

Alberto Villa

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

187
papers

6,419
citations

46
h-index

74
g-index

202
ext. papers

7,179
ext. citations

5.8
avg, IF

6
L-index

#	Paper	IF	Citations
187	Computational Investigation of Microreactor Configurations for Hydrogen Production from Formic Acid Decomposition Using a Pd/C Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 1655-1665	3.9	0
186	Noble Metal Promoted TiO ₂ from Silver-Waste Valorisation: Synergism between Ag and Au. <i>Catalysts</i> , 2022 , 12, 235	4	
185	The Nature of Active Sites in the Pd/C-Catalyzed Hydrogenation/Hydrodeoxygenation of Benzaldehyde. <i>Catalysts</i> , 2022 , 12, 251	4	1
184	Effect of Metal Cocatalysts and Operating Conditions on the Product Distribution and the Productivity of the CO Photoreduction.. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 2963-2972	3.9	0
183	A comparative study on the stability of the furfural molecule on the low index Ni, Pd and Pt surfaces.. <i>Royal Society Open Science</i> , 2022 , 9, 211516	3.3	1
182	Iron as modifier of Pd and Pt-based catalysts for sustainable and green processes. <i>Inorganica Chimica Acta</i> , 2022 , 535, 120856	2.7	1
181	New insights for the catalytic oxidation of cyclohexane to K-A oil. <i>Journal of Energy Chemistry</i> , 2022 , 70, 45-51	12	0
180	A proof of concept for cooperation from the quinone groups adjacent to N sites during the metal-free oxidation of glycerol by nitrogen-rich graphene oxide. <i>New Journal of Chemistry</i> , 2021 , 45, 19651-19654	3.6	
179	Controlling the Production of Acid Catalyzed Products of Furfural Hydrogenation by Pd/TiO ₂ . <i>ChemCatChem</i> , 2021 , 13, 5121	5.2	1
178	Pd/Au Bimetallic Catalysts for the Hydrogenation of Muconic Acid to Bio-Adipic Acid. <i>Catalysts</i> , 2021 , 11, 1313	4	1
177	Decomposition of Additive-Free Formic Acid Using a Pd/C Catalyst in Flow: Experimental and CFD Modelling Studies. <i>Catalysts</i> , 2021 , 11, 341	4	7
176	Hydrous Hydrazine Decomposition for Hydrogen Production Using of Ir/CeO: Effect of Reaction Parameters on the Activity. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
175	Biomass Processing via Metal Catalysis 2021 , 81-112		1
174	Heterogeneous Catalyzed Chemoselective Reductive Amination of Halogenated Aromatic Aldehydes. <i>ChemCatChem</i> , 2021 , 13, 3021-3026	5.2	2
173	Discovering the role of substrate in aldehyde hydrogenation. <i>Journal of Catalysis</i> , 2021 , 399, 162-169	7.3	2
172	Influence of carbon support properties in the hydrodeoxygenation of vanillin as lignin model compound. <i>Catalysis Today</i> , 2021 , 367, 220-227	5.3	10
171	Synthesis of palladium-rhodium bimetallic nanoparticles for formic acid dehydrogenation. <i>Journal of Energy Chemistry</i> , 2021 , 52, 301-309	12	11

