Min Wang

List of Publications by Year
in descending order

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84	4,462	94269 37	106150 65
papers	citations	h-index	g-index

89	89	89	4463
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visible-light-driven coproduction of diesel precursors and hydrogen from lignocellulose-derived methylfurans. Nature Energy, 2019, 4, 575-584.	19.8	268
2	Two-Step, Catalytic Câ€“C Bond Oxidative Cleavage Process Converts Lignin Models and Extracts to Aromatic Acids. ACS Catalysis, 2016, 6, 6086-6090.	5.5	207
3	Photocatalytic Cleavage of Câ€“C Bond in Lignin Models under Visible Light on Mesoporous Graphitic Carbon Nitride through Ï€â€“Ï€ Stacking Interaction. ACS Catalysis, 2018, 8, 4761-4771.	5.5	205
4	Visible-Light-Driven Self-Hydrogen Transfer Hydrogenolysis of Lignin Models and Extracts into Phenolic Products. ACS Catalysis, 2017, 7, 4571-4580.	5.5	191
5	Sustainable Productions of Organic Acids and Their Derivatives from Biomass via Selective Oxidative Cleavage of Câ€“C Bond. ACS Catalysis, 2018, 8, 2129-2165.	5.5	188
6	The copolymerization reactivity of diols with 2,5-furandicarboxylic acid for furan-based copolyester materials. Journal of Materials Chemistry, 2012, 22, 3457.	6.7	165
7	Photocatalytic Oxidationâ€“Hydrogenolysis of Lignin Î²-O-4 Models via a Dual Light Wavelength Switching Strategy. ACS Catalysis, 2016, 6, 7716-7721.	5.5	165
8	Visible Light Gold Nanocluster Photocatalyst: Selective Aerobic Oxidation of Amines to Imines. ACS Catalysis, 2017, 7, 3632-3638.	5.5	165
9	Carbon Modification of Nickel Catalyst for Depolymerization of Oxidized Lignin to Aromatics. ACS Catalysis, 2018, 8, 1614-1620.	5.5	134
10	The cascade synthesis of quinazolinones and quinazolines using an Î±-MnO₂ catalyst and tert-butyl hydroperoxide (TBHP) as an oxidant. Chemical Communications, 2015, 51, 9205-9207.	2.2	120
11	Î²-O-4 Bond Cleavage Mechanism for Lignin Model Compounds over Pd Catalysts Identified by Combination of First-Principles Calculations and Experiments. ACS Catalysis, 2016, 6, 5589-5598.	5.5	116
12	Acid promoted Câ€“C bond oxidative cleavage of Î²-O-4 and Î²-1 lignin models to esters over a copper catalyst. Green Chemistry, 2017, 19, 702-706.	4.6	113
13	Catalytic Scissoring of Lignin into Aryl Monomers. Advanced Materials, 2019, 31, e1901866.	11.1	112
14	Investigations on the crystal plane effect of ceria on gold catalysis in the oxidative dehydrogenation of alcohols and amines in the liquid phase. Chemical Communications, 2014, 50, 292-294.	2.2	93
15	Surface Sulfate Ion on CdS Catalyst Enhances Syngas Generation from Biopolyols. Journal of the American Chemical Society, 2021, 143, 6533-6541.	6.6	87
16	Preparation of superhydrophobic cauliflower-like silica nanospheres with tunable water adhesion. Journal of Materials Chemistry, 2011, 21, 6962.	6.7	84
17	Dealkylation of Lignin to Phenol via Oxidationâ€“Hydrogenation Strategy. ACS Catalysis, 2018, 8, 6837-6843.	5.5	74
18	Oxidative C(OH) C bond cleavage of secondary alcohols to acids over a copper catalyst with molecular oxygen as the oxidant. Journal of Catalysis, 2017, 348, 160-167.	3.1	72

