Alberto Villa

List of Publications by Citations

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	Covalent triazine framework as catalytic support for liquid phase reaction. *Nano Letters*, **2010**, 10, 537-41	11.5	320
186	Pd and Pt catalysts modified by alloying with Au in the selective oxidation of alcohols. *Journal of Catalysis*, **2006**, 244, 113-121	7.3	254
185	Glycerol oxidation using gold-containing catalysts. *Accounts of Chemical Research*, **2015**, 48, 1403-12	24.3	220
184	Bimetallic Gold/Palladium Catalysts: Correlation between Nanostructure and Synergistic Effects. *Journal of Physical Chemistry C*, **2008**, 112, 8617-8622	3.8	203
183	Selective oxidation of glycerol under acidic conditions using gold catalysts. *Angewandte Chemie - International Edition*, **2010**, 49, 4499-502	16.4	200
182	Effect of Particle Size on Monometallic and Bimetallic (Au,Pd)/C on the Liquid Phase Oxidation of Glycerol. *Catalysis Letters*, **2006**, 108, 147-153	2.8	173
181	Pd-modified Au on carbon as an effective and durable catalyst for the direct oxidation of HMF to 2,5-furandicarboxylic acid. *ChemSusChem*, **2013**, 6, 609-12	8.3	168
180	AuPd/AC as catalysts for alcohol oxidation: Effect of reaction parameters on catalytic activity and selectivity. *Applied Catalysis A: General*, **2009**, 364, 221-228	5.1	135
179	Single-phase bimetallic system for the selective oxidation of glycerol to glycerate. *Chemical Communications*, **2006**, 1956-8	5.8	132
178	Untangling the Role of the Capping Agent in Nanocatalysis: Recent Advances and Perspectives. *Catalysts*, **2016**, 6, 185	4	126
177	Pd on carbon nanotubes for liquid phase alcohol oxidation. *Catalysis Today*, **2010**, 150, 8-15	5.3	124
176	Gold on titania: Effect of preparation method in the liquid phase oxidation. *Applied Catalysis A: General*, **2006**, 311, 185-192	5.1	112
175	Characterisation of gold catalysts. *Chemical Society Reviews*, **2016**, 45, 4953-94	58.5	107
174	Defect-mediated functionalization of carbon nanotubes as a route to design single-site basic heterogeneous catalysts for biomass conversion. *Angewandte Chemie - International Edition*, **2009**, 48, 6543-6	16.4	106
173	Triazine-based polymers as nanostructured supports for the liquid-phase oxidation of alcohols. *Chemistry - A European Journal*, **2011**, 17, 1052-7	4.8	101
172	New challenges in gold catalysis: bimetallic systems. *Catalysis Science and Technology*, **2015**, 5, 55-68	5.5	96
171	Gold colloids: from quasi-homogeneous to heterogeneous catalytic systems. *Accounts of Chemical Research*, **2014**, 47, 855-63	24.3	93

170	Sol immobilization technique: a delicate balance between activity, selectivity and stability of gold catalysts. *Catalysis Science and Technology*, **2013**, 3, 3036	5.5	92
169	Au on MgAl2O4 spinels: The effect of support surface properties in glycerol oxidation. *Journal of Catalysis*, **2010**, 275, 108-116	7.3	90
168	Bimetallic gold/palladium catalysts for the selective liquid phase oxidation of glycerol. *Catalysis Letters*, **2007**, 115, 133-136	2.8	89
167	Tandem Site- and Size-Controlled Pd Nanoparticles for the Directed Hydrogenation of Furfural. *ACS Catalysis*, **2017**, 7, 2266-2274	13.1	86
166	Gold Sols as Catalysts for Glycerol Oxidation: The Role of Stabilizer. *ChemCatChem*, **2009**, 1, 510-514	5.2	86
