, 6, 81-88.	4.1	65
84	CO adsorption over Pd nanoparticles: A general framework for IR simulations on nanoparticles. Surface Science, 2016, 646, 210-220.	1.9	65
85	On the Coverage-Dependent Adsorption Geometry of Benzene Adsorbed on Pd{111}: A Study by Fast XPS and NEXAFS. Journal of Physical Chemistry B, 2000, 104, 11729-11733.	2.6	63
86	UV-stable paper coated with APTES-modified P25 TiO2 nanoparticles. Carbohydrate Polymers, 2014, 114, 246-252.	10.2	63
87	Fenton-like degradation of Bisphenol A catalyzed by mesoporous Cu/TUD-1. Applied Surface Science, 2017, 393, 67-73.	6.1	63
88	Catalytic hydrodeoxygenation of m-cresol over Ni 2 P/hierarchical ZSM-5. Catalysis Today, 2018, 304, 72-79.	4.4	63
89	Gold-catalyzed conversion of lignin to low molecular weight aromatics. Chemical Science, 2018, 9, 8127-8133.	7.4	61
90	Porous crystalline frameworks for thermocatalytic CO₂ reduction: an emerging paradigm. Energy and Environmental Science, 2021, 14, 320-352.	30.8	61

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91	Surfactant- and template-free hydrothermal assembly of Cu2O visible light photocatalysts for trimethoprim degradation. Applied Catalysis B: Environmental, 2021, 284, 119741.	20.2	60
92	Hierarchically Ordered Nanoporous Pd/SBA-15 Catalyst for the Aerobic Selective Oxidation of Sterically Challenging Allylic Alcohols. ACS Catalysis, 2013, 3, 2122-2129.	11.2	59
93	Hydrogenolysis of Lignin-Derived Aromatic Ethers over Heterogeneous Catalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 3379-3407.	6.7	59
94	Anisotropic Surface Chemistry of Aspirin Crystals. Journal of Pharmaceutical Sciences, 2007, 96, 2134-2144.	3.3	58
95	Hydroxyl radical generation by cactus-like copper oxide nanoporous carbon catalysts for microcystin-LR environmental remediation. Catalysis Science and Technology, 2016, 6, 530-544.	4.1	58
96	Size-controlled TiO2 nanoparticles on porous hosts for enhanced photocatalytic hydrogen production. Applied Catalysis A: General, 2016, 521, 133-139.	4.3	57
97	Unravelling mass transport in hierarchically porous catalysts. Journal of Materials Chemistry A, 2019, 7, 11814-11825.	10.3	57
98	Mesoporous Silicas as Versatile Supports to Tune the Palladiumâ€Catalyzed Selective Aerobic Oxidation of Allylic Alcohols. ChemCatChem, 2013, 5, 939-950.	3.7	55
99	Title is missing!. Catalysis Letters, 2003, 88, 47-53.	2.6	53
100	Kinetic Modeling Studies of Heterogeneously Catalyzed Biodiesel Synthesis Reactions. Industrial & Engineering Chemistry Research, 2011, 50, 4818-4830.	3.7	53
101	Structural and electronic properties of Sn overlayers and surface alloys on Pd(111). Surface Science, 1997, 373, 195-209.	1.9	52
102	Inverse Gas Chromatography of As-Received and Modified Carbon Nanotubes. Langmuir, 2009, 25, 8340-8348.	3.5	52
103	Influence of alkyl chain length on sulfated zirconia catalysed batch and continuous esterification of carboxylic acids by light alcohols. Green Chemistry, 2016, 18, 5529-5535.	9.0	52
104	Hierarchical mesoporous Pd/ZSM-5 for the selective catalytic hydrodeoxygenation of m-cresol to methylcyclohexane. Catalysis Science and Technology, 2016, 6, 2560-2564.	4.1	51
105	Tailored mesoporous silica supports for Ni catalysed hydrogen production from ethanol steam reforming. Catalysis Communications, 2017, 91, 76-79.	3.3	51
106	Aspects of allylic alcohol oxidationâ€"a bimetallic heterogeneous selective oxidation catalyst. Green Chemistry, 2000, 2, 279-282.	9.0	50
107	Continuous atmospheric plasma fluorination of carbon fibres. Composites Part A: Applied Science and Manufacturing, 2008, 39, 364-373.	7.6	50
108	Mesoporous sulfonic acid silicas for pyrolysis bio-oil upgrading via acetic acid esterification. Green Chemistry, 2016, 18, 1387-1394.	9.0	50

