

# Jie Zhang

## List of Publications by Year in descending order

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59  
papers

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citations

304368

22  
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all docs

59  
docs citations

59  
times ranked

2163  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Efficient Nickel Catalyst for the Reduction of Carbon Dioxide with a Borane. <i>Journal of the American Chemical Society</i> , 2010, 132, 8872-8873.	6.6	385
2	Photogeneration of Hydrogen from Water Using an Integrated System Based on TiO <sub>2</sub> and Platinum(II) Diimine Dithiolate Sensitizers. <i>Journal of the American Chemical Society</i> , 2007, 129, 7726-7727.	6.6	176
3	Mechanistic Insights into C–S Cross-Coupling Reactions Catalyzed by Nickel Bis(phosphinite) Pincer Complexes. <i>Organometallics</i> , 2010, 29, 6393-6401.	1.1	132
4	Pincer-Ligated Nickel Hydridoborate Complexes: the Dormant Species in Catalytic Reduction of Carbon Dioxide with Boranes. <i>Inorganic Chemistry</i> , 2013, 52, 37-47.	1.9	129
5	Elucidation of the Formation Mechanisms of the Octahydrotriborate Anion (B <sub>3</sub> H <sub>8</sub> <sup>−</sup> ) through the Nucleophilicity of the B–H Bond. <i>Journal of the American Chemical Society</i> , 2018, 140, 6718-6726.	6.6	68
6	O-Vacancy-enriched NiO hexagonal platelets fabricated on Ni foam as a self-supported electrode for extraordinary pseudocapacitance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7099-7106.	5.2	61
7	Highly efficient reduction of carbon dioxide with a borane catalyzed by bis(phosphinite) pincer ligated palladium thiolate complexes. <i>Chemical Communications</i> , 2016, 52, 14262-14265.	2.2	54
8	Hydroboration of CO <sub>2</sub> catalyzed by bis(phosphinite) pincer ligated nickel thiolate complexes. <i>Dalton Transactions</i> , 2017, 46, 4504-4509.	1.6	53
9	Formation Mechanisms, Structure, Solution Behavior, and Reactivity of Aminodiborane. <i>Journal of the American Chemical Society</i> , 2015, 137, 12406-12414.	6.6	42
10	A Giant Mo/Ta/W Ternary Mixed-Addenda Polyoxometalate with Efficient Photocatalytic Activity for Primary Amine Coupling. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 43287-43293.	4.0	42
11	Substituent effects on N–S bond dissociation energies and kinetic stability of nickel arylthiolate complexes supported by a bis(phosphinite)-based pincer ligand. <i>Dalton Transactions</i> , 2012, 41, 7959.	1.6	38
12	Organoboron–Functionalization Enables the Hierarchical Assembly of Giant Polyoxometalate Nanocapsules. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8537-8540.	7.2	37
13	2D Hybrid Architectures Constructed from Two Kinds of Polyoxovanadates as Efficient Heterogeneous Catalysts for Cyanosilylation and Knoevenagel Condensation. <i>Inorganic Chemistry</i> , 2020, 59, 10578-10590.	1.9	36
14	Carbon-to-Metal Hydrogen Atom Transfer: A Direct Observation Using Time-Resolved Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 15684-15685.	6.6	33
15	Synthesis of dibenzothiazines from sulfides by one-pot N–O-transfer and intramolecular C–H amination. <i>Green Chemistry</i> , 2018, 20, 2953-2958.	4.6	31
16	Controllable Synthesis and Catalytic Performance of Nanocrystals of Rare-Earth-Polyoxometalates. <i>Inorganic Chemistry</i> , 2018, 57, 6624-6631.	1.9	29
17	Synthesis, structure and property of boron-based metal–organic materials. <i>Coordination Chemistry Reviews</i> , 2021, 435, 213783.	9.5	29
18	Using CS <sub>2</sub> to Probe the Mechanistic Details of Decarboxylation of Bis(phosphinite)-Ligated Nickel Pincer Formate Complexes. <i>Organometallics</i> , 2016, 35, 4077-4082.	1.1	28

