

Jennifer K Edwards

List of Publications by Year in descending order

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73
papers

7,662
citations

81900

39
h-index

82547

72
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76
all docs

76
docs citations

76
times ranked

6787
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent-Free Oxidation of Primary Alcohols to Aldehydes Using Au-Pd/TiO ₂ Catalysts. <i>Science</i> , 2006, 311, 362-365.	12.6	1,976
2	Switching Off Hydrogen Peroxide Hydrogenation in the Direct Synthesis Process. <i>Science</i> , 2009, 323, 1037-1041.	12.6	759
3	Palladium-tin catalysts for the direct synthesis of H ₂ O ₂ with high selectivity. <i>Science</i> , 2016, 351, 965-968.	12.6	465
4	Palladium and Goldâ€Palladium Catalysts for the Direct Synthesis of Hydrogen Peroxide. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9192-9198.	13.8	316
5	Direct Synthesis of H ₂ O ₂ from H ₂ and O ₂ over Gold, Palladium, and Goldâ€Palladium Catalysts Supported on Acidâ€Pretreated TiO ₂ . <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8512-8515.	13.8	210
6	Direct synthesis of hydrogen peroxide from H ₂ and O ₂ using supported Auâ€Pd catalysts. <i>Faraday Discussions</i> , 2008, 138, 225-239.	3.2	207
7	Direct Synthesis of Hydrogen Peroxide and Benzyl Alcohol Oxidation Using AuâPd Catalysts Prepared by Sol Immobilization. <i>Langmuir</i> , 2010, 26, 16568-16577.	3.5	201
8	Advances in the direct synthesis of hydrogen peroxide from hydrogen and oxygen. <i>Catalysis Today</i> , 2015, 248, 3-9.	4.4	189
9	Direct Synthesis of Hydrogen Peroxide from H ₂ and O ₂ Using Al ₂ O ₃ Supported AuâPd Catalysts. <i>Chemistry of Materials</i> , 2006, 18, 2689-2695.	6.7	183
10	Direct synthesis of hydrogen peroxide from H ₂ and O ₂ using AuâPd/Fe ₂ O ₃ catalysts. <i>Journal of Materials Chemistry</i> , 2005, 15, 4595.	6.7	180
11	Strategies for Designing Supported Goldâ€Palladium Bimetallic Catalysts for the Direct Synthesis of Hydrogen Peroxide. <i>Accounts of Chemical Research</i> , 2014, 47, 845-854.	15.6	179
12	AuâPd 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
13	AuâPd supported nanocrystals as catalysts for the direct synthesis of hydrogen peroxide from H ₂ and O ₂ . <i>Green Chemistry</i> , 2008, 10, 388-394.	9.0	131
14	Synthesis of Stable Ligand-free Goldâ€Palladium Nanoparticles Using a Simple Excess Anion Method. <i>ACS Nano</i> , 2012, 6, 6600-6613.	14.6	128
15	Energy dispersive X-ray spectroscopy of bimetallic nanoparticles in an aberration corrected scanning transmission electron microscope. <i>Faraday Discussions</i> , 2008, 138, 337-351.	3.2	109
16	The Direct Synthesis of Hydrogen Peroxide Using Platinumâ€Promoted Goldâ€Palladium Catalysts. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2381-2384.	13.8	104
17	Comparison of supports for the direct synthesis of hydrogen peroxide from H ₂ and O ₂ using AuâPd catalysts. <i>Catalysis Today</i> , 2007, 122, 397-402.	4.4	103
18	Solvent-free oxidation of benzyl alcohol with oxygen using zeolite-supported Au and AuâPd catalysts. <i>Catalysis Letters</i> , 2006, 110, 7-13.	2.6	98

