Graham Hutchings

List of Publications by Citations

500 papers	34,112 citations	85 h-index	171 g-index
521 ext. papers	37,450 ext. citations	8.2 avg, IF	7.49 L-index

#	Paper	IF	Citations
500	Gold catalysis. *Angewandte Chemie - International Edition*, **2006**, 45, 7896-936	16.4	3063
499	Solvent-free oxidation of primary alcohols to aldehydes using Au-Pd/TiO2 catalysts. *Science*, **2006**, 311, 362-5	33.3	1811
498	Identification of active gold nanoclusters on iron oxide supports for CO oxidation. *Science*, **2008**, 321, 1331-5	33.3	1308
497	Tunable gold catalysts for selective hydrocarbon oxidation under mild conditions. *Nature*, **2005**, 437, 1132-5	50.4	888
496	Designing bimetallic catalysts for a green and sustainable future. *Chemical Society Reviews*, **2012**, 41, 8099-139	58.5	820
495	Gold-Katalyse. *Angewandte Chemie*, **2006**, 118, 8064-8105	3.6	815
494	Switching off hydrogen peroxide hydrogenation in the direct synthesis process. *Science*, **2009**, 323, 1037-41	33.3	629
493	Solvent-free oxidation of primary carbon-hydrogen bonds in toluene using Au-Pd alloy nanoparticles. *Science*, **2011**, 331, 195-9	33.3	624
492	Facile removal of stabilizer-ligands from supported gold nanoparticles. *Nature Chemistry*, **2011**, 3, 551-6	17.6	458
491	Selective oxidation of glycerol to glyceric acid using a gold catalyst in aqueous sodium hydroxide. *Chemical Communications*, **2002**, 696-7	5.8	456
490	Direct formation of hydrogen peroxide from H2/O2 using a gold catalyst. *Chemical Communications*, **2002**, 2058-9	5.8	453
489	Oxidation of glycerol using supported Pt, Pd and Au catalysts. *Physical Chemistry Chemical Physics*, **2003**, 5, 1329-1336	3.6	413
488	Direct catalytic conversion of methane to methanol in an aqueous medium by using copper-promoted Fe-ZSM-5. *Angewandte Chemie - International Edition*, **2012**, 51, 5129-33	16.4	376
487	Gold--an introductory perspective. *Chemical Society Reviews*, **2008**, 37, 1759-65	58.5	351
486	Direct synthesis of hydrogen peroxide from H2 and O2 using Pd and Au catalysts. *Physical Chemistry Chemical Physics*, **2003**, 5, 1917-1923	3.6	318
485	Palladium-tin catalysts for the direct synthesis of H□□ with high selectivity. *Science*, **2016**, 351, 965-8	33.3	314
484	Nanocrystalline gold and gold palladium alloy catalysts for chemical synthesis. *Chemical Communications*, **2008**, 1148-64	5.8	304

483	Catalysis by gold. *Catalysis Today*, **2005**, 100, 55-61	5.3	303
482	Oxidative coupling of methane using oxide catalysts. *Chemical Society Reviews*, **1989**, 18, 251	58.5	302
481	Aqueous Au-Pd colloids catalyze selective CH oxidation to CHOH with O under mild conditions. *Science*, **2017**, 358, 223-227	33.3	299
480	Role of gold cations in the oxidation of carbon monoxide catalyzed by iron oxide-supported gold. *Journal of Catalysis*, **2006**, 242, 71-81	7.3	289
479	Identification of single-site gold catalysis in acetylene hydrochlorination. *Science*, **2017**, 355, 1399-1403	33.3	285
478	Palladium and gold-palladium catalysts for the direct synthesis of hydrogen peroxide. *Angewandte Chemie - International Edition*, **2008**, 47, 9192-8	16.4	270
477	De novo design of structure-directing agents for the synthesis of microporous solids. *Nature*, **1996**, 382, 604-606	50.4	260
476	Mechanistic Aspects of the Formation of Hydrocarbons and Alcohols from CO Hydrogenation. *Catalysis Reviews - Science and Engineering*, **1993**, 35, 1-127	12.6	253
