David J Willock

List of Publications by Year
in descending order

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331 papers	29,804 citations	6613 79 h-index	5255 165 g-index
346 all docs	346 docs citations	346 times ranked	20804 citing authors

#	Article	IF	Citations
1	The Direct Synthesis of Hydrogen Peroxide Over Supported Pd-Based Catalysts: An Investigation into the Role of the Support and Secondary Metal Modifiers. Catalysis Letters, 2023, 153, 32-40.	2.6	6
2	Effect of the Preparation Method of LaSrCoFeOx Perovskites on the Activity of N2O Decomposition. Catalysis Letters, 2022, 152, 213-226.	2.6	4
3	Intramolecular modulation of iron-based metal organic framework with energy level adjusting for efficient photocatalytic activity. Applied Catalysis B: Environmental, 2022, 302, 120823.	20.2	45
4	Band gap engineering of amine functionalized Ag(I)-based coordination polymers and their plasmonic Ag0 coupled novel visible light driven photo-redox system for selective oxidation of benzyl alcohol. Applied Catalysis B: Environmental, 2022, 303, 120821.	20.2	6
5	Au-ZSM-5 catalyses the selective oxidation of CH4 to CH3OH and CH3COOH using O2. Nature Catalysis, 2022, 5, 45-54.	34.4	95
6	Ironâ€‘chromium mixed metal oxides catalyse the oxidative dehydrogenation of propane using carbon dioxide. Catalysis Communications, 2022, 162, 106383.	3.3	4
7	Materials and Molecular Modeling at the Exascale. Computing in Science and Engineering, 2022, 24, 36-45.	1.2	7
8	The oxidative degradation of phenol via in situ H₂O₂ synthesis using Pd supported Fe-modified ZSM-5 catalysts. Catalysis Science and Technology, 2022, 12, 2943-2953.	4.1	7
9	Heterogeneous Trimetallic Nanoparticles as Catalysts. Chemical Reviews, 2022, 122, 6795-6849.	47.7	61
10	Selective oxidation of methane to methanol and methyl hydroperoxide over palladium modified MoO₃ photocatalyst under ambient conditions. Catalysis Science and Technology, 2022, 12, 3727-3736.	4.1	9
11	The direct synthesis of hydrogen peroxide over Au and Pd nanoparticles: A DFT study. Catalysis Today, 2021, 381, 76-85.	4.4	11
12	The Influence of Reaction Conditions on the Oxidation of Cyclohexane via the In-Situ Production of H2O2. Catalysis Letters, 2021, 151, 164-171.	2.6	16
13	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.	3.2	5
14	The interaction of CO with a copper(ii) chloride oxy-chlorination catalyst. Faraday Discussions, 2021, 229, 318-340.	3.2	2
15	Theory: general discussion. Faraday Discussions, 2021, 229, 131-160.	3.2	0
16	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.	2.8	1
17	Gas Phase Glycerol Valorization over Ceria Nanostructures with Well-Defined Morphologies. ACS Catalysis, 2021, 11, 4893-4907.	11.2	13
18	Combination of Cu/ZnO Methanol Synthesis Catalysts and ZSM-5 Zeolites to Produce Oxygenates from CO2 and H2. Topics in Catalysis, 2021, 64, 965-973.	2.8	6

