Wei Li

List of Publications by Year
in descending order

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108 papers	4,715 citations	87888 38 h-index	110387 64 g-index
110 all docs	110 docs citations	110 times ranked	5378 citing authors

#	ARTICLE	IF	CITATIONS
1	Regulating the coordination environment of Ru single-atom catalysts and unravelling the reaction path of acetylene hydrochlorination. Green Energy and Environment, 2023, 8, 1141-1153.	8.7	13
2	A promising single-atom Co-N-C catalyst for efficient CO2 electroreduction and high-current solar conversion of CO2 to CO. Applied Catalysis B: Environmental, 2022, 304, 120958.	20.2	28
3	Phosphine-oxide organic ligand improved Cu-based catalyst for acetylene hydrochlorination. Applied Catalysis A: General, 2022, 630, 118461.	4.3	13
4	Selective Catalytic Reduction of NO<i>_x</i> by Methanol on Metal-Free Zeolite with BrÃ¸nsted and Lewis Acid Pair. ACS Catalysis, 2022, 12, 2403-2414.	11.2	10
5	A photo-assisted electrochemical-based demonstrator for green ammonia synthesis. Journal of Energy Chemistry, 2022, 68, 826-834.	12.9	7
6	Diminishing the Uncoordinated N Species in Co-N-C Catalysts toward Highly Efficient Electrochemical CO₂ Reduction. ACS Catalysis, 2022, 12, 2513-2521.	11.2	38
7	Controllable assembly of Fe₃O₄â€“Fe₃C@MC by <i>in situ</i> doping of Mn for CO₂ selective hydrogenation to light olefins. Catalysis Science and Technology, 2022, 12, 2360-2368.	4.1	4
8	In Situ Construction of a Co/ZnO@C Heterojunction Catalyst for Efficient Hydrogenation of Biomass Derivative under Mild Conditions. ACS Applied Materials & Interfaces, 2022, 14, 17195-17207.	8.0	14
9	Copper Clusters Encapsulated in Carbonaceous Mesoporous Silica Nanospheres for the Valorization of Biomass-Derived Molecules. ACS Catalysis, 2022, 12, 5711-5725.	11.2	34
10	Directly converting cellulose into high yield sorbitol by tuning the electron structure of Ru2P anchored in agricultural straw biochar. Journal of Cleaner Production, 2022, 362, 132364.	9.3	6
11	Modulation of MIL-101(Cr) morphology and selective removal of dye from water. Journal of the Iranian Chemical Society, 2021, 18, 159-166.	2.2	3
12	Tuning hydrodearomatization performance of interstitial NixW alloy catalyst by controlling the doping of a small amount of tungsten. Catalysis Today, 2021, 364, 202-210.	4.4	7
13	Constructing green mercury-free catalysts with single pyridinic N species for acetylene hydrochlorination and mechanism investigation. Catalysis Science and Technology, 2021, 11, 2327-2339.	4.1	10
14	Constructing the singleâ€site of pyridineâ€based organic compounds for acetylene hydrochlorination: From theory to experiment. Applied Organometallic Chemistry, 2021, 35, e6318.	3.5	4
15	Typical transition metal single-atom catalysts with a metal-pyridine N structure for efficient CO2 electroreduction. Applied Catalysis B: Environmental, 2021, 296, 120331.	20.2	44
16	N-doped ordered mesoporous carbon (N-OMC) confined Fe3O4-FeCx heterojunction for efficient conversion of CO2 to light olefins. Applied Catalysis B: Environmental, 2021, 299, 120639.	20.2	47
17	Anchoring strategy for highly active copper nanoclusters in hydrogenation of renewable biomass-derived compounds. Applied Catalysis B: Environmental, 2021, 299, 120651.	20.2	19
18	Active centre and reactivity descriptor of a green single component imidazole catalyst for acetylene hydrochlorination. Physical Chemistry Chemical Physics, 2020, 22, 2849-2857.	2.8	12

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19	High performance of supported Cu-based catalysts modulated via phosphamide coordination in acetylene hydrochlorination. Applied Catalysis A: General, 2020, 591, 117408.	4.3	32
