

Weiping Deng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6753997/publications.pdf>

Version: 2024-02-01

61
papers

7,721
citations

50273

46
h-index

106340

65
g-index

70
all docs

70
docs citations

70
times ranked

8084
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in heterogeneous selective oxidation catalysis for sustainable chemistry. <i>Chemical Society Reviews</i> , 2014, 43, 3480.	38.1	653
2	MgO- and Pt-Promoted TiO ₂ as an Efficient Photocatalyst for the Preferential Reduction of Carbon Dioxide in the Presence of Water. <i>ACS Catalysis</i> , 2014, 4, 3644-3653.	11.2	380
3	Photocatalytic Conversion of Carbon Dioxide with Water into Methane: Platinum and Copper(I) Oxide Co-catalysts with a Core-Shell Structure. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5776-5779.	13.8	358
4	Base-Free Aerobic Oxidation of 5-Hydroxymethyl-furfural to 2,5-Furandicarboxylic Acid in Water Catalyzed by Functionalized Carbon Nanotube-Supported Au-Pd Alloy Nanoparticles. <i>ACS Catalysis</i> , 2014, 4, 2175-2185.	11.2	353
5	Chemical synthesis of lactic acid from cellulose catalysed by lead(II) ions in water. <i>Nature Communications</i> , 2013, 4, 2141.	12.8	327
6	Conversion of Cellulose into Sorbitol over Carbon Nanotube-Supported Ruthenium Catalyst. <i>Catalysis Letters</i> , 2009, 133, 167-174.	2.6	290
7	Selective transformation of carbon dioxide into lower olefins with a bifunctional catalyst composed of ZnGa ₂ O ₄ and SAPO-34. <i>Chemical Communications</i> , 2018, 54, 140-143.	4.1	265
8	Cd-graphene and Cd-CNT nanocomposites as visible-light photocatalysts for hydrogen evolution and organic dye degradation. <i>Catalysis Science and Technology</i> , 2012, 2, 969.	4.1	261
9	Hydrotalcite-Supported Gold Catalyst for the Oxidant-Free Dehydrogenation of Benzyl Alcohol: Studies on Support and Gold Size Effects. <i>Chemistry - A European Journal</i> , 2011, 17, 1247-1256.	3.3	235
10	Photocatalytic reduction of CO ₂ with H ₂ O: significant enhancement of the activity of Pt-TiO ₂ in CH ₄ formation by addition of MgO. <i>Chemical Communications</i> , 2013, 49, 2451.	4.1	220
11	Oxidative conversion of lignin and lignin model compounds catalyzed by CeO ₂ -supported Pd nanoparticles. <i>Green Chemistry</i> , 2015, 17, 5009-5018.	9.0	210
12	Carbon nanotube-supported gold nanoparticles as efficient catalysts for selective oxidation of cellobiose into gluconic acid in aqueous medium. <i>Chemical Communications</i> , 2009, , 7179.	4.1	178
13	Synthesis of lower olefins by hydrogenation of carbon dioxide over supported iron catalysts. <i>Catalysis Today</i> , 2013, 215, 186-193.	4.4	175
14	Catalytic amino acid production from biomass-derived intermediates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5093-5098.	7.1	168
15	Fischer-Tropsch Catalysts for the Production of Hydrocarbon Fuels with High Selectivity. <i>ChemSusChem</i> , 2014, 7, 1251-1264.	6.8	164
16	Polyoxometalates as efficient catalysts for transformations of cellulose into platform chemicals. <i>Dalton Transactions</i> , 2012, 41, 9817.	3.3	153
17	Mesoporous Beta Zeolite-Supported Ruthenium Nanoparticles for Selective Conversion of Synthesis Gas to C ₅ -C ₁₁ Isoparaffins. <i>ACS Catalysis</i> , 2012, 2, 441-449.	11.2	149
18	Transformation of Cellulose and its Derived Carbohydrates into Formic and Lactic Acids Catalyzed by Vanadyl Cations. <i>ChemSusChem</i> , 2014, 7, 1557-1567.	6.8	148