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19	Lanthanide derivatives of Ta/W mixed-addendum POMs as proton-conducting materials. Dalton Transactions, 2017, 46, 4157-4160.	1.6	27
20	Mediator Enhanced Water Oxidation Using $\text{Rb}_4[\text{Ru}^{\text{II}}(\text{bpy})_3]_5\{\{\text{Ru}^{\text{III}}\}_4\text{O}_4(\text{OH})_2\}_2/\text{S}$ Film Modified Electrodes. Inorganic Chemistry, 2014, 53, 7561-7570.	2.6	26
21	Iodine-Substituted Lithium/Sodium <i>closo</i> -Decaborates: Syntheses, Characterization, and Solid-State Ionic Conductivity. ACS Applied Materials & Interfaces, 2021, 13, 17554-17564.	4.0	26
22	Kinetic and Mechanistic Studies of Carbon-to-Metal Hydrogen Atom Transfer Involving Os-Centered Radicals: Evidence for Tunneling. Journal of the American Chemical Society, 2014, 136, 3572-3578.	6.6	25
23	Metathesis reactivity of bis(phosphinite) pincer ligated nickel chloride, isothiocyanate and azide complexes. Journal of Organometallic Chemistry, 2016, 804, 132-141.	0.8	23
24	Application of POCOP Pincer Nickel Complexes to the Catalytic Hydroboration of Carbon Dioxide. Catalysts, 2018, 8, 508.	1.6	22
25	Hydrosilylation of Aldehydes and Ketones Catalysed by Bis(phosphinite) Pincer Platinum Hydride Complexes. Advanced Synthesis and Catalysis, 2020, 362, 2709-2715.	2.1	22
26	Brønsted and Lewis Base Behavior of Sodium Amidotrihydridoborate ( $\text{NaNH}_2\text{BH}_3$ ). European Journal of Inorganic Chemistry, 2017, 2017, 4541-4545.	1.0	20
27	Palladium(ii) complexes supported by PBP and POCOP pincer ligands: a comparison of their structure, properties and catalytic activity. Dalton Transactions, 2019, 48, 17633-17643.	1.6	20
28	Catalyst design based on agostic interactions: synthesis, characterization, and catalytic activity of bis(pyrazolyl)borate copper complexes. Dalton Transactions, 2016, 45, 10194-10199.	1.6	19
29	A reaction of $[2,6\text{-}(\text{tBu}_2\text{PO})_2\text{C}_6\text{H}_3]\text{NiSCH}_2\text{Ph}$ with $\text{BH}_3\cdot\text{THF}$ : borane mediated C-S bond cleavage. Dalton Transactions, 2018, 47, 6018-6024.	1.6	19
30	The Reactivity of Mercapto Groups against Boron Hydrides in Pincer Ligated Nickel Mercapto Complexes. Chemistry - an Asian Journal, 2018, 13, 3231-3238.	1.7	18
31	Controllable syntheses of B/N anionic aminoborane chain complexes by the reaction of $\text{NH}_3\text{BH}_3$ with NaH and the mechanistic study. Dalton Transactions, 2019, 48, 14984-14988.	1.6	17
32	Syntheses of Bromo- <i>N</i> -heterocycles through Dibromohydantoin-Promoted Tandem C-H Amination/Bromination. Journal of Organic Chemistry, 2020, 85, 2918-2926.	1.7	17
33	Synthesis of Phenanthridines through Iodine-Supported Intramolecular C-H Amination and Oxidation under Visible Light. Journal of Organic Chemistry, 2020, 85, 12187-12198.	1.7	17
34	Theoretical Exploration of the Layered Sandwich Cobaltacarborane as a Multi-State NLO Molecular Switch Triggered by Redox. Journal of Physical Chemistry C, 2018, 122, 6818-6825.	1.5	15
35	Reactions of POCOP pincer palladium benzylthiolate complexes with $\text{BH}_3\cdot\text{THF}$ : Isolation and characterization of unstable POCOP-Pd( $\eta$ -1-HBH <sub>3</sub> ) complexes. Journal of Organometallic Chemistry, 2019, 882, 50-57.	0.8	15
36	The interconversion between $\text{THF}\cdot\text{B}_3\text{H}_7$ and $\text{B}_3\text{H}_8^+$ : an efficient synthetic method for $\text{MB}_3\text{H}_8$ (M = Li and Na). Dalton Transactions, 2019, 48, 5140-5143.	1.6	15

