Zhihong Wei

List of Publications by Year
in descending order

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56 papers	1,899 citations	236925 25 h-index	265206 42 g-index
63 all docs	63 docs citations	63 times ranked	1864 citing authors

#	Article	IF	Citations
1	Manganese(I)â€Catalyzed Enantioselective Hydrogenation of Ketones Using a Defined Chiral PNP Pincer Ligand. Angewandte Chemie - International Edition, 2017, 56, 11237-11241.	13.8	180
2	Novel tertiary amino containing thin film composite membranes prepared by interfacial polymerization for CO2 capture. Journal of Membrane Science, 2010, 362, 265-278.	8.2	155
3	A route to form initial hydrocarbon pool species in methanol conversion to olefins over zeolites. Journal of Catalysis, 2014, 317, 277-283.	6.2	151
4	Polymethylbenzene or Alkene Cycle? Theoretical Study on Their Contribution to the Process of Methanol to Olefins over H-ZSM-5 Zeolite. Journal of Physical Chemistry C, 2015, 119, 28482-28498.	3.1	105
5	Cooperative catalytic methoxycarbonylation of alkenes: uncovering the role of palladium complexes with hemilabile ligands. Chemical Science, 2018, 9, 2510-2516.	7.4	94
6	Methanol to Olefins over H-MCM-22 Zeolite: Theoretical Study on the Catalytic Roles of Various Pores. ACS Catalysis, 2015, 5, 1131-1144.	11.2	72
7	Manganese(I)â€Catalyzed Enantioselective Hydrogenation of Ketones Using a Defined Chiral PNP Pincer Ligand. Angewandte Chemie, 2017, 129, 11389-11393.	2.0	64
8	Cobalt Pincer Complexes for Catalytic Reduction of Carboxylic Acid Esters. Chemistry - A European Journal, 2018, 24, 1046-1052.	3.3	63
9	Homogeneous cobalt-catalyzed reductive amination for synthesis of functionalized primary amines. Nature Communications, 2019, 10, 5443.	12.8	57
10	Visualization of the Formation of Interfacially Polymerized Film by an Optical Contact Angle Measuring Device. Journal of Physical Chemistry C, 2012, 116, 11496-11506.	3.1	56
11	Cobaltâ€Catalyzed Aqueous Dehydrogenation of Formic Acid. Chemistry - A European Journal, 2019, 25, 8459-8464.	3.3	54
12	Stability and Reactivity of Intermediates of Methanol Related Reactions and Câ€“C Bond Formation over H-ZSM-5 Acidic Catalyst: A Computational Analysis. Journal of Physical Chemistry C, 2016, 120, 6075-6087.	3.1	50
13	Methane formation mechanism in the initial methanol-to-olefins process catalyzed by SAPO-34. Catalysis Science and Technology, 2016, 6, 5526-5533.	4.1	43
14	Chemoselective semihydrogenation of alkynes catalyzed by manganese(<scp>i</scp>)-PNP pincer complexes. Catalysis Science and Technology, 2020, 10, 3994-4001.	4.1	43
15	Synthesis of Chainlike ZSM-5 Zeolites: Determination of Synthesis Parameters, Mechanism of Chainlike Morphology Formation, and Their Performance in Selective Adsorption of Xylene Isomers. ACS Applied Materials & Interfaces, 2017, 9, 14899-14910.	8.0	39
16	Isomerization of Allylic Alcohols to Ketones Catalyzed by Wellâ€Defined Iron PNP Pincer Catalysts. Chemistry - A European Journal, 2018, 24, 4043-4049.	3.3	38
17	Enantioselective Hydrogenation of Ketones using Different Metal Complexes with a Chiral PNP Pincer Ligand. Advanced Synthesis and Catalysis, 2019, 361, 1913-1920.	4.3	37
18	Synthesis of a molecularly defined single-active site heterogeneous catalyst for selective oxidation of N-heterocycles. Nature Communications, 2018, 9, 1465.	12.8	35