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19	Methane Oxidation to Methanol in Water. Accounts of Chemical Research, 2021, 54, 2614-2623.	15.6	69
20	Density Functional Theory Study of the Partial Oxidation of Methane to Methanol on Au and Pd Surfaces. Journal of Physical Chemistry C, 2021, 125, 18770-18785.	3.1	2
21	A Perspective on Heterogeneous Catalysts for the Selective Oxidation of Alcohols. Chemistry - A European Journal, 2021, 27, 16809-16833.	3.3	45
22	Lanthanum modified Fe-ZSM-5 zeolites for selective methane oxidation with H₂O₂. Catalysis Science and Technology, 2021, 11, 8052-8064.	4.1	11
23	Direct and oxidative dehydrogenation of propane: from catalyst design to industrial application. Green Chemistry, 2021, 23, 9747-9799.	9.0	66
24	Low temperature selective oxidation of methane using gold-palladium colloids. Catalysis Today, 2020, 342, 32-38.	4.4	38
25	Low temperature solvent-free allylic oxidation of cyclohexene using graphitic oxide catalysts. Catalysis Today, 2020, 357, 3-7.	4.4	8
26	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.	5.6	23
27	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
28	CO₂ Hydrogenation to CH₃OH over PdZn Catalysts, with Reduced CH₄ Production. ChemCatChem, 2020, 12, 6024-6032.	3.7	16
29	Probing composition distributions in nanoalloy catalysts with correlative electron microscopy. Journal of Materials Chemistry A, 2020, 8, 15725-15733.	10.3	4
30	Role of the Support in Gold-Containing Nanoparticles as Heterogeneous Catalysts. Chemical Reviews, 2020, 120, 3890-3938.	47.7	275
31	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
32	Lowering the Operating Temperature of Perovskite Catalysts for N₂O Decomposition through Control of Preparation Methods. ACS Catalysis, 2020, 10, 5430-5442.	11.2	31
33	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.	3.4	2
34	Electron Microscopy Informed Catalyst Design. Microscopy and Microanalysis, 2019, 25, 2282-2283.	0.4	0
35	Photoactive Ag(I)-Based Coordination Polymer as a Potential Semiconductor for Photocatalytic Water Splitting and Environmental Remediation: Experimental and Theoretical Approach. Journal of Physical Chemistry C, 2019, 123, 23940-23950.	3.1	12
36	The hydrogenation of levulinic acid to Î³-valerolactone over Cuâ€“ZrO2 catalysts prepared by a pH-gradient methodology. Journal of Energy Chemistry, 2019, 36, 15-24.	12.9	30

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37	The Direct Synthesis of H2O2 and Selective Oxidation of Methane to Methanol Using HZSM-5 Supported AuPd Catalysts. Catalysis Letters, 2019, 149, 3066-3075.	2.6	30
38	Investigating the Influence of Reaction Conditions and the Properties of Ceria for the Valorisation of Glycerol. Energies, 2019, 12, 1359.	3.1	10
39	New insights for the valorisation of glycerol over MgO catalysts in the gas-phase. Catalysis Science and Technology, 2019, 9, 1464-1475.	4.1	12
40	The Direct Synthesis of H₂O₂ Using TSâ€1 Supported Catalysts. ChemCatChem, 2019, 11, 1673-1680.	3.7	42
41	The Key Role of Nanocasting in Goldâ€based Fe₂O₃ Nanocasted Catalysts for Oxygen Activation at the Metalâ€support Interface. ChemCatChem, 2019, 11, 1915-1927.	3.7	13
42	The Effects of Dopants on the Cuâ€“ZrO₂ Catalyzed Hydrogenation of Levulinic Acid. Journal of Physical Chemistry C, 2019, 123, 7879-7888.	3.1	21
43	Recent Advances in the Direct Synthesis of H₂O₂. ChemCatChem, 2019, 11, 298-308.	3.7	156
44	Solvent-free aerobic epoxidation of 1-decene using supported cobalt catalysts. Catalysis Today, 2019, 333, 154-160.	4.4	11
45	Low-Temperature Catalytic Selective Oxidation of Methane to Methanol. Green Chemistry and Sustainable Technology, 2019, , 37-59.	0.7	3
46	xNiâ€“yCuâ€“ZrO₂ catalysts for the hydrogenation of levulinic acid to gamma valorlactone. Journal of Lithic Studies, 2018, 4, 12-23.	0.5	9
47	The Role of Mg(OH)₂ in the Soâ€Called â€œBaseâ€Freeâ€•Oxidation of Glycerol with AuPd Catalysts. Chemistry - A European Journal, 2018, 24, 2396-2402.	3.3	23
48	Structural behaviour of copper chloride catalysts during the chlorination of CO to phosgene. Faraday Discussions, 2018, 208, 67-85.	3.2	3
49	Selective Hydrogenation of Levulinic Acid Using Ru/C Catalysts Prepared by Sol-Immobilisation. Topics in Catalysis, 2018, 61, 833-843.	2.8	21
50	Selective Oxidation of Methane to Methanol Using Supported AuPd Catalysts Prepared by Stabilizer-Free Sol-Immobilization. ACS Catalysis, 2018, 8, 2567-2576.	11.2	99
51	The electronic properties of Au clusters on CeO₂ (110) surface with and without O-defects. Faraday Discussions, 2018, 208, 123-145.	3.2	12
52	A Kinetic Study of Methane Partial Oxidation over Feâ€ZSMâ€5 Using N₂O as an Oxidant. ChemPhysChem, 2018, 19, 402-411.	2.1	31
53	Homocoupling of Phenylboronic Acid using Atomically Dispersed Gold on Carbon Catalysts: Catalyst Evolution Before Reaction. ChemCatChem, 2018, 10, 1853-1859.	3.7	15
54	Elucidating the Role of CO₂ in the Soft Oxidative Dehydrogenation of Propane over Ceria-Based Catalysts. ACS Catalysis, 2018, 8, 3454-3468.	11.2	80