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19	The effect of heat treatment on the performance and structure of carbon-supported Au-Pd catalysts for the direct synthesis of hydrogen peroxide. <i>Journal of Catalysis</i> , 2012, 292, 227-238.	6.2	94
20	Ruthenium Nanoparticles Supported on Carbon: An Active Catalyst for the Hydrogenation of Lactic Acid to 1,2-Propanediol. <i>ACS Catalysis</i> , 2015, 5, 5047-5059.	11.2	91
21	The role of the support in achieving high selectivity in the direct formation of hydrogen peroxide. <i>Green Chemistry</i> , 2008, 10, 1162.	9.0	89
22	The controlled catalytic oxidation of furfural to furoic acid using AuPd/Mg(OH) ₂ . <i>Catalysis Science and Technology</i> , 2017, 7, 5284-5293.	4.1	87
23	New approaches to designing selective oxidation catalysts: Au/C a versatile catalyst. <i>Topics in Catalysis</i> , 2006, 38, 223-230.	2.8	83
24	Oxidation of benzyl alcohol using supported gold-palladium nanoparticles. <i>Catalysis Today</i> , 2011, 163, 47-54.	4.4	73
25	A residue-free approach to water disinfection using catalytic in situ generation of reactive oxygen species. <i>Nature Catalysis</i> , 2021, 4, 575-585.	34.4	73
26	Effect of Halide and Acid Additives on the Direct Synthesis of Hydrogen Peroxide using Supported Gold-Palladium Catalysts. <i>ChemSusChem</i> , 2009, 2, 575-580.	6.8	68
27	Identification of the catalytically active component of Cu-Zr-O catalyst for the hydrogenation of levulinic acid to γ -valerolactone. <i>Green Chemistry</i> , 2017, 19, 225-236.	9.0	68
28	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
29	Effect of heat treatment on Au-Pd catalysts synthesized by sol immobilisation for the direct synthesis of hydrogen peroxide and benzyl alcohol oxidation. <i>Catalysis Science and Technology</i> , 2013, 3, 308-317.	4.1	64
30	The effect of catalyst preparation method on the performance of supported Au-Pd catalysts for the direct synthesis of hydrogen peroxide. <i>Green Chemistry</i> , 2010, 12, 915.	9.0	63
31	Highly efficient catalytic production of oximes from ketones using in situ-generated H ₂ O ₂ . <i>Science</i> , 2022, 376, 615-620.	12.6	63
32	Reactivity studies of Au-Pd supported nanoparticles for catalytic applications. <i>Applied Catalysis A: General</i> , 2011, 391, 400-406.	4.3	62
33	Direct synthesis of hydrogen peroxide using Au-Pd-exchanged and supported heteropolyacid catalysts at ambient temperature using water as solvent. <i>Green Chemistry</i> , 2012, 14, 170-181.	9.0	62
34	Population and hierarchy of active species in gold iron oxide catalysts for carbon monoxide oxidation. <i>Nature Communications</i> , 2016, 7, 12905.	12.8	62
35	Effect of the reaction conditions on the performance of Au-Pd/TiO ₂ catalyst for the direct synthesis of hydrogen peroxide. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2488.	2.8	58
36	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

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37	Effect of acid pre-treatment on AuPd/SiO ₂ catalysts for the direct synthesis of hydrogen peroxide. <i>Catalysis Science and Technology</i> , 2013, 3, 812-818.	4.1	45
38	Surface functionalized TiO ₂ supported Pd catalysts for solvent-free selective oxidation of benzyl alcohol. <i>Catalysis Today</i> , 2015, 250, 218-225.	4.4	45
39	The Direct Synthesis of H ₂ O ₂ Using TSâ€ Supported Catalysts. <i>ChemCatChem</i> , 2019, 11, 1673-1680.	3.7	42
40	Selective oxidation of benzyl alcohol using in situ generated H ₂ O ₂ over hierarchical Auâ€Pd titanium silicalite catalysts. <i>Catalysis Science and Technology</i> , 2013, 3, 2425.	4.1	39
41	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
42	Application of Gold Nanoparticles in Catalysis. <i>Frontiers of Nanoscience</i> , 2012, , 249-293.	0.6	36
43	Direct synthesis of hydrogen peroxide using Auâ€Pd supported and ion-exchanged heteropolyacids precipitated with various metal ions. <i>Catalysis Today</i> , 2015, 248, 10-17.	4.4	36
44	Understanding the effect of thermal treatments on the structure of CuAu/SiO ₂ catalysts and their performance in propene oxidation. <i>Catalysis Science and Technology</i> , 2011, 1, 76.	4.1	31
45	Supercritical antisolvent precipitation of TiO ₂ 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
46	Solid Acid Additives as Recoverable Promoters for the Direct Synthesis of Hydrogen Peroxide. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 13287-13293.	3.7	26
47	Influence of reaction conditions on the direct synthesis of hydrogen peroxide over AuPd/carbon catalysts. <i>Catalysis Science and Technology</i> , 2012, 2, 1908.	4.1	23
48	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
49	Nanocrystalline gold and goldâ€palladium as effective catalysts for selective oxidation. <i>Journal of Materials Research</i> , 2007, 22, 831-837.	2.6	22
50	Oxidation of Benzyl Alcohol using in Situ Generated Hydrogen Peroxide. <i>Organic Process Research and Development</i> , 2014, 18, 1455-1460.	2.7	21
51	The Effects of Dopants on the Cuâ€ZrO ₂ Catalyzed Hydrogenation of Levulinic Acid. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7879-7888.	3.1	21
52	Depressing the hydrogenation and decomposition reaction in H ₂ O ₂ synthesis by supporting AuPd on oxygen functionalized carbon nanofibers. <i>Catalysis Science and Technology</i> , 2016, 6, 694-697.	4.1	20
53	Direct Synthesis of Hydrogen Peroxide Using Cs-Containing Heteropolyacid-Supported Palladiumâ€Copper Catalysts. <i>Catalysis Letters</i> , 2019, 149, 998-1006.	2.6	19
54	Direct synthesis of hydrogen peroxide using ceria-supported gold and palladium catalysts. <i>Catalysis Today</i> , 2011, 178, 47-50.	4.4	18

