Robert Wojcieszak

List of Publications by Citations

97 papers	2,675 citations	28 h-index	49 g-index
109 ext. papers	3,473 ext. citations	7 avg, IF	5.51 L-index

#	Paper	IF	Citations
97	Magnetic nanomaterials in catalysis: advanced catalysts for magnetic separation and beyond. *Green Chemistry*, **2014**, 16, 2906	10	426
96	How Catalysts and Experimental Conditions Determine the Selective Hydroconversion of Furfural and 5-Hydroxymethylfurfural. *Chemical Reviews*, **2018**, 118, 11023-11117	68.1	332
95	Hydrogen storage in nickel catalysts supported on activated carbon. *International Journal of Hydrogen Energy*, **2007**, 32, 1024-1032	6.7	123
94	Nickel containing MCM-41 and AlMCM-41 mesoporous molecular sieves: Characteristics and activity in the hydrogenation of benzene. *Applied Catalysis A: General*, **2004**, 268, 241-253	5.1	119
93	Determination of the Size of Supported Pd Nanoparticles by X-ray Photoelectron Spectroscopy. Comparison with X-ray Diffraction, Transmission Electron Microscopy, and H2 Chemisorption Methods. *Journal of Physical Chemistry C*, **2010**, 114, 16677-16684	3.8	79
92	Recent developments in maleic acid synthesis from bio-based chemicals. *Sustainable Chemical Processes*, **2015**, 3,		77
91	Study of nickel nanoparticles supported on activated carbon prepared by aqueous hydrazine reduction. *Journal of Colloid and Interface Science*, **2006**, 299, 238-48	9.3	76
90	Hydrogen storage on nickel catalysts supported on amorphous activated carbon. *Catalysis Communications*, **2005**, 6, 777-783	3.2	71
89	Insights into the active surface species formed on Ta2O5 nanotubes in the catalytic oxidation of CO. *Physical Chemistry Chemical Physics*, **2014**, 16, 5755-62	3.6	62
88	Study of nickel catalysts supported on Al2O3, SiO2 or Nb2O5 oxides. *Journal of Molecular Catalysis A*, **2005**, 242, 81-90		62
87	Easy Access to Metallic Copper Nanoparticles with High Activity and Stability for CO Oxidation. *ACS Applied Materials & Interfaces*, **2015**, 7, 7987-94	9.5	60
86	Study of mesoporous CdS-quantum-dot-sensitized TiO2 films by using X-ray photoelectron spectroscopy and AFM. *Beilstein Journal of Nanotechnology*, **2014**, 5, 68-76	3	54
85	Selective hydrogenation of CO 2 into CO on a highly dispersed nickel catalyst obtained by magnetron sputtering deposition: A step towards liquid fuels. *Applied Catalysis B: Environmental*, **2017**, 209, 240-246	21.8	53
84	Highlights and challenges in the selective reduction of carbon dioxide to methanol. *Nature Reviews Chemistry*, **2021**, 5, 564-579	34.6	50
83	Ni□e intermetallic phases in CeO2-supported nickel catalysts synthesized by □adiolysis. *Catalysis Today*, **2006**, 113, 157-165	5.3	47
82	Selective oxidation of glucose to glucuronic acid by cesium-promoted gold nanoparticle catalyst. *Journal of Molecular Catalysis A*, **2016**, 422, 35-42		42
81	Characterization of alumina- and niobia-supported gold catalysts used for oxidation of glycerol. *Applied Catalysis A: General*, **2010**, 384, 70-77	5.1	41