170	Oxidation of 5-Hydroxymethylfurfural on Supported Ag, Au, Pd and Bimetallic Pd-Au Catalysts: Effect of the Support. <i>Catalysts</i> , 2021 , 11, 115	4	3
169	Ruling Factors in Cinnamaldehyde Hydrogenation: Activity and Selectivity of Pt-Mo Catalysts. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
168	Enhancing activity, selectivity and stability of palladium catalysts in formic acid decomposition: Effect of support functionalization. <i>Catalysis Today</i> , 2021 , 382, 61-61	5.3	4
167	Disclosing the Role of Gold on Palladium-Gold Alloyed Supported Catalysts in Formic Acid Decomposition. <i>ChemCatChem</i> , 2021 , 13, 4210	5.2	2
166	Experimental and Process Modelling Investigation of the Hydrogen Generation from Formic Acid Decomposition Using a Pd/Zn Catalyst. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8462	2.6	1
165	On the role of bismuth as modifier in AuPdBi catalysts: Effects on liquid-phase oxidation and hydrogenation reactions. <i>Catalysis Communications</i> , 2021 , 158, 106340	3.2	3
164	Preformed Pd-Based Nanoparticles for the Liquid Phase Decomposition of Formic Acid: Effect of Stabiliser, Support and AuPd Ratio. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1752	2.6	7
163	Synergistic Effect in Au-Cu Bimetallic Catalysts for the Valorization of Lignin-Derived Compounds. <i>Catalysts</i> , 2020 , 10, 332	4	4
162	Metal free alkene hydrogenation by B-doped graphitic carbon nitride. <i>Catalysis Science and Technology</i> , 2020 , 10, 3024-3028	5.5	5
161	Effect of Carbon Support, Capping Agent Amount, and Pd NPs Size for Bio-Adipic Acid Production from Muconic Acid and Sodium Muconate. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
160	Versatile carbon supported mono and bimetallic nanocomposites: synthesis, characterization and their potential application for furfural reduction. <i>Materials Today Chemistry</i> , 2020 , 17, 100319	6.2	3
159	Capping Agent Effect on Pd-Supported Nanoparticles in the Hydrogenation of Furfural. <i>Catalysts</i> , 2020 , 10, 11	4	13
158	DFT-Assisted Spectroscopic Studies on the Coordination of Small Ligands to Palladium: From Isolated Ions to Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 4781-4790	3.8	2
157	Dual-Site-Mediated Hydrogenation Catalysis on Pd/NiO: Selective Biomass Transformation and Maintenance of Catalytic Activity at Low Pd Loading. <i>ACS Catalysis</i> , 2020 , 10, 5483-5492	13.1	19
156	Ruthenium on phosphorous-modified alumina as an effective and stable catalyst for catalytic transfer hydrogenation of furfural.. <i>RSC Advances</i> , 2020 , 10, 11507-11516	3.7	8
155	Unraveling the effect of ZrO ₂ modifiers on the nature of active sites on AuRu/ZrO ₂ catalysts for furfural hydrogenation. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1469-1480	5.8	7
154	Role of defects in carbon materials during metal-free formic acid dehydrogenation. <i>Nanoscale</i> , 2020 , 12, 22768-22777	7.7	5
153	Carbon based catalysts for the hydrodeoxygenation of lignin and related molecules: A powerful tool for the generation of non-petroleum chemical products including hydrocarbons. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 133, 110280	16.2	14

152	Catalytic Activity of Ti-based MXenes for the Hydrogenation of Furfural. <i>ChemCatChem</i> , 2020 , 12, 5733-5742	5.4	8
151	Glycerol Oxidation over Supported Gold Catalysts: The Combined Effect of Au Particle Size and Basicity of Support. <i>Processes</i> , 2020 , 8, 1016	2.9	4
150	Ru supported on micro and mesoporous carbons as catalysts for biomass-derived molecules hydrogenation. <i>Catalysis Today</i> , 2020 , 357, 143-151	5.3	5
149	A Pt-Mo hybrid catalyst for furfural transformation. <i>Catalysis Today</i> , 2020 , 357, 122-131	5.3	7
148	Catalytic Oxidation of Methoxy Substituted Benzyl Alcohols as Model for Lignin Valorisation. <i>Catalysis Today</i> , 2020 , 357, 15-21	5.3	4
147	Base-free glycerol oxidation over N-TiO ₂ supported AuPt catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019 , 128, 979-990	1.6	5
146	CNF-Functionalization as Versatile Tool for Tuning Activity in Cellulose-Derived Product Hydrogenation. <i>Molecules</i> , 2019 , 24,	4.8	6
145	Extracting structural information of Au colloids at ultra-dilute concentrations: identification of growth during nanoparticle immobilization. <i>Nanoscale Advances</i> , 2019 , 1, 2546-2552	5.1	2
144	Bio Adipic Acid Production from Sodium Muconate and Muconic Acid: A Comparison of two Systems. <i>ChemCatChem</i> , 2019 , 11, 3075-3084	5.2	11
143	Quantifying Morphology and Diffusion Properties of Mesoporous Carbon From High-Fidelity 3D Reconstructions. <i>Microscopy and Microanalysis</i> , 2019 , 25, 891-902	0.5	7
142	AuPd-nNiO as an effective catalyst for the base-free oxidation of HMF under mild reaction conditions. <i>Green Chemistry</i> , 2019 , 21, 4090-4099	10	29
141	Size, nanostructure, and composition dependence of bimetallic AuPd supported on ceria/zirconia mixed oxide catalysts for selective oxidation of benzyl alcohol. <i>Journal of Catalysis</i> , 2019 , 375, 44-55	7.3	29
140	Gold-Silver Catalysts: Ruling Factors for Establishing Synergism. <i>ChemCatChem</i> , 2019 , 11, 4043-4053	5.2	2
139	Cyclic Voltammetry Characterization of Au, Pd, and AuPd Nanoparticles Supported on Different Carbon Nanofibers. <i>Surfaces</i> , 2019 , 2, 205-215	2.9	8
138	Metal-Support Cooperative Effects in Au/VPO for the Aerobic Oxidation of Benzyl Alcohol to Benzyl Benzoate. <i>Nanomaterials</i> , 2019 , 9,	5.4	6
137	High pressure CO ₂ photoreduction using Au/TiO ₂ : unravelling the effect of co-catalysts and of titania polymorphs. <i>Catalysis Science and Technology</i> , 2019 , 9, 2253-2265	5.5	19
136	Selective oxidation of glycerol on morphology controlled ceria nanomaterials. <i>Catalysis Science and Technology</i> , 2019 , 9, 2328-2334	5.5	17
135	Promotion Mechanisms of Au Supported on TiO ₂ in Thermal- and Photocatalytic Glycerol Conversion. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 19734-19741	3.8	9

