Nikolaos Dimitratos

List of Publications by Year
in descending order

172 papers	12,611 citations	25034 57 h-index	25787 108 g-index
187 all docs	187 docs citations	187 times ranked	11593 citing authors

#	Article	IF	Citations
1	Designing bimetallic catalysts for a green and sustainable future. Chemical Society Reviews, 2012, 41, 8099.	38.1	971
2	Solvent-Free Oxidation of Primary Carbon-Hydrogen Bonds in Toluene Using Au-Pd Alloy Nanoparticles. Science, 2011, 331, 195-199.	12.6	708
3	Facile removal of stabilizer-ligands from supported gold nanoparticles. Nature Chemistry, 2011, 3, 551-556.	13.6	517
4	Direct Catalytic Conversion of Methane to Methanol in an Aqueous Medium by using Copperâ€Promoted Feâ€ZSMâ€5. Angewandte Chemie - International Edition, 2012, 51, 5129-5133.	13.8	492
5	Aqueous Au-Pd colloids catalyze selective CH ₄ oxidation to CH ₃ OH with O ₂ under mild conditions. Science, 2017, 358, 223-227.	12.6	478
6	Pd/ZnO catalysts for direct CO2 hydrogenation to methanol. Journal of Catalysis, 2016, 343, 133-146.	6.2	359
7	Selective oxidation of glycerol with oxygen using mono and bimetallic catalysts based on Au, Pd and Pt metals. Catalysis Today, 2005, 102-103, 203-212.	4.4	304
8	Designer Titania-Supported Auâ€“Pd Nanoparticles for Efficient Photocatalytic Hydrogen Production. ACS Nano, 2014, 8, 3490-3497.	14.6	279
9	Pd and Pt catalysts modified by alloying with Au in the selective oxidation of alcohols. Journal of Catalysis, 2006, 244, 113-121.	6.2	274
10	Glycerol Oxidation Using Gold-Containing Catalysts. Accounts of Chemical Research, 2015, 48, 1403-1412.	15.6	265
11	Promotion of Phenol Photodecomposition over TiO₂ Using Au, Pd, and Auâ€“Pd Nanoparticles. ACS Nano, 2012, 6, 6284-6292.	14.6	252
12	Selective oxidation of 5-hydroxymethyl-2-furfural using supported goldâ€“copper nanoparticles. Green Chemistry, 2011, 13, 2091.	9.0	242
13	Oxidation of Methane to Methanol with Hydrogen Peroxide Using Supported Goldâ€“Palladium Alloy Nanoparticles. Angewandte Chemie - International Edition, 2013, 52, 1280-1284.	13.8	239
14	Selective liquid phase oxidation with supported metal nanoparticles. Chemical Science, 2012, 3, 20-44.	7.4	224
15	Selective Oxidation of Glycerol by Highly Active Bimetallic Catalysts at Ambient Temperature under Baseâ€Free Conditions. Angewandte Chemie - International Edition, 2011, 50, 10136-10139.	13.8	212
16	Direct Synthesis of Hydrogen Peroxide and Benzyl Alcohol Oxidation Using Auâˆ'Pd Catalysts Prepared by Sol Immobilization. Langmuir, 2010, 26, 16568-16577.	3.5	201
17	Effect of Particle Size on Monometallic and Bimetallic (Au,Pd)/C on the Liquid Phase Oxidation of Glycerol. Catalysis Letters, 2006, 108, 147-153.	2.6	188
18	Tuning of catalytic sites in Pt/TiO2 catalysts for the chemoselective hydrogenation of 3-nitrostyrene. Nature Catalysis, 2019, 2, 873-881.	34.4	183

#	Article	IF	Citations
19	Solvent free liquid phase oxidation of benzyl alcohol using Au supported catalysts prepared using a sol immobilization technique. Catalysis Today, 2007, 122, 317-324.	4.4	150
20	Oxidation of glycerol using goldâ€“palladium alloy-supported nanocrystals. Physical Chemistry Chemical Physics, 2009, 11, 4952.	2.8	144
21	Au, Pd (mono and bimetallic) catalysts supported on graphite using the immobilisation method. Applied Catalysis A: General, 2005, 291, 210-214.	4.3	143