475	Designer titania-supported Au-Pd nanoparticles for efficient photocatalytic hydrogen production. *ACS Nano*, **2014**, 8, 3490-7	16.7	249
474	Pd/ZnO catalysts for direct CO2 hydrogenation to methanol. *Journal of Catalysis*, **2016**, 343, 133-146	7.3	248
473	Discovery, Development, and Commercialization of Gold Catalysts for Acetylene Hydrochlorination. *Journal of the American Chemical Society*, **2015**, 137, 14548-57	16.4	223
472	Glycerol oxidation using gold-containing catalysts. *Accounts of Chemical Research*, **2015**, 48, 1403-12	24.3	220
471	Selective oxidation of 5-hydroxymethyl-2-furfural using supported gold□copper nanoparticles. *Green Chemistry*, **2011**, 13, 2091	10	210
470	Selective liquid phase oxidation with supported metal nanoparticles. *Chemical Science*, **2012**, 3, 20-44	9.4	201
469	Uranium-oxide-based catalysts for the destruction of volatile chloro-organic compounds. *Nature*, **1996**, 384, 341-343	50.4	201
468	Selective oxidation of glycerol by highly active bimetallic catalysts at ambient temperature under base-free conditions. *Angewandte Chemie - International Edition*, **2011**, 50, 10136-9	16.4	196
467	Oxidation of Glycerol Using Supported Gold Catalysts. *Topics in Catalysis*, **2004**, 27, 131-136	2.3	193
466	Hydrochlorination of acetylene using gold catalysts: A study of catalyst deactivation. *Journal of Catalysis*, **1991**, 128, 366-377	7.3	191

465	Hydrochlorination of acetylene using carbon-supported gold catalysts: A study of catalyst reactivation. *Journal of Catalysis*, **1991**, 128, 378-386	7.3	189
464	Direct synthesis of H(2)O(2) from H(2) and O(2) over gold, palladium, and gold-palladium catalysts supported on acid-pretreated TiO(2). *Angewandte Chemie - International Edition*, **2009**, 48, 8512-5	16.4	187
463	Direct synthesis of hydrogen peroxide and benzyl alcohol oxidation using Au-Pd catalysts prepared by sol immobilization. *Langmuir*, **2010**, 26, 16568-77	4	185
462	Direct synthesis of hydrogen peroxide from H2 and O2 using supported Au-Pd catalysts. *Faraday Discussions*, **2008**, 138, 225-39; discussion 317-35, 433-4	3.6	184
461	Solvent-free Oxidation of Primary Alcohols to Aldehydes using Supported Gold Catalysts. *Catalysis Letters*, **2005**, 103, 43-52	2.8	179
460	Role of the product in the transformation of a catalyst to its active state. *Nature*, **1994**, 368, 41-45	50.4	173
459	Direct Synthesis of Hydrogen Peroxide from H2and O2Using Al2O3Supported AuPd Catalysts. *Chemistry of Materials*, **2006**, 18, 2689-2695	9.6	171
458	Oxidation of methane to methanol with hydrogen peroxide using supported gold-palladium alloy nanoparticles. *Angewandte Chemie - International Edition*, **2013**, 52, 1280-4	16.4	169
457	Hydrochlorination of acetylene using supported bimetallic Au-based catalysts. *Journal of Catalysis*, **2008**, 257, 190-198	7.3	168
456	Direct synthesis of hydrogen peroxide from H2 and O2 using AuPd/Fe2O3 catalysts. *Journal of Materials Chemistry*, **2005**, 15, 4595		168
455	A Comparison of the Adsorption and Diffusion of Hydrogen on the {111} Surfaces of Ni, Pd, and Pt from Density Functional Theory Calculations. *Journal of Physical Chemistry B*, **2001**, 105, 4889-4894	3.4	168
454	Strategies for the synthesis of supported gold palladium nanoparticles with controlled morphology and composition. *Accounts of Chemical Research*, **2013**, 46, 1759-72	24.3	155