80	Study of Ni-Ag/SiO2 catalysts prepared by reduction in aqueous hydrazine. *Journal of Colloid and Interface Science*, **2008**, 317, 166-74	9.3	39
79	Influence of Support Basic Sites in Green Oxidation of Biobased Substrates Using Au-Promoted Catalysts. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 16332-16340	8.3	39
78	Levoglucosan: a promising platform molecule?. *Green Chemistry*, **2020**, 22, 5859-5880	10	38
77	New Nb and Ta-BEAU zeolites: Direct synthesis, characterisation and surface properties. *Catalysis Today*, **2010**, 158, 170-177	5.3	35
76	Nickel niobia interaction in non-classical Ni/Nb2O5 catalysts. *Journal of Molecular Catalysis A*, **2006**, 256, 225-233		33
75	From sequential chemoenzymatic synthesis to integrated hybrid catalysis: taking the best of both worlds to open up the scope of possibilities for a sustainable future. *Catalysis Science and Technology*, **2018**, 8, 5708-5734	5.5	33
74	Advances in Base-Free Oxidation of Bio-Based Compounds on Supported Gold Catalysts. *Catalysts*, **2017**, 7, 352	4	32
73	Direct dehydration of 1,3-butanediol into butadiene over aluminosilicate catalysts. *Catalysis Science and Technology*, **2016**, 6, 5830-5840	5.5	30
72	Bimetallic Fe-Ni/SiO2 catalysts for furfural hydrogenation: Identification of the interplay between Fe and Ni during deposition-precipitation and thermal treatments. *Catalysis Today*, **2019**, 334, 162-172	5.3	30
71	Low temperature oxidation of methanol to methyl formate over Pd nanoparticles supported on α-Fe2O3. *Catalysis Science and Technology*, **2014**, 4, 738	5.5	29
70	Oxidation of methanol to methyl formate over supported Pd nanoparticles: insights into the reaction mechanism at low temperature. *Catalysis Science and Technology*, **2014**, 4, 3298-3305	5.5	28
69	Ni Promotion by Fe: What Benefits for Catalytic Hydrogenation?. *Catalysts*, **2019**, 9, 451	4	24
68	Biomass-derived Platform Molecules Upgrading through Catalytic Processes: Yielding Chemicals and Fuels. *Journal of the Japan Petroleum Institute*, **2015**, 58, 257-273	1	23
67	Identification of efficient promoters and selectivity trends in high temperature Fischer-Tropsch synthesis over supported iron catalysts. *Applied Catalysis B: Environmental*, **2020**, 273, 119028	21.8	22
66	Combining active phase and support optimization in MnO-Au nanoflowers: Enabling high activities towards green oxidations. *Journal of Colloid and Interface Science*, **2018**, 530, 282-291	9.3	20
65	Direct Methyl Formate Formation from Methanol over Supported Palladium Nanoparticles at Low Temperature. *ChemCatChem*, **2013**, 5, 339-348	5.2	19
64	Catalytic decarboxylation of fatty acids to hydrocarbons over non-noble metal catalysts: the state of the art. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 658-669	3.5	17
63	Hydroconversion of 5-Hydroxymethylfurfural to 2,5-Dimethylfuran and 2,5-Dimethyltetrahydrofuran over Non-promoted Ni/SBA-15. *ChemCatChem*, **2020**, 12, 2050-2059	5.2	16

62	Engineering the future: Perspectives in the 2,5-furandicarboxylic acid synthesis. *Catalysis Today*, **2020**, 354, 211-217	5.3	16
61	Preparation of nickel (oxide) nanoparticles confined in the secondary pore network of mesoporous scaffolds using melt infiltration. *Catalysis Today*, **2019**, 334, 48-58	5.3	15
60	Influence of High Temperature Synthesis on the Structure of Graphitic Carbon Nitride and Its Hydrogen Generation Ability. *Materials*, **2020**, 13,	3.5	15
59	Dehydration of Lactic Acid: The State of The Art. *ChemBioEng Reviews*, **2018**, 5, 34-56	5.2	15
58	CuxCryOz mixed oxide as a promising support for gold The effect of Au loading method on the effectiveness in oxidation reactions. *Catalysis Today*, **2012**, 187, 48-55	5.3	15
57	Modulation of the selectivity in partial oxidation of methanol over CuZnAl catalysts by adding CO 2 and/or H 2 into the reaction feed. *Applied Catalysis B: Environmental*, **2015**, 168-169, 14-24	21.8	14
56	Furfural Oxidation on Gold Supported on MnO2: Influence of the Support Structure on the Catalytic Performances. *Applied Sciences (Switzerland)*, **2018**, 8, 1246	2.6	14
55	NiAg catalysts prepared by reduction of Ni2+ ions in aqueous hydrazine II. Support effect. *Journal of Colloid and Interface Science*, **2009**, 332, 416-24	9.3	14
54	Au-based bimetallic catalysts: how the synergy between two metals affects their catalytic activity.. *RSC Advances*, **2019**, 9, 29888-29901	3.7	14
53	Mobility and versatility of the liquid bismuth promoter in the working iron catalysts for light olefin synthesis from syngas. *Chemical Science*, **2020**, 11, 6167-6182	9.4	12
52	A soft-chemistry assisted strong metal-support interaction on a designed plasmonic core-shell photocatalyst for enhanced photocatalytic hydrogen production. *Nanoscale*, **2020**, 12, 7011-7023	7.7	12
51	Catalytic abatement of CO over highly stable Pt supported on Ta2O5 nanotubes. *Catalysis Communications*, **2014**, 48, 50-54	3.2	11
50	Liquid Phase Furfural Oxidation under Uncontrolled pH in Batch and Flow Conditions: The Role of In Situ Formed Base. *Catalysts*, **2020**, 10, 73	4	11
49	Recent Advances in Carboxylation of Furoic Acid into 2,5-Furandicarboxylic Acid: Pathways towards Bio-Based Polymers. *ChemSusChem*, **2020**, 13, 5164-5172	8.3	11
48	Elucidating the structure of the graphitic carbon nitride nanomaterials X-ray photoelectron spectroscopy and X-ray powder diffraction techniques. *Dalton Transactions*, **2020**, 49, 12805-12813	4.3	11
47	Active phases for high temperature Fischer-Tropsch synthesis in the silica supported iron catalysts promoted with antimony and tin. *Applied Catalysis B: Environmental*, **2021**, 292, 120141	21.8	11
46	Plasmon-Induced Electrocatalysis with Multi-Component Nanostructures. *Materials*, **2018**, 12,	3.5	9
45	Fully integrated high-throughput methodology for the study of Ni- and Cu-supported catalysts for glucose hydrogenation. *Catalysis Today*, **2019**, 338, 72-80	5.3	9

