Graham Hutchings

List of Publications by Year in Descending Order

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	Au-Pd Separation Enhances Bimetallic Catalysis of Alcohol Oxidation.. *Nature*, **2022**,	50.4	11
499	Iron-chromium mixed metal oxides catalyse the oxidative dehydrogenation of propane using carbon dioxide. *Catalysis Communications*, **2022**, 162, 106383	3.2	1
498	Transfer hydrogenation of methyl levulinate with methanol to gamma valerolactone over Cu-ZrO2: A sustainable approach to liquid fuels. *Catalysis Communications*, **2022**, 164, 106430	3.2	2
497	The Critical Role of PdZn Alloy in Pd/ZnO Catalysts for the Hydrogenation of Carbon Dioxide to Methanol.. *ACS Catalysis*, **2022**, 12, 5371-5379	13.1	2
496	Analysing the relationship between the fields of thermo- and electrocatalysis taking hydrogen peroxide as a case study.. *Nature Communications*, **2022**, 13, 1973	17.4	1
495	The Selective Oxidation of Methane to Oxygenates Using Heterogeneous Catalysts **2022**, 183-201		
494	Highly efficient catalytic production of oximes from ketones using in situ-generated HO.. *Science*, **2022**, 376, 615-620	33.3	6
493	The degradation of phenol via in situ H2O2 production over supported Pd-based catalysts. *Catalysis Science and Technology*, **2021**, 11, 7866-7874	5.5	3
492	Gas Phase Glycerol Valorization over Ceria Nanostructures with Well-Defined Morphologies. *ACS Catalysis*, **2021**, 11, 4893-4907	13.1	3
491	Enhanced photocatalytic degradation of organic pollutants and hydrogen production by a visible light□esponsive Bi2WO6/ZnIn2S4 heterojunction. *Applied Surface Science*, **2021**, 544, 148885	6.7	30
490	LanCLs add glutathione to dehydroamino acids generated at phosphorylated sites in the proteome. *Cell*, **2021**, 184, 2680-2695.e26	56.2	6
489	Methane Oxidation to Methanol in Water. *Accounts of Chemical Research*, **2021**, 54, 2614-2623	24.3	18
488	The Influence of Reaction Conditions on the Oxidation of Cyclohexane via the In-Situ Production of H2O2. *Catalysis Letters*, **2021**, 151, 164-171	2.8	9
487	A combined periodic DFT and QM/MM approach to understand the radical mechanism of the catalytic production of methanol from glycerol. *Faraday Discussions*, **2021**, 229, 108-130	3.6	0
486	Controlling product selectivity with nanoparticle composition in tandem chemo-biocatalytic styrene oxidation. *Green Chemistry*, **2021**, 23, 4170-4180	10	
485	Coordinately unsaturated O2c□Ti5c□O2c sites promote the reactivity of Pt/TiO2 catalysts in the solvent-free oxidation of n-octanol. *Catalysis Science and Technology*, **2021**, 11, 4898-4910	5.5	4
484	Identification of C-C products from CO hydrogenation over PdZn/TiO-ZSM-5 hybrid catalysts. *Faraday Discussions*, **2021**, 230, 52-67	3.6	

483	Spiers Memorial Lecture: Understanding reaction mechanisms in heterogeneously catalysed reactions. *Faraday Discussions*, **2021**, 229, 9-34	3.6	3
482	Ambient base-free glycerol oxidation over bimetallic PdFe/SiO2 by in situ generated active oxygen species. *Research on Chemical Intermediates*, **2021**, 47, 303-324	2.8	5
481	The Selective Oxidation of Cyclohexane via In-situ H2O2 Production Over Supported Pd-based Catalysts. *Catalysis Letters*, **2021**, 151, 2762-2774	2.8	6
480	Controlled reduction of aromaticity of alkylated polyaromatic compounds by selective oxidation using H2WO4, H3PO4 and H2O2: a route for upgrading heavy oil fractions. *New Journal of Chemistry*, **2021**, 45, 13885-13892	3.6	0
479	Sulfur Promotion in Au/C Catalyzed Acetylene Hydrochlorination. *Small*, **2021**, 17, e2007221	11	7