165	Synergetic effect of platinum or palladium on gold catalyst in the selective oxidation of D-sorbitol. *Catalysis Letters*, **2005**, 99, 181-185	2.8	84
164	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. *Journal of Molecular Catalysis A*, **2006**, 256, 21-28		82
163	Single-phase gold/palladium catalyst: The nature of synergistic effect. *Catalysis Today*, **2007**, 122, 386-390	5.3	77
162	Pd nanoparticles supported on N-doped nanocarbon for the direct synthesis of H2O2 from H2 and O2. *Catalysis Today*, **2010**, 157, 280-285	5.3	76
161	Gold catalyzed liquid phase oxidation of alcohol: the issue of selectivity. *Faraday Discussions*, **2011**, 152, 353-65; discussion 393-413	3.6	72
160	Benzyl Alcohol Oxidation on Carbon-Supported Pd Nanoparticles: Elucidating the Reaction Mechanism. *ChemCatChem*, **2014**, 6, 3464-3473	5.2	70
159	Nitrogen functionalized carbon nanostructures supported Pd and AuPd NPs as catalyst for alcohols oxidation. *Catalysis Today*, **2010**, 157, 89-93	5.3	70
158	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
157	Gold on carbon: one billion catalysts under a single label. *Physical Chemistry Chemical Physics*, **2012**, 14, 2969-78	3.6	65
156	Tailoring the morphology of Pd nanoparticles on CNTs by nitrogen and oxygen functionalization. *Physical Chemistry Chemical Physics*, **2012**, 14, 10523-32	3.6	64
155	Effect of gold addition on Pt and Pd catalysts in liquid phase oxidations. *Topics in Catalysis*, **2007**, 44, 319-324	2.3	58
154	Magnetron sputtering of gold nanoparticles onto WO3 and activated carbon. *Catalysis Today*, **2007**, 122, 248-253	5.3	56
153	Influence of periodic nitrogen functionality on the selective oxidation of alcohols. *Chemistry - an Asian Journal*, **2012**, 7, 387-93	4.5	55

152	Au on Nanosized NiO: A Cooperative Effect between Au and Nanosized NiO in the Base-Free Alcohol Oxidation. *ChemCatChem*, **2011**, 3, 1612-1618	5.2	52
151	CO2 photoreduction at high pressure to both gas and liquid products over titanium dioxide. *Applied Catalysis B: Environmental*, **2017**, 200, 386-391	21.8	51
150	Acid-functionalized mesoporous carbon: an efficient support for ruthenium-catalyzed γ-valerolactone production. *ChemSusChem*, **2015**, 8, 2520-8	8.3	51
149	Amino-functionalized carbon nanotubes as solid basic catalysts for the transesterification of triglycerides. *Chemical Communications*, **2009**, 4405-7	5.8	51
148	Transesterification of triglycerides using nitrogen-functionalized carbon nanotubes. *ChemSusChem*, **2010**, 3, 241-5	8.3	51
147	Liquid Phase Oxidation of Glycerol Using a Single Phase (Au-Pd) Alloy Supported on Activated Carbon: Effect of Reaction Conditions. *Catalysis Letters*, **2009**, 133, 334-340	2.8	50
146	Using supported Au nanoparticles as starting material for preparing uniform Au/Pd bimetallic catalysts. *Physical Chemistry Chemical Physics*, **2010**, 12, 2183-9	3.6	49
145	The Art of Manufacturing Gold Catalysts. *Catalysts*, **2012**, 2, 24-37	4	48
144	Selective Oxidation of Glycerol under Acidic Conditions Using Gold Catalysts. *Angewandte Chemie*, **2010**, 122, 4601-4604	3.6	48
143	Carbon-Supported Gold Nanocatalysts: Shape Effect in the Selective Glycerol Oxidation. *ChemCatChem*, **2013**, 5, 2717-2723	5.2	47