453	Reactivation of a supported gold catalyst for acetylene hydrochlorination. *Journal of the Chemical Society Chemical Communications*, **1988**, 71		151
452	Modified zeolite ZSM-5 for the methanol to aromatics reaction. *Catalysis Science and Technology*, **2012**, 2, 105-112	5.5	149
451	Strategies for designing supported gold-palladium bimetallic catalysts for the direct synthesis of hydrogen peroxide. *Accounts of Chemical Research*, **2014**, 47, 845-54	24.3	147
450	Advances in the direct synthesis of hydrogen peroxide from hydrogen and oxygen. *Catalysis Today*, **2015**, 248, 3-9	5.3	142
449	Solvent free liquid phase oxidation of benzyl alcohol using Au supported catalysts prepared using a sol immobilization technique. *Catalysis Today*, **2007**, 122, 317-324	5.3	141
448	Oxidation of glycerol using gold-palladium alloy-supported nanocrystals. *Physical Chemistry Chemical Physics*, **2009**, 11, 4952-61	3.6	137

447	The benzaldehyde oxidation paradox explained by the interception of peroxy radical by benzyl alcohol. *Nature Communications*, **2014**, 5, 3332	17.4	135
446	Catalysis: A golden future **1996**, 29, 123-130		132
445	Role of the Support in Gold-Containing Nanoparticles as Heterogeneous Catalysts. *Chemical Reviews*, **2020**, 120, 3890-3938	68.1	131
444	Au-Pd supported nanocrystals prepared by a sol immobilisation technique as catalysts for selective chemical synthesis. *Physical Chemistry Chemical Physics*, **2008**, 10, 1921-30	3.6	130
443	Aqua regia activated Au/C catalysts for the hydrochlorination of acetylene. *Journal of Catalysis*, **2013**, 297, 128-136	7.3	123
442	Oxidation of alcohols using supported gold and gold palladium nanoparticles. *Faraday Discussions*, **2010**, 145, 341-356	3.6	123
441	Solvent-free oxidation of benzyl alcohol using Au-Pd catalysts prepared by sol immobilisation. *Physical Chemistry Chemical Physics*, **2009**, 11, 5142-53	3.6	119
440	AuPd supported nanocrystals as catalysts for the direct synthesis of hydrogen peroxide from H2 and O2. *Green Chemistry*, **2008**, 10, 388-394	10	118
439	Heterogeneous catalysts discovery and design. *Journal of Materials Chemistry*, **2009**, 19, 1222-1235		117
438	Synthesis of stable ligand-free gold-palladium nanoparticles using a simple excess anion method. *ACS Nano*, **2012**, 6, 6600-13	16.7	114
437	New directions in gold catalysis **2004**, 37, 3-11		110
436	Hydrocarbon formation from methanol and dimethyl ether: a review of the experimental observations concerning the mechanism of formation of the primary products. *Catalysis Today*, **1990**, 6, 279-306	5.3	109
435	Aerobic oxidations in flow: opportunities for the fine chemicals and pharmaceuticals industries. *Reaction Chemistry and Engineering*, **2016**, 1, 595-612	4.9	109
434	Characterisation of gold catalysts. *Chemical Society Reviews*, **2016**, 45, 4953-94	58.5	107
433	Vanadium phosphate: a new look at the active components of catalysts for the oxidation of butane to maleic anhydride. *Journal of Materials Chemistry*, **2004**, 14, 3385		102
432	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	13.1	101
431	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, 63-86; discussion 99-120	3.6	101
430	Stable amorphous georgeite as a precursor to a high-activity catalyst. *Nature*, **2016**, 531, 83-7	50.4	100

429	Energy dispersive X-ray spectroscopy of bimetallic nanoparticles in an aberration corrected scanning transmission electron microscope. *Faraday Discussions*, **2008**, 138, 337-51; discussion 421-34	3.6	98