20	Demystifying the mechanism of NMP ligands in promoting Cu-catalyzed acetylene hydrochlorination: insights from a density functional theory study. Inorganic Chemistry Frontiers, 2020, 7, 3204-3216.	6.0	23
21	Mechanism exploring of acetylene hydrochlorination using hexamethylenetetramine as a single active site metal-free catalyst. Catalysis Communications, 2020, 147, 106147.	3.3	6
22	Single-Atom Au^Iâ€“N₃ Site for Acetylene Hydrochlorination Reaction. ACS Catalysis, 2020, 10, 1865-1870.	11.2	76
23	N-doped porous carbon hollow microspheres encapsulated with iron-based nanocomposites as advanced bifunctional catalysts for rechargeable Zn-air battery. Journal of Energy Chemistry, 2020, 49, 14-21.	12.9	59
24	Adjusting the active sites of Cu and ZnO by coordination effect of H₃BTC and its influence on enhanced RWGS reaction. Sustainable Energy and Fuels, 2020, 4, 2937-2949.	4.9	5
25	ZIF-supported AuCu nanoalloy for ammonia electrosynthesis from nitrogen and thin air. Journal of Materials Chemistry A, 2020, 8, 8868-8874.	10.3	30
26	Bio-friendly controllable synthesis of silver nanoparticles and their enhanced antibacterial property. Catalysis Today, 2019, 327, 196-202.	4.4	28
27	Relationship between Pt particle size and catalyst activity for catalytic oxidation of ultrahighâ€concentration formaldehyde. Applied Organometallic Chemistry, 2019, 33, e5217.	3.5	11
28	DFT studies on the mechanism of acetylene hydrochlorination over gold-based catalysts and guidance for catalyst construction. Inorganic Chemistry Frontiers, 2019, 6, 2944-2952.	6.0	9
29	MOMTPPC improved Cu-based heterogeneous catalyst with high efficiency for acetylene hydrochlorination. Molecular Catalysis, 2019, 479, 110612.	2.0	19
30	Constructing Pyridinic N-Rich Aromatic Ladder Structure Catalysts from Industrially Available Polyacrylonitrile Resin for Acetylene Hydrochlorination. ACS Sustainable Chemistry and Engineering, 2019, 7, 17979-17989.	6.7	21
31	Constructing a fragmentary g-C₃N₄ framework with rich nitrogen defects as a highly efficient metal-free catalyst for acetylene hydrochlorination. Catalysis Science and Technology, 2019, 9, 3753-3762.	4.1	30
32	Nitrogen-Doped Carbon Cages Encapsulating CuZn Alloy for Enhanced CO₂ Reduction. ACS Applied Materials & Interfaces, 2019, 11, 25100-25107.	8.0	20
33	Selective hydrogenation of CO₂ over a Ce promoted Cu-based catalyst confined by SBA-15. Inorganic Chemistry Frontiers, 2019, 6, 1799-1812.	6.0	20
34	Molecular design of ionic liquids as novel non-metal catalysts for the acetylene hydrochlorination reaction. Physical Chemistry Chemical Physics, 2019, 21, 7635-7644.	2.8	7
35	N-doped activated carbon from used dyeing wastewater adsorbent as a metal-free catalyst for acetylene hydrochlorination. Chemical Engineering Journal, 2019, 371, 118-129.	12.7	62
36	Facile inâ€…situ Encapsulation of Highly Dispersed Ni@MCMâ€41 for the Transâ€Decalin Production from Hydrogenation of Naphthalene at Low Temperature. ChemCatChem, 2019, 11, 1286-1294.	3.7	13

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37	Investigation on hydroisomerization and hydrocracking of C15â€“C18 n-alkanes utilizing a hollow tubular Ni-Mo/SAPO-11 catalyst with high selectivity of jet fuel. Catalysis Today, 2019, 330, 109-116.	4.4	46
38	Nondestructive construction of Lewis acid sites on the surface of supported nickel phosphide catalysts by atomic-layer deposition. Journal of Catalysis, 2018, 361, 12-22.	6.2	30
39	Sulfur and nitrogen co-doped mesoporous carbon with enhanced performance for acetylene hydrochlorination. Journal of Catalysis, 2018, 359, 161-170.	6.2	63