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19	Selective Baseâ€free Transfer Hydrogenation of Î±,Î²â€Unsaturated Carbonyl Compounds using iPrOH or EtOH as Hydrogen Source. Chemistry - A European Journal, 2018, 24, 2725-2734.	3.3	34
20	Theoretical Insights into the Mechanism of Olefin Elimination in the Methanol-to-Olefin Process over HZSM-5, HMOR, HBEA, and HMCM-22 Zeolites. Journal of Physical Chemistry A, 2014, 118, 8901-8910.	2.5	33
21	Ligandâ€and Solventâ€Tuned Chemoselective Carbonylation of Bromoaryl Triflates. Chemistry - A European Journal, 2017, 23, 13369-13378.	3.3	32
22	Exploring the mechanisms of aqueous methanol dehydrogenation catalyzed by defined PNP Mn and Re pincer complexes under base-free as well as strong base conditions. Catalysis Science and Technology, 2018, 8, 3649-3665.	4.1	32
23	Tuning the Selectivity of Palladium Catalysts for Hydroformylation and Semihydrogenation of Alkynes: Experimental and Mechanistic Studies. ACS Catalysis, 2020, 10, 12167-12181.	11.2	31
24	General and selective synthesis of primary amines using Ni-based homogeneous catalysts. Chemical Science, 2020, 11, 4332-4339.	7.4	29
25	Product Distribution Control for Glucosamine Condensation: Nuclear Magnetic Resonance (NMR) Investigation Substantiated by Density Functional Calculations. Industrial & Engineering Chemistry Research, 2017, 56, 2925-2934.	3.7	27
26	A General and Highly Selective Palladiumâ€Catalyzed Hydroamidation of 1,3â€Diynes. Angewandte Chemie - International Edition, 2021, 60, 371-379.	13.8	26
27	Evolution of Aromatic Species in Supercages and Its Effect on the Conversion of Methanol to Olefins over H-MCM-22 Zeolite: A Density Functional Theory Study. Journal of Physical Chemistry C, 2016, 120, 27964-27979.	3.1	24
28	Mechanism of the self-condensation of GlcNH2: insights from in situ NMR spectroscopy and DFT study. Applied Catalysis B: Environmental, 2017, 202, 420-429.	20.2	22
29	Toward Green Acylation of (Hetero)arenes: Palladium-Catalyzed Carbonylation of Olefins to Ketones. ACS Central Science, 2018, 4, 30-38.	11.3	22
30	Kinetics and thermodynamics of polymethylbenzene formation over zeolites with different pore sizes for understanding the mechanisms of methanol to olefin conversion â€“ a computational study. Catalysis Science and Technology, 2016, 6, 5326-5335.	4.1	21
31	Reaction Mechanism for Direct Cyclization of Linear C₅, C₆, and C₇ Alkenes over Hâ€ITQâ€13 Zeolite Investigated Using Density Functional Theory. ChemPhysChem, 2018, 19, 496-503.	2.1	18
32	Reaction mechanism for the conversion of methanol to olefins over H-ITQ-13 zeolite: a density functional theory study. Catalysis Science and Technology, 2018, 8, 521-533.	4.1	18
33	Benyzl Alcohol Dehydrogenative Coupling Catalyzed by Defined Mn and Re PNP Pincer Complexes â€“ A Computational Mechanistic Study. European Journal of Inorganic Chemistry, 2018, 2018, 4643-4657.	2.0	16
34	Ironâ€“PNPâ€Pincerâ€Catalyzed Transfer Dehydrogenation of Secondary Alcohols. ChemSusChem, 2019, 12, 2988-2993.	6.8	14
35	Manganese PNP-pincer catalyzed isomerization of allylic/homo-allylic alcohols to ketones â€“ activity, selectivity, efficiency. Catalysis Science and Technology, 2019, 9, 6327-6334.	4.1	14
36	Hydrogen-bond-driven supramolecular self-assembly of diacetylene derivatives for topochemical polymerization in solution. Polymer Chemistry, 2020, 11, 1947-1953.	3.9	13