478	Enhanced Selective Oxidation of Benzyl Alcohol via In Situ H2O2 Production over Supported Pd-Based Catalysts. *ACS Catalysis*, **2021**, 11, 2701-2714	13.1	26
477	Influence of Stabilizers on the Performance of Au/TiO2 Catalysts for CO Oxidation. *ACS Catalysis*, **2021**, 11, 11607-11615	13.1	4
476	Improving the performance of Pd based catalysts for the direct synthesis of hydrogen peroxide via acid incorporation during catalyst synthesis. *Catalysis Communications*, **2021**, 161, 106358	3.2	1
475	A Perspective on Heterogeneous Catalysts for the Selective Oxidation of Alcohols. *Chemistry - A European Journal*, **2021**, 27, 16809-16833	4.8	8
474	Ambient Temperature CO Oxidation Using Palladium–Platinum Bimetallic Catalysts Supported on Tin Oxide/Alumina. *Catalysts*, **2020**, 10, 1223	4	1
473	Gas-Phase Deposition of Gold Nanoclusters to Produce Heterogeneous Glycerol Oxidation Catalysts. *ACS Applied Nano Materials*, **2020**, 3, 4997-5001	5.6	3
472	The effect of T-atom ratio and TPAOH concentration on the pore structure and titanium position in MFI-Type titanosilicate during dissolution-recrystallization process. *Microporous and Mesoporous Materials*, **2020**, 305, 110397	5.3	10
471	Adipic acid formation from cyclohexanediol using platinum and vanadium catalysts: elucidating the role of homogeneous vanadium species. *Catalysis Science and Technology*, **2020**, 10, 4210-4218	5.5	5
470	Probing composition distributions in nanoalloy catalysts with correlative electron microscopy. *Journal of Materials Chemistry A*, **2020**, 8, 15725-15733	13	3
469	Role of the Support in Gold-Containing Nanoparticles as Heterogeneous Catalysts. *Chemical Reviews*, **2020**, 120, 3890-3938	68.1	131
468	Enhancement in the rate of nitrate degradation on Au- and Ag-decorated TiO2 photocatalysts. *Catalysis Science and Technology*, **2020**, 10, 2082-2091	5.5	6
467	Ammonia Decomposition Enhancement by Cs-Promoted Fe/Al2O3 Catalysts. *Catalysis Letters*, **2020**, 150, 3369-3376	2.8	5
466	K-edge X-ray absorption spectroscopy of the ligand environment of single-site Au/C catalysts during acetylene hydrochlorination. *Chemical Science*, **2020**, 11, 7040-7052	9.4	13

465	Enhanced catalyst selectivity in the direct synthesis of H2O2 through Pt incorporation into TiO2 supported AuPd catalysts. *Catalysis Science and Technology*, **2020**, 10, 4635-4644	5.5	15
464	Inhibiting the Dealkylation of Basic Arenes during n-Alkane Direct Aromatization Reactions and Understanding the C6 Ring Closure Mechanism. *ACS Catalysis*, **2020**, 10, 8428-8443	13.1	9
463	The direct synthesis of hydrogen peroxide from H2 and O2 using Pd□a and Pd□h catalysts. *Catalysis Science and Technology*, **2020**, 10, 1925-1932	5.5	18
462	Synchrotron Radiation and Catalytic Science. *Synchrotron Radiation News*, **2020**, 33, 10-14	0.6	1
461	Seed- and solvent-free synthesis of ZSM-5 with tuneable Si/Al ratios for biomass hydrogenation. *Green Chemistry*, **2020**, 22, 1630-1638	10	8
460	Enhancing the understanding of the glycerol to lactic acid reaction mechanism over AuPt/TiO under alkaline conditions. *Journal of Chemical Physics*, **2020**, 152, 134705	3.9	7
459	Facile synthesis of precious-metal single-site catalysts using organic solvents. *Nature Chemistry*, **2020**, 12, 560-567	17.6	46
458	Enhanced visible-light-driven photocatalytic H2 production and Cr(VI) reduction of a ZnIn2S4/MoS2 heterojunction synthesized by the biomolecule-assisted microwave heating method. *Catalysis Science and Technology*, **2020**, 10, 2838-2854	5.5	24
457	Isolated Pd Sites as Selective Catalysts for Electrochemical and Direct Hydrogen Peroxide Synthesis. *ACS Catalysis*, **2020**, 10, 5928-5938	13.1	30