22	Pd on carbon nanotubes for liquid phase alcohol oxidation. Catalysis Today, 2010, 150, 8-15.	4.4	142
23	Characterisation of gold catalysts. Chemical Society Reviews, 2016, 45, 4953-4994.	38.1	140
24	Solvent-free oxidation of benzyl alcohol using Auâ€“Pd catalysts prepared by sol immobilisation. Physical Chemistry Chemical Physics, 2009, 11, 5142.	2.8	138
25	Auâ€“Pd supported nanocrystals prepared by a sol immobilisation technique as catalysts for selective chemical synthesis. Physical Chemistry Chemical Physics, 2008, 10, 1921.	2.8	136
26	Oxidation of alcohols using supported gold and goldâ€“palladium nanoparticles. Faraday Discussions, 0, 145, 341-356.	3.2	128
27	Gold on titania: Effect of preparation method in the liquid phase oxidation. Applied Catalysis A: General, 2006, 311, 185-192.	4.3	126
28	Synthesis of glycerol carbonate from glycerol and urea with gold-based catalysts. Dalton Transactions, 2011, 40, 3927.	3.3	125
29	Selective oxidation of 5-hydroxymethyl-2-furfural over TiO2-supported goldâ€“copper catalysts prepared from preformed nanoparticles: Effect of Au/Cu ratio. Catalysis Today, 2012, 195, 120-126.	4.4	124
30	Elucidation and Evolution of the Active Component within Cu/Fe/ZSM-5 for Catalytic Methane Oxidation: From Synthesis to Catalysis. ACS Catalysis, 2013, 3, 689-699.	11.2	117
31	Aberration corrected analytical electron microscopy studies of sol-immobilized Au + Pd, Au{Pd} and Pd{Au} catalysts used for benzyl alcohol oxidation and hydrogen peroxide production. Faraday Discussions, 2011, 152, 63.	3.2	115
32	Tandem Site- and Size-Controlled Pd Nanoparticles for the Directed Hydrogenation of Furfural. ACS Catalysis, 2017, 7, 2266-2274.	11.2	113
33	Hydrogen production by photoreforming of biofuels using Au, Pd and Auâ€“Pd/TiO2 photocatalysts. Journal of Catalysis, 2014, 310, 10-15.	6.2	112
34	Catalytic and Mechanistic Insights of the Lowâ€Temperature Selective Oxidation of Methane over Cuâ€Promoted Feâ€ZSMâ€5. Chemistry - A European Journal, 2012, 18, 15735-15745.	3.3	102
35	Aqueous-Phase Methane Oxidation over Fe-MFI Zeolites; Promotion through Isomorphous Framework Substitution. ACS Catalysis, 2013, 3, 1835-1844.	11.2	99
36	Selective formation of lactate by oxidation of 1,2-propanediol using gold palladium alloy supported nanocrystals. Green Chemistry, 2009, 11, 1209.	9.0	97

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37	Synergetic effect of platinum or palladium on gold catalyst in the selective oxidation of D-sorbitol. Catalysis Letters, 2005, 99, 181-185.	2.6	91
38	Involvement of Surfaceâ€Bound Radicals in the Oxidation of Toluene Using Supported Auâ€Pd Nanoparticles. Angewandte Chemie - International Edition, 2012, 51, 5981-5985.	13.8	89
39	Investigation on the behaviour of Pt(0)/carbon and Pt(0),Au(0)/carbon catalysts employed in the oxidation of glycerol with molecular oxygen in water. Journal of Molecular Catalysis A, 2006, 256, 21-28.	4.8	85
40	Molybdenum Oxide on Fe₂O₃ Coreâ€"Shell Catalysts: Probing the Nature of the Structural Motifs Responsible for Methanol Oxidation Catalysis. ACS Catalysis, 2014, 4, 243-250.	11.2	85
41	Partial Oxidation of Ethane to Oxygenates Using Fe- and Cu-Containing ZSM-5. Journal of the American Chemical Society, 2013, 135, 11087-11099.	13.7	83