134	Preformed Au colloidal nanoparticles immobilised on NiO as highly efficient heterogeneous catalysts for reduction of 4-nitrophenol to 4-aminophenol. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103381	6.8	9
133	The Effect of Carbon Nanofibers Surface Properties in Hydrogenation and Dehydrogenation Reactions. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5061	2.6	4
132	Valorisation of Biomass Derived Furfural and Levulinic Acid by Highly Efficient Pd@ND Catalyst. <i>Energy Technology</i> , 2019 , 7, 269-276	3.5	10
131	Hybrid Au/CuO Nanoparticles: Effect of Structural Features for Selective Benzyl Alcohol Oxidation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 2864-2871	3.8	21
130	Gold Catalysts for the Selective Oxidation of Biomass-Derived Products. <i>ChemCatChem</i> , 2019 , 11, 309-323	3.2	31
129	Gold as a modifier of metal nanoparticles: effect on structure and catalysis. <i>Faraday Discussions</i> , 2018 , 208, 395-407	3.6	7
128	Hydrogen Generation from Additive-Free Formic Acid Decomposition Under Mild Conditions by Pd/C: Experimental and DFT Studies. <i>Topics in Catalysis</i> , 2018 , 61, 254-266	2.3	46
127	An investigation on AuPt and AuPt-Bi on granular carbon as catalysts for the oxidation of glycerol under continuous flow conditions. <i>Catalysis Today</i> , 2018 , 308, 50-57	5.3	20
126	N-Doping Effect on the Activity of TiO ₂ Supported Catalysts in Glycerol Oxidation. <i>Advances in Science, Technology and Innovation</i> , 2018 , 1369-1370	0.3	
125	Selective catalytic amination of halogenated aldehydes with calcined palladium catalysts.. <i>RSC Advances</i> , 2018 , 8, 15202-15206	3.7	4
124	Copper and cobalt nanoparticles embedded in naturally derived graphite electrodes for the sensing of the neurotransmitter epinephrine. <i>New Journal of Chemistry</i> , 2018 , 42, 6604-6608	3.6	9
123	Conceptual design and feasibility assessment of photoreactors for solar energy storage. <i>Solar Energy</i> , 2018 , 172, 225-231	6.8	10
122	Carbons from second generation biomass as sustainable supports for catalytic systems. <i>Catalysis Today</i> , 2018 , 301, 239-243	5.3	22
121	Exploring the Effect of Au/Pt Ratio on Glycerol Oxidation in Presence and Absence of a Base. <i>Catalysts</i> , 2018 , 8, 54	4	16
120	Metal Carbides for Biomass Valorization. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 259	2.6	11
119	Investigation of the Catalytic Performance of Pd/CNFs for Hydrogen Evolution from Additive-Free Formic Acid Decomposition. <i>Journal of Carbon Research</i> , 2018 , 4, 26	3.3	11
118	Tailoring the 3D Structure of Pd Nanocatalysts Supported on Mesoporous Carbon for Furfural Hydrogenation. <i>ChemNanoMat</i> , 2018 , 4, 1125-1132	3.5	13
117	Ruthenium on Carbonaceous Materials for the Selective Hydrogenation of HMF. <i>Molecules</i> , 2018 , 23,	4.8	13