456	Ruthenium Triazine Composite: A Good Match for Increasing Hydrogen Evolution Activity through Contact Electrification. *Advanced Energy Materials*, **2020**, 10, 2000067	21.8	29
455	Cinnamyl Alcohol Oxidation Using Supported Bimetallic Au□d Nanoparticles: An Optimization of Metal Ratio and Investigation of the Deactivation Mechanism Under Autoxidation Conditions. *Topics in Catalysis*, **2020**, 63, 99-112	2.3	4
454	The formation of methanol from glycerol bio-waste over doped ceria-based catalysts. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2020**, 378, 20200059	3	1
453	Sustainable production of glucaric acid from corn stover via glucose oxidation: An assessment of homogeneous and heterogeneous catalytic oxidation production routes. *Chemical Engineering Research and Design*, **2020**, 153, 337-349	5.5	11
452	Continuous Flow Synthesis of Bimetallic AuPd Catalysts for the Selective Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid. *ChemNanoMat*, **2020**, 6, 420-426	3.5	9
451	The Effect of Polymer Addition on Base Catalysed Glycerol Oxidation Using Gold and Gold□Palladium Bimetallic Catalysts. *Topics in Catalysis*, **2020**, 63, 394-402	2.3	6
450	Effect of Base on the Facile Hydrothermal Preparation of Highly Active IrOx Oxygen Evolution Catalysts. *ACS Applied Energy Materials*, **2020**, 3, 800-809	6.1	13
449	Structure-sensitivity of alumina supported palladium catalysts for N2O decomposition. *Applied Catalysis B: Environmental*, **2020**, 264, 118501	21.8	12
448	The direct synthesis of hydrogen peroxide over Au and Pd nanoparticles: A DFT study. *Catalysis Today*, **2020**, 381, 76-76	5.3	2

447	The direct synthesis of hydrogen peroxide using a combination of a hydrophobic solvent and water. *Catalysis Science and Technology*, **2020**, 10, 8203-8212	5.5	1
446	Preparation of Solid Solution and Layered IrOxNi(OH)2 Oxygen Evolution Catalysts: Toward Optimizing Iridium Efficiency for OER. *ACS Catalysis*, **2020**, 10, 14640-14648	13.1	13
445	Probing the Surface Acidity of Supported Aluminum Bromide Catalysts. *Catalysts*, **2020**, 10, 869	4	4
444	GoldPalladium colloids as catalysts for hydrogen peroxide synthesis, degradation and methane oxidation: effect of the PVP stabiliser. *Catalysis Science and Technology*, **2020**, 10, 5935-5944	5.5	13
443	Science to enable the circular economy. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2020**, 378, 20200060	3	3
442	The direct synthesis of hydrogen peroxide from H and O using Pd-Ni/TiO catalysts. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2020**, 378, 20200062	3	11
441	CO2 Hydrogenation to CH3OH over PdZn Catalysts, with Reduced CH4 Production. *ChemCatChem*, **2020**, 12, 6024-6032	5.2	6
440	Low temperature selective oxidation of methane using gold-palladium colloids. *Catalysis Today*, **2020**, 342, 32-38	5.3	24
439	Low temperature solvent-free allylic oxidation of cyclohexene using graphitic oxide catalysts. *Catalysis Today*, **2020**, 357, 3-7	5.3	3
438	Plasmonic Oxidation of Glycerol Using Au/TiO2 Catalysts Prepared by Sol-Immobilisation. *Catalysis Letters*, **2020**, 150, 49-55	2.8	5
437	Lowering the Operating Temperature of Perovskite Catalysts for N2O Decomposition through Control of Preparation Methods. *ACS Catalysis*, **2020**, 10, 5430-5442	13.1	11
436	Can Gold be an Effective Catalyst for the Deacon Reaction?. *Catalysis Letters*, **2020**, 150, 2991-2995	2.8	3
435	Microwave synthesis of ZnIn2S4/WS2 composites for photocatalytic hydrogen production and hexavalent chromium reduction. *Catalysis Science and Technology*, **2019**, 9, 5698-5711	5.5	30