42	Identification of Active and Spectator Sn Sites in Snâ€î² Following Solidâ€State Stannation, and Consequences for Lewis Acid Catalysis. ChemCatChem, 2015, 7, 3322-3331.	3.7	83
43	Oxidation of Glycerol to Glycolate by using Supported Gold and Palladium Nanoparticles. ChemSusChem, 2009, 2, 1145-1151.	6.8	78
44	Methyl Formate Formation from Methanol Oxidation Using Supported Goldâ€"Palladium Nanoparticles. ACS Catalysis, 2015, 5, 637-644.	11.2	78
45	Tailoring the selectivity of glycerol oxidation by tuning the acidâ€"base properties of Au catalysts. Catalysis Science and Technology, 2015, 5, 1126-1132.	4.1	78
46	Green Catalysis with Alternative Feedstocks. Topics in Catalysis, 2009, 52, 258-268.	2.8	73
47	Oxidation of benzyl alcohol using supported goldâ€"palladium nanoparticles. Catalysis Today, 2011, 164, 315-319.	4.4	70
48	Methane Oxidation to Methanol in Water. Accounts of Chemical Research, 2021, 54, 2614-2623.	15.6	69
49	Hydrogen Generation from Additive-Free Formic Acid Decomposition Under Mild Conditions by Pd/C: Experimental and DFT Studies. Topics in Catalysis, 2018, 61, 254-266.	2.8	68
50	Steam reforming of ethanol over Ni/MgAl2O4 catalysts. International Journal of Hydrogen Energy, 2019, 44, 952-964.	7.1	67
51	Switching-off toluene formation in the solvent-free oxidation of benzyl alcohol using supported trimetallic Auâ€"Pdâ€"Pt nanoparticles. Faraday Discussions, 2013, 162, 365.	3.2	65
52	Effect of heat treatment on Auâ€"Pd catalysts synthesized by sol immobilisation for the direct synthesis of hydrogen peroxide and benzyl alcoholoxidation. Catalysis Science and Technology, 2013, 3, 308-317.	4.1	64
53	Low temperature selective oxidation of methane to methanol using titania supported gold palladium copper catalysts. Catalysis Science and Technology, 2016, 6, 3410-3418.	4.1	64
54	Enhanced selective glycerol oxidation in multiphase structured reactors. Catalysis Today, 2009, 145, 169-175.	4.4	62

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55	Reactivity studies of Auâ€“Pd supported nanoparticles for catalytic applications. Applied Catalysis A: General, 2011, 391, 400-406.	4.3	62
56	AuPd-nNiO as an effective catalyst for the base-free oxidation of HMF under mild reaction conditions. Green Chemistry, 2019, 21, 4090-4099.	9.0	62
57	Solvent-free selective epoxidation of cyclooctene using supported gold catalysts. Green Chemistry, 2009, 11, 1037.	9.0	61
58	The selective oxidation of 1,2-propanediol to lactic acid using mild conditions and gold-based nanoparticulate catalysts. Catalysis Today, 2013, 203, 139-145.	4.4	58
59	Directed aqueous-phase reforming of glycerol through tailored platinum nanoparticles. Applied Catalysis B: Environmental, 2018, 238, 618-628.	20.2	58
60	Oxidation of Benzyl Alcohol by using Gold Nanoparticles Supported on Ceria Foam. ChemSusChem, 2012, 5, 125-131.	6.8	56
61	The Nature of the Molybdenum Surface in Iron Molybdate. The Active Phase in Selective Methanol Oxidation. Journal of Physical Chemistry C, 2014, 118, 26155-26161.	3.1	56
62	Liquid Phase Oxidation of Glycerol Using a Single Phase (Auâ€“Pd) Alloy Supported on Activated Carbon: Effect of Reaction Conditions. Catalysis Letters, 2009, 133, 334-340.	2.6	54
63	Gold, palladium and goldâ€“palladium supported nanoparticles for the synthesis of glycerol carbonate from glycerol and urea. Catalysis Science and Technology, 2012, 2, 1914.	4.1	52