#	ARTICLE	IF	CITATIONS
19	Catalytic transformations of cellulose and cellulose-derived carbohydrates into organic acids. <i>Catalysis Today</i> , 2014, 234, 31-41.	4.4	147
20	Gold nanoparticles on hydrotalcites as efficient catalysts for oxidant-free dehydrogenation of alcohols. <i>Chemical Communications</i> , 2010, 46, 1547.	4.1	133
21	Selective Conversion of Cellobiose and Cellulose into Gluconic Acid in Water in the Presence of Oxygen, Catalyzed by Polyoxometalate-Supported Gold Nanoparticles. <i>Chemistry - A European Journal</i> , 2012, 18, 2938-2947.	3.3	132
22	Conversion of cellobiose into sorbitol in neutral water medium over carbon nanotube-supported ruthenium catalysts. <i>Journal of Catalysis</i> , 2010, 271, 22-32.	6.2	131
23	Recent advances in understanding the key catalyst factors for Fischer-Tropsch synthesis. <i>Journal of Energy Chemistry</i> , 2013, 22, 27-38.	12.9	130
24	Acid-catalysed direct transformation of cellulose into methyl glucosides in methanol at moderate temperatures. <i>Chemical Communications</i> , 2010, 46, 2668.	4.1	126
25	Polyoxometalate-supported ruthenium nanoparticles as bifunctional heterogeneous catalysts for the conversions of cellobiose and cellulose into sorbitol under mild conditions. <i>Chemical Communications</i> , 2011, 47, 9717.	4.1	118
26	Functionalized Carbon Nanotubes for Biomass Conversion: The Base-Free Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid over Platinum Supported on a Carbon Nanotube Catalyst. <i>ChemCatChem</i> , 2015, 7, 2853-2863.	3.7	113
27	Transformation of Methane to Propylene: A Two-Step Reaction Route Catalyzed by Modified CeO ₂ Nanocrystals and Zeolites. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2438-2442.	13.8	110
28	Transformation of cellulose and related carbohydrates into lactic acid with bifunctional Al-Sn catalysts. <i>Green Chemistry</i> , 2018, 20, 735-744.	9.0	109
29	Effect of size of catalytically active phases in the dehydrogenation of alcohols and the challenging selective oxidation of hydrocarbons. <i>Chemical Communications</i> , 2011, 47, 9275.	4.1	96
30	Osmium-Catalyzed Selective Oxidations of Methane and Ethane with Hydrogen Peroxide in Aqueous Medium. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1199-1209.	4.3	94
31	Visible-Light-Driven Cleavage of C ^α -O Linkage for Lignin Valorization to Functionalized Aromatics. <i>ChemSusChem</i> , 2019, 12, 5023-5031.	6.8	86
32	Active site and reaction mechanism for the epoxidation of propylene by oxygen over CuOx/SiO ₂ catalysts with and without Cs ⁺ modification. <i>Journal of Catalysis</i> , 2013, 299, 53-66.	6.2	81
33	Direct transformation of cellulose into methyl and ethyl glucosides in methanol and ethanol media catalyzed by heteropolyacids. <i>Catalysis Today</i> , 2011, 164, 461-466.	4.4	76
34	Catalytic transformations of cellulose and its derived carbohydrates into 5-hydroxymethylfurfural, levulinic acid, and lactic acid. <i>Science China Chemistry</i> , 2015, 58, 29-46.	8.2	76
35	Catalytic conversion of cellulose-based biomass and glycerol to lactic acid. <i>Journal of Energy Chemistry</i> , 2019, 32, 138-151.	12.9	74
36	Hydrogenation of carbon dioxide to light olefins over non-supported iron catalyst. <i>Chinese Journal of Catalysis</i> , 2013, 34, 956-963.	14.0	71