116	Carbon-Supported Au Nanoparticles: Catalytic Activity Ruled Out by Carbon Support. <i>Topics in Catalysis</i> , 2018 , 61, 1928-1938	2.3	5
115	Surface Probing by Spectroscopy on Titania-Supported Gold Nanoparticles for a Photoreductive Application. <i>Catalysts</i> , 2018 , 8, 623	4	7
114	Selective Oxidation of Veratryl Alcohol over Au-Pd/CeZrO ₂ Catalysts Synthesized by Sol-Immobilization: Effect of Au:Pd Molar Ratio. <i>Nanomaterials</i> , 2018 , 8,	5.4	11
113	Selective Benzyl Alcohol Oxidation over Pd Catalysts. <i>Catalysts</i> , 2018 , 8, 431	4	36
112	Hydrogen production from formic acid decomposition in the liquid phase using Pd nanoparticles supported on CNFs with different surface properties. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2705-2716	5.8	24
111	High Pressure Photoreduction of CO ₂ : Effect of Catalyst Formulation, Hole Scavenger Addition and Operating Conditions. <i>Catalysts</i> , 2018 , 8, 430	4	25
110	Understanding Heteroatom-Mediated Metal-Support Interactions in Functionalized Carbons: A Perspective Review. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1159	2.6	34
109	Gold-silver catalysts: Effect of catalyst structure on the selectivity of glycerol oxidation. <i>Journal of Catalysis</i> , 2018 , 368, 324-335	7.3	14
108	Controlling the Incorporation of Phosphorus Functionalities on Carbon Nanofibers: Effects on the Catalytic Performance of Fructose Dehydration. <i>Journal of Carbon Research</i> , 2018 , 4, 9	3.3	11
107	Catalytic Performances of Au/Pt Nanoparticles on Phosphorous Functionalized Carbon Nanofibers towards HMF Oxidation. <i>Journal of Carbon Research</i> , 2018 , 4, 48	3.3	6
106	Tandem Site- and Size-Controlled Pd Nanoparticles for the Directed Hydrogenation of Furfural. <i>ACS Catalysis</i> , 2017 , 7, 2266-2274	13.1	86
105	Metal nanoclusters stabilized by pH-responsive microgels: Preparation and evaluation of their catalytic potential. <i>Reactive and Functional Polymers</i> , 2017 , 115, 81-86	4.6	4
104	Enhanced Activity of Au/NiO Nanohybrids for the Reductive Amination of Benzyl Alcohol. <i>Materials</i> , 2017 , 10,	3.5	2
103	Diols Production From Glycerol Over Pt-Based Catalysts: On the Role Played by the Acid Sites of the Support. <i>Catalysis Letters</i> , 2017 , 147, 2523-2533	2.8	8
102	Insights into the Synthesis and Surface Functionalization of Mesoporous Carbon for Catalytic Applications. <i>ChemistrySelect</i> , 2017 , 2, 7590-7596	1.8	
101	Bio-adipic acid production by catalysed hydrogenation of muconic acid in mild operating conditions. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 220-229	21.8	12
100	Metal-Free Oxidation of Glycerol over Nitrogen-Containing Carbon Nanotubes. <i>ChemSusChem</i> , 2017 , 10, 3030-3034	8.3	29
99	Molecular Origin of the Selectivity Differences between Palladium and Gold-Palladium in Benzyl Alcohol Oxidation: Different Oxygen Adsorption Properties. <i>ChemCatChem</i> , 2017 , 9, 253-257	5.2	30