44	Aerobic oxidation of 1,6-hexanediol to adipic acid over Au-based catalysts: the role of basic supports. *Catalysis Science and Technology*, **2020**, 10, 2644-2651	5.5	8
43	Cyclohexane Oxidation to Adipic Acid Under Green Conditions: A Scalable and Sustainable Process. *ChemCatChem*, **2018**, 10, 3680-3682	5.2	8
42	Supported Pd nanoparticles prepared by a modified water-in-oil microemulsion method. *Studies in Surface Science and Catalysis*, **2010**, 789-792	1.8	8
41	Insight on the promoting effect of Zr and Ti on the catalytic properties of Rh/SiO2 for partial oxidation of methane. *Applied Catalysis A: General*, **2010**, 384, 220-229	5.1	8
40	Synergetic Behavior of TiO2-Supported Pd(z)Pt(1−z) Catalysts in the Green Synthesis of Methyl Formate. *ChemCatChem*, **2016**, 8, 1157-1166	5.2	8
39	Exploiting the Synergetic Behavior of PtPd Bimetallic Catalysts in the Selective Hydrogenation of Glucose and Furfural. *Catalysts*, **2019**, 9, 132	4	7
38	Plasmon-enhanced electrocatalytic oxygen reduction in alkaline media on gold nanohole electrodes. *Journal of Materials Chemistry A*, **2020**, 8, 10395-10401	13	7
37	Low Temperature-High Selectivity Process over Supported Pd Nanoparticles in Partial Oxidation of Methanol. *ChemCatChem*, **2012**, 4, 72-75	5.2	7
36	Incorporation of group five elements into the faujasite structure. *Studies in Surface Science and Catalysis*, **2010**, 445-448	1.8	7
35	5-Hydroxymethylfurfural and Furfural Base-Free Oxidation over AuPd Embedded Bimetallic Nanoparticles. *Catalysts*, **2020**, 10, 75	4	7
34	Influence of the Preparation Method on Catalytic Properties of Pd/TiO2 Catalysts in the Reaction of Partial Oxidation of Methanol. *Current Catalysis*, **2013**, 2, 27-34	0.4	6
33	Ni/CeO2 catalysts prepared by aqueous hydrazine reduction. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 317, 116-122	5.1	6
32	Effect of antigen site and complement receptor status on the rate of cleavage of C3c antigen from red cell bound C3b. *Blood*, **1988**, 71, 786-790	2.2	6
31	Hybrid Conversion of 5 -Hydroxymethylfurfural to 5 -Aminomethyl- 2 -furancarboxylic acid: Toward New Bio-sourced Polymers. *ChemCatChem*, **2021**, 13, 247-259	5.2	6
30	Optimisation of catalysts coupling in multi-catalytic hybrid materials: perspectives for the next revolution in catalysis. *Green Chemistry*, **2021**, 23, 1942-1954	10	6
29	Lactic Acid Conversion to Acrylic Acid Over Fluoride-Substituted Hydroxyapatites. *Frontiers in Chemistry*, **2020**, 8, 421	5	5
28	Efficient Oxidative Esterification of Furfural Using Au Nanoparticles Supported on Group 2 Alkaline Earth Metal Oxides. *Catalysts*, **2020**, 10, 430	4	5
27	Multicatalytic Hybrid Materials for Biocatalytic and Chemoenzymatic Cascades: Strategies for Multicatalyst (Enzyme) Co-Immobilization. *Catalysts*, **2021**, 11, 936	4	5

