

# Peter J Miedziak

## List of Publications by Year in descending order

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79  
papers

4,606  
citations

117625

34  
h-index

102487

66  
g-index

83  
all docs

83  
docs citations

83  
times ranked

6017  
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing bimetallic catalysts for a green and sustainable future. <i>Chemical Society Reviews</i> , 2012, 41, 8099.	38.1	971
2	Facile removal of stabilizer-ligands from supported gold nanoparticles. <i>Nature Chemistry</i> , 2011, 3, 551-556.	13.6	517
3	Selective Oxidation of Glycerol by Highly Active Bimetallic Catalysts at Ambient Temperature under Base-free Conditions. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10136-10139.	13.8	212
4	Au-Pd supported nanocrystals prepared by a sol immobilisation technique as catalysts for selective chemical synthesis. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1921.	2.8	136
5	Oxidation of alcohols using supported gold and gold-palladium nanoparticles. <i>Faraday Discussions</i> , 0, 145, 341-356.	3.2	128
6	Au-Pd separation enhances bimetallic catalysis of alcohol oxidation. <i>Nature</i> , 2022, 603, 271-275.	27.8	114
7	Pd-Ru/TiO <sub>2</sub> catalyst – an active and selective catalyst for furfural hydrogenation. <i>Catalysis Science and Technology</i> , 2016, 6, 234-242.	4.1	108
8	Rubidium- and caesium-doped silicotungstic acid catalysts supported on alumina for the catalytic dehydration of glycerol to acrolein. <i>Journal of Catalysis</i> , 2012, 286, 206-213.	6.2	106
9	Gold-Palladium Core-Shell Nanocrystals with Size and Shape Control Optimized for Catalytic Performance. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1477-1480.	13.8	104
10	Au-Pd nanoalloys supported on Mg-Al mixed metal oxides as a multifunctional catalyst for solvent-free oxidation of benzyl alcohol. <i>Dalton Transactions</i> , 2013, 42, 14498.	3.3	91
11	Ceria prepared using supercritical antisolvent precipitation: a green support for gold-palladium nanoparticles for the selective catalytic oxidation of alcohols. <i>Journal of Materials Chemistry</i> , 2009, 19, 8619.	6.7	88
12	The controlled catalytic oxidation of furfural to furoic acid using AuPd/Mg(OH) <sub>2</sub> . <i>Catalysis Science and Technology</i> , 2017, 7, 5284-5293.	4.1	87
13	Oxidation of benzyl alcohol using supported gold-palladium nanoparticles. <i>Catalysis Today</i> , 2011, 163, 47-54.	4.4	73
14	Base-Free Oxidation of Glycerol Using Titania-Supported Trimetallic Au-Pd-Pt Nanoparticles. <i>ChemSusChem</i> , 2014, 7, 1326-1334.	6.8	73
15	Base-free glucose oxidation using air with supported gold catalysts. <i>Green Chemistry</i> , 2014, 16, 3132-3141.	9.0	71
16	Oxidation of benzyl alcohol using supported gold-palladium nanoparticles. <i>Catalysis Today</i> , 2011, 164, 315-319.	4.4	70
17	Identification of the catalytically active component of Cu-Zr-O catalyst for the hydrogenation of levulinic acid to Î <sup>3</sup> -valerolactone. <i>Green Chemistry</i> , 2017, 19, 225-236.	9.0	68
18	Switching-off toluene formation in the solvent-free oxidation of benzyl alcohol using supported trimetallic Au-Pd-Pt nanoparticles. <i>Faraday Discussions</i> , 2013, 162, 365.	3.2	65