434	Plasmonic oxidation of glycerol using AuPd/TiO2 catalysts. *Catalysis Science and Technology*, **2019**, 9, 5686-5691	5.5	3
433	A chemo-enzymatic oxidation cascade to activate C-H bonds with in situ generated HO. *Nature Communications*, **2019**, 10, 4178	17.4	37
432	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
431	The Direct Synthesis of H2O2 and Selective Oxidation of Methane to Methanol Using HZSM-5 Supported AuPd Catalysts. *Catalysis Letters*, **2019**, 149, 3066-3075	2.8	16
430	Enhanced Activity and Stability of Gold/Ceria-Titania for the Low-Temperature Water-Gas Shift Reaction. *Frontiers in Chemistry*, **2019**, 7, 443	5	8

429	Investigating the Influence of Reaction Conditions and the Properties of Ceria for the Valorisation of Glycerol. *Energies*, **2019**, 12, 1359	3.1	9
428	Benzyl alcohol oxidation with Pd-Zn/TiO: computational and experimental studies. *Science and Technology of Advanced Materials*, **2019**, 20, 367-378	7.1	16
427	New insights for the valorisation of glycerol over MgO catalysts in the gas-phase. *Catalysis Science and Technology*, **2019**, 9, 1464-1475	5.5	7
426	Synthesis of highly uniform and composition-controlled gold-palladium supported nanoparticles in continuous flow. *Nanoscale*, **2019**, 11, 8247-8259	7.7	24
425	The Direct Synthesis of H2O2 Using TS-1 Supported Catalysts. *ChemCatChem*, **2019**, 11, 1673-1680	5.2	30
424	Electron Microscopy Informed Catalyst Design. *Microscopy and Microanalysis*, **2019**, 25, 2282-2283	0.5	
423	Slurry loop tubular membrane reactor for the catalysed aerobic oxidation of benzyl alcohol. *Chemical Engineering Journal*, **2019**, 378, 122250	14.7	4
422	Direct Synthesis of Hydrogen Peroxide over AuPd Supported Nanoparticles under Ambient Conditions. *Industrial & Engineering Chemistry Research*, **2019**, 58, 12623-12631	3.9	33
421	Promotion Mechanisms of Au Supported on TiO2 in Thermal- and Photocatalytic Glycerol Conversion. *Journal of Physical Chemistry C*, **2019**, 123, 19734-19741	3.8	9
420	Impact of Nanoparticle-Support Interactions in CoO/AlO Catalysts for the Preferential Oxidation of Carbon Monoxide. *ACS Catalysis*, **2019**, 9, 7166-7178	13.1	33
419	Low-Temperature Catalytic Selective Oxidation of Methane to Methanol. *Green Chemistry and Sustainable Technology*, **2019**, 37-59	1.1	1
418	Direct Synthesis of Hydrogen Peroxide Using Cs-Containing Heteropolyacid-Supported PalladiumCopper Catalysts. *Catalysis Letters*, **2019**, 149, 998-1006	2.8	11
417	Tuning of catalytic sites in Pt/TiO2 catalysts for the chemoselective hydrogenation of 3-nitrostyrene. *Nature Catalysis*, **2019**, 2, 873-881	36.5	91
416	The Effects of Dopants on the CuZrO2 Catalyzed Hydrogenation of Levulinic Acid. *Journal of Physical Chemistry C*, **2019**, 123, 7879-7888	3.8	12
415	Recent Advances in the Direct Synthesis of H2O2. *ChemCatChem*, **2019**, 11, 298-308	5.2	88
414	Quantitative Determination of Pt- Catalyzed d-Glucose Oxidation Products Using 2D NMR. *ACS Catalysis*, **2019**, 9, 325-335	13.1	13
413	Three step synthesis of benzylacetone and 4-(4-methoxyphenyl)butan-2-one in flow using micropacked bed reactors. *Chemical Engineering Journal*, **2019**, 377, 119976	14.7	1
412	Solvent-free aerobic epoxidation of 1-decene using supported cobalt catalysts. *Catalysis Today*, **2019**, 333, 154-160	5.3	5

411	xNiyCuzZrO2 catalysts for the hydrogenation of levulinic acid to gamma valorlactone **2018**, 4, 12-23		5
410	The Role of Mg(OH) in the So-Called "Base-Free" Oxidation of Glycerol with AuPd Catalysts. *Chemistry - A European Journal*, **2018**, 24, 2396-2402	4.8	21
409	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