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55	Investigating the influence of acid sites in continuous methane oxidation with N₂O over Fe/MFI zeolites. Catalysis Science and Technology, 2018, 8, 154-163.	4.1	32
56	The Role of Copper Speciation in the Low Temperature Oxidative Upgrading of Short Chain Alkanes over Cu/ZSMâ€5 Catalysts. ChemPhysChem, 2018, 19, 469-478.	2.1	22
57	Oxidation of Polynuclear Aromatic Hydrocarbons using Rutheniumâ€Ionâ€Catalyzed Oxidation: The Role of Aromatic Ring Number in Reaction Kinetics and Product Distribution. Chemistry - A European Journal, 2018, 24, 655-662.	3.3	9
58	Recent Advances in the Gold-Catalysed Low-Temperature Waterâ€“Gas Shift Reaction. Catalysts, 2018, 8, 627.	3.5	28
59	Zinc promoted alumina catalysts for the fluorination of chlorofluorocarbons. Journal of Catalysis, 2018, 364, 102-111.	6.2	12
60	A DFT mechanistic study of the ODH of n-hexane over isolated H3VO4. Molecular Catalysis, 2018, 452, 83-92.	2.0	4
61	Mechanistic Insights into Selective Oxidation of Polyaromatic Compounds using RICO Chemistry. Chemistry - A European Journal, 2018, 24, 12359-12369.	3.3	7
62	Gold as a Catalyst for the Ring Opening of 2,5-Dimethylfuran. Catalysis Letters, 2018, 148, 2109-2116.	2.6	3
63	Investigating the Influence of Fe Speciation on N2O Decomposition Over Feâ€“ZSM-5 Catalysts. Topics in Catalysis, 2018, 61, 1983-1992.	2.8	18
64	Theory as a driving force to understand reactions on nanoparticles: general discussion. Faraday Discussions, 2018, 208, 147-185.	3.2	3
65	Application of new nanoparticle structures as catalysts: general discussion. Faraday Discussions, 2018, 208, 575-593.	3.2	1
66	The challenges of characterising nanoparticulate catalysts: general discussion. Faraday Discussions, 2018, 208, 339-394.	3.2	5
67	The effect of ring size on the selective carboxylation of cycloalkene oxides. Catalysis Science and Technology, 2017, 7, 1433-1439.	4.1	2
68	Addressing stability challenges of using bimetallic electrocatalysts: the case of goldâ€“palladium nanoalloys. Catalysis Science and Technology, 2017, 7, 1848-1856.	4.1	35
69	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
70	Identification of single-site gold catalysis in acetylene hydrochlorination. Science, 2017, 355, 1399-1403.	12.6	380
71	The adsorption of Cu on the CeO₂(110) surface. Physical Chemistry Chemical Physics, 2017, 19, 27191-27203.	2.8	17
72	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