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37	One-Pot Synthesis of Iodo-Dibenzothiazines from 2-Biaryl Sulfides. <i>Journal of Organic Chemistry</i> , 2019, 84, 450-457.	1.7	15
38	Application of bis(phosphinite) pincer nickel complexes to the catalytic hydrosilylation of aldehydes. <i>Inorganica Chimica Acta</i> , 2021, 515, 120088.	1.2	15
39	Efficient Synthesis of the Os <sup>II</sup> /Os Dimers [Cp(CO) <sub>2</sub> Os] <sub>2</sub> , [Cp*(CO) <sub>2</sub> Os] <sub>2</sub> , and [(iPr <sub>4</sub> C <sub>5</sub> H)(CO) <sub>2</sub> Os] <sub>2</sub> and Computational Studies on the Relative Stabilities of Their Geometrical Isomers. <i>Organometallics</i> , 2006, 25, 2209-2215.	1.1	14
40	The stability of group 10 metal POCOP pincer complexes: decomposition/reconstruction pathways of the pincer backbone. <i>Dalton Transactions</i> , 2019, 48, 13760-13768.	1.6	14
41	Platinum thiolate complexes supported by PBP and POCOP pincer ligands as efficient catalysts for the hydrosilylation of carbonyl compounds. <i>Dalton Transactions</i> , 2022, 51, 2304-2312.	1.6	13
42	Boronic acid derivatized lanthanide <sup>III</sup> polyoxometalates with novel B <sup>III</sup> -OH <sup>II</sup> -Ln and B <sup>III</sup> -O <sup>II</sup> -Nb bridges. <i>Chemical Communications</i> , 2019, 55, 2525-2528.	2.2	12
43	The Stability of Diphosphino <sup>II</sup> Boryl PBP Pincer Backbone: PBP to POP Ligand Hydrolysis. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2489-2494.	1.7	11
44	Computational study on the mechanism of hydroboration of CO <sub>2</sub> catalysed by POCOP pincer nickel thiolate complexes: concerted catalysis and hydride transfer by a shuttle. <i>Dalton Transactions</i> , 2021, 50, 2903-2914.	1.6	11
45	Which Type of Pincer Complex Is Thermodynamically More Stable? Understanding the Structures and Relative Bond Strengths of Group 10 Metal Complexes Supported by Benzene-Based PYCYP Pincer Ligands. <i>Inorganic Chemistry</i> , 2021, 60, 18924-18937.	1.9	10
46	A Ta/W mixed addenda heteropolyacid with excellent acid catalytic activity and proton-conducting property. <i>Journal of Solid State Chemistry</i> , 2016, 243, 1-7.	1.4	9
47	Syntheses and Structures of Group 10 Metal POCOP Pincer Complexes Bearing A Mercapto <sup>II</sup> carborane Auxiliary Ligand. <i>ChemistrySelect</i> , 2019, 4, 1292-1297.	0.7	6
48	Tuning Oxidation Degrees of Low-Crystallinity Porous Ni <sup>II</sup> -Co <sup>II</sup> -B <sup>III</sup> -O/C Nanocomposites for High-Performance Hybrid Supercapacitors. <i>Energy &amp; Fuels</i> , 2020, 34, 16893-16902.	2.5	6
49	Organobor <sup>III</sup> Funktionalisierung ermöglicht die hierarchische Aggregation gigantischer Polyoxometallat <sup>II</sup> Nanokapseln. <i>Angewandte Chemie</i> , 2020, 132, 8615-8618.	1.6	6
50	An Effective Osmium Precatalyst for Practical Synthesis of Diarylketones: Preparation, Reactivity, and Catalytic Application of [OsH <sup>II</sup> - <i>cis</i> -(CO) <sub>2</sub> -mer <sup>III</sup> -{iPr <sup>III</sup> }<sub>3</sub>-P<sup>III</sup>-B<sup>III</sup>-P<sup>III</sup>-B(NCH<sub>2</sub>PPh<sub>2</sub>)] <sub>2</sub> . <i>Organometallics</i> , 2021, 40, 3825-3832.	1.1	5
51	Multinuclear transition metal-containing polyoxometalates constructed from Nb/W mixed-addendum precursors: synthesis, structures and catalytic performance. <i>Dalton Transactions</i> , 2021, 50, 8690-8695.	1.6	4
52	B <sup>III</sup> -N Cleavage in (9 <sup>II</sup> -EBN)bis(pyrazolyl)borate Ni <sup>II</sup> Complexes. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3724-3730.	1.0	3
53	A Structure Comparison of Ni(II) Complexes Supported by PNCNP and POCOP Pincer Ligands. <i>ChemistrySelect</i> , 2020, 5, 5205-5209.	0.7	3
54	Few-Layered Metal <sup>II</sup> -Organic Framework Nanosheets as Catalysts for the Synthesis of 2,3-Dihydroquinazolinone and Propargylamines. <i>ACS Applied Nano Materials</i> , 2021, 4, 12108-12118.	2.4	3

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55	Coordination mode and stability of the tetrahydroborate ligand in group 10 metal pincer complexes. Dalton Transactions, 0, , .	1.6	3
56	Synthesis and characterization of bis(pyrazolyl)borate Ni(II) complexes: ligand rearrangement and transformation. Dalton Transactions, 2019, 48, 13242-13247.	1.6	2
57	Efficient Solvent-Free Hydrosilylation of Aldehydes and Ketones Catalyzed by Fe <sub>2</sub> (CO) <sub>9</sub> /C <sub>6</sub> H <sub>4</sub> -o-(NCH <sub>2</sub> PPh <sub>2</sub> ) <sub>2</sub> BH. Catalysis Letters, 2021, 151, 3509.	1.4	2
58	Mechanisms of the Reactions of $\beta$ -Substituted Amine Boranes with THF·BH <sub>3</sub> . European Journal of Inorganic Chemistry, 2019, 2019, 4994-4999.	1.0	0
59	Catalysts Based on the $\pi$ -H $\pi$ -M Weak Interaction: Synthesis, Characterization and Catalytic Application of Bis(pyrazolyl)borate Cu(I) Complexes in Carbene Insertion into Heteroatom Hydrogen Bonds. ChemistrySelect, 2022, 7, .	0.7	0