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109	On the influence of Si:Al ratio and hierarchical porosity of FAU zeolites in solid acid catalysed esterification pretreatment of bio-oil. Biomass Conversion and Biorefinery, 2017, 7, 331-342.	4.6	50
110	Bio/hydrochar Sorbents for Environmental Remediation. Energy and Environmental Materials, 2020, 3, 453-468.	12.8	50
111	In situ studies of structureâ€“reactivity relations in biodiesel synthesis over nanocrystalline MgO. Chemical Engineering Journal, 2010, 161, 332-339.	12.7	49
112	Structureâ€Reactivity Relations in Ruthenium Catalysed Furfural Hydrogenation. ChemCatChem, 2019, 11, 3927-3932.	3.7	49
113	Selective Oxidation of Crotyl Alcohol over Pd(111). Journal of Physical Chemistry C, 2007, 111, 18844-18847.	3.1	48
114	Acetic Acid Ketonization over Fe₃O₄/SiO₂ for Pyrolysis Bioâ€Oil Upgrading. ChemCatChem, 2017, 9, 1648-1654.	3.7	47
115	High activity, templated mesoporous SO4/ZrO2/HMS catalysts with controlled acid site density for Î±-pinene isomerisation. Microporous and Mesoporous Materials, 2005, 80, 301-310.	4.4	46
116	In-situ XPS Study on the Reducibility of Pd-Promoted Cu/CeO2 Catalysts for the Oxygen-assisted Water-gas-shift Reaction. Topics in Catalysis, 2008, 49, 89-96.	2.8	46
117	Template free mild hydrothermal synthesis of coreâ€“shell Cu₂O(Cu)@CuO visible light photocatalysts for N-acetyl-para-aminophenol degradation. Journal of Materials Chemistry A, 2019, 7, 20767-20777.	10.3	46
118	Sizeâ€Dependent Visible Light Photocatalytic Performance of Cu₂O Nanocubes. ChemCatChem, 2018, 10, 3554-3563.	3.7	44
119	High-Pressure XPS of Crotyl Alcohol Selective Oxidation over Metallic and Oxidized Pd(111). ACS Catalysis, 2012, 2, 2235-2241.	11.2	43
120	Hydrothermal saline promoted grafting: a route to sulfonic acid SBA-15 silica with ultra-high acid site loading for biodiesel synthesis. Green Chemistry, 2014, 16, 4506-4509.	9.0	43
121	Heterogeneously catalyzed lignin depolymerization. Applied Petrochemical Research, 2016, 6, 243-256.	1.3	42
122	A magnetically-separable H 3 PW 12 O 40 @Fe 3 O 4 /EN-MIL-101 catalyst for the one-pot solventless synthesis of 2H-indazolo[2,1- b] phthalazine-triones. Molecular Catalysis, 2017, 440, 96-106.	2.0	42
123	Silver carbonate nanoparticles stabilised over alumina nanoneedles exhibiting potent antibacterial properties. Chemical Communications, 2008, , 4013.	4.1	41
124	Acidity-Reactivity Relationships in Catalytic Esterification over Ammonium Sulfate-Derived Sulfated Zirconia. Catalysts, 2017, 7, 204.	3.5	41
125	Inducing synergy in bimetallic RhNi catalysts for CO2 methanation by galvanic replacement. Applied Catalysis B: Environmental, 2020, 277, 119029.	20.2	41
126	Structureâ^'Reactivity Correlations in the Catalytic Coupling of Ethyne over Novel Bimetallic Pd/Sn Catalysts. Journal of Physical Chemistry B, 1997, 101, 2797-2805.	2.6	40

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127	Oxidation of Sn overlayers and the structure and stability of Sn oxide films on Pd(111). Physical Review B, 1998, 58, 4156-4165.	3.2	40
128	Heterogeneous catalysis in an oscillatory baffled flow reactor. Catalysis Science and Technology, 2013, 3, 2373.	4.1	40
129	Zrâ€Containing Hybrid Organicâ€“Inorganic Mesoporous Materials: Hydrophobic Acid Catalysts for Biodiesel Production.. ChemCatChem, 2013, 5, 994-1001.	3.7	40
130	The surface chemistry of nanocrystalline MgO catalysts for FAME production: An in situ XPS study of H2O, CH3OH and CH3OAc adsorption. Surface Science, 2016, 646, 170-178.	1.9	40
131	Nb2O5/SBA-15 catalyzed propanoic acid esterification. Applied Catalysis B: Environmental, 2017, 205, 498-504.	20.2	40
132	Delaminated CoAlâ€Layered Double Hydroxide@TiO₂ Heterojunction Nanocomposites for Photocatalytic Reduction of CO₂. Particle and Particle Systems Characterization, 2018, 35, 1700317.	2.3	40
133	Printing approaches to inorganic semiconductor photocatalyst fabrication. Journal of Materials Chemistry A, 2019, 7, 10858-10878.	10.3	40
134	In situ studies of titania-supported Au shellâ€“Pd core nanoparticles for the selective aerobic oxidation of crotyl alcohol. Catalysis Today, 2010, 157, 243-249.	4.4	39
135	In situ X-ray studies of crotyl alcohol selective oxidation over Au/Pd(111) surface alloys. Catalysis Today, 2009, 145, 251-257.	4.4	38
136	Acceptorless Amine Dehydrogenation and Transamination Using Pd-Doped Hydrotalcites. ACS Catalysis, 2019, 9, 1055-1065.	11.2	37
137	Catalyst design for biorefining. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150081.	3.4	35
138	Alkali- and nitrate-free synthesis of highly active Mgâ€“Al hydrotalcite-coated alumina for FAME production. Catalysis Science and Technology, 2014, 4, 861-870.	4.1	34
139	Octanoic acid hydrodeoxygenation over bifunctional Ni/Al-SBA-15 catalysts. Catalysis Science and Technology, 2019, 9, 6673-6680.	4.1	34
140	Pompon Dahliaâ€like Cu₂O/rGO Nanostructures for Visible Light Photocatalytic H₂ Production and 4â€Chlorophenol Degradation. ChemCatChem, 2020, 12, 1699-1709.	3.7	34
141	Diffusion NMR Characterization of Catalytic Silica Supports: A Tortuous Path. Journal of Physical Chemistry C, 2017, 121, 16250-16256.	3.1	33
142	Selective oxidation of allylic alcohols over highly ordered Pd/meso-Al2O3 catalysts. Catalysis Communications, 2014, 44, 40-45.	3.3	32
143	Continuous Atmospheric Plasma Oxidation of Carbon Fibres: Influence on the Fibre Surface and Bulk Properties and Adhesion to Polyamide 12. Plasma Chemistry and Plasma Processing, 2010, 30, 471-487.	2.4	31
144	Operando synchronous DRIFTS/MS/XAS as a powerful tool for guiding the design of Pd catalysts for the selective oxidation of alcohols. Catalysis Today, 2013, 205, 76-85.	4.4	31