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19	The selective oxidation of 1,2-propanediol to lactic acid using mild conditions and gold-based nanoparticulate catalysts. <i>Catalysis Today</i> , 2013, 203, 139-145.	4.4	58
20	Conversion of furfuryl alcohol into 2-methylfuran at room temperature using Pd/TiO <sub>2</sub> catalyst. <i>Catalysis Science and Technology</i> , 2014, 4, 2280-2286.	4.1	58
21	Selective suppression of disproportionation reaction in solvent-less benzyl alcohol oxidation catalysed by supported Au@Pd nanoparticles. <i>Catalysis Today</i> , 2013, 203, 146-152.	4.4	57
22	Base-free oxidation of glucose to gluconic acid using supported gold catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 107-117.	4.1	53
23	Microwave synthesis of ZnIn <sub>2</sub> S <sub>4</sub> /WS <sub>2</sub> composites for photocatalytic hydrogen production and hexavalent chromium reduction. <i>Catalysis Science and Technology</i> , 2019, 9, 5698-5711.	4.1	52
24	Understanding the Solvent Effect on the Catalytic Oxidation of 1,4-Butanediol in Methanol over Au/TiO <sub>2</sub> Catalyst: NMR Diffusion and Relaxation Studies. <i>Chemistry - A European Journal</i> , 2012, 18, 14426-14433.	3.3	50
25	Vinyl chloride monomer production catalysed by gold: A review. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1600-1607.	14.0	47
26	Solvent Effect and Reactivity Trend in the Aerobic Oxidation of 1,3-Propanediols over Gold Supported on Titania: NMR Diffusion and Relaxation Studies. <i>Chemistry - A European Journal</i> , 2013, 19, 11725-11732.	3.3	46
27	Enhanced visible-light-driven photocatalytic H <sub>2</sub> production and Cr(VI) reduction of a ZnIn <sub>2</sub> S <sub>4</sub> /MoS <sub>2</sub> heterojunction synthesized by the biomolecule-assisted microwave heating method. <i>Catalysis Science and Technology</i> , 2020, 10, 2838-2854.	4.1	46
28	Surface functionalized TiO <sub>2</sub> supported Pd catalysts for solvent-free selective oxidation of benzyl alcohol. <i>Catalysis Today</i> , 2015, 250, 218-225.	4.4	45
29	Inter-connected and open pore hierarchical TS-1 with controlled framework titanium for catalytic cyclohexene epoxidation. <i>Catalysis Science and Technology</i> , 2018, 8, 2211-2217.	4.1	42
30	The preparation of large surface area lanthanum based perovskite supports for AuPt nanoparticles: tuning the glycerol oxidation reaction pathway by switching the perovskite B site. <i>Faraday Discussions</i> , 2016, 188, 427-450.	3.2	41
31	The conversion of levulinic acid into $\gamma$ -valerolactone using Cu@ZrO <sub>2</sub> catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 6022-6030.	4.1	40
32	Physical mixing of metal acetates: a simple, scalable method to produce active chloride free bimetallic catalysts. <i>Chemical Science</i> , 2012, 3, 2965.	7.4	38
33	Selective catalytic oxidation using supported gold-platinum and palladium-platinum nanoalloys prepared by sol-immobilisation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10636.	2.8	37
34	Solvent-free aerobic oxidation of alcohols using supported gold palladium nanoalloys prepared by a modified impregnation method. <i>Catalysis Science and Technology</i> , 2014, 4, 3120-3128.	4.1	36
35	Deactivation studies of a carbon supported AuPt nanoparticulate catalyst in the liquid-phase aerobic oxidation of 1,2-propanediol. <i>Catalysis Science and Technology</i> , 2014, 4, 1313-1322.	4.1	34
36	The Selective Oxidation of 1,2-Propanediol by Supported Gold-Based Nanoparticulate Catalysts. <i>Topics in Catalysis</i> , 2012, 55, 1283-1288.	2.8	33