40	Eco-friendly controllable synthesis of highly dispersed ZIF-8 embedded in porous Al2O3 and its hydrogenation properties after encapsulating Pt nanoparticles. Applied Catalysis B: Environmental, 2018, 227, 13-23.	20.2	26
41	Metalâ€“organic frameworkâ€derived cobalt and nitrogen coâ€doped porous carbon with fourâ€coordinated Coâ€“N_{<i>x</i>} for efficient acetylene hydrochlorination. Applied Organometallic Chemistry, 2018, 32, e4570.	3.5	9
42	The Synergistic Effect of CuZnCeO_x in Controlling the Formation of Methanol and CO from CO₂ Hydrogenation. ChemCatChem, 2018, 10, 4438-4449.	3.7	42
43	Nitrogen-doped Carbon Derived from ZIF-8 as a High-performance Metal-free Catalyst for Acetylene Hydrochlorination. Scientific Reports, 2017, 7, 39789.	3.3	79
44	Pd/C-catalyzed synthesis of N -aryl and N -alkyl isoquinolones via C H/N H activation. Catalysis Today, 2017, 297, 292-297.	4.4	15
45	The synthesis and mechanistic studies of a highly active nickel phosphide catalyst for naphthalene hydrodearomatization. RSC Advances, 2017, 7, 8677-8687.	3.6	38
46	Highly Efficient Ru@IL/AC To Substitute Mercuric Catalyst for Acetylene Hydrochlorination. ACS Catalysis, 2017, 7, 3510-3520.	11.2	93
47	Conformal Coating of Co/Nâ€Doped Carbon Layers into Mesoporous Silica for Highly Efficient Catalytic Dehydrogenationâ€“Hydrogenation Tandem Reactions. Small, 2017, 13, 1702243.	10.0	45
48	Reaction mechanisms of acetylene hydrochlorination catalyzed by AuCl3/C catalysts: A density functional study. Catalysis Communications, 2017, 101, 120-124.	3.3	11
49	Improvement of imidazolium-based ionic liquids on the activity of ruthenium catalyst for acetylene hydrochlorination. Molecular Catalysis, 2017, 443, 220-227.	2.0	33
50	Efficient hydrogenation performance improvement of MoP and Ni₂P catalysts by adjusting the electron distribution around Mo and Ni atoms. RSC Advances, 2016, 6, 65081-65088.	3.6	6
51	Catalytic performance and deoxygenation path of methyl palmitate on Ni₂P/SiO₂ synthesized using the thermal decomposition of nickel hypophosphite. RSC Advances, 2016, 6, 31308-31315.	3.6	15
52	Hydrochlorination of acetylene catalyzed by an activated carbon supported chlorotriphenylphosphine gold complex. Catalysis Science and Technology, 2016, 6, 7946-7955.	4.1	38
53	MOF-derived nitrogen-doped porous carbon as metal-free catalysts for acetylene hydrochlorination. Journal of Industrial and Engineering Chemistry, 2016, 44, 146-154.	5.8	70
54	Controllable Assembly of Al-MIL-100 via an Inducing Occupied Effect and Its Selective Adsorption Activity. Crystal Growth and Design, 2016, 16, 3639-3646.	3.0	12

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55	Hydrodeoxygenation of methyl palmitate over MCM-41 supported nickel phosphide catalysts. Catalysis Today, 2016, 259, 467-473.	4.4	50
56	Ru-Co(III)-Cu(II)/SAC catalyst for acetylene hydrochlorination. Applied Catalysis B: Environmental, 2016, 189, 56-64.	20.2	83
57	Bimetallic Auâ€"Sn/AC catalysts for acetylene hydrochlorination. Journal of Industrial and Engineering Chemistry, 2016, 35, 177-184.	5.8	55
58	Preparation of mesoporous TiO2â€"C composites as an advanced Ni catalyst support for reduction of 4-nitrophenol. New Journal of Chemistry, 2016, 40, 4200-4205.	2.8	21
59	Non-mercury catalytic acetylene hydrochlorination over activated carbon-supported Au catalysts promoted by CeO₂. Catalysis Science and Technology, 2016, 6, 1821-1828.	4.1	23
60	Deoxygenation of methyl palmitate over SiO₂-supported nickel phosphide catalysts: effects of pressure and kinetic investigation. RSC Advances, 2015, 5, 107533-107539.	3.6	14
61	A Potential Regularity for Enhancing the Hydrogenation Properties of Ni₂P. Journal of Physical Chemistry C, 2015, 119, 2557-2565.	3.1	20