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145	On the Mn promoted synthesis of higher alcohols over Cu derived ternary catalysts. Catalysis Science and Technology, 2017, 7, 988-999.	4.1	31
146	Zirconia catalysed acetic acid ketonisation for pre-treatment of biomass fast pyrolysis vapours. Catalysis Science and Technology, 2018, 8, 1134-1141.	4.1	31
147	Sol-gel synthesis of SBA-15: Impact of HCl on surface chemistry. Microporous and Mesoporous Materials, 2018, 271, 196-202.	4.4	31
148	Metalâ€“Acid Synergy: Hydrodeoxygenation of Anisole over Pt/Alâ€SBAâ€15. ChemSusChem, 2020, 13, 4945-4953.	6.8	31
149	An XPS study of pulsed plasma polymerised allyl alcohol film growth on polyurethane. Applied Surface Science, 2006, 252, 8203-8211.	6.1	30
150	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
151	Can surface energy measurements predict the impact of catalyst hydrophobicity upon fatty acid esterification over sulfonic acid functionalised periodic mesoporous organosilicas?. Catalysis Today, 2014, 234, 167-173.	4.4	30
152	Facile route to conformal hydrotalcite coatings over complex architectures: a hierarchically ordered nanoporous base catalyst for FAME production. Green Chemistry, 2015, 17, 2398-2405.	9.0	30
153	Octyl Coâ€grafted PrSO₃H/SBAâ€15: Tunable Hydrophobic Solid Acid Catalysts for Acetic Acid Esterification. ChemCatChem, 2017, 9, 2231-2238.	3.7	30
154	Pd-promoted WO3-ZrO2 for low temperature NOx storage. Applied Catalysis B: Environmental, 2020, 264, 118499.	20.2	30
155	Cs Promoted Triglyceride Transesterification Over MgO Nanocatalysts. Topics in Catalysis, 2010, 53, 737-745.	2.8	29
156	An energy-efficient route to the rapid synthesis of organically-modified SBA-15 via ultrasonic template removal. Green Chemistry, 2014, 16, 197-202.	9.0	29
157	Niobic acid nanoparticle catalysts for the aqueous phase transformation of glucose and fructose to 5-hydroxymethylfurfural. Catalysis Science and Technology, 2016, 6, 7334-7341.	4.1	29
158	High activity magnetic core-mesoporous shell sulfonic acid silica nanoparticles for carboxylic acid esterification. Catalysis Communications, 2017, 92, 56-60.	3.3	29
159	Bifunctional Organorhodium Solid Acid Catalysts for Methanol Carbonylation. ACS Catalysis, 2012, 2, 1368-1376.	11.2	28
160	Deactivation study of the hydrodeoxygenation of p -methylguaiacol over silica supported rhodium and platinum catalysts. Applied Catalysis A: General, 2017, 539, 29-37.	4.3	28
161	In situ Aberration Corrected-Transmission Electron Microscopy of Magnesium Oxide Nanocatalysts for Biodiesels. Catalysis Letters, 2009, 132, 182-188.	2.6	27
162	Impact of Methanol Photomediated Surface Defects on Photocatalytic H₂ Production Over Pt/TiO₂. Energy and Environmental Materials, 2020, 3, 202-208.	12.8	27

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163	Unveiling the structural transitions during activation of a CO2 methanation catalyst Ru0/ZrO2 synthesised from a MOF precursor. Catalysis Today, 2021, 368, 66-77.	4.4	27
164	Electronic, Structural, and Reactive Properties of Ultrathin Aluminum Oxide Films on Pt(111). Journal of Physical Chemistry B, 1998, 102, 1736-1744.	2.6	26
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