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73	The controlled catalytic oxidation of furfural to furoic acid using AuPd/Mg(OH)₂. Catalysis Science and Technology, 2017, 7, 5284-5293.	4.1	87
74	Identification of the catalytically active component of Cuâ€“Zrâ€“O catalyst for the hydrogenation of levulinic acid to Î³-valerolactone. Green Chemistry, 2017, 19, 225-236.	9.0	68
75	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
76	Density functional theory studies of the uncatalysed gas-phase oxidative dehydrogenation conversion of n -hexane to hexenes. Computational and Theoretical Chemistry, 2017, 1114, 153-164.	2.5	10
77	An Overview of Recent Advances of the Catalytic Selective Oxidation of Ethane to Oxygenates. Catalysts, 2016, 6, 71.	3.5	24
78	Explicit Detection of the Mechanism of Platinum Nanoparticle Shape Control by Polyvinylpyrrolidone. Journal of Physical Chemistry C, 2016, 120, 7532-7542.	3.1	36
79	Methane Activation by Selective Oxidation. Topics in Catalysis, 2016, 59, 658-662.	2.8	43
80	The conversion of levulinic acid into Î³-valerolactone using Cuâ€“ZrO₂ catalysts. Catalysis Science and Technology, 2016, 6, 6022-6030.	4.1	40
81	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
82	Gas phase stabiliser-free production of hydrogen peroxide using supported goldâ€“palladium catalysts. Chemical Science, 2016, 7, 5833-5837.	7.4	16
83	Tuning graphitic oxide for initiator- and metal-free aerobic epoxidation of linear alkenes. Nature Communications, 2016, 7, 12855.	12.8	18
84	Population and hierarchy of active species in gold iron oxide catalysts for carbon monoxide oxidation. Nature Communications, 2016, 7, 12905.	12.8	62
85	Designing new catalysts: synthesis of new active structures: general discussion. Faraday Discussions, 2016, 188, 131-159.	3.2	4
86	Catalyst design from theory to practice: general discussion. Faraday Discussions, 2016, 188, 279-307.	3.2	2
87	Bridging model and real catalysts: general discussion. Faraday Discussions, 2016, 188, 565-589.	3.2	3
88	Characterisation of gold catalysts. Chemical Society Reviews, 2016, 45, 4953-4994.	38.1	140
89	Stable amorphous georgeite as a precursor to a high-activity catalyst. Nature, 2016, 531, 83-87.	27.8	128
90	Structure Sensitivity in Catalytic Hydrogenation at Platinum Surfaces Measured by Shell-Isolated Nanoparticle Enhanced Raman Spectroscopy (SHINERS). ACS Catalysis, 2016, 6, 1822-1832.	11.2	60

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91	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
92	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
93	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.	4.4	113
94	Base-free oxidation of glucose to gluconic acid using supported gold catalysts. Catalysis Science and Technology, 2016, 6, 107-117.	4.1	53
95	CO adsorption over Pd nanoparticles: A general framework for IR simulations on nanoparticles. Surface Science, 2016, 646, 210-220.	1.9	65
96	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
97	Selective Oxidation of Alkylâ€Substituted Polyaromatics Using Rutheniumâ€Ionâ€Catalyzed Oxidation. Chemistry - A European Journal, 2015, 21, 4285-4293.	3.3	8
98	Selective Oxidation of Alkyl-Substituted Polyaromatics Using Ruthenium-Ion-Catalyzed Oxidation. Chemistry - A European Journal, 2015, 21, 4169-4169.	3.3	0
99	Discovery, Development, and Commercialization of Gold Catalysts for Acetylene Hydrochlorination. Journal of the American Chemical Society, 2015, 137, 14548-14557.	13.7	283
100	Solvent-free oxidation of dec-1-ene using gold/graphite catalyst using an in situ generated oxidant. Catalysis Science and Technology, 2015, 5, 1307-1313.	4.1	3
101	The functionalisation of graphite surfaces with nitric acid: Identification of functional groups and their effects on gold deposition. Journal of Catalysis, 2015, 323, 10-18.	6.2	59
102	Solvent-Free Aerobic Epoxidation of Dec-1-ene Using Gold/Graphite as a Catalyst. Catalysis Letters, 2015, 145, 689-696.	2.6	16
103	Ruthenium Nanoparticles Supported on Carbon: An Active Catalyst for the Hydrogenation of Lactic Acid to 1,2-Propanediol. ACS Catalysis, 2015, 5, 5047-5059.	11.2	91
104	Low temperature catalytic partial oxidation of ethane to oxygenates by Feâ€“ and Cuâ€“ZSM-5 in a continuous flow reactor. Journal of Catalysis, 2015, 330, 84-92.	6.2	24
105	Liquid phase oxidation of cyclohexane using bimetallic Auâ€“Pd/MgO catalysts. Applied Catalysis A: General, 2015, 504, 373-380.	4.3	45
106	A density functional study of oxygen vacancy formation on Î±-Fe2O3(0001) surface and the effect of supported Au nanoparticles. Research on Chemical Intermediates, 2015, 41, 9587-9601.	2.7	20
107	Efficient green methanol synthesis from glycerol. Nature Chemistry, 2015, 7, 1028-1032.	13.6	106
108	Epoxidation of Propene with Graphite AuPd-Supported Nanoparticles. Catalysis Letters, 2015, 145, 697-701.	2.6	4