26	Regioselective Acylation of Levoglucosan Catalyzed by Candida Antarctica (CaLB) Lipase Immobilized on Epoxy Resin. *Sustainability*, **2019**, 11, 6044	3.6	5
25	Restructuring of Gold-Palladium Alloyed Nanoparticles: A Step towards More Active Catalysts for Oxidation of Alcohols. *ChemCatChem*, **2019**, 11, 4021-4027	5.2	4
24	Synthesis and characterization of a magnetic hybrid catalyst containing lipase and palladium and its application on the dynamic kinetic resolution of amines. *Molecular Catalysis*, **2020**, 493, 111106	3.3	4
23	Selective aqueous phase hydrogenation of xylose to xylitol over SiO2-supported Ni and Ni-Fe catalysts: Benefits of promotion by Fe. *Applied Catalysis B: Environmental*, **2021**, 298, 120564	21.8	4
22	Structure□performance correlations in the hybrid oxide-supported copper□inc SAPO-34 catalysts for direct synthesis of dimethyl ether from CO2. *Journal of Materials Science*, **2022**, 57, 3268-3279	4.3	3
21	Study of the Direct CO2 Carboxylation Reaction on Supported Metal Nanoparticles. *Catalysts*, **2021**, 11, 326	4	3
20	Efficient Promoters and Reaction Paths in the CO2 Hydrogenation to Light Olefins over Zirconia-Supported Iron Catalysts. *ACS Catalysis*, **2022**, 12, 3211-3225	13.1	3
19	Raman Spectroscopy Applied to Monitor Furfural Liquid-Phase Oxidation Catalyzed by Supported Gold Nanoparticles. *ACS Omega*, **2020**, 5, 14283-14290	3.9	2
18	Hybrid monometallic and bimetallic copper□palladium zeolite catalysts for direct synthesis of dimethyl ether from CO2. *New Journal of Chemistry*,	3.6	2
17	Agroindustrial Wastes as a Support for the Immobilization of Lipase from : Synthesis of Hexyl Laurate. *Biomolecules*, **2021**, 11,	5.9	2
16	The importance of the shape of Cu2O nanocrystals on plasmon-enhanced oxygen evolution reaction in alkaline media. *Electrochimica Acta*, **2021**, 390, 138810	6.7	2
15	Oxidation of but-3-en-1,2-diol: Green access to hydroxymethionine intermediate. *Catalysis Today*, **2017**, 279, 164-167	5.3	1
14	One-pot organometallic synthesis of alumina-embedded Pd nanoparticles. *Dalton Transactions*, **2017**, 46, 14318-14324	4.3	1
13	Lipase-catalyzed acylation of levoglucosan in continuous flow: antibacterial and biosurfactant studies.. *RSC Advances*, **2022**, 12, 3027-3035	3.7	1
12	Effect of the Colloidal Preparation Method for Supported Preformed Colloidal Au Nanoparticles for the Liquid Phase Oxidation of 1,6-Hexanediol to Adipic Acid. *Catalysts*, **2022**, 12, 196	4	1
11	Micro-/mesopores confined ultrasmall Cu nanoparticles in SBA-15 as a highly efficient and robust catalyst for furfural hydrogenation to furfuryl alcohol. *Applied Catalysis A: General*, **2022**, 633, 118527	5.1	1
10	Enhancing the activity of gold supported catalysts by oxide coating: towards efficient oxidations. *Green Chemistry*, **2021**, 23, 8453-8457	10	1
9	Influence of Pd and Pt Promotion in Gold Based Bimetallic Catalysts on Selectivity Modulation in Furfural Base-Free Oxidation. *Catalysts*, **2021**, 11, 1226	4	1

List of Publications

8	Artificial Neural Networks To Distinguish Charcoal from Eucalyptus and Native Forests Based on Their Mineral Components. *Energy & Fuels*, **2020**, 34, 9599-9608	4.1	1
7	Ni-Fe alloying enhances the efficiency of the maltose hydrogenation process: The role of surface species and kinetic study. *Applied Catalysis B: Environmental*, **2022**, 313, 121446	21.8	1
6	On the Use of Diazonium Salts in the Design of Catalytic Hybrid Materials and Coatings. *Physical Chemistry in Action*, **2022**, 287-308		1
5	The Use of CO2 in the Production of Bioplastics for an Even Greener Chemistry. *Sustainability*, **2021**, 13, 11278	3.6	0
4	Fast and Highly Selective Continuous-Flow Catalytic Hydrogenation of a Cafestol-Kahweol Mixture Obtained from Green Coffee Beans. *ACS Omega*, **2020**, 5, 25712-25722	3.9	0
3	Efficient non-noble Ni□u based catalysts for the valorization of palmitic acid through a decarboxylation reaction. *Catalysis Science and Technology*, **2021**, 11, 3025-3038	5.5	0
2	Effect of antigen site and complement receptor status on the rate of cleavage of C3c antigen from red cell bound C3b. *Blood*, **1988**, 71, 786-790	2.2	
1	X-Ray Photoelectron Spectroscopy (XPS): Principles and Application for the Analysis of Photoactive Materials. *Springer Handbooks*, **2022**, 249-271	1.3	