98	CO ₂ photoreduction at high pressure to both gas and liquid products over titanium dioxide. <i>Applied Catalysis B: Environmental</i> , 2017 , 200, 386-391	21.8	51
97	Production and Upgrading of Valerolactone with Bifunctional Catalytic Processes. <i>Biofuels and Biorefineries</i> , 2017 , 221-237	0.3	3
96	Coordination of active current limiters and hybrid circuit breakers for a MVDC link meshing MVAC distribution grids 2017 ,		1
95	More Insights into Support and Preparation Method Effects in Gold Catalyzed Glycerol Oxidation. <i>Current Organic Synthesis</i> , 2017 , 14, 377-382	1.9	3
94	Influence of pretreatment atmospheres on the performance of bimetallic Au-Pd supported on ceria-zirconia mixed oxide catalysts for benzyl alcohol oxidation. <i>Applied Catalysis A: General</i> , 2016 , 525, 145-157	5.1	27
93	Microkinetic Modeling of Benzyl Alcohol Oxidation on Carbon-Supported Palladium Nanoparticles. <i>ChemCatChem</i> , 2016 , 8, 2482-2491	5.2	36
92	Gold-iridium catalysts for the hydrogenation of biomass derived products. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 1771-1775	11.3	6
91	Metal nanoparticles on carbon based supports: The effect of the protective agent removal. <i>Catalysis Today</i> , 2016 , 278, 91-96	5.3	20
90	Selectivity Control in Palladium-Catalyzed Alcohol Oxidation through Selective Blocking of Active Sites. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14027-14033	3.8	42
89	Characterisation of gold catalysts. <i>Chemical Society Reviews</i> , 2016 , 45, 4953-94	58.5	107
88	The confinement effect on the activity of Au NPs in polyol oxidation. <i>Catalysis Science and Technology</i> , 2016 , 6, 598-601	5.5	19
87	Effect of the preparation method of supported Au nanoparticles in the liquid phase oxidation of glycerol. <i>Applied Catalysis A: General</i> , 2016 , 514, 267-275	5.1	35
86	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	5.5	17
85	Valorisation of Glycerol to Fine Chemicals and Fuels. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2016 , 352-384	0.2	
84	Tailored N-Containing Carbons as Catalyst Supports in Alcohol Oxidation. <i>Materials</i> , 2016 , 9,	3.5	5
83	Au-Based Catalysts: Electrochemical Characterization for Structural Insights. <i>Molecules</i> , 2016 , 21, 261	4.8	5
82	Untangling the Role of the Capping Agent in Nanocatalysis: Recent Advances and Perspectives. <i>Catalysts</i> , 2016 , 6, 185	4	126
81	Spectroscopic Investigation of Titania-Supported Gold Nanoparticles Prepared by a Modified Deposition/Precipitation Method for the Oxidation of CO. <i>ChemCatChem</i> , 2016 , 8, 2136-2145	5.2	11