408	Cinnamaldehyde hydrogenation using AuPd catalysts prepared by sol immobilisation. *Catalysis Science and Technology*, **2018**, 8, 1677-1685	5.5	29
407	Glycerol Oxidation Using MgO- and Al2O3-supported Gold and GoldPalladium Nanoparticles Prepared in the Absence of Polymer Stabilizers. *ChemCatChem*, **2018**, 10, 1351-1359	5.2	19
406	Solvent Free Synthesis of PdZn/TiO Catalysts for the Hydrogenation of CO to Methanol. *Topics in Catalysis*, **2018**, 61, 144-153	2.3	27
405	Oxidative Carboxylation of 1-Decene to 1,2-Decylene Carbonate. *Topics in Catalysis*, **2018**, 61, 509-518	2.3	8
404	A Kinetic Study of Methane Partial Oxidation over Fe-ZSM-5 Using N O as an Oxidant. *ChemPhysChem*, **2018**, 19, 402-411	3.2	22
403	Homocoupling of Phenylboronic Acid using Atomically Dispersed Gold on Carbon Catalysts: Catalyst Evolution Before Reaction. *ChemCatChem*, **2018**, 10, 1853-1859	5.2	10
402	Hydrogenation of CO2 to Dimethyl Ether over Brønsted Acidic PdZn Catalysts. *Industrial & Engineering Chemistry Research*, **2018**, 57, 6821-6829	3.9	37
401	Inter-connected and open pore hierarchical TS-1 with controlled framework titanium for catalytic cyclohexene epoxidation. *Catalysis Science and Technology*, **2018**, 8, 2211-2217	5.5	31
400	Preparation of a highly active ternary Cu-Zn-Al oxide methanol synthesis catalyst by supercritical CO2 anti-solvent precipitation. *Catalysis Today*, **2018**, 317, 12-20	5.3	25
399	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
398	Investigating the influence of acid sites in continuous methane oxidation with N2O over Fe/MFI zeolites. *Catalysis Science and Technology*, **2018**, 8, 154-163	5.5	19
397	Investigating the Influence of Fe Speciation on NO Decomposition Over Fe-ZSM-5 Catalysts. *Topics in Catalysis*, **2018**, 61, 1983-1992	2.3	13
396	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
395	Heterogeneous Gold Catalysis. *ACS Central Science*, **2018**, 4, 1095-1101	16.8	59
394	Macroporous–mesoporous carbon supported Ni catalysts for the conversion of cellulose to polyols. *Green Chemistry*, **2018**, 20, 3634-3642	10	13

393	Cinnamyl alcohol oxidation using supported bimetallic AuPd nanoparticles: an investigation of autoxidation and catalysis. *Catalysis Science and Technology*, **2018**, 8, 2987-2997	5.5	13
392	Designing heterogeneous catalysts. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2018**, 474, 20180514	2.4	
391	Theory as a driving force to understand reactions on nanoparticles: general discussion. *Faraday Discussions*, **2018**, 208, 147-185	3.6	1
390	Control of catalytic nanoparticle synthesis: general discussion. *Faraday Discussions*, **2018**, 208, 471-495	3.6	2
389	The challenges of characterising nanoparticulate catalysts: general discussion. *Faraday Discussions*, **2018**, 208, 339-394	3.6	4
388	Product Inhibition in Glycerol Oxidation over Au/TiO2 Catalysts Quantified by NMR Relaxation. *ACS Catalysis*, **2018**, 8, 7334-7339	13.1	15
387	The Role of Copper Speciation in the Low Temperature Oxidative Upgrading of Short Chain Alkanes over Cu/ZSM-5 Catalysts. *ChemPhysChem*, **2018**, 19, 469-478	3.2	9
386	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
385	Oxidation of Polynuclear Aromatic Hydrocarbons using Ruthenium-Ion-Catalyzed Oxidation: The Role of Aromatic Ring Number in Reaction Kinetics and Product Distribution. *Chemistry - A European Journal*, **2018**, 24, 655-662	4.8	7
384	Highly selective PdZn/ZnO catalysts for the methanol steam reforming reaction. *Catalysis Science and Technology*, **2018**, 8, 5848-5857	5.5	18