142	In situ formation of Au-Pd bimetallic active sites promoting the physically mixed monometallic catalysts in the liquid-phase oxidation of alcohols. *Chemistry - A European Journal*, **2010**, 16, 10007-13	4.8	47
141	Hydrogen Generation from Additive-Free Formic Acid Decomposition Under Mild Conditions by Pd/C: Experimental and DFT Studies. *Topics in Catalysis*, **2018**, 61, 254-266	2.3	46
140	Tailoring Gold Nanoparticle Characteristics and the Impact on Aqueous-Phase Oxidation of Glycerol. *ACS Catalysis*, **2015**, 5, 4377-4384	13.1	44
139	Effects of Au nanoparticles on TiO2 in the photocatalytic degradation of an azo dye **2007**, 40, 154-160		43
138	CO2 photoconversion to fuels under high pressure: effect of TiO2 phase and of unconventional reaction conditions. *Catalysis Science and Technology*, **2015**, 5, 4481-4487	5.5	42
137	Selectivity Control in Palladium-Catalyzed Alcohol Oxidation through Selective Blocking of Active Sites. *Journal of Physical Chemistry C*, **2016**, 120, 14027-14033	3.8	42
136	Ru-modified Au catalysts supported on ceria-zirconia for the selective oxidation of glycerol. *Catalysis Today*, **2015**, 253, 178-189	5.3	41
135	Multifunctionality of Crystalline MoV(TeNb) M1 Oxide Catalysts in Selective Oxidation of Propane and Benzyl Alcohol. *ACS Catalysis*, **2013**, 3, 1103-1113	13.1	40

134	Au NPs on anionic-exchange resin as catalyst for polyols oxidation in batch and fixed bed reactor. *Applied Catalysis B: Environmental*, **2010**, 96, 541-547	21.8	39
133	Material science for the support design: a powerful challenge for catalysis. *Catalysis Science and Technology*, **2012**, 2, 673	5.5	38
132	Bismuth as a modifier of AuPd catalyst: Enhancing selectivity in alcohol oxidation by suppressing parallel reaction. *Journal of Catalysis*, **2012**, 292, 73-80	7.3	38
131	NiO as a peculiar support for metal nanoparticles in polyols oxidation. *Catalysis Science and Technology*, **2013**, 3, 394-399	5.5	38
130	Microkinetic Modeling of Benzyl Alcohol Oxidation on Carbon-Supported Palladium Nanoparticles. *ChemCatChem*, **2016**, 8, 2482-2491	5.2	36
129	Selective Benzyl Alcohol Oxidation over Pd Catalysts. *Catalysts*, **2018**, 8, 431	4	36
128	Bismuth modified Au-Pt bimetallic catalysts for dihydroxyacetone production. *Catalysis Today*, **2015**, 249, 103-108	5.3	35
127	Effect of the preparation method of supported Au nanoparticles in the liquid phase oxidation of glycerol. *Applied Catalysis A: General*, **2016**, 514, 267-275	5.1	35
126	Nitrite reduction over Pd supported CNFs: Metal particle size effect on selectivity. *Catalysis Today*, **2012**, 183, 119-123	5.3	34
125	Phosphorylated mesoporous carbon as effective catalyst for the selective fructose dehydration to HMF. *Journal of Energy Chemistry*, **2013**, 22, 305-311	12	34
124	Understanding Heteroatom-Mediated Metal–Support Interactions in Functionalized Carbons: A Perspective Review. *Applied Sciences (Switzerland)*, **2018**, 8, 1159	2.6	34
123	Gold Catalysts for the Selective Oxidation of Biomass-Derived Products. *ChemCatChem*, **2019**, 11, 309-323	5.2	31
122	Molecular Origin of the Selectivity Differences between Palladium and Gold–Palladium in Benzyl Alcohol Oxidation: Different Oxygen Adsorption Properties. *ChemCatChem*, **2017**, 9, 253-257	5.2	30