80	N-Modified Carbon-Based Materials: Nanoscience for Catalysis. <i>Chemical Record</i> , 2016 , 16, 2187-2197	6.6	7
79	Combined Macroscopic, Nanoscopic, and Atomic-Scale Characterization of Gold-Ruthenium Bimetallic Catalysts for Octanol Oxidation. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 419-437	3.1	4
78	Bismuth modified Au-Pt bimetallic catalysts for dihydroxyacetone production. <i>Catalysis Today</i> , 2015 , 249, 103-108	5.3	35
77	Tailoring Gold Nanoparticle Characteristics and the Impact on Aqueous-Phase Oxidation of Glycerol. <i>ACS Catalysis</i> , 2015 , 5, 4377-4384	13.1	44
76	CO ₂ photoconversion to fuels under high pressure: effect of TiO ₂ phase and of unconventional reaction conditions. <i>Catalysis Science and Technology</i> , 2015 , 5, 4481-4487	5.5	42
75	Glycerol oxidation using gold-containing catalysts. <i>Accounts of Chemical Research</i> , 2015 , 48, 1403-12	24.3	220
74	Ru-modified Au catalysts supported on ceria-zirconia for the selective oxidation of glycerol. <i>Catalysis Today</i> , 2015 , 253, 178-189	5.3	41
73	AuRu/AC as an effective catalyst for hydrogenation reactions. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28171-6	3.6	19
72	Identifying the Role of N-Heteroatom Location in the Activity of Metal Catalysts for Alcohol Oxidation. <i>ChemCatChem</i> , 2015 , 7, 1338-1346	5.2	21
71	Electrocatalytic activity of multiwalled carbon nanotubes decorated by silver nanoparticles for the detection of halothane. <i>Catalysis Today</i> , 2015 , 249, 265-269	5.3	9
70	Tailoring the selectivity of glycerol oxidation by tuning the acid-base properties of Au catalysts. <i>Catalysis Science and Technology</i> , 2015 , 5, 1126-1132	5.5	65
69	New challenges in gold catalysis: bimetallic systems. <i>Catalysis Science and Technology</i> , 2015 , 5, 55-68	5.5	96
68	Acid-functionalized mesoporous carbon: an efficient support for ruthenium-catalyzed Valerolactone production. <i>ChemSusChem</i> , 2015 , 8, 2520-8	8.3	51
67	PdHx Entrapped in a Covalent Triazine Framework Modulates Selectivity in Glycerol Oxidation. <i>ChemCatChem</i> , 2015 , 7, 2149-2154	5.2	24
66	Operando Attenuated Total Reflectance FTIR Spectroscopy: Studies on the Different Selectivity Observed in Benzyl Alcohol Oxidation. <i>ChemCatChem</i> , 2015 , 7, 2534-2541	5.2	19
65	AuPt Alloy on TiO ₂ : A Selective and Durable Catalyst for L-Sorbose Oxidation to 2-Keto-Gulonic Acid. <i>ChemSusChem</i> , 2015 , 8, 4189-94	8.3	13
64	Selective Oxidation of Raw Glycerol Using Supported AuPd Nanoparticles. <i>Catalysts</i> , 2015 , 5, 131-144	4	25
63	Gold colloids: from quasi-homogeneous to heterogeneous catalytic systems. <i>Accounts of Chemical Research</i> , 2014 , 47, 855-63	24.3	93

62	Benzyl Alcohol Oxidation on Carbon-Supported Pd Nanoparticles: Elucidating the Reaction Mechanism. <i>ChemCatChem</i> , 2014 , 6, 3464-3473	5.2	70
61	A novel high-pressure photoreactor for CO ₂ photoconversion to fuels. <i>RSC Advances</i> , 2014 , 4, 28883-28885	5.5	26
60	Fragrances by selective oxidation of long-chain alcohols. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 945-951	11.3	7
59	Sol immobilization technique: a delicate balance between activity, selectivity and stability of gold catalysts. <i>Catalysis Science and Technology</i> , 2013 , 3, 3036	5.5	92
58	Carbon-Supported Gold Nanocatalysts: Shape Effect in the Selective Glycerol Oxidation. <i>ChemCatChem</i> , 2013 , 5, 2717-2723	5.2	47
57	Pd-modified Au on carbon as an effective and durable catalyst for the direct oxidation of HMF to 2,5-furandicarboxylic acid. <i>ChemSusChem</i> , 2013 , 6, 609-12	8.3	168
56	Multifunctionality of Crystalline MoV(TeNb) M1 Oxide Catalysts in Selective Oxidation of Propane and Benzyl Alcohol. <i>ACS Catalysis</i> , 2013 , 3, 1103-1113	13.1	40
55	Phosphorylated mesoporous carbon as effective catalyst for the selective fructose dehydration to HMF. <i>Journal of Energy Chemistry</i> , 2013 , 22, 305-311	12	34
54	Evidence for the Formation of Nitrogen-Rich Platinum and Palladium Nitride Nanoparticles. <i>Chemistry of Materials</i> , 2013 , 25, 4936-4945	9.6	25
53	NiO as a peculiar support for metal nanoparticles in polyols oxidation. <i>Catalysis Science and Technology</i> , 2013 , 3, 394-399	5.5	38
52	Amino Alcohol Oxidation with Gold Catalysts: The Effect of Amino Groups. <i>Materials</i> , 2013 , 6, 2777-2788	3.5	10
51	Material science for the support design: a powerful challenge for catalysis. <i>Catalysis Science and Technology</i> , 2012 , 2, 673	5.5	38
50	Tailoring the morphology of Pd nanoparticles on CNTs by nitrogen and oxygen functionalization. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 10523-32	3.6	64
49	Gold on carbon: one billion catalysts under a single label. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2969-78	3.6	65
48	Mo and W Carbide: Tunable Catalysts for Liquid Phase Conversion of Alcohols. <i>ACS Catalysis</i> , 2012 , 2, 1377-1380	13.1	18
47	Bismuth as a modifier of AuPd catalyst: Enhancing selectivity in alcohol oxidation by suppressing parallel reaction. <i>Journal of Catalysis</i> , 2012 , 292, 73-80	7.3	38
46	The Art of Manufacturing Gold Catalysts. <i>Catalysts</i> , 2012 , 2, 24-37	4	48
45	Influence of periodic nitrogen functionality on the selective oxidation of alcohols. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 387-93	4.5	55