62	Pd/Câ€Catalyzed Synthesis of Isoquinolones through Cï£¿H Activation. ChemCatChem, 2015, 7, 605-608.	3.7	33
63	Bio-aviation fuel production from hydroprocessing castor oil promoted by the nickel-based bifunctional catalysts. Bioresource Technology, 2015, 183, 93-100.	9.6	174
64	Study of the active site for acetylene hydrochlorination in AuCl3/C catalysts. Journal of Catalysis, 2015, 330, 273-279.	6.2	43
65	Ultradispersed Palladium Nanoparticles in Three-Dimensional Dendritic Mesoporous Silica Nanospheres: Toward Active and Stable Heterogeneous Catalysts. ACS Applied Materials & Interfaces, 2015, 7, 17450-17459.	8.0	110
66	Synthesis of bulk and supported nickel phosphide using microwave radiation for hydrodeoxygenation of methyl palmitate. RSC Advances, 2015, 5, 53623-53628.	3.6	15
67	Rapid controllable synthesis of Al-MIL-96 and its adsorption of nitrogenous VOCs. Catalysis Today, 2015, 258, 132-138.	4.4	19
68	Comparison of four different synthetic routes of Ni₂P/TiO₂â€"Al₂O₃catalysts for hydrodesulfurization of dibenzothiophene. RSC Advances, 2015, 5, 38774-38782.	3.6	19
69	Biphase Stratification Approach to Three-Dimensional Dendritic Biodegradable Mesoporous Silica Nanospheres. Nano Letters, 2014, 14, 923-932.	9.1	639
70	Active ruthenium species in acetylene hydrochlorination. Applied Catalysis A: General, 2014, 488, 28-36.	4.3	82
71	Non-mercury catalytic acetylene hydrochlorination over spherical activated-carbon-supported Auâ€"Co(III)â€"Cu(II) catalysts. Journal of Catalysis, 2014, 316, 141-148.	6.2	108
72	Ultra low temperature CO and HC oxidation over Cu-based mixed oxides for future automotive applications. Applied Catalysis B: Environmental, 2014, 160-161, 365-373.	20.2	25

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73	Efficient adsorption and desorption of Pb2+ from aqueous solution. Journal of Environmental Chemical Engineering, 2013, 1, 838-843.	6.7	12
74	A feasible approach to the synthesis of nickel phosphide for hydrodesulfurization. Journal of Catalysis, 2013, 299, 1-9.	6.2	75
75	Microwaveâ€Assisted Synthesis of HKUSTâ€1 and Functionalized HKUSTâ€1â€@H₃PW₁₂O₄₀: Selective Adsorption of Heavy Metal Ions in Water Analyzed with Synchrotron Radiation. ChemPhysChem, 2013, 14, 2825-2832.	2.1	83
76	Synthesis of Efficient Oil-Soluble ZnAl2O4 Nanoparticles. Asian Journal of Chemistry, 2013, 25, 2729-2732.	0.3	1
77	The synthesis and evaluation of highly active Ni2Pâ€"MoS2 catalysts using the decomposition of hypophosphites. Catalysis Science and Technology, 2012, 2, 2356.	4.1	13
78	Synthesis of monodispersed ZnAl2O4 nanoparticles and their tribology properties as lubricant additives. Materials Research Bulletin, 2012, 47, 4305-4310.	5.2	96
79	Deactivation mechanism of AuCl3 catalyst in acetylene hydrochlorination reaction: a DFT study. RSC Advances, 2012, 2, 4814.	3.6	84
80	Kinetic and thermodynamic studies on the adsorption of xylenol orange onto MIL-101(Cr). Chemical Engineering Journal, 2012, 183, 60-67.	12.7	206
81	The synthesis and investigation of ruthenium phosphide catalysts. Catalysis Communications, 2011, 14, 114-117.	3.3	41
82	Effect of template in MCM-41 on the adsorption of aniline from aqueous solution. Journal of Environmental Management, 2011, 92, 2939-2943.	7.8	49
83	Progress on cleaner production of vinyl chloride monomers over non-mercury catalysts. Frontiers of Chemical Science and Engineering, 2011, 5, 514-520.	4.4	92
84	Synthesis of Nickel Nanoparticles Supported on Boehmite for Selective Hydrogenation of p-Nitrophenol and p-Chloronitrobenzene. Catalysis Letters, 2010, 137, 261-266.	2.6	73
85	Morphologically controlled synthesis of mesoporous alumina using sodium lauroyl glutamate surfactant. Materials Letters, 2010, 64, 1858-1860.	2.6	13