428	Solvent-free oxidation of benzyl alcohol using titania-supported gold–palladium catalysts: Effect of Au–Pd ratio on catalytic performance. *Catalysis Today*, **2007**, 122, 407-411	5.3	96
427	Comparison of supports for the direct synthesis of hydrogen peroxide from H2 and O2 using Au–Pd catalysts. *Catalysis Today*, **2007**, 122, 397-402	5.3	95
426	Rubidium- and caesium-doped silicotungstic acid catalysts supported on alumina for the catalytic dehydration of glycerol to acrolein. *Journal of Catalysis*, **2012**, 286, 206-213	7.3	94
425	Controlling the duality of the mechanism in liquid-phase oxidation of benzyl alcohol catalysed by supported Au-Pd nanoparticles. *Chemistry - A European Journal*, **2011**, 17, 6524-32	4.8	94
424	Reactivation of a Carbon-supported Gold Catalyst for the Hydrochlorination of Acetylene. *Catalysis Letters*, **2008**, 124, 165-167	2.8	93
423	Solvent-free oxidation of benzyl alcohol with oxygen using zeolite-supported Au and Au–Pd catalysts. *Catalysis Letters*, **2006**, 110, 7-13	2.8	92
422	Tuning of catalytic sites in Pt/TiO2 catalysts for the chemoselective hydrogenation of 3-nitrostyrene. *Nature Catalysis*, **2019**, 2, 873-881	36.5	91
421	Selective formation of lactate by oxidation of 1,2-propanediol using gold palladium alloy supported nanocrystals. *Green Chemistry*, **2009**, 11, 1209	10	89
420	Recent Advances in the Direct Synthesis of H2O2. *ChemCatChem*, **2019**, 11, 298-308	5.2	88
419	Modifications of the metal and support during the deactivation and regeneration of Au/C catalysts for the hydrochlorination of acetylene. *Catalysis Science and Technology*, **2013**, 3, 128-134	5.5	87
418	The direct synthesis of hydrogen peroxide using platinum-promoted gold-palladium catalysts. *Angewandte Chemie - International Edition*, **2014**, 53, 2381-4	16.4	86
417	Continuous selective oxidation of methane to methanol over Cu- and Fe-modified ZSM-5 catalysts in a flow reactor. *Catalysis Today*, **2016**, 270, 93-100	5.3	85
416	Catalytic and mechanistic insights of the low-temperature selective oxidation of methane over Cu-promoted Fe-ZSM-5. *Chemistry - A European Journal*, **2012**, 18, 15735-45	4.8	85
415	Selective oxidation of CO in the presence of H2, H2O and CO2 utilising Au/–Fe2O3 catalysts for use in fuel cells. *Journal of Materials Chemistry*, **2006**, 16, 199-208		84
414	Au-Pd nanoalloys supported on Mg-Al mixed metal oxides as a multifunctional catalyst for solvent-free oxidation of benzyl alcohol. *Dalton Transactions*, **2013**, 42, 14498-508	4.3	83
413	Heterogeneous enantioselective catalyzed carbonyl- and imino-ene reactions using copper bis(oxazoline) zeolite Y. *Angewandte Chemie - International Edition*, **2004**, 43, 1685-8	16.4	83
412	Ceria prepared using supercritical antisolvent precipitation: a green support for gold–palladium nanoparticles for the selective catalytic oxidation of alcohols. *Journal of Materials Chemistry*, **2009**, 19, 8619		82

411	Aqueous-Phase Methane Oxidation over Fe-MFI Zeolites; Promotion through Isomorphous Framework Substitution. *ACS Catalysis*, **2013**, 3, 1835-1844	13.1	79
410	The role of the support in achieving high selectivity in the direct formation of hydrogen peroxide. *Green Chemistry*, **2008**, 10, 1162	10	78
409	Efficient green methanol synthesis from glycerol. *Nature Chemistry*, **2015**, 7, 1028-32	17.6	77
408	Effect of Reaction Conditions on the Direct Synthesis of Hydrogen Peroxide with a AuPd/TiO2 Catalyst in a Flow Reactor. *ACS Catalysis*, **2013**, 3, 487-501	13.1	77