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37	Oxidative esterification of 1,2-propanediol using gold and gold-palladium supported nanoparticles. <i>Catalysis Science and Technology</i> , 2012, 2, 97-104.	4.1	32
38	The hydrogenation of levulinic acid to Î³-valerolactone over Cuâ€“ZrO <sub>2</sub> catalysts prepared by a pH-gradient methodology. <i>Journal of Energy Chemistry</i> , 2019, 36, 15-24.	12.9	30
39	Supercritical antisolvent precipitation of TiO <sub>2</sub> with tailored anatase/rutile composition for applications in redox catalysis and photocatalysis. <i>Applied Catalysis A: General</i> , 2015, 504, 62-73.	4.3	29
40	Selective Oxidation of n-Butanol Using Goldâ€“Palladium Supported Nanoparticles Under Baseâ€“Free Conditions. <i>ChemSusChem</i> , 2015, 8, 473-480.	6.8	28
41	Initiator-free hydrocarbon oxidation using supported gold nanoparticles. <i>Catalysis Science and Technology</i> , 2014, 4, 908-911.	4.1	24
42	The direct synthesis of hydrogen peroxide using platinum promoted goldâ€“palladium catalysts. <i>Catalysis Science and Technology</i> , 2014, 4, 3244-3250.	4.1	23
43	An Investigation of the Effect of the Addition of Tin to 5â€“Pd/TiO <sub>2</sub> for the Hydrogenation of Furfuryl Alcohol. <i>ChemCatChem</i> , 2015, 7, 2122-2129.	3.7	23
44	The selective oxidation of n-butanol to butyraldehyde by oxygen using stable Pt-based nanoparticulate catalysts: an efficient route for upgrading aqueous biobutanol. <i>Catalysis Science and Technology</i> , 2016, 6, 4201-4209.	4.1	23
45	The Role of Mg(OH) <sub>2</sub> in the Soâ€“Called â€œBaseâ€“Freeâ€“Oxidation of Glycerol with AuPd Catalysts. <i>Chemistry - A European Journal</i> , 2018, 24, 2396-2402.	3.3	23
46	Auâ€“Pd Coreâ€“Shell Nanoparticles as Alcohol Oxidation Catalysts: Effect of Shape and Composition. <i>ChemSusChem</i> , 2013, 6, 1858-1862.	6.8	21
47	Oxidation of Benzyl Alcohol using in Situ Generated Hydrogen Peroxide. <i>Organic Process Research and Development</i> , 2014, 18, 1455-1460.	2.7	21
48	Selective Hydrogenation of Levulinic Acid Using Ru/C Catalysts Prepared by Sol-Immobilisation. <i>Topics in Catalysis</i> , 2018, 61, 833-843.	2.8	21
49	The Effects of Dopants on the Cuâ€“ZrO <sub>2</sub> Catalyzed Hydrogenation of Levulinic Acid. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7879-7888.	3.1	21
50	An investigation of the effect of carbon support on ruthenium/carbon catalysts for lactic acid and butanone hydrogenation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17259-17264.	2.8	19
51	Cinnamyl alcohol oxidation using supported bimetallic Auâ€“Pd nanoparticles: an investigation of autoxidation and catalysis. <i>Catalysis Science and Technology</i> , 2018, 8, 2987-2997.	4.1	19
52	Solventâ€“free Liquidâ€“phase Oxidation of 1â€“Hexene using Supported Gold Catalysts. <i>ChemCatChem</i> , 2012, 4, 1565-1571.	3.7	18
53	The effect of ring size on the selective oxidation of cycloalkenes using supported metal catalysts. <i>Catalysis Science and Technology</i> , 2013, 3, 1531.	4.1	18
54	Oxidation of Aliphatic Alcohols by Using Precious Metals Supported on Hydrotalcite under Solventâ€“ and Baseâ€“Free Conditions. <i>ChemSusChem</i> , 2015, 8, 3314-3322.	6.8	18