383	Oxidative Degradation of Phenol using in situ Generated Hydrogen Peroxide Combined with Fenton's Process. *Johnson Matthey Technology Review*, **2018**, 62, 417-425	2.5	11
382	Recent Advances in the Gold-Catalysed Low-Temperature Water–Gas Shift Reaction. *Catalysts*, **2018**, 8, 627	4	18
381	The Low Temperature Solvent-Free Aerobic Oxidation of Cyclohexene to Cyclohexane Diol over Highly Active Au/Graphite and Au/Graphene Catalysts. *Catalysts*, **2018**, 8, 311	4	10
380	Low Temperature Direct Conversion of Methane using a Solid Superacid. *ChemCatChem*, **2018**, 10, 5019-5024	5.2	9
379	Supported Bimetallic AuPd Nanoparticles as a Catalyst for the Selective Hydrogenation of Nitroarenes. *Nanomaterials*, **2018**, 8,	5.4	13
378	Mechanistic Insights into Selective Oxidation of Polyaromatic Compounds using RICO Chemistry. *Chemistry - A European Journal*, **2018**, 24, 12359-12369	4.8	3
377	Gold as a Catalyst for the Ring Opening of 2,5-Dimethylfuran. *Catalysis Letters*, **2018**, 148, 2109-2116	2.8	3
376	Oxygenate formation over K/Mo2C catalysts in the Fischer–Tropsch synthesis. *Catalysis Science and Technology*, **2018**, 8, 3806-3817	5.5	9

375	Electrocatalytic synthesis of hydrogen peroxide on Au-Pd nanoparticles: From fundamentals to continuous production. *Chemical Physics Letters*, **2017**, 683, 436-442	2.5	73
374	Palladium electrodissolution from model surfaces and nanoparticles. *Electrochimica Acta*, **2017**, 229, 467-477	6.7	24
373	Catalytic Partial Oxidation of Cyclohexane by Bimetallic Ag/Pd Nanoparticles on Magnesium Oxide. *Chemistry - A European Journal*, **2017**, 23, 11834-11842	4.8	25
372	The effect of ring size on the selective carboxylation of cycloalkene oxides. *Catalysis Science and Technology*, **2017**, 7, 1433-1439	5.5	1
371	Supercritical Antisolvent Precipitation of Amorphous Copper-Zinc Georgeite and Acetate Precursors for the Preparation of Ambient-Pressure Water-Gas-Shift Copper/Zinc Oxide Catalysts. *ChemCatChem*, **2017**, 9, 1621-1631	5.2	15
370	Increased Affinity of Small Gold Particles for Glycerol Oxidation over Au/TiO2 Probed by NMR Relaxation Methods. *ACS Catalysis*, **2017**, 7, 4235-4241	13.1	30
369	Deactivation Behavior of Supported Gold Palladium Nanoalloy Catalysts during the Selective Oxidation of Benzyl Alcohol in a Micropacked Bed Reactor. *Industrial & Engineering Chemistry Research*, **2017**, 56, 12984-12993	3.9	7
368	Addressing stability challenges of using bimetallic electrocatalysts: the case of gold–palladium nanoalloys. *Catalysis Science and Technology*, **2017**, 7, 1848-1856	5.5	25
367	The Effects of Secondary Oxides on Copper-Based Catalysts for Green Methanol Synthesis. *ChemCatChem*, **2017**, 9, 1655-1662	5.2	15
366	Highly Active Gold and Gold–Palladium Catalysts Prepared by Colloidal Methods in the Absence of Polymer Stabilizers. *ChemCatChem*, **2017**, 9, 2914-2918	5.2	14
365	An investigation into bimetallic catalysts for base free oxidation of cellobiose and glucose. *Journal of Chemical Technology and Biotechnology*, **2017**, 92, 2246-2253	3.5	12
364	Multifunctional supported bimetallic catalysts for a cascade reaction with hydrogen auto transfer: synthesis of 4-phenylbutan-2-ones from 4-methoxybenzyl alcohols. *Catalysis Science and Technology*, **2017**, 7, 1928-1936	5.5	9
363	Identification of single-site gold catalysis in acetylene hydrochlorination. *Science*, **2017**, 355, 1399-1403	33.3	285
362	A new class of Cu/ZnO catalysts derived from zincian georgeite precursors prepared by co-precipitation. *Chemical Science*, **2017**, 8, 2436-2447	9.4	25
361	How to Synthesise High Purity, Crystalline d-Glucaric Acid Selectively. *European Journal of Organic Chemistry*, **2017**, 2017, 6811-6814	3.2	11