121	AuPd-nNiO as an effective catalyst for the base-free oxidation of HMF under mild reaction conditions. *Green Chemistry*, **2019**, 21, 4090-4099	10	29
120	Size, nanostructure, and composition dependence of bimetallic AuPd supported on ceria–zirconia mixed oxide catalysts for selective oxidation of benzyl alcohol. *Journal of Catalysis*, **2019**, 375, 44-55	7.3	29
119	Metal-Free Oxidation of Glycerol over Nitrogen-Containing Carbon Nanotubes. *ChemSusChem*, **2017**, 10, 3030-3034	8.3	29
118	Influence of pretreatment atmospheres on the performance of bimetallic Au-Pd supported on ceria-zirconia mixed oxide catalysts for benzyl alcohol oxidation. *Applied Catalysis A: General*, **2016**, 525, 145-157	5.1	27
117	A novel high-pressure photoreactor for CO2 photoconversion to fuels. *RSC Advances*, **2014**, 4, 28883-28885	3.7	26

116	Selective Oxidation of Raw Glycerol Using Supported AuPd Nanoparticles. *Catalysts*, **2015**, 5, 131-144	4	25
115	Evidence for the Formation of Nitrogen-Rich Platinum and Palladium Nitride Nanoparticles. *Chemistry of Materials*, **2013**, 25, 4936-4945	9.6	25
114	High Pressure Photoreduction of CO2: Effect of Catalyst Formulation, Hole Scavenger Addition and Operating Conditions. *Catalysts*, **2018**, 8, 430	4	25
113	PdHx Entrapped in a Covalent Triazine Framework Modulates Selectivity in Glycerol Oxidation. *ChemCatChem*, **2015**, 7, 2149-2154	5.2	24
112	Hydrogen production from formic acid decomposition in the liquid phase using Pd nanoparticles supported on CNFs with different surface properties. *Sustainable Energy and Fuels*, **2018**, 2, 2705-2716	5.8	24
111	Carbons from second generation biomass as sustainable supports for catalytic systems. *Catalysis Today*, **2018**, 301, 239-243	5.3	22
110	Ru modified Au catalysts for the selective oxidation of aliphatic alcohols. *Catalysis Science and Technology*, **2011**, 1, 1624	5.5	22
109	Identifying the Role of N-Heteroatom Location in the Activity of Metal Catalysts for Alcohol Oxidation. *ChemCatChem*, **2015**, 7, 1338-1346	5.2	21
108	Hybrid Au/CuO Nanoparticles: Effect of Structural Features for Selective Benzyl Alcohol Oxidation. *Journal of Physical Chemistry C*, **2019**, 123, 2864-2871	3.8	21
107	An investigation on AuPt and AuPt-Bi on granular carbon as catalysts for the oxidation of glycerol under continuous flow conditions. *Catalysis Today*, **2018**, 308, 50-57	5.3	20
106	Metal nanoparticles on carbon based supports: The effect of the protective agent removal. *Catalysis Today*, **2016**, 278, 91-96	5.3	20
105	Tuning hydrophilic properties of carbon nanotubes: A challenge for enhancing selectivity in Pd catalyzed alcohol oxidation. *Catalysis Today*, **2012**, 186, 76-82	5.3	20
104	High pressure CO2 photoreduction using Au/TiO2: unravelling the effect of co-catalysts and of titania polymorphs. *Catalysis Science and Technology*, **2019**, 9, 2253-2265	5.5	19
103	AuRu/AC as an effective catalyst for hydrogenation reactions. *Physical Chemistry Chemical Physics*, **2015**, 17, 28171-6	3.6	19
102	Dual-Site-Mediated Hydrogenation Catalysis on Pd/NiO: Selective Biomass Transformation and Maintenance of Catalytic Activity at Low Pd Loading. *ACS Catalysis*, **2020**, 10, 5483-5492	13.1	19