407	Low-temperature redox activity in co-precipitated catalysts: a comparison between gold and platinum-group metals. *Catalysis Today*, **2002**, 72, 107-113	5.3	77
406	Studies of the role of the copper promoter in the iron oxide/chromia high temperature water gas shift catalyst. *Physical Chemistry Chemical Physics*, **2003**, 5, 2719	3.6	77
405	New approaches to designing selective oxidation catalysts: Au/C a versatile catalyst. *Topics in Catalysis*, **2006**, 38, 223-230	2.3	75
404	Selective conversion of cyclohexane to cyclohexanol and cyclohexanone using a gold catalyst under mild conditions. *Catalysis Letters*, **2005**, 101, 175-179	2.8	75
403	Microstructural Development and Catalytic Performance of AuPd Nanoparticles on Al2O3 Supports: The Effect of Heat Treatment Temperature and Atmosphere. *Chemistry of Materials*, **2008**, 20, 1492-1501	9.6	74
402	Electrocatalytic synthesis of hydrogen peroxide on Au-Pd nanoparticles: From fundamentals to continuous production. *Chemical Physics Letters*, **2017**, 683, 436-442	2.5	73
401	Direct Catalytic Conversion of Methane to Methanol in an Aqueous Medium by using Copper-Promoted Fe-ZSM-5. *Angewandte Chemie*, **2012**, 124, 5219-5223	3.6	73
400	Ruthenium Nanoparticles Supported on Carbon: An Active Catalyst for the Hydrogenation of Lactic Acid to 1,2-Propanediol. *ACS Catalysis*, **2015**, 5, 5047-5059	13.1	72
399	Oxidation of glycerol to glycolate by using supported gold and palladium nanoparticles. *ChemSusChem*, **2009**, 2, 1145-51	8.3	72
398	Oxidation of benzyl alcohol using supported gold–palladium nanoparticles. *Catalysis Today*, **2011**, 163, 47-54	5.3	71
397	Green Catalysis with Alternative Feedstocks. *Topics in Catalysis*, **2009**, 52, 258-268	2.3	71
396	Co-precipitated copper zinc oxide catalysts for ambient temperature carbon monoxide oxidation: effect of precipitate ageing on catalyst activity. *Physical Chemistry Chemical Physics*, **2002**, 4, 5915-5920	3.6	71
395	Ambient temperature CO oxidation using copper manganese oxide catalysts prepared by coprecipitation: effect of ageing on catalyst performance. *Catalysis Letters*, **1996**, 42, 21-24	2.8	71
394	Oxidation of glycerol with hydrogen peroxide using silicalite and aluminophosphate catalysts. *Catalysis Letters*, **1999**, 63, 193-197	2.8	70

393	Methyl Formate Formation from Methanol Oxidation Using Supported Gold–Palladium Nanoparticles. *ACS Catalysis*, **2015**, 5, 637-644	13.1	69
392	Control of product selectivity in the partial oxidation of methane. *Nature*, **1990**, 348, 428-429	50.4	69
391	Selective Oxidation of Methane to Methanol Using Supported AuPd Catalysts Prepared by Stabilizer-Free Sol-Immobilization. *ACS Catalysis*, **2018**, 8, 2567-2576	13.1	68
390	Characterization of Au3+ Species in Au/C Catalysts for the Hydrochlorination Reaction of Acetylene. *Catalysis Letters*, **2014**, 144, 1-8	2.8	68
389	Copper manganese oxide catalysts for ambient temperature carbon monoxide oxidation: Effect of calcination on activity. *Journal of Molecular Catalysis A*, **2009**, 305, 121-124		68
388	Catalytic asymmetric heterogeneous aziridination of styrene using CuHY: effect of nitrene donor on enantioselectivity. *Perkin Transactions II RSC*, **2001**, 1714-1723		68
387	Oxidation of benzyl alcohol using supported gold–palladium nanoparticles. *Catalysis Today*, **2011**, 164, 315-319	5.3	67