44	Tuning hydrophilic properties of carbon nanotubes: A challenge for enhancing selectivity in Pd catalyzed alcohol oxidation. <i>Catalysis Today</i> , 2012 , 186, 76-82	5.3	20
43	Nitrite reduction over Pd supported CNFs: Metal particle size effect on selectivity. <i>Catalysis Today</i> , 2012 , 183, 119-123	5.3	34
42	Heart and respiratory rates and adrenal response to propofol or alfaxalone in rabbits. <i>Veterinary Record</i> , 2012 , 170, 444	0.9	15
41	Antenna model refinement technique from SAR data: A study on the ENVISAT ASAR instrument 2012 ,		1
40	Palladium catalysts supported on N-functionalized hollow vapor-grown carbon nanofibers: The effect of the basic support and catalyst reduction temperature. <i>Applied Catalysis A: General</i> , 2011 , 408, 137-147	5.1	11
39	Au on Nanosized NiO: A Cooperative Effect between Au and Nanosized NiO in the Base-Free Alcohol Oxidation. <i>ChemCatChem</i> , 2011 , 3, 1612-1618	5.2	52
38	Triazine-based polymers as nanostructured supports for the liquid-phase oxidation of alcohols. <i>Chemistry - A European Journal</i> , 2011 , 17, 1052-7	4.8	101
37	Gold catalyzed liquid phase oxidation of alcohol: the issue of selectivity. <i>Faraday Discussions</i> , 2011 , 152, 353-65; discussion 393-413	3.6	72
36	Ru modified Au catalysts for the selective oxidation of aliphatic alcohols. <i>Catalysis Science and Technology</i> , 2011 , 1, 1624	5.5	22
35	Effect of the carbon nanotube basicity in Pd/N-CNT catalysts on the synthesis of R-1-phenyl ethyl acetate. <i>Studies in Surface Science and Catalysis</i> , 2010 , 283-287	1.8	3
34	Using supported Au nanoparticles as starting material for preparing uniform Au/Pd bimetallic catalysts. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2183-9	3.6	49
33	Covalent triazine framework as catalytic support for liquid phase reaction. <i>Nano Letters</i> , 2010 , 10, 537-41	11.5	320
32	Au on MgAl ₂ O ₄ spinels: The effect of support surface properties in glycerol oxidation. <i>Journal of Catalysis</i> , 2010 , 275, 108-116	7.3	90
31	Transesterification of triglycerides using nitrogen-functionalized carbon nanotubes. <i>ChemSusChem</i> , 2010 , 3, 241-5	8.3	51
30	In situ formation of Au-Pd bimetallic active sites promoting the physically mixed monometallic catalysts in the liquid-phase oxidation of alcohols. <i>Chemistry - A European Journal</i> , 2010 , 16, 10007-13	4.8	47
29	Selective Oxidation of Glycerol under Acidic Conditions Using Gold Catalysts. <i>Angewandte Chemie</i> , 2010 , 122, 4601-4604	3.6	48
28	Selective oxidation of glycerol under acidic conditions using gold catalysts. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4499-502	16.4	200
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26	Pd on carbon nanotubes for liquid phase alcohol oxidation. <i>Catalysis Today</i> , 2010 , 150, 8-15	5.3	124
25	Pd nanoparticles supported on N-doped nanocarbon for the direct synthesis of H ₂ O ₂ from H ₂ and O ₂ . <i>Catalysis Today</i> , 2010 , 157, 280-285	5.3	76
24	Nitrogen functionalized carbon nanostructures supported Pd and AuPd NPs as catalyst for alcohols oxidation. <i>Catalysis Today</i> , 2010 , 157, 89-93	5.3	70
23	Enhancing Metal-Support Interaction in Heterogeneous Catalysts using Functional Supports. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010 , 636, 2045-2045	1.3	
22	Defect-Mediated Functionalization of Carbon Nanotubes as a Route to Design Single-Site Basic Heterogeneous Catalysts for Biomass Conversion. <i>Angewandte Chemie</i> , 2009 , 121, 6665-6668	3.6	17
21	Defect-mediated functionalization of carbon nanotubes as a route to design single-site basic heterogeneous catalysts for biomass conversion. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6543-6	16.4	106
20	Liquid Phase Oxidation of Glycerol Using a Single Phase (AuPd) Alloy Supported on Activated Carbon: Effect of Reaction Conditions. <i>Catalysis Letters</i> , 2009 , 133, 334-340	2.8	50
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18	Gold Sols as Catalysts for Glycerol Oxidation: The Role of Stabilizer. <i>ChemCatChem</i> , 2009 , 1, 510-514	5.2	86
17	Amino-functionalized carbon nanotubes as solid basic catalysts for the transesterification of triglycerides. <i>Chemical Communications</i> , 2009 , 4405-7	5.8	51
16	Bimetallic Gold/Palladium Catalysts: Correlation between Nanostructure and Synergistic Effects. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8617-8622	3.8	203
15	Magnetron sputtering of gold nanoparticles onto WO ₃ and activated carbon. <i>Catalysis Today</i> , 2007 , 122, 248-253	5.3	56
14	Effects of Au nanoparticles on TiO ₂ in the photocatalytic degradation of an azo dye 2007 , 40, 154-160		43
13	Effect of gold addition on Pt and Pd catalysts in liquid phase oxidations. <i>Topics in Catalysis</i> , 2007 , 44, 319-324	2.3	58
12	Bimetallic gold/palladium catalysts for the selective liquid phase oxidation of glycerol. <i>Catalysis Letters</i> , 2007 , 115, 133-136	2.8	89
11	Single-phase gold/palladium catalyst: The nature of synergistic effect. <i>Catalysis Today</i> , 2007 , 122, 386-393	5.3	77
10	TEM Investigation on Bimetallic Gold/Palladium Catalysts: The Correlation between Microstructure and Synergistic Effect. <i>Microscopy and Microanalysis</i> , 2007 , 13, 260-261	0.5	
9	Investigation on the behaviour of Pt(0)/carbon and Pt(0),Au(0)/carbon catalysts employed in the oxidation of glycerol with molecular oxygen in water. <i>Journal of Molecular Catalysis A</i> , 2006 , 256, 21-28		82