64	Dual-Site-Mediated Hydrogenation Catalysis on Pd/NiO: Selective Biomass Transformation and Maintenance of Catalytic Activity at Low Pd Loading. ACS Catalysis, 2020, 10, 5483-5492.	11.2	52
65	Mechanistic Insight into the Interaction Between a Titanium Dioxide Photocatalyst and Pd Cocatalyst for Improved Photocatalytic Performance. ACS Catalysis, 2016, 6, 4239-4247.	11.2	50
66	Biomimetic Oxidation with Feâ€ZSMâ€5 and H₂O₂? Identification of an Active, Extraâ€Framework Binuclear Core and an Fe^{III}ï£¿OOH Intermediate with Resonanceâ€Enhanced Raman Spectroscopy. ChemCatChem, 2015, 7, 434-440.	3.7	49
67	Optimised hydrogen production by aqueous phase reforming of glycerol on Pt/Al2O3. International Journal of Hydrogen Energy, 2016, 41, 18441-18450.	7.1	49
68	Cinnamaldehyde hydrogenation using Auâ€“Pd catalysts prepared by sol immobilisation. Catalysis Science and Technology, 2018, 8, 1677-1685.	4.1	46
69	Light alkane oxidation using catalysts prepared by chemical vapour impregnation: tuning alcohol selectivity through catalyst pre-treatment. Chemical Science, 2014, 5, 3603-3616.	7.4	45
70	Tailoring Gold Nanoparticle Characteristics and the Impact on Aqueous-Phase Oxidation of Glycerol. ACS Catalysis, 2015, 5, 4377-4384.	11.2	45
71	Selective photocatalytic oxidation of benzene for the synthesis of phenol using engineered Auâ€“Pd alloy nanoparticles supported on titanium dioxide. Chemical Communications, 2014, 50, 12612-12614.	4.1	42
72	Properties of Cs2.5 salts of transition metal M substituted Keggin-type M1âˆ’PV1M Mo11âˆ’O40 heteropolyoxometallates in propane oxidation. Applied Catalysis A: General, 2003, 256, 251-263.	4.3	41

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73	Oxidation of Benzyl Alcohol and Carbon Monoxide Using Gold Nanoparticles Supported on MnO₂ Nanowire Microspheres. Chemistry - A European Journal, 2014, 20, 1701-1710.	3.3	40
74	Methanol diffusion in zeolite HY: a combined quasielastic neutron scattering and molecular dynamics simulation study. Physical Chemistry Chemical Physics, 2016, 18, 17294-17302.	2.8	38
75	Selective catalytic oxidation using supported goldâ€“platinum and palladiumâ€“platinum nanoalloys prepared by sol-immobilisation. Physical Chemistry Chemical Physics, 2013, 15, 10636.	2.8	37
76	Effect of the preparation method of supported Au nanoparticles in the liquid phase oxidation of glycerol. Applied Catalysis A: General, 2016, 514, 267-275.	4.3	37
77	Hydrogen production from formic acid decomposition in the liquid phase using Pd nanoparticles supported on CNFs with different surface properties. Sustainable Energy and Fuels, 2018, 2, 2705-2716.	4.9	37
78	Gas-Phase Catalytic Transfer Hydrogenation of Methyl Levulinate with Ethanol over ZrO₂. ACS Sustainable Chemistry and Engineering, 2019, 7, 8317-8330.	6.7	36
79	Systematic Study of the Oxidation of Methane Using Supported Gold Palladium Nanoparticles Under Mild Aqueous Conditions. Topics in Catalysis, 2013, 56, 1843-1857.	2.8	35
80	Synthesis of highly uniform and composition-controlled goldâ€“palladium supported nanoparticles in continuous flow. Nanoscale, 2019, 11, 8247-8259.	5.6	35
81	Pt and Pt/Sn carbonyl clusters as precursors for the synthesis of supported metal catalysts for the base-free oxidation of HMF. Applied Catalysis A: General, 2019, 588, 117279.	4.3	34