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109	Gold Catalysis: A Reflection on Where We are Now. Catalysis Letters, 2015, 145, 71-79.	2.6	56
110	Advances in the direct synthesis of hydrogen peroxide from hydrogen and oxygen. Catalysis Today, 2015, 248, 3-9.	4.4	189
111	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
112	Modelling analysis of the structure and porosity of covalent triazine-based frameworks. Physical Chemistry Chemical Physics, 2015, 17, 817-823.	2.8	15
113	The adsorption of ethene on Fe(111) and surface carbide formation. Catalysis Today, 2015, 244, 122-129.	4.4	9
114	Base-free glucose oxidation using air with supported gold catalysts. Green Chemistry, 2014, 16, 3132-3141.	9.0	71
115	Novel radical tandem 1,6-enynes thioacylation/cyclization: Auâ€“Pd nanoparticles catalysis versus thermal activation as a function ofÂtheÂsubstrate specificity. Tetrahedron, 2014, 70, 9635-9643.	1.9	7
116	Spectroscopic and atomic force studies of the functionalisation of carbon surfaces: new insights into the role of the surface topography and specific chemical states. Faraday Discussions, 2014, 173, 257-272.	3.2	18
117	Gold-Based Nanoparticulate Catalysts for the Oxidative Esterification of 1,4-Butanediol to Dimethyl Succinate. Topics in Catalysis, 2014, 57, 723-729.	2.8	5
118	The adsorption and dissociation of CO on Fe(111). Surface Science, 2014, 625, 69-83.	1.9	10
119	The Effect of Grafting Zirconia and Ceria onto Alumina as a Support for Silicotungstic Acid for the Catalytic Dehydration of Glycerol to Acrolein. Chemistry - A European Journal, 2014, 20, 1743-1752.	3.3	36
120	Strategies for Designing Supported Goldâ€“Palladium Bimetallic Catalysts for the Direct Synthesis of Hydrogen Peroxide. Accounts of Chemical Research, 2014, 47, 845-854.	15.6	179
121	High Activity Redox Catalysts Synthesized by Chemical Vapor Impregnation. ACS Nano, 2014, 8, 957-969.	14.6	25
122	Initiator-free hydrocarbon oxidation using supported gold nanoparticles. Catalysis Science and Technology, 2014, 4, 908-911.	4.1	24
123	Deactivation studies of a carbon supported AuPt nanoparticulate catalyst in the liquid-phase aerobic oxidation of 1,2-propanediol. Catalysis Science and Technology, 2014, 4, 1313-1322.	4.1	34
124	All-atom molecular dynamics simulation of HPMA polymers. RSC Advances, 2014, 4, 7003.	3.6	3
125	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
126	Catalysis using colloidal-supported gold-based nanoparticles. Applied Petrochemical Research, 2014, 4, 85-94.	1.3	13