386	Tailoring the selectivity of glycerol oxidation by tuning the acid–base properties of Au catalysts. *Catalysis Science and Technology*, **2015**, 5, 1126-1132	5.5	65
385	Partial oxidation of ethane to oxygenates using Fe- and Cu-containing ZSM-5. *Journal of the American Chemical Society*, **2013**, 135, 11087-99	16.4	65
384	Nanocrystalline gold and gold-palladium alloy oxidation catalysts: a personal reflection on the nature of the active sites. *Dalton Transactions*, **2008**, 5523-36	4.3	64
383	Enantioselective epoxidation of (Z)-stilbene using a chiral Mn(III)–salen complex: effect of immobilisation on MCM-41 on product selectivity. *Perkin Transactions II RSC*, **2000**, 2008-2015		64
382	Reaction and Raman spectroscopic studies of alcohol oxidation on gold–palladium catalysts in microstructured reactors. *Chemical Engineering Journal*, **2011**, 167, 734-743	14.7	63
381	Redispersion of Gold Supported on Oxides. *ACS Catalysis*, **2012**, 2, 552-560	13.1	62
380	Base-free oxidation of glycerol using titania-supported trimetallic Au–Pd–Pt nanoparticles. *ChemSusChem*, **2014**, 7, 1326-34	8.3	61
379	The effect of catalyst preparation method on the performance of supported Au–Pd catalysts for the direct synthesis of hydrogen peroxide. *Green Chemistry*, **2010**, 12, 915	10	60
378	Effect of halide and acid additives on the direct synthesis of hydrogen peroxide using supported gold-palladium catalysts. *ChemSusChem*, **2009**, 2, 575-80	8.3	60
377	Synergy and Anti-Synergy between Palladium and Gold in Nanoparticles Dispersed on a Reducible Support. *ACS Catalysis*, **2016**, 6, 6623-6633	13.1	59
376	Heterogeneous Gold Catalysis. *ACS Central Science*, **2018**, 4, 1095-1101	16.8	59

375	Base-free glucose oxidation using air with supported gold catalysts. *Green Chemistry*, **2014**, 16, 3132-3141	10	59
374	Ambient temperature carbon monoxide oxidation using copper manganese oxide catalysts: Effect of residual Na+ acting as catalyst poison. *Catalysis Communications*, **2003**, 4, 17-20	3.2	59
373	GoldPalladium Bimetallic Catalyst Stability: Consequences for Hydrogen Peroxide Selectivity. *ACS Catalysis*, **2017**, 7, 5699-5705	13.1	58
372	PdZn catalysts for CO hydrogenation to methanol using chemical vapour impregnation (CVI). *Faraday Discussions*, **2017**, 197, 309-324	3.6	58
371	High-activity Au/CuOZnO catalysts for the oxidation ofcarbon monoxide at ambient temperature. *Journal of the Chemical Society, Faraday Transactions*, **1997**, 93, 187-188		58
370	Direct synthesis of hydrogen peroxide from H2 and O2 and in situ oxidation using zeolite-supported catalysts. *Catalysis Communications*, **2007**, 8, 247-250	3.2	57
369	Investigation of the active species in the carbon-supported gold catalyst for acetylene hydrochlorination. *Catalysis Science and Technology*, **2016**, 6, 5144-5153	5.5	56
368	Direct synthesis of hydrogen peroxide from H2 and O2 using zeolite-supported Au-Pd catalysts. *Catalysis Today*, **2007**, 122, 361-364	5.3	56
367	Effect of heat treatment on AuPd catalysts synthesized by sol immobilisation for the direct synthesis of hydrogen peroxide and benzyl alcohol oxidation. *Catalysis Science and Technology*, **2013**, 3, 308-317	5.5	55
366	Direct synthesis of hydrogen peroxide using AuPd-exchanged and supported heteropolyacid catalysts at ambient temperature using water as solvent. *Green Chemistry*, **2012**, 14, 170-181	10	55