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19	Photo splitting of bio-polyols and sugars to methanol and syngas. Nature Communications, 2020, 11, 1083.	5.8	72
20	Synthesis and properties of furan-based imine-linked porous organic frameworks. Polymer Chemistry, 2012, 3, 2346.	1.9	66
21	New protocol of copper-catalyzed oxidative C(CO) C bond cleavage of aryl and aliphatic ketones to organic acids using O2 as the terminal oxidant. Journal of Catalysis, 2017, 346, 170-179.	3.1	64
22	Oxygen-controlled photo-reforming of biopolyols to CO over Z-scheme CdS@g-C3N4. CheM, 2022, 8, 465-479.	5.8	61
23	Superhydrophobic materials as efficient catalysts for hydrocarbon selective oxidation. Chemical Communications, 2011, 47, 1336-1338.	2.2	58
24	Facile preparation of highly-dispersed cobalt-silicon mixed oxide nanosphere and its catalytic application in cyclohexane selective oxidation. Nanoscale Research Letters, 2011, 6, 586.	3.1	57
25	Covalent triazine framework catalytic oxidative cleavage of lignin models and organosolv lignin. Green Chemistry, 2018, 20, 1270-1279.	4.6	57
26	tert-Butyl hydroperoxide (TBHP)-mediated oxidative self-coupling of amines to imines over a Î±-MnO₂ catalyst. Green Chemistry, 2014, 16, 2523-2527.	4.6	56
27	Conversion of Isobutene and Formaldehyde to Diol using Praseodymium-Doped CeO₂ Catalyst. ACS Catalysis, 2016, 6, 8248-8254.	5.5	55
28	Advances in selective catalytic transformation of ployols to value-added chemicals. Chinese Journal of Catalysis, 2013, 34, 492-507.	6.9	53
29	An investigation of the effects of CeO2 crystal planes on the aerobic oxidative synthesis of imines from alcohols and amines. Chinese Journal of Catalysis, 2015, 36, 1623-1630.	6.9	52
30	Insights into support wettability in tuning catalytic performance in the oxidation of aliphatic alcohols to acids. Chemical Communications, 2013, 49, 6623.	2.2	47
31	Formation of Strong Basicity on Covalent Triazine Frameworks as Catalysts for the Oxidation of Methylene Compounds. ACS Applied Materials & Interfaces, 2018, 10, 12612-12617.	4.0	47
32	Single Atom Alloy Preparation and Applications in Heterogeneous Catalysis. Chinese Journal of Chemistry, 2019, 37, 977-988.	2.6	47
33	Promoted role of Cu(NO3)2 on aerobic oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran over VOSO4. Applied Catalysis A: General, 2014, 482, 231-236.	2.2	46
34	Photocatalytic coupling of amines to imidazoles using a Moâ€“ZnIn₂S₄ catalyst. Green Chemistry, 2017, 19, 5172-5177.	4.6	44
35	Photocatalytic Upgrading of Lignin Oil to Diesel Precursors and Hydrogen. Angewandte Chemie - International Edition, 2021, 60, 16399-16403.	7.2	44
36	Superhydrophobic SiO2-based nanocomposite modified with organic groups as catalyst for selective oxidation of ethylbenzene. Journal of Materials Chemistry A, 2014, 2, 8126.	5.2	39