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127	Baseâ€Free Oxidation of Glycerol Using Titaniaâ€Supported Trimetallic Auâ€“Pdâ€“Pt Nanoparticles. ChemSusChem, 2014, 7, 1326-1334.	6.8	73
128	Impact of co-adsorbed oxygen on crotonaldehyde adsorption over gold nanoclusters: a computational study. Physical Chemistry Chemical Physics, 2014, 16, 11202-11210.	2.8	3
129	Heterogeneously catalyzed oxidation of butanediols in base free aqueous media. Tetrahedron, 2014, 70, 6055-6058.	1.9	14
130	Gas Diffusion in a Porous Organic Cage: Analysis of Dynamic Pore Connectivity Using Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2014, 118, 12734-12743.	3.1	43
131	Strategies for the Synthesis of Supported Gold Palladium Nanoparticles with Controlled Morphology and Composition. Accounts of Chemical Research, 2013, 46, 1759-1772.	15.6	167
132	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
133	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
134	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
135	In situ spectroscopic investigation of oxidative dehydrogenation and disproportionation of benzyl alcohol. Physical Chemistry Chemical Physics, 2013, 15, 12147.	2.8	43
136	Aqua regia activated Au/C catalysts for the hydrochlorination of acetylene. Journal of Catalysis, 2013, 297, 128-136.	6.2	139
137	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
138	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
139	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
140	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
141	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.	11.2	93
142	The effect of ring size on the selective oxidation of cycloalkenes using supported metal catalysts. Catalysis Science and Technology, 2013, 3, 1531.	4.1	18
143	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
144	Towards heterogeneous organocatalysis: chiral iminium cations supported on porous materials for enantioselective alkene epoxidation. Catalysis Science and Technology, 2013, 3, 2330.	4.1	10

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145	Aqueous-Phase Methane Oxidation over Fe-MFI Zeolites; Promotion through Isomorphous Framework Substitution. ACS Catalysis, 2013, 3, 1835-1844.	11.2	99
146	Solvent Effect and Reactivity Trend in the Aerobic Oxidation of 1,3â€Propanediols over Gold Supported on Titania: NMR Diffusion and Relaxation Studies. Chemistry - A European Journal, 2013, 19, 11725-11732.	3.3	46
147	The Selective Oxidation of 1,2-Propanediol by Supported Gold-Based Nanoparticulate Catalysts. Topics in Catalysis, 2012, 55, 1283-1288.	2.8	33
148	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
149	Oxidative Esterification of Homologous 1,3-Propanediols. Catalysis Letters, 2012, 142, 1114-1120.	2.6	15
150	Oxidative esterification of 1,2-propanediol using gold and gold-palladium supported nanoparticles. Catalysis Science and Technology, 2012, 2, 97-104.	4.1	32
151	Physical mixing of metal acetates: a simple, scalable method to produce active chloride free bimetallic catalysts. Chemical Science, 2012, 3, 2965.	7.4	38
152	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
153	The effect of intermolecular hydrogen bonding on the planarity of amides. Physical Chemistry Chemical Physics, 2012, 14, 11944.	2.8	22
154	Influence of counterions on the structure of bis(oxazoline)copper(ii) complexes; an EPR and ENDOR investigation. Dalton Transactions, 2012, 41, 11085.	3.3	14
155	Selective liquid phase oxidation with supported metal nanoparticles. Chemical Science, 2012, 3, 20-44.	7.4	224
156	Influence of reaction conditions on the direct synthesis of hydrogen peroxide over AuPd/carbon catalysts. Catalysis Science and Technology, 2012, 2, 1908.	4.1	23
157	Bespoke Force Field for Simulating the Molecular Dynamics of Porous Organic Cages. Journal of Physical Chemistry C, 2012, 116, 16639-16651.	3.1	40
158	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
159	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
160	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.	6.2	106
161	A periodic DFT study of the activation of O2 by Au nanoparticles on Î±-Fe2O3. Faraday Discussions, 2011, 152, 135.	3.2	30
162	Visualizing Diastereomeric Interactions of Chiral Amineâ€“Chiral Copper Salen Adducts by EPR Spectroscopy and DFT. Inorganic Chemistry, 2011, 50, 6944-6955.	4.0	20

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163	Solvent-free selective epoxidation of cyclooctene using supported gold catalysts: an investigation of catalyst re-use. Green Chemistry, 2011, 13, 127-134.	9.0	55
164	On the enantioselectivity of aziridination of styrene catalysed by copper triflate and copper-exchanged zeolite Y: consequences of the phase behaviour of enantiomeric mixtures of N-arene-sulfonyl-2-phenylaziridines. Organic and Biomolecular Chemistry, 2011, 9, 1079-1084.	2.8	16
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