82	High pressure CO2 photoreduction using Au/TiO2: unravelling the effect of co-catalysts and of titania polymorphs. Catalysis Science and Technology, 2019, 9, 2253-2265.	4.1	34
83	The Selective Oxidation of 1,2-Propanediol by Supported Gold-Based Nanoparticulate Catalysts. Topics in Catalysis, 2012, 55, 1283-1288.	2.8	33
84	Oxidative esterification of 1,2-propanediol using gold and gold-palladium supported nanoparticles. Catalysis Science and Technology, 2012, 2, 97-104.	4.1	32
85	Synthesis of palladium-rhodium bimetallic nanoparticles for formic acid dehydrogenation. Journal of Energy Chemistry, 2021, 52, 301-309.	12.9	31
86	Methane oxidation using silica-supported N-bridged di-iron phthalocyanine catalyst. Journal of Catalysis, 2012, 290, 177-185.	6.2	30
87	Catalytic performance of gold catalysts in the total oxidation of VOCs. Gold Bulletin, 2007, 40, 67-72.	2.7	29
88	The mechanism of surface doping in vanadyl pyrophosphate, catalyst for n-butane oxidation to maleic anhydride: The role of Au promoter. Catalysis Today, 2011, 169, 200-206.	4.4	28
89	Role of acid and redox properties on propane oxidative dehydrogenation over polyoxometallates. Catalysis Today, 2003, 81, 561-571.	4.4	26
90	High Activity Redox Catalysts Synthesized by Chemical Vapor Impregnation. ACS Nano, 2014, 8, 957-969.	14.6	25

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91	An investigation on AuPt and AuPt-Bi on granular carbon as catalysts for the oxidation of glycerol under continuous flow conditions. Catalysis Today, 2018, 308, 50-57.	4.4	25
92	Mechanistic study of hydrazine decomposition on Ir(111). Physical Chemistry Chemical Physics, 2020, 22, 3883-3896.	2.8	24
93	Exploring the Effect of Au/Pt Ratio on Glycerol Oxidation in Presence and Absence of a Base. Catalysts, 2018, 8, 54.	3.5	23
94	Gold based bimetallic catalysts for liquid phase applications. Gold Bulletin, 2005, 38, 73-77.	2.7	22
95	Goldâ€“palladium colloids as catalysts for hydrogen peroxide synthesis, degradation and methane oxidation: effect of the PVP stabiliser. Catalysis Science and Technology, 2020, 10, 5935-5944.	4.1	21
96	Depressing the hydrogenation and decomposition reaction in H₂O₂ synthesis by supporting AuPd on oxygen functionalized carbon nanofibers. Catalysis Science and Technology, 2016, 6, 694-697.	4.1	20
97	Role of defects in carbon materials during metal-free formic acid dehydrogenation. Nanoscale, 2020, 12, 22768-22777.	5.6	19
98	Study of Ga modified Cs2.5H1.5PV1Mo11O40 heteropolyoxometallates for propane selective oxidation. Journal of Molecular Catalysis A, 2006, 255, 184-192.	4.8	18
99	Tandem Hydrogenation/Hydrogenolysis of Furfural to 2-Methylfuran over a Fe/Mg/O Catalyst: Structureâ€“Activity Relationship. Catalysts, 2019, 9, 895.	3.5	18
100	The Effect of Noble Metal (M: Ir, Pt, Pd) on M/Ce2O3-Î³-Al2O3 Catalysts for Hydrogen Production via the Steam Reforming of Glycerol. Catalysts, 2020, 10, 790.	3.5	18
101	Optimised photocatalytic hydrogen production using coreâ€“shell AuPd promoters with controlled shell thickness. Physical Chemistry Chemical Physics, 2014, 16, 26638-26644.	2.8	17
102	Exploring the mechanisms of metal co-catalysts in photocatalytic reduction reactions: Is Ag a good candidate?. Applied Catalysis A: General, 2016, 518, 213-220.	4.3	17
103	Highly Active Gold and Goldâ€“Palladium Catalysts Prepared by Colloidal Methods in the Absence of Polymer Stabilizers. ChemCatChem, 2017, 9, 2914-2918.	3.7	17