#	ARTICLE	IF	CITATIONS
37	Catalytic Transformation of Cellulose and Its Derivatives into Functionalized Organic Acids. <i>ChemSusChem</i> , 2018, 11, 1995-2028.	6.8	71
38	Carbon-supported palladium catalysts for the direct synthesis of hydrogen peroxide from hydrogen and oxygen. <i>Journal of Catalysis</i> , 2014, 319, 15-26.	6.2	61
39	Magnesia-supported gold nanoparticles as efficient catalysts for oxidative esterification of aldehydes or alcohols with methanol to methyl esters. <i>Catalysis Today</i> , 2014, 233, 147-154.	4.4	57
40	Catalytic transformation of cellulose and its derived carbohydrates into chemicals involving C C bond cleavage. <i>Journal of Energy Chemistry</i> , 2015, 24, 595-607.	12.9	55
41	Direct conversion of cellulose into ethanol catalysed by a combination of tungstic acid and zirconia-supported Pt nanoparticles. <i>Chemical Communications</i> , 2019, 55, 4303-4306.	4.1	54
42	Efficient Catalysts for the Green Synthesis of Adipic Acid from Biomass. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4712-4719.	13.8	54
43	Niobic Acid Nanosheets Synthesized by a Simple Hydrothermal Method as Efficient Brønsted Acid Catalysts. <i>Chemistry of Materials</i> , 2013, 25, 3277-3287.	6.7	50
44	Production of organic acids from biomass resources. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2016, 2, 54-58.	5.9	49
45	Selective activation of the C=O bonds in lignocellulosic biomass for the efficient production of chemicals. <i>Chinese Journal of Catalysis</i> , 2015, 36, 1440-1460.	14.0	47
46	SrNb ₂ O ₆ nanoplates as efficient photocatalysts for the preferential reduction of CO ₂ in the presence of H ₂ O. <i>Chemical Communications</i> , 2015, 51, 3430-3433.	4.1	44
47	A Comparative Study of Size Effects in the Au-Catalyzed Oxidative and Non-Oxidative Dehydrogenation of Benzyl Alcohol. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2187-2196.	3.3	41
48	Catalytic transformation of 2,5-furandicarboxylic acid to adipic acid over niobic acid-supported Pt nanoparticles. <i>Chemical Communications</i> , 2019, 55, 8013-8016.	4.1	41
49	Carbon nanotube-supported Au-Pd alloy with cooperative effect of metal nanoparticles and organic ketone/quinone groups as a highly efficient catalyst for aerobic oxidation of amines. <i>Chemical Communications</i> , 2016, 52, 6805-6808.	4.1	40
50	Zirconia-supported rhenium oxide as an efficient catalyst for the synthesis of biomass-based adipic acid ester. <i>Chemical Communications</i> , 2019, 55, 11017-11020.	4.1	40
51	Ru particle size effect in Ru/CNT-catalyzed Fischer-Tropsch synthesis. <i>Journal of Energy Chemistry</i> , 2013, 22, 321-328.	12.9	39
52	Development of Bifunctional Catalysts for the Conversions of Cellulose or Cellobiose into Polyols and Organic Acids in Water. <i>Catalysis Surveys From Asia</i> , 2012, 16, 91-105.	2.6	36
53	Upcycling Plastic Wastes into Value-Added Products by Heterogeneous Catalysis. <i>ChemSusChem</i> , 2022, 15, .	6.8	29
54	Significant Synergistic Effect between Supported Ruthenium and Copper Oxides for Propylene Epoxidation by Oxygen. <i>ChemPlusChem</i> , 2012, 77, 27-30.	2.8	23

#	ARTICLE	IF	CITATIONS
55	Mesoporous H-ZSM-5 as an efficient catalyst for conversions of cellulose and cellobiose into methyl glucosides in methanol. <i>Catalysis Today</i> , 2016, 274, 60-66.	4.4	23
56	Characterizations of Unsupported and Supported Rhodium ^{III} Iron Phosphate Catalysts Effective for Oxidative Carbonylation of Methane. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2044-2053.	3.1	16
57	Cs-substituted tungstophosphate-supported ruthenium nanoparticles as efficient and robust bifunctional catalysts for the conversion of inulin and cellulose into hexitols in water in the presence of H ₂ . <i>RSC Advances</i> , 2014, 4, 43131-43141.	3.6	12
58	Catalytic conversion of methyl chloride to lower olefins over modified H-ZSM-34. <i>Chinese Journal of Catalysis</i> , 2013, 34, 2047-2056.	14.0	10
59	Catalytic valorization of biomass and bioplatfroms to chemicals through deoxygenation. <i>Advances in Catalysis</i> , 2020, , 1-108.	0.2	9
60	Efficient Catalysts for the Green Synthesis of Adipic Acid from Biomass. <i>Angewandte Chemie</i> , 2021, 133, 4762-4769.	2.0	7
61	Catalytic oxidation of lignin and model compounds over nano europium oxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 626, 126846.	4.7	5