365	Switching-off toluene formation in the solvent-free oxidation of benzyl alcohol using supported trimetallic Au-Pd-Pt nanoparticles. *Faraday Discussions*, **2013**, 162, 365-78	3.6	55
364	Solvent-free selective epoxidation of cyclooctene using supported gold catalysts. *Green Chemistry*, **2009**, 11, 1037	10	55
363	Effect of the reaction conditions on the performance of Au-Pd/TiO(2) catalyst for the direct synthesis of hydrogen peroxide. *Physical Chemistry Chemical Physics*, **2010**, 12, 2488-92	3.6	54
362	Promotion in Heterogeneous Catalysis: A Topic Requiring a New Approach?. *Catalysis Letters*, **2001**, 75, 1-12	2.8	54
361	Identification of the catalytically active component of CuZrO catalyst for the hydrogenation of levulinic acid to valerolactone. *Green Chemistry*, **2017**, 19, 225-236	10	53
360	Enhanced selective glycerol oxidation in multiphase structured reactors. *Catalysis Today*, **2009**, 145, 169-175	5.3	53
359	Catalytic asymmetric epoxidation of stilbene using a chiral salen complex immobilized in Mn-exchanged Al-MCM-41. *Perkin Transactions II RSC*, **2000**, 143-148		53
358	Elucidating the Role of CO2 in the Soft Oxidative Dehydrogenation of Propane over Ceria-Based Catalysts. *ACS Catalysis*, **2018**, 8, 3454-3468	13.1	52

357	Selective suppression of disproportionation reaction in solvent-less benzyl alcohol oxidation catalysed by supported AuPd nanoparticles. *Catalysis Today*, **2013**, 203, 146-152	5.3	52
356	The selective oxidation of 1,2-propanediol to lactic acid using mild conditions and gold-based nanoparticulate catalysts. *Catalysis Today*, **2013**, 203, 139-145	5.3	51
355	Cyclohexane oxidation using Au/MgO: an investigation of the reaction mechanism. *Physical Chemistry Chemical Physics*, **2012**, 14, 16279-85	3.6	51
354	Reactivity of Ga2O3 Clusters on Zeolite ZSM-5 for the Conversion of Methanol to Aromatics. *Catalysis Letters*, **2012**, 142, 1049-1056	2.8	51
353	The effect of heat treatment on phase formation of copper manganese oxide: Influence on catalytic activity for ambient temperature carbon monoxide oxidation. *Journal of Catalysis*, **2011**, 281, 279-289	7.3	51
352	Selective Oxidation of Glycerol by Highly Active Bimetallic Catalysts at Ambient Temperature under Base-Free Conditions. *Angewandte Chemie*, **2011**, 123, 10318-10321	3.6	51
351	Population and hierarchy of active species in gold iron oxide catalysts for carbon monoxide oxidation. *Nature Communications*, **2016**, 7, 12905	17.4	50
350	Conversion of furfuryl alcohol into 2-methylfuran at room temperature using Pd/TiO2 catalyst. *Catalysis Science and Technology*, **2014**, 4, 2280-2286	5.5	49
349	The controlled catalytic oxidation of furfural to furoic acid using AuPd/Mg(OH)2. *Catalysis Science and Technology*, **2017**, 7, 5284-5293	5.5	49
348	Solvent-free selective epoxidation of cyclooctene using supported gold catalysts: an investigation of catalyst re-use. *Green Chemistry*, **2011**, 13, 127-134	10	49
347	Efficient Elimination of Chlorinated Organics on a Phosphoric Acid Modified CeO Catalyst: A Hydrolytic Destruction Route. *Environmental Science & Technology*, **2019**, 53, 12697-12705	10.3	48
346	Gold Catalysis: A Reflection on Where We are Now. *Catalysis Letters*, **2015**, 145, 71-79	2.8	48
345	Direct synthesis of hydrogen peroxide from H2 and O2 using zeolite-supported Au catalysts. *Catalysis Today*, **2006**, 114, 369-371	5.3	47
344	Facile synthesis of precious-metal single-site catalysts using organic solvents. *Nature Chemistry*, **2020**, 12, 560-567	17.6	46