104	The adsorption of Cu on the CeO₂(110) surface. Physical Chemistry Chemical Physics, 2017, 19, 27191-27203.	2.8	17
105	Continuous Flow Synthesis of Bimetallic AuPd Catalysts for the Selective Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Furandicarboxylic Acid. ChemNanoMat, 2020, 6, 420-426.	2.8	17
106	The Lowâ€Temperature Oxidation of Propane by using H₂O₂ and Fe/ZSMâ€5 Catalysts: Insights into the Active Site and Enhancement of Catalytic Turnover Frequencies. ChemCatChem, 2017, 9, 642-650.	3.7	16
107	Promotion Mechanisms of Au Supported on TiO₂ in Thermal- and Photocatalytic Glycerol Conversion. Journal of Physical Chemistry C, 2019, 123, 19734-19741.	3.1	16
108	Continuous-Flow Methyl Methacrylate Synthesis over Gallium-Based Bifunctional Catalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 1790-1803.	6.7	16

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109	Enhancing activity, selectivity and stability of palladium catalysts in formic acid decomposition: Effect of support functionalization. Catalysis Today, 2021, 382, 61-70.	4.4	16
110	Disclosing the Role of Gold on Palladium â€“ Gold Alloyed Supported Catalysts in Formic Acid Decomposition. ChemCatChem, 2021, 13, 4210-4222.	3.7	16
111	Effect of BrÃ¸nsted acidity in propane oxidation over Cs2.5H1.5PV1Mo11â^'W O40 polyoxometallate compounds. Catalysis Communications, 2006, 7, 811-818.	3.3	15
112	Effect of Au in Cs2.5H1.5PVMo11O40 and Cs2.5H1.5PVMo11O40/Au/TiO2 catalysts in the gas phase oxidation of propylene. Catalysis Today, 2007, 122, 307-316.	4.4	15
113	Photocatalytic hydrogen production by reforming of methanol using Au/TiO₂, Ag/TiO₂ and Au-Ag/TiO₂ catalysts. Journal of Lithic Studies, 2015, 1, 35-43.	0.5	15
114	Scale-Up of Cluster Beam Deposition to the Gram Scale with the Matrix Assembly Cluster Source for Heterogeneous Catalysis (Catalytic Ozonation of Nitrophenol in Aqueous Solution). ACS Applied Materials & Interfaces, 2020, 12, 24877-24882.	8.0	15
115	Decomposition of Additive-Free Formic Acid Using a Pd/C Catalyst in Flow: Experimental and CFD Modelling Studies. Catalysts, 2021, 11, 341.	3.5	15
116	Hydrous Hydrazine Decomposition for Hydrogen Production Using of Ir/CeO2: Effect of Reaction Parameters on the Activity. Nanomaterials, 2021, 11, 1340.	4.1	15
117	AuPt Alloy on TiO₂: A Selective and Durable Catalyst for <scp>l</scp>â€Sorbose Oxidation to 2â€Ketoâ€Gulonic Acid. ChemSusChem, 2015, 8, 4189-4194.	6.8	14
118	Bio Adipic Acid Production from Sodium Muconate and Muconic Acid: A Comparison of two Systems. ChemCatChem, 2019, 11, 3075-3084.	3.7	14
119	Effect of Polyvinyl Alcohol Ligands on Supported Gold Nano-Catalysts: Morphological and Kinetics Studies. Nanomaterials, 2021, 11, 879.	4.1	14
120	Catalysis using colloidal-supported gold-based nanoparticles. Applied Petrochemical Research, 2014, 4, 85-94.	1.3	13
121	Preparation of bifunctional Au-Pd/TiO2 catalysts and research on methanol liquid phase one-step oxidation to methyl formate. Catalysis Today, 2018, 316, 206-213.	4.4	13
122	Supported metal nanoparticles with tailored catalytic properties through sol-immobilisation: applications for the hydrogenation of nitrophenols. Faraday Discussions, 2018, 208, 443-454.	3.2	13