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55	Oxidative Esterification of Homologous 1,3-Propanediols. <i>Catalysis Letters</i> , 2012, 142, 1114-1120.	2.6	15
56	Biotemplated synthesis of catalytic Au@Pd nanoparticles. <i>RSC Advances</i> , 2012, 2, 2217.	3.6	15
57	An investigation into bimetallic catalysts for base free oxidation of cellobiose and glucose. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2246-2253.	3.2	15
58	Heterogeneously catalyzed oxidation of butanediols in base free aqueous media. <i>Tetrahedron</i> , 2014, 70, 6055-6058.	1.9	14
59	A micropacked-bed multi-reactor system with in situ raman analysis for catalyst evaluation. <i>Catalysis Today</i> , 2017, 283, 195-201.	4.4	14
60	Enhancement in the rate of nitrate degradation on Au- and Ag-decorated TiO <sub>2</sub> photocatalysts. <i>Catalysis Science and Technology</i> , 2020, 10, 2082-2091.	4.1	14
61	Oxidative Carboxylation of 1-Decene to 1,2-Decylene Carbonate. <i>Topics in Catalysis</i> , 2018, 61, 509-518.	2.8	13
62	One pot microwave synthesis of highly stable AuPd@Pd supported core-shell nanoparticles. <i>Faraday Discussions</i> , 2018, 208, 409-425.	3.2	13
63	Solvent-free aerobic epoxidation of 1-decene using supported cobalt catalysts. <i>Catalysis Today</i> , 2019, 333, 154-160.	4.4	11
64	Physical mixing of metal acetates: optimisation of catalyst parameters to produce highly active bimetallic catalysts. <i>Catalysis Science and Technology</i> , 2013, 3, 2910.	4.1	10
65	Control of the selectivity in multi-functional group molecules using supported gold-palladium nanoparticles. <i>Green Chemistry</i> , 2013, 15, 1244.	9.0	10
66	Bicatalytic Multistep Reactions En route to the One-Pot Total Synthesis of Complex Molecules: Easy Access to Chromene and 1,2-Dihydroquinoline Derivatives from Simple Substrates. <i>ChemCatChem</i> , 2017, 9, 70-75.	3.7	10
67	Deactivation Behavior of Supported Gold Palladium Nanoalloy Catalysts during the Selective Oxidation of Benzyl Alcohol in a Micropacked Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 12984-12993.	3.7	9
68	Multifunctional supported bimetallic catalysts for a cascade reaction with hydrogen auto transfer: synthesis of 4-phenylbutan-2-ones from 4-methoxybenzyl alcohols. <i>Catalysis Science and Technology</i> , 2017, 7, 1928-1936.	4.1	9
69	Ni@Cu-ZrO <sub>2</sub> catalysts for the hydrogenation of levulinic acid to gamma valorlactone. <i>Journal of Lithic Studies</i> , 2018, 4, 12-23.	0.5	9
70	Cinnamyl Alcohol Oxidation Using Supported Bimetallic Au@Pd Nanoparticles: An Optimization of Metal Ratio and Investigation of the Deactivation Mechanism Under Autoxidation Conditions. <i>Topics in Catalysis</i> , 2020, 63, 99-112.	2.8	8
71	Ambient base-free glycerol oxidation over bimetallic PdFe/SiO <sub>2</sub> by in situ generated active oxygen species. <i>Research on Chemical Intermediates</i> , 2021, 47, 303-324.	2.7	6
72	Gold Nanoparticle-Based Catalysts for the Oxidative Esterification of 1,4-Butanediol into Dimethyl Succinate. <i>ChemSusChem</i> , 2013, 6, 1952-1958.	6.8	5

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73	Gold-Based Nanoparticulate Catalysts for the Oxidative Esterification of 1,4-Butanediol to Dimethyl Succinate. <i>Topics in Catalysis</i> , 2014, 57, 723-729.	2.8	5
74	Transfer hydrogenation of methyl levulinate with methanol to gamma valerolactone over Cu-ZrO <sub>2</sub> : A sustainable approach to liquid fuels. <i>Catalysis Communications</i> , 2022, 164, 106430.	3.3	5
75	Gold as a Catalyst for the Ring Opening of 2,5-Dimethylfuran. <i>Catalysis Letters</i> , 2018, 148, 2109-2116.	2.6	3
76	The effect of ring size on the selective carboxylation of cycloalkene oxides. <i>Catalysis Science and Technology</i> , 2017, 7, 1433-1439.	4.1	2
77	Three step synthesis of benzylacetone and 4-(4-methoxyphenyl)butan-2-one in flow using micropacked bed reactors. <i>Chemical Engineering Journal</i> , 2019, 377, 119976.	12.7	2
78	Precious Metals for Environmental Catalysis: Gold. , 2017, , 181-209.		0
79	The Over-Riding Role of Autocatalysis in Allylic Oxidation. <i>Catalysis Letters</i> , 0, , 1.	2.6	0