101	The confinement effect on the activity of Au NPs in polyol oxidation. *Catalysis Science and Technology*, **2016**, 6, 598-601	5.5	19
100	Operando Attenuated Total Reflectance FTIR Spectroscopy: Studies on the Different Selectivity Observed in Benzyl Alcohol Oxidation. *ChemCatChem*, **2015**, 7, 2534-2541	5.2	19
99	Mo and W Carbide: Tunable Catalysts for Liquid Phase Conversion of Alcohols. *ACS Catalysis*, **2012**, 2, 1377-1380	13.1	18

98	Selective oxidation of glycerol on morphology controlled ceria nanomaterials. *Catalysis Science and Technology*, **2019**, 9, 2328-2334	5.5	17
97	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	5.5	17
96	Defect-Mediated Functionalization of Carbon Nanotubes as a Route to Design Single-Site Basic Heterogeneous Catalysts for Biomass Conversion. *Angewandte Chemie*, **2009**, 121, 6665-6668	3.6	17
95	Exploring the Effect of Au/Pt Ratio on Glycerol Oxidation in Presence and Absence of a Base. *Catalysts*, **2018**, 8, 54	4	16
94	Heart and respiratory rates and adrenal response to propofol or alfaxalone in rabbits. *Veterinary Record*, **2012**, 170, 444	0.9	15
93	Carbon based catalysts for the hydrodeoxygenation of lignin and related molecules: A powerful tool for the generation of non-petroleum chemical products including hydrocarbons. *Renewable and Sustainable Energy Reviews*, **2020**, 133, 110280	16.2	14
92	Gold-silver catalysts: Effect of catalyst structure on the selectivity of glycerol oxidation. *Journal of Catalysis*, **2018**, 368, 324-335	7.3	14
91	Capping Agent Effect on Pd-Supported Nanoparticles in the Hydrogenation of Furfural. *Catalysts*, **2020**, 10, 11	4	13
90	Tailoring the 3D Structure of Pd Nanocatalysts Supported on Mesoporous Carbon for Furfural Hydrogenation. *ChemNanoMat*, **2018**, 4, 1125-1132	3.5	13
89	Ruthenium on Carbonaceous Materials for the Selective Hydrogenation of HMF. *Molecules*, **2018**, 23,	4.8	13
88	AuPt Alloy on TiO2: A Selective and Durable Catalyst for L-Sorbose Oxidation to 2-Keto-Gulonic Acid. *ChemSusChem*, **2015**, 8, 4189-94	8.3	13
87	Bio-adipic acid production by catalysed hydrogenation of muconic acid in mild operating conditions. *Applied Catalysis B: Environmental*, **2017**, 218, 220-229	21.8	12
86	Bio Adipic Acid Production from Sodium Muconate and Muconic Acid: A Comparison of two Systems. *ChemCatChem*, **2019**, 11, 3075-3084	5.2	11
85	Metal Carbides for Biomass Valorization. *Applied Sciences (Switzerland)*, **2018**, 8, 259	2.6	11
84	Investigation of the Catalytic Performance of Pd/CNFs for Hydrogen Evolution from Additive-Free Formic Acid Decomposition. *Journal of Carbon Research*, **2018**, 4, 26	3.3	11
83	Palladium catalysts supported on N-functionalized hollow vapor-grown carbon nanofibers: The effect of the basic support and catalyst reduction temperature. *Applied Catalysis A: General*, **2011**, 408, 137-147	5.1	11
82	Spectroscopic Investigation of Titania-Supported Gold Nanoparticles Prepared by a Modified Deposition/Precipitation Method for the Oxidation of CO. *ChemCatChem*, **2016**, 8, 2136-2145	5.2	11
81	Synthesis of palladium-rhodium bimetallic nanoparticles for formic acid dehydrogenation. *Journal of Energy Chemistry*, **2021**, 52, 301-309	12	11

80	Selective Oxidation of Veratryl Alcohol over Au-Pd/CeZrO Catalysts Synthesized by Sol-Immobilization: Effect of Au:Pd Molar Ratio. *Nanomaterials*, **2018**, 8,	5.4	11