8	Pd and Pt catalysts modified by alloying with Au in the selective oxidation of alcohols. <i>Journal of Catalysis</i> , 2006 , 244, 113-121	7.3	254
7	Single-phase bimetallic system for the selective oxidation of glycerol to glycerate. <i>Studies in Surface Science and Catalysis</i> , 2006 , 162, 553-560	1.8	3
6	Single-phase bimetallic system for the selective oxidation of glycerol to glycerate. <i>Chemical Communications</i> , 2006 , 1956-8	5.8	132
5	Gold on titania: Effect of preparation method in the liquid phase oxidation. <i>Applied Catalysis A: General</i> , 2006 , 311, 185-192	5.1	112
4	Effect of Particle Size on Monometallic and Bimetallic (Au,Pd)/C on the Liquid Phase Oxidation of Glycerol. <i>Catalysis Letters</i> , 2006 , 108, 147-153	2.8	173
3	Synergetic effect of platinum or palladium on gold catalyst in the selective oxidation of D-sorbitol. <i>Catalysis Letters</i> , 2005 , 99, 181-185	2.8	84
2	Hydrogenation of carbon dioxide (CO ₂) to fuels in microreactors: a review of set-ups and value-added chemicals production. <i>Reaction Chemistry and Engineering</i> ,	4.9	0
1	Effect of Pt Particle Size and Phosphorous Addition on Furfural Hydrogenation Over Pt/Al ₂ O ₃ . <i>Catalysis Letters</i> ,1	2.8	0