123	Surface Probing by Spectroscopy on Titania-Supported Gold Nanoparticles for a Photoreductive Application. Catalysts, 2018, 8, 623.	3.5	13
124	Controlling the Incorporation of Phosphorus Functionalities on Carbon Nanofibers: Effects on the Catalytic Performance of Fructose Dehydration. Journal of Carbon Research, 2018, 4, 9.	2.7	13
125	Investigation of the Catalytic Performance of Pd/CNFs for Hydrogen Evolution from Additive-Free Formic Acid Decomposition. Journal of Carbon Research, 2018, 4, 26.	2.7	13
126	The partial oxidation of propane under mild aqueous conditions with H2O2 and ZSM-5 catalysts. Catalysis Science and Technology, 2016, 6, 7521-7531.	4.1	12

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127	Preformed Au colloidal nanoparticles immobilised on NiO as highly efficient heterogeneous catalysts for reduction of 4-nitrophenol to 4-aminophenol. Journal of Environmental Chemical Engineering, 2019, 7, 103381.	6.7	12
128	Valorisation of Biomass Derived Furfural and Levulinic Acid by Highly Efficient Pd@ND Catalyst. Energy Technology, 2019, 7, 269-276.	3.8	12
129	Spectroscopic Investigation of Titaniaâ€Supported Gold Nanoparticles Prepared by a Modified Deposition/Precipitation Method for the Oxidation of CO. ChemCatChem, 2016, 8, 2136-2145.	3.7	11
130	Catalytic formation of C(sp³)â€“F bonds via decarboxylative fluorination with mechanochemically-prepared Ag₂O/TiO₂ heterogeneous catalysts. RSC Advances, 2017, 7, 30185-30190.	3.6	11
131	Effect of Carbon Support, Capping Agent Amount, and Pd NPs Size for Bio-Adipic Acid Production from Muconic Acid and Sodium Muconate. Nanomaterials, 2020, 10, 505.	4.1	11
132	Controlling the Production of Acid Catalyzed Products of Furfural Hydrogenation by Pd/TiO₂. ChemCatChem, 2021, 13, 5121-5133.	3.7	11
133	Computational Investigation of Microreactor Configurations for Hydrogen Production from Formic Acid Decomposition Using a Pd/C Catalyst. Industrial & Engineering Chemistry Research, 2022, 61, 1655-1665.	3.7	11
134	Effect of the Colloidal Preparation Method for Supported Preformed Colloidal Au Nanoparticles for the Liquid Phase Oxidation of 1,6-Hexanediol to Adipic Acid. Catalysts, 2022, 12, 196.	3.5	11
135	A Comprehensive Review on Two-Step Thermochemical Water Splitting for Hydrogen Production in a Redox Cycle. Energies, 2022, 15, 3044.	3.1	11
136	Metal-Support Cooperative Effects in Au/VPO for the Aerobic Oxidation of Benzyl Alcohol to Benzyl Benzoate. Nanomaterials, 2019, 9, 299.	4.1	10
137	Preformed Pd-Based Nanoparticles for the Liquid Phase Decomposition of Formic Acid: Effect of Stabiliser, Support and Auâ€“Pd Ratio. Applied Sciences (Switzerland), 2020, 10, 1752.	2.5	10
138	Well-controlled metal co-catalysts synthesised by chemical vapour impregnation for photocatalytic hydrogen production and water purification. Dalton Transactions, 2014, 43, 14976-14982.	3.3	9
139	Comparison of Au and TiO2 based catalysts for the synthesis of chalcogenide nanowires. Applied Physics Letters, 2014, 104, 253103.	3.3	8
140	Catalytic Performances of Auâ€“Pt Nanoparticles on Phosphorous Functionalized Carbon Nanofibers towards HMF Oxidation. Journal of Carbon Research, 2018, 4, 48.	2.7	8
141	Plasmonic Oxidation of Glycerol Using Au/TiO2 Catalysts Prepared by Sol-Immobilisation. Catalysis Letters, 2020, 150, 49-55.	2.6	8
142	Gold catalysis: helping create a sustainable future. Applied Petrochemical Research, 2012, 2, 7-14.	1.3	7