79	Controlling the Incorporation of Phosphorus Functionalities on Carbon Nanofibers: Effects on the Catalytic Performance of Fructose Dehydration. *Journal of Carbon Research*, **2018**, 4, 9	3.3	11
78	Conceptual design and feasibility assessment of photoreactors for solar energy storage. *Solar Energy*, **2018**, 172, 225-231	6.8	10
77	Amino Alcohol Oxidation with Gold Catalysts: The Effect of Amino Groups. *Materials*, **2013**, 6, 2777-2788	3.5	10
76	Valorisation of Biomass Derived Furfural and Levulinic Acid by Highly Efficient Pd@ND Catalyst. *Energy Technology*, **2019**, 7, 269-276	3.5	10
75	Influence of carbon support properties in the hydrodeoxygenation of vanillin as lignin model compound. *Catalysis Today*, **2021**, 367, 220-227	5.3	10
74	Electrocatalytic activity of multiwalled carbon nanotubes decorated by silver nanoparticles for the detection of halothane. *Catalysis Today*, **2015**, 249, 265-269	5.3	9
73	Copper and cobalt nanoparticles embedded in naturally derived graphite electrodes for the sensing of the neurotransmitter epinephrine. *New Journal of Chemistry*, **2018**, 42, 6604-6608	3.6	9
72	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
71	Preformed Au colloidal nanoparticles immobilised on NiO as highly efficient heterogeneous catalysts for reduction of 4-nitrophenol to 4-aminophenol. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103381	6.8	9
70	Cyclic Voltammetry Characterization of Au, Pd, and AuPd Nanoparticles Supported on Different Carbon Nanofibers. *Surfaces*, **2019**, 2, 205-215	2.9	8
69	Effect of Carbon Support, Capping Agent Amount, and Pd NPs Size for Bio-Adipic Acid Production from Muconic Acid and Sodium Muconate. *Nanomaterials*, **2020**, 10,	5.4	8
68	Ruthenium on phosphorous-modified alumina as an effective and stable catalyst for catalytic transfer hydrogenation of furfural.. *RSC Advances*, **2020**, 10, 11507-11516	3.7	8
67	Diols Production From Glycerol Over Pt-Based Catalysts: On the Role Played by the Acid Sites of the Support. *Catalysis Letters*, **2017**, 147, 2523-2533	2.8	8
66	Catalytic Activity of Ti-based MXenes for the Hydrogenation of Furfural. *ChemCatChem*, **2020**, 12, 5733-5742	5.2	8
65	Quantifying Morphology and Diffusion Properties of Mesoporous Carbon From High-Fidelity 3D Reconstructions. *Microscopy and Microanalysis*, **2019**, 25, 891-902	0.5	7
64	Preformed Pd-Based Nanoparticles for the Liquid Phase Decomposition of Formic Acid: Effect of Stabiliser, Support and AuPd Ratio. *Applied Sciences (Switzerland)*, **2020**, 10, 1752	2.6	7
63	Gold as a modifier of metal nanoparticles: effect on structure and catalysis. *Faraday Discussions*, **2018**, 208, 395-407	3.6	7

62	Fragrances by selective oxidation of long-chain alcohols. *Chinese Journal of Catalysis*, **2014**, 35, 945-951	11.3	7
61	Unraveling the effect of ZrO2 modifiers on the nature of active sites on AuRu/ZrO2 catalysts for furfural hydrogenation. *Sustainable Energy and Fuels*, **2020**, 4, 1469-1480	5.8	7
60	Decomposition of Additive-Free Formic Acid Using a Pd/C Catalyst in Flow: Experimental and CFD Modelling Studies. *Catalysts*, **2021**, 11, 341	4	7
59	N-Modified Carbon-Based Materials: Nanoscience for Catalysis. *Chemical Record*, **2016**, 16, 2187-2197	6.6	7