86	A novel synthetic approach to synthesizing bulk and supported metal phosphides. Journal of Catalysis, 2010, 271, 413-415.	6.2	116
87	Alternative synthesis of bulk and supported nickel phosphide from the thermal decomposition of hypophosphites. Journal of Catalysis, 2009, 263, 1-3.	6.2	120
88	Preparation of Silica Sol-Supported NiB Nanoclusters and Their Catalytic Hydrogenation Performance. Chinese Journal of Catalysis, 2009, 30, 89-91.	14.0	6
89	Zirconyl chloride: an efficient recyclable catalyst for synthesis of 5-aryl-2-oxazolidinones from aziridines and CO2 under solvent-free conditions. Tetrahedron, 2009, 65, 6204-6210.	1.9	81
90	Synthesis of nickel nanoparticles supported on metal oxides using electroless plating: Controlling the dispersion and size of nickel nanoparticles. Journal of Colloid and Interface Science, 2009, 330, 359-366.	9.4	53

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91	New Approach for Highly Active Ni₂P Catalyst through Hydrogenâ€Thermal Treatment of Nickel(II)â€Triphenylphosphine Complex. Chemistry - an Asian Journal, 2009, 4, 1794-1797.	3.3	18
92	Synthesis of bulk and alumina-supported Î³-Mo2N catalysts by a single-step complex decomposition method. Catalysis Today, 2008, 131, 156-161.	4.4	4
93	Synthesis of a Pd on Niâ€“B nanoparticle catalyst by the replacement reaction method for hydrodechlorination. Journal of Catalysis, 2008, 256, 323-330.	6.2	31
94	Synthesis of a supported nickel boride catalyst under microwave irradiation. Catalysis Communications, 2008, 9, 1432-1438.	3.3	14
95	Catalytic dechlorination of monochlorobenzene with a new type of nanoscale Ni(B)/Fe(B) bimetallic catalytic reductant. Chemosphere, 2008, 72, 53-58.	8.2	67
96	Synthesis and Magnetic Property of Fe-B Amorphous Alloy Nanowires by Inducing DC Magnetic Field. Acta Physico-chimica Sinica, 2008, 24, 927-931.	0.6	2
97	Low-Temperature Approach to Synthesize Iron Nitride from Amorphous Iron. Inorganic Chemistry, 2008, 47, 1261-1263.	4.0	18
98	Controlled Synthesis of Supported Nickel Boride Catalyst Using Electroless Plating. Journal of Physical Chemistry C, 2007, 111, 8587-8593.	3.1	29
99	Expanded graphite applied in the catalytic process as a catalyst support. Catalysis Today, 2007, 125, 278-281.	4.4	60
100	Advances in chemical synthesis and application of metal-metalloid amorphous alloy nanoparticulate catalysts. Frontiers of Chemical Engineering in China, 2007, 1, 87-95.	0.6	22
101	Hydrogenation of furfuryl alcohol to tetrahydrofurfuryl alcohol on NiB/SiO2 amorphous alloy catalyst. Frontiers of Chemical Engineering in China, 2007, 1, 151-154.	0.6	19
102	Sulfolene Hydrogenation over an Amorphous Niâˆ’B Alloy Catalyst on MgO. Industrial & Engineering Chemistry Research, 2006, 45, 2229-2234.	3.7	41
103	A novel Ni2Mo3N/MCM41 catalyst for the hydrogenation of aromatics. Catalysis Letters, 2005, 100, 73-77.	2.6	11
104	Novel Ni2Mo3N/zeolite catalysts used for aromatics hydrogenation as well as polycyclic hydrocarbon ring opening. Catalysis Communications, 2005, 6, 656-660.	3.3	17
105	Synthesis and characterization of a porous amorphous Niâ€“B catalyst on titania by silver-catalyzed electroless plating. Journal of Materials Chemistry, 2005, 15, 4928.	6.7	43
106	New Approach to the Synthesis of Bulk and Supported Bimetallic Molybdenum Nitrides. Chemistry of Materials, 2005, 17, 3262-3267.	6.7	46
107	The interactions between the NiB amorphous alloy and TiO2 support in the NiB/TiO2 amorphous catalysts. Applied Catalysis A: General, 2004, 259, 185-190.	4.3	36
108	Preparation and catalytic properties of amorphous alloys in hydrogenation of sulfolene. Applied Catalysis A: General, 2003, 243, 215-223.	4.3	35