143	A study of the oxidehydration of 1,2-propanediol to propanoic acid with bifunctional catalysts. Applied Catalysis A: General, 2019, 582, 117102.	4.3	7
144	Experimental and Process Modelling Investigation of the Hydrogen Generation from Formic Acid Decomposition Using a Pd/Zn Catalyst. Applied Sciences (Switzerland), 2021, 11, 8462.	2.5	7

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145	Furfural Adsorption and Hydrogenation at the Oxideâ€Metal Interface: Evidence of the Support Influence on the Selectivity of Iridiumâ€Based Catalysts. ChemCatChem, 2022, 14, .	3.7	7
146	Hydrogenation of carbon dioxide (CO₂) to fuels in microreactors: a review of set-ups and value-added chemicals production. Reaction Chemistry and Engineering, 2022, 7, 795-812.	3.7	7
147	The adsorbed state of a thiol on palladium nanoparticles. Physical Chemistry Chemical Physics, 2016, 18, 17265-17271.	2.8	6
148	The Effect of Carbon Nanofibers Surface Properties in Hydrogenation and Dehydrogenation Reactions. Applied Sciences (Switzerland), 2019, 9, 5061.	2.5	6
149	Optimization of sol-immobilized bimetallic Auâ€"Pd/TiO ₂ catalysts: reduction of 4-nitrophenol to 4-aminophenol for wastewater remediation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20200057.	3.4	6
150	Catalytic decomposition of carbon-based liquid-phase chemical hydrogen storage materials for hydrogen generation under mild conditions. Applied Petrochemical Research, 2016, 6, 269-277.	1.3	5
151	Temperature-Dependent Activity of Gold Nanocatalysts Supported on Activated Carbon in Redox Catalytic Reactions: 5-Hydroxymethylfurfural Oxidation and 4-Nitrophenol Reduction Comparison. Catalysts, 2022, 12, 323.	3.5	5
152	Some recent advances in gold-based catalysis facilitated by aberration corrected analytical electron microscopy. Journal of Physics: Conference Series, 2012, 371, 012028.	0.4	4
153	DFT-Assisted Spectroscopic Studies on the Coordination of Small Ligands to Palladium: From Isolated Ions to Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 4781-4790.	3.1	4
154	On the role of bismuth as modifier in AuPdBi catalysts: Effects on liquid-phase oxidation and hydrogenation reactions. Catalysis Communications, 2021, 158, 106340.	3.3	4
155	A comparative study on the stability of the furfural molecule on the low index Ni, Pd and Pt surfaces. Royal Society Open Science, 2022, 9, 211516.	2.4	4
156	Supported Metal Nanoparticles in Liquid-Phase Oxidation Reactions. , 2014, , 631-678.		3
157	Co-oxidation of octane and benzaldehyde using molecular oxygen with Auâ€"Pd/carbon prepared by sol-immobilisation. Catalysis Science and Technology, 2015, 5, 3953-3959.	4.1	3
158	MAXNET Energy â€" Focusing Research in Chemical Energy Conversion on the Electrocatlytic Oxygen Evolution. Green, 2015, 5, .	0.4	3
159	Transfer Dehydrogenation of 1-Phenylethanol Over Pd/C Under Mild Conditions: Effect of Reaction Conditions and Optimization of Catalytic Performance. Catalysis Letters, 2017, 147, 2372-2384.	2.6	3
160	Enhanced Activity of Au/NiO Nanohybrids for the Reductive Amination of Benzyl Alcohol. Materials, 2017, 10, 1435.	2.9	3
161	Selective decomposition of hydrazine over metal free carbonaceous materials. Physical Chemistry Chemical Physics, 2022, 24, 3017-3029.	2.8	3
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