58	A Pt-Mo hybrid catalyst for furfural transformation. *Catalysis Today*, **2020**, 357, 122-131	5.3	7
57	Surface Probing by Spectroscopy on Titania-Supported Gold Nanoparticles for a Photoreductive Application. *Catalysts*, **2018**, 8, 623	4	7
56	CNF-Functionalization as Versatile Tool for Tuning Activity in Cellulose-Derived Product Hydrogenation. *Molecules*, **2019**, 24,	4.8	6
55	Metal-Support Cooperative Effects in Au/VPO for the Aerobic Oxidation of Benzyl Alcohol to Benzyl Benzoate. *Nanomaterials*, **2019**, 9,	5.4	6
54	Gold-iridium catalysts for the hydrogenation of biomass derived products. *Chinese Journal of Catalysis*, **2016**, 37, 1771-1775	11.3	6
53	Catalytic Performances of AuPt Nanoparticles on Phosphorous Functionalized Carbon Nanofibers towards HMF Oxidation. *Journal of Carbon Research*, **2018**, 4, 48	3.3	6
52	Base-free glycerol oxidation over N-TiO2 supported AuPt catalysts. *Reaction Kinetics, Mechanisms and Catalysis*, **2019**, 128, 979-990	1.6	5
51	Metal free alkene hydrogenation by B-doped graphitic carbon nitride. *Catalysis Science and Technology*, **2020**, 10, 3024-3028	5.5	5
50	Carbon-Supported Au Nanoparticles: Catalytic Activity Ruled Out by Carbon Support. *Topics in Catalysis*, **2018**, 61, 1928-1938	2.3	5
49	Role of defects in carbon materials during metal-free formic acid dehydrogenation. *Nanoscale*, **2020**, 12, 22768-22777	7.7	5
48	Tailored N-Containing Carbons as Catalyst Supports in Alcohol Oxidation. *Materials*, **2016**, 9,	3.5	5
47	Au-Based Catalysts: Electrochemical Characterization for Structural Insights. *Molecules*, **2016**, 21, 261	4.8	5
46	Ru supported on micro and mesoporous carbons as catalysts for biomass-derived molecules hydrogenation. *Catalysis Today*, **2020**, 357, 143-151	5.3	5
45	Metal nanoclusters stabilized by pH-responsive microgels: Preparation and evaluation of their catalytic potential. *Reactive and Functional Polymers*, **2017**, 115, 81-86	4.6	4

44	Synergistic Effect in Au-Cu Bimetallic Catalysts for the Valorization of Lignin-Derived Compounds. *Catalysts*, **2020**, 10, 332	4	4
43	Selective catalytic amination of halogenated aldehydes with calcined palladium catalysts.. *RSC Advances*, **2018**, 8, 15202-15206	3.7	4
42	Glycerol Oxidation over Supported Gold Catalysts: The Combined Effect of Au Particle Size and Basicity of Support. *Processes*, **2020**, 8, 1016	2.9	4
41	Combined Macroscopic, Nanoscopic, and Atomic-Scale Characterization of GoldRuthenium Bimetallic Catalysts for Octanol Oxidation. *Particle and Particle Systems Characterization*, **2016**, 33, 419-437	3.1	4
40	The Effect of Carbon Nanofibers Surface Properties in Hydrogenation and Dehydrogenation Reactions. *Applied Sciences (Switzerland)*, **2019**, 9, 5061	2.6	4
39	Catalytic Oxidation of Methoxy Substituted Benzyl Alcohols as Model for Lignin Valorisation. *Catalysis Today*, **2020**, 357, 15-21	5.3	4
38	Enhancing activity, selectivity and stability of palladium catalysts in formic acid decomposition: Effect of support functionalization. *Catalysis Today*, **2021**, 382, 61-61	5.3	4
37	Versatile carbon supported mono and bimetallic nanocomposites: synthesis, characterization and their potential application for furfural reduction. *Materials Today Chemistry*, **2020**, 17, 100319	6.2	3