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37	NH₂OHâ€“Mediated Lignin Conversion to Isoxazole and Nitrile. ACS Sustainable Chemistry and Engineering, 2018, 6, 3748-3753.	3.2	39
38	Oxygen-vacancy-mediated catalytic methanation of lignocellulose at temperatures below 200Â°C. Joule, 2021, 5, 3031-3044.	11.7	39
39	Cuprous Oxide Catalyzed Oxidative Cï£¿C Bond Cleavage for Cï£¿N Bond Formation: Synthesis of Cyclic Imides from Ketones and Amines. Angewandte Chemie - International Edition, 2015, 54, 14061-14065.	7.2	37
40	Efficient benzaldehyde photosynthesis coupling photocatalytic hydrogen evolution. Journal of Energy Chemistry, 2022, 66, 52-60.	7.1	37
41	Preparation of Sulfur-Modulated Nickel/Carbon Composites from Lignosulfonate for the Electrocatalytic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid. ACS Applied Energy Materials, 2021, 4, 1182-1188.	2.5	37
42	Preparation of self-assembled cobalt hydroxide nanoflowers and the catalytic decomposition of cyclohexyl hydroperoxide. Journal of Materials Chemistry, 2011, 21, 12609.	6.7	34
43	Super-hydrophobic yolkâ€“shell nanostructure with enhanced catalytic performance in the reduction of hydrophobic nitroaromatic compounds. Chemical Communications, 2013, 49, 9591.	2.2	33
44	Formate-assisted analytical pyrolysis of kraft lignin to phenols. Bioresource Technology, 2019, 278, 464-467.	4.8	33
45	Self-hydrogen transfer hydrogenolysis of native lignin over Pd-PdO/TiO2. Applied Catalysis B: Environmental, 2022, 301, 120767.	10.8	33
46	The cascade synthesis of Î±,Î²-unsaturated ketones via oxidative Câ€“C coupling of ketones and primary alcohols over a ceria catalyst. Catalysis Science and Technology, 2016, 6, 1693-1700.	2.1	32
47	Vanadyl sulfate: A simple catalyst for oxidation of alcohols with molecular oxygen in combination with 2,2,6,6-tetramethyl-piperidyl-1-oxyl. Catalysis Communications, 2010, 11, 732-735.	1.6	31
48	Gold nanoparticles confined in the interconnected carbon foams with high temperature stability. Chemical Communications, 2012, 48, 10404.	2.2	31
49	Preparation of copper (II) ion-containing bisimidazolium ionic liquid bridged periodic mesoporous organosilica and the catalytic decomposition of cyclohexyl hydroperoxide. Catalysis Communications, 2012, 29, 149-152.	1.6	28
50	Preparation of hydrophobic hollow silica nanospheres with porous shells and their application in pollutant removal. RSC Advances, 2013, 3, 1158-1164.	1.7	26
51	Oxidative coupling of anilines to azobenzenes using heterogeneous manganese oxide catalysts. Catalysis Science and Technology, 2016, 6, 1940-1945.	2.1	26
52	Catalytic conversion of 5-hydroxymethylfurfural into 2,5-furandiamidine dihydrochloride. Green Chemistry, 2016, 18, 974-978.	4.6	26
53	Nanocoating of magnetic cores with sulfonic acid functionalized shells for the catalytic dehydration of fructose to 5-hydroxymethylfurfural. Chinese Journal of Catalysis, 2014, 35, 703-708.	6.9	25
54	Piezocatalytic oxidation of 5-hydroxymethylfurfural to 5-formyl-2-furancarboxylic acid over Pt decorated hydroxyapatite. Applied Catalysis B: Environmental, 2022, 309, 121281.	10.8	23

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55	Plasma-assisted construction of CdO quantum dots/CdS semi-coherent interface for the photocatalytic bio-CO evolution. Chem Catalysis, 2022, 2, 1394-1406.	2.9	23
56	Sulfidation of nickel foam with enhanced electrocatalytic oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid. Dalton Transactions, 2021, 50, 10922-10927.	1.6	21
57	Thermally robust silica-enclosed Au 25 nanocluster and its catalysis. Chinese Journal of Catalysis, 2016, 37, 1787-1793.	6.9	20
58	Microwave-Assisted Catalytic Cleavage of Câ€“C Bond in Lignin Models by Bifunctional Pt/CDC-SiC. ACS Sustainable Chemistry and Engineering, 2020, 8, 38-43.	3.2	20
59	Mesoporous strong base supported cobalt oxide as a catalyst for the oxidation of ethylbenzene. Catalysis Science and Technology, 2014, 4, 3606-3610.	2.1	19
60	Cobalt ammonia complex mediated preparation of hollow silica nanospheres with multi-nanochambers. Journal of Materials Chemistry, 2012, 22, 11904.	6.7	18
61	Preferential cleavage of C C bonds over C N bonds at interfacial CuO Cu2O sites. Journal of Catalysis, 2015, 330, 458-464.	3.1	18
62	Effective Utilization of in Situ Generated Hydroperoxide by a Coâ€“SiO₂@Tiâ€“Si Coreâ€“Shell Catalyst in the Oxidation Reactions. ACS Catalysis, 2018, 8, 683-691.	5.5	18
63	Catalytic Oxidation of Alcohol to Carboxylic Acid with a Hydrophobic Cobalt Catalyst in Hydrocarbon Solvent. Chemistry - an Asian Journal, 2017, 12, 2404-2409.	1.7	17
64	Capping experiments reveal multiple surface active sites in CeO₂ and their cooperative catalysis. RSC Advances, 2019, 9, 15229-15237.	1.7	17
65	Designing a yolkâ€“shell type porous organic network using a phenyl modified template. Chemical Communications, 2014, 50, 9079-9082.	2.2	16
66	Preparation of a ZnIn₂S₄â€“ZnAlO_x nanocomposite for photoreduction of CO₂ to CO. Catalysis Science and Technology, 2021, 11, 3422-3427.	2.1	16
67	Alkali Î±-MnO₂/Na_xMnO₂ collaboratively catalyzed ammoxidationâ€“Pinner tandem reaction of aldehydes. Catalysis Science and Technology, 2016, 6, 7429-7436.	2.1	15
68	Lignin: Catalytic Scissoring of Lignin into Aryl Monomers (Adv. Mater. 50/2019). Advanced Materials, 2019, 31, 1970355.	11.1	14
69	Nitrogen modulated NiMoO₄ with enhanced activity for the electrochemical oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid. Catalysis Science and Technology, 2021, 11, 7326-7330.	2.1	14
70	Organic linker geometry controlled synthesis of coordination polymer spheres and their thermal transformation to yolkâ€“shell metal oxides. Journal of Materials Chemistry A, 2014, 2, 15480-15487.	5.2	11
71	Epoxide hydrolysis and alcoholysis reactions over crystalline Moâ€“Vâ€“O oxide. RSC Advances, 2016, 6, 70842-70847.	1.7	11
72	Wettability Control of Coâ€“SiO₂@Tiâ€“Si Coreâ€“Shell Catalyst to Enhance the Oxidation Activity with the In Situ Generated Hydroperoxide. ACS Applied Materials & Interfaces, 2019, 11, 14702-14712.	4.0	11