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55	Silver- and palladium catalysts for the direct synthesis of hydrogen peroxide. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170058.	3.4	18
56	The direct synthesis of hydrogen peroxide from H ₂ and O ₂ using Pd-Ni/TiO ₂ catalysts. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20200062.	3.4	18
57	Gas phase stabiliser-free production of hydrogen peroxide using supported gold-palladium catalysts. <i>Chemical Science</i> , 2016, 7, 5833-5837.	7.4	16
58	The Influence of Reaction Conditions on the Oxidation of Cyclohexane via the In-Situ Production of H ₂ O ₂ . <i>Catalysis Letters</i> , 2021, 151, 164-171.	2.6	16
59	The Selective Oxidation of Cyclohexane via In-situ H ₂ O ₂ Production Over Supported Pd-based Catalysts. <i>Catalysis Letters</i> , 2021, 151, 2762-2774.	2.6	14
60	One pot microwave synthesis of highly stable AuPd@Pd supported core-shell nanoparticles. <i>Faraday Discussions</i> , 2018, 208, 409-425.	3.2	13
61	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
62	Bicatalytic Multistep Reactions – 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
63	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
64	Platinum Nanoparticle Inclusion into a Carbonized Polymer of Intrinsic Microporosity: Electrochemical Characteristics of a Catalyst for Electroless Hydrogen Peroxide Production. <i>Nanomaterials</i> , 2018, 8, 542.	4.1	8
65	Gold catalysis: helping create a sustainable future. <i>Applied Petrochemical Research</i> , 2012, 2, 7-14.	1.3	7
66	The direct synthesis of hydrogen peroxide using a combination of a hydrophobic solvent and water. <i>Catalysis Science and Technology</i> , 2020, 10, 8203-8212.	4.1	6
67	Ambient base-free glycerol oxidation over bimetallic PdFe/SiO ₂ by in situ generated active oxygen species. <i>Research on Chemical Intermediates</i> , 2021, 47, 303-324.	2.7	6
68	Impact of the Experimental Parameters on Catalytic Activity When Preparing Polymer Protected Bimetallic Nanoparticle Catalysts on Activated Carbon. <i>ACS Catalysis</i> , 2022, 12, 4440-4454.	11.2	6
69	Gold as a Catalyst for the Ring Opening of 2,5-Dimethylfuran. <i>Catalysis Letters</i> , 2018, 148, 2109-2116.	2.6	3
70	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
71	A Career in Catalysis: Graham J. Hutchings. <i>ACS Catalysis</i> , 2021, 11, 5916-5933.	11.2	2
72	Nanocrystalline gold and gold-palladium as effective catalysts for selective oxidation. <i>Materials Research Society Symposia Proceedings</i> , 2005, 900, 1.	0.1	0

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73	The Over-Riding Role of Autocatalysis in Allylic Oxidation. <i>Catalysis Letters</i> , 0, , 1.	2.6	0