36	Production and Upgrading of Valerolactone with Bifunctional Catalytic Processes. *Biofuels and Biorefineries*, **2017**, 221-237	0.3	3
35	Effect of the carbon nanotube basicity in Pd/N-CNT catalysts on the synthesis of R-1-phenyl ethyl acetate. *Studies in Surface Science and Catalysis*, **2010**, 283-287	1.8	3
34	Single-phase bimetallic system for the selective oxidation of glycerol to glycerate. *Studies in Surface Science and Catalysis*, **2006**, 162, 553-560	1.8	3
33	More Insights into Support and Preparation Method Effects in Gold Catalyzed Glycerol Oxidation. *Current Organic Synthesis*, **2017**, 14, 377-382	1.9	3
32	Hydrous Hydrazine Decomposition for Hydrogen Production Using of Ir/CeO: Effect of Reaction Parameters on the Activity. *Nanomaterials*, **2021**, 11,	5.4	3
31	Oxidation of 5-Hydroxymethylfurfural on Supported Ag, Au, Pd and Bimetallic Pd-Au Catalysts: Effect of the Support. *Catalysts*, **2021**, 11, 115	4	3
30	On the role of bismuth as modifier in AuPdBi catalysts: Effects on liquid-phase oxidation and hydrogenation reactions. *Catalysis Communications*, **2021**, 158, 106340	3.2	3
29	Extracting structural information of Au colloids at ultra-dilute concentrations: identification of growth during nanoparticle immobilization. *Nanoscale Advances*, **2019**, 1, 2546-2552	5.1	2
28	Gold-Silver Catalysts: Ruling Factors for Establishing Synergism. *ChemCatChem*, **2019**, 11, 4043-4053	5.2	2
27	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	3.8	2

26	Enhanced Activity of Au/NiO Nanohybrids for the Reductive Amination of Benzyl Alcohol. *Materials*, **2017**, 10,	3.5	2
25	Heterogeneous Catalyzed Chemoselective Reductive Amination of Halogenated Aromatic Aldehydes. *ChemCatChem*, **2021**, 13, 3021-3026	5.2	2
24	Discovering the role of substrate in aldehyde hydrogenation. *Journal of Catalysis*, **2021**, 399, 162-169	7.3	2
23	Ruling Factors in Cinnamaldehyde Hydrogenation: Activity and Selectivity of Pt-Mo Catalysts. *Nanomaterials*, **2021**, 11,	5.4	2
22	Disclosing the Role of Gold on Palladium□Gold Alloyed Supported Catalysts in Formic Acid Decomposition. *ChemCatChem*, **2021**, 13, 4210	5.2	2
21	Coordination of active current limiters and hybrid circuit breakers for a MVDC link meshing MVAC distribution grids **2017**,		1
20	Antenna model refinement technique from SAR data: A study on the ENVISAT ASAR instrument **2012**,		1
19	Controlling the Production of Acid Catalyzed Products of Furfural Hydrogenation by Pd/TiO2. *ChemCatChem*, **2021**, 13, 5121	5.2	1
18	Pd□Au Bimetallic Catalysts for the Hydrogenation of Muconic Acid to Bio-Adipic Acid. *Catalysts*, **2021**, 11, 1313	4	1
17	Biomass Processing via Metal Catalysis **2021**, 81-112		1
16	Experimental and Process Modelling Investigation of the Hydrogen Generation from Formic Acid Decomposition Using a Pd/Zn Catalyst. *Applied Sciences (Switzerland)*, **2021**, 11, 8462	2.6	1
15	The Nature of Active Sites in the Pd/C-Catalyzed Hydrogenation/Hydrodeoxygenation of Benzaldehyde. *Catalysts*, **2022**, 12, 251	4	1
14	A comparative study on the stability of the furfural molecule on the low index Ni, Pd and Pt surfaces.. *Royal Society Open Science*, **2022**, 9, 211516	3.3	1
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