343	Acetylene hydrochlorination using Au/carbon: a journey towards single site catalysis. *Chemical Communications*, **2017**, 53, 11733-11746	5.8	46
342	Au/ZnO and Au/Fe2O3 catalysts for CO oxidation at ambient temperature: comments on the effect of synthesis conditions on the preparation of high activity catalysts prepared by coprecipitation. *Topics in Catalysis*, **2007**, 44, 123-128	2.3	46
341	HETEROGENEOUS ASYMMETRIC CATALYSTS: Strategies for Achieving High Enantioselection. *Annual Review of Materials Research*, **2005**, 35, 143-166	12.8	46
340	Heterogeneous Enantioselective Synthesis of a Dihydropyran Using Cu-Exchanged Microporous and Mesoporous Materials Modified by Bis(oxazoline). *Catalysis Letters*, **2003**, 91, 145-148	2.8	46

339	Deactivation of a Single-Site Gold-on-Carbon Acetylene Hydrochlorination Catalyst: An X-ray Absorption and Inelastic Neutron Scattering Study. *ACS Catalysis*, **2018**, 8, 8493-8505	13.1	43
338	Oxidation of Methane to Methanol with Hydrogen Peroxide Using Supported Gold–Palladium Alloy Nanoparticles. *Angewandte Chemie*, **2013**, 125, 1318-1322	3.6	43
337	Gold, palladium and gold–palladium supported nanoparticles for the synthesis of glycerol carbonate from glycerol and urea. *Catalysis Science and Technology*, **2012**, 2, 1914	5.5	43
336	Base-free oxidation of glucose to gluconic acid using supported gold catalysts. *Catalysis Science and Technology*, **2016**, 6, 107-117	5.5	42
335	Low temperature selective oxidation of methane to methanol using titania supported gold palladium copper catalysts. *Catalysis Science and Technology*, **2016**, 6, 3410-3418	5.5	42
334	Synthesis of high surface area CuMn2O4 by supercritical anti-solvent precipitation for the oxidation of CO at ambient temperature. *Catalysis Science and Technology*, **2011**, 1, 740	5.5	42
333	Mechanistic Insight into the Interaction Between a Titanium Dioxide Photocatalyst and Pd Cocatalyst for Improved Photocatalytic Performance. *ACS Catalysis*, **2016**, 6, 4239-4247	13.1	41
332	Effect of acid pre-treatment on AuPd/SiO2 catalysts for the direct synthesis of hydrogen peroxide. *Catalysis Science and Technology*, **2013**, 3, 812-818	5.5	41
331	Understanding the solvent effect on the catalytic oxidation of 1,4-butanediol in methanol over Au/TiO2 catalyst: NMR diffusion and relaxation studies. *Chemistry - A European Journal*, **2012**, 18, 14426-33	4.8	40
330	Solvent effect and reactivity trend in the aerobic oxidation of 1,3-propanediols over gold supported on titania: NMR diffusion and relaxation studies. *Chemistry - A European Journal*, **2013**, 19, 11725-32	4.8	40
329	Hydrodynamic effects on three phase micro-packed bed reactor performance – Gold–palladium catalysed benzyl alcohol oxidation. *Chemical Engineering Science*, **2016**, 149, 129-142	4.4	40
328	On the development of kinetic models for solvent-free benzyl alcohol oxidation over a gold-palladium catalyst. *Chemical Engineering Journal*, **2018**, 342, 196-210	14.7	40
327	Light alkane oxidation using catalysts prepared by chemical vapour impregnation: tuning alcohol selectivity through catalyst pre-treatment. *Chemical Science*, **2014**, 5, 3603-3616	9.4	39
326	Green preparation of transition metal oxide catalysts using supercritical CO2 anti-solvent precipitation for the total oxidation of propane. *Applied Catalysis B: Environmental*, **2013**, 140-141, 671-679	21.8	39
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