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37	Bifunctional aliphatic PNP pincer catalysts for hydrogenation: Mechanisms and scope. Advances in Inorganic Chemistry, 2019, 73, 323-384.	1.0	13
38	Transfer hydrogenation of N-heteroarenes with 2-propanol and ethanol enabled by manganese catalysis. Organic Chemistry Frontiers, 2021, 8, 6901-6908.	4.5	13
39	Donorâ€“acceptor duality of the transition-metal-like B₂ core in coreâ€“shell-like metallo-borospherenes La₃&[B₂@B₁₇]^{â^'} and La₃&[B₂@B₁₈]^{â^'}. RSC Advances, 2020, 10, 34225-34230.	3.6	12
40	Hydrogenation of phenyl-substituted Cî€,N, Cî€N,Cî€,C, Cî€Ć and Cî€Ó functional groups by Cr, Mo and W PNP pincer complexes â€“ a DFT study. Catalysis Science and Technology, 2017, 7, 2298-2307.	4.1	11
41	Insight into the Methylation of Alkenes and Aromatics with Methanol over Zeolite Catalysts by Linear Scaling Relations. Journal of Physical Chemistry C, 2020, 124, 13789-13798.	3.1	11
42	Mechanisms of Co^{II} and Acid Jointly Catalyzed Domino Conversion of CO₂, H₂, and CH₃OH to Dialkoxymethane: A DFT Study. ACS Catalysis, 2021, 11, 6908-6919.	11.2	9
43	Unraveling the Relationship between Zeolite Structure and MTO Product Distribution by Theoretical Study of the Reaction Mechanism. Journal of Physical Chemistry C, 2021, 125, 26472-26483.	3.1	9
44	Exploring the activities of vanadium, niobium, and tantalumÂPNP pincer complexes in the hydrogenation of phenyl-substituted CN, CN, CC, CC, and CO functional groups. Comptes Rendus Chimie, 2018, 21, 303-309.	0.5	8
45	Versatile Fluorinated Building Blocks by Stereoselective (Per)fluoroalkenylation of Ketones. European Journal of Organic Chemistry, 2020, 2020, 70-81.	2.4	8
46	A General and Highly Selective Palladiumâ€Catalyzed Hydroamidation of 1,3â€Ðiynes. Angewandte Chemie, 2021, 133, 375-383.	2.0	7
47	Catalytic Activity of Aliphatic PNP Ligated Co^{III/I} Amine and Amido Complexes in Hydrogenation Reactionâ€"Structure, Stability, and Substrate Dependence. ACS Catalysis, 2021, 11, 4593-4605.	11.2	6
48	Catalytic and mechanistic studies of a highly active and E-selective Co(<scp>ii</scp>) PNN^H pincer catalyst system for transfer-semihydrogenation of internal alkynes. Inorganic Chemistry Frontiers, 2022, 9, 761-770.	6.0	5
49	(In situ) spectroscopic studies on state-of-the-art Pd(<scp>ii</scp>) catalysts in solution for the alkoxycarbonylation of alkenes. Catalysis Science and Technology, 2022, 12, 3175-3189.	4.1	5
50	Catalytic Performance and Mechanistic Insights into the Synthesis of Polyoxymethylene Dimethyl Ethers from Dimethoxymethane and Trioxymethylene over ZSM-5 Zeolite. Catalysis Letters, 2021, 151, 670-684.	2.6	4
51	Structure, magnetic properties and spin density of two alternative Mn(<scp>ii</scp>) coordination polymers based on 1,4-bis(2â€²-carboxyphenoxy)benzene. Dalton Transactions, 2022, 51, 4869-4877.	3.3	4
52	Salicylideneanilines encapsulated mesoporous silica functionalized gold nanoparticles: a low temperature calibrated fluorescent thermometer. RSC Advances, 2015, 5, 77056-77061.	3.6	3
53	Supramolecular-interaction-mediated aggregation of anticarcinogens on triformyl cholic acid-functionalized Fe₃O₄ nanoparticles and their dual-targeting treatment for liver cancer. New Journal of Chemistry, 2021, 45, 6880-6888.	2.8	3
54	In Silico Investigation of Ligand-Regulated Palladium-Catalyzed Formic Acid Dehydrative Decomposition under Acidic Conditions. Organometallics, 2022, 41, 246-258.	2.3	3

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55	Trimethyloxonium ion â€“ a zeolite confined mobile and efficient methyl carrier at low temperatures: a DFT study coupled with microkinetic analysis. Catalysis Science and Technology, 2022, 12, 3328-3342.	4.1	2
56	Ironâ€“PNPâ€Pincerâ€Catalyzed Transfer Dehydrogenation of Secondary Alcohols. ChemSusChem, 2019, 12, 2833-2833.	6.8	0