360	Co3O4 morphology in the preferential oxidation of CO. *Catalysis Science and Technology*, **2017**, 7, 4806-4817	5.5	25
359	Activation and Deactivation of Gold/Ceria-Zirconia in the Low-Temperature Water-Gas Shift Reaction. *Angewandte Chemie - International Edition*, **2017**, 56, 16037-16041	16.4	36
358	Activation and Deactivation of Gold/Ceria–Zirconia in the Low-Temperature Water–Gas Shift Reaction. *Angewandte Chemie*, **2017**, 129, 16253-16257	3.6	4

357	Acetylene hydrochlorination using Au/carbon: a journey towards single site catalysis. *Chemical Communications*, **2017**, 53, 11733-11746	5.8	46
356	Aqueous Au-Pd colloids catalyze selective CH oxidation to CHOH with O under mild conditions. *Science*, **2017**, 358, 223-227	33.3	299
355	GoldPalladium Bimetallic Catalyst Stability: Consequences for Hydrogen Peroxide Selectivity. *ACS Catalysis*, **2017**, 7, 5699-5705	13.1	58
354	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
353	Solid Acid Additives as Recoverable Promoters for the Direct Synthesis of Hydrogen Peroxide. *Industrial & Engineering Chemistry Research*, **2017**, 56, 13287-13293	3.9	22
352	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
351	The Low-Temperature Oxidation of Propane by using H2O2 and Fe/ZSM-5 Catalysts: Insights into the Active Site and Enhancement of Catalytic Turnover Frequencies. *ChemCatChem*, **2017**, 9, 642-650	5.2	11
350	PdZn catalysts for CO hydrogenation to methanol using chemical vapour impregnation (CVI). *Faraday Discussions*, **2017**, 197, 309-324	3.6	58
349	A micropacked-bed multi-reactor system with in situ raman analysis for catalyst evaluation. *Catalysis Today*, **2017**, 283, 195-201	5.3	12
348	Highly crystalline vanadium phosphate catalysts synthesized using poly(acrylic acid-co-maleic acid) as a structure directing agent. *Catalysis Science and Technology*, **2016**, 6, 2910-2917	5.5	7
347	Base-free oxidation of glucose to gluconic acid using supported gold catalysts. *Catalysis Science and Technology*, **2016**, 6, 107-117	5.5	42
346	Synergy and Anti-Synergy between Palladium and Gold in Nanoparticles Dispersed on a Reducible Support. *ACS Catalysis*, **2016**, 6, 6623-6633	13.1	59
345	One-Step Production of 1,3-Butadiene from 2,3-Butanediol Dehydration. *Chemistry - A European Journal*, **2016**, 22, 12290-4	4.8	24
344	Tuning graphitic oxide for initiator- and metal-free aerobic epoxidation of linear alkenes. *Nature Communications*, **2016**, 7, 12855	17.4	13
343	Vinyl chloride monomer production catalysed by gold: A review. *Chinese Journal of Catalysis*, **2016**, 37, 1600-1607	11.3	37
342	Population and hierarchy of active species in gold iron oxide catalysts for carbon monoxide oxidation. *Nature Communications*, **2016**, 7, 12905	17.4	50
341	Solvent inhibition in the liquid-phase catalytic oxidation of 1,4-butanediol: understanding the catalyst behaviour from NMR relaxation time measurements. *Catalysis Science and Technology*, **2016**, 6, 7896-7901	5.5	32
340	Direct synthesis of hydrogen peroxide in water at ambient temperature. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2016**, 472, 20160156	2.4	22

339	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
338	Characterisation of gold catalysts. *Chemical Society Reviews*, **2016**, 45, 4953-94	58.5	107
337	Insights into the Reaction Mechanism of Cyclohexane Oxidation Catalysed by Molybdenum Blue Nanorings. *Catalysis Letters*, **2016**, 146, 126-135	2.8	18
336	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
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