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73	A Schiff Base Modified Pd Catalyst for Selective Hydrogenation of 2-Butyne-1,4-diol to 2-Butene-1,4-diol. Catalysis Letters, 2020, 150, 2150-2157.	1.4	9
74	A Schiff-Base Modified Pt Nano-Catalyst for Highly Efficient Synthesis of Aromatic Azo Compounds. Catalysts, 2019, 9, 339.	1.6	8
75	ZnIn2S4 nanosheet growth on amine-functionalized SiO2 for the photocatalytic reduction of CO2. Catalysis Science and Technology, 2022, 12, 606-612.	2.1	7
76	Coupling reaction in catalytic decomposition of cyclohexyl hydroperoxide. Catalysis Communications, 2017, 101, 77-80.	1.6	6
77	Organic Acid Anions Modified Î±-Co(OH)‹sub›2‹/sub› with Enhanced Activity for the Decomposition of Cyclohexyl Hydroperoxide. ACS Applied Nano Materials, 2019, 2, 2176-2183.	2.4	6
78	What and where are the active sites of oxide-supported nanostructured metal catalysts?. Chinese Journal of Catalysis, 2014, 35, 453-456.	6.9	5
79	Synthesis of 1,3-Diols from Isobutene and HCHO via Prins Condensation-Hydrolysis Using CeO2 Catalysts: Effects of Crystal Plane and Oxygen Vacancy. Inorganics, 2017, 5, 75.	1.2	5
80	Selective decomposition of cyclohexyl hydroperoxide by copper ion-containing quaternary ammonium salts in alkali-free medium. Catalysis Communications, 2013, 40, 55-58.	1.6	4
81	Generation of Strong Basic Site on Hypercrosslinked Porous Polymers as Catalyst for the Catalytic Oxidation of Methylene Compounds. ChemistrySelect, 2020, 5, 549-553.	0.7	4
82	Phenyl modification of Mnâ€containing mesoporous silica and catalytic oxidation of toluene. Journal of Chemical Technology and Biotechnology, 2010, 85, 283-287.	1.6	3
83	Preparation of NiO-N/C composites for electrochemical oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid. Biomass Conversion and Biorefinery, 2023, 13, 17247-17254.	2.9	3
84	Photocatalytic Upgrading of Lignin Oil to Diesel Precursors and Hydrogen. Angewandte Chemie, 2021, 133, 16535-16539.	1.6	1