## Xuenian Chen

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1930487/publications.pdf

Version: 2024-02-01

105	2,433	26	43
papers	citations	h-index	g-index
106	106	106	1856 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Probing the structures and bonding of size-selected boron and doped-boron clusters. Chemical Society Reviews, 2019, 48, 3550-3591.	38.1	169
2	The Roles of Dihydrogen Bonds in Amine Borane Chemistry. Accounts of Chemical Research, 2013, 46, 2666-2675.	15.6	122
3	Facile Synthesis of Aminodiborane and Inorganic Butane Analogue NH <sub>3</sub> BH <sub>2</sub> NH <sub>2</sub> BH <sub>3</sub> . Journal of the American Chemical Society, 2010, 132, 10658-10659.	13.7	91
4	Ammonia borane, past as prolog. Journal of Organometallic Chemistry, 2014, 751, 60-66.	1.8	86
5	Experimental and Computational Study of the Formation Mechanism of the Diammoniate of Diborane: The Role of Dihydrogen Bonds. Journal of the American Chemical Society, 2011, 133, 14172-14175.	13.7	79
6	A New Perspective on Borane Chemistry: The Nucleophilicity of the Bâ^'H Bonding Pair Electrons. Angewandte Chemie - International Edition, 2019, 58, 3268-3278.	13.8	73
7	Toward Solution Syntheses of the Tetrahedral Au <sub>20</sub> Pyramid and Atomically Precise Gold Nanoclusters with Uncoordinated Sites. Accounts of Chemical Research, 2018, 51, 2159-2168.	15.6	68
8	Elucidation of the Formation Mechanisms of the Octahydrotriborate Anion (B <sub>3</sub> H <sub>8</sub> <sup>â€"</sup> ) through the Nucleophilicity of the Bâ€"H Bond. Journal of the American Chemical Society, 2018, 140, 6718-6726.	13.7	68
9	Ammonium Octahydrotriborate (NH4B3H8): New Synthesis, Structure, and Hydrolytic Hydrogen Release. Inorganic Chemistry, 2011, 50, 3738-3742.	4.0	67
10	Highly efficient reduction of carbon dioxide with a borane catalyzed by bis(phosphinite) pincer ligated palladium thiolate complexes. Chemical Communications, 2016, 52, 14262-14265.	4.1	54
11	Hydroboration of CO <sub>2</sub> catalyzed by bis(phosphinite) pincer ligated nickel thiolate complexes. Dalton Transactions, 2017, 46, 4504-4509.	3.3	53
12	High Protonâ€Conductivity in Covalently Linked Polyoxometalateâ€Organoboronic Acidâ€Polymers. Angewandte Chemie - International Edition, 2021, 60, 16953-16957.	13.8	50
13	Non-noble metal single-atom catalyst of Co1/MXene (Mo2CS2) for CO oxidation. Science China Materials, 2021, 64, 651-663.	6.3	44
14	Formation Mechanisms, Structure, Solution Behavior, and Reactivity of Aminodiborane. Journal of the American Chemical Society, 2015, 137, 12406-12414.	13.7	42
15	A Giant Mo/Ta/W Ternary Mixed-Addenda Polyoxometalate with Efficient Photocatalytic Activity for Primary Amine Coupling. ACS Applied Materials & Samp; Interfaces, 2019, 11, 43287-43293.	8.0	42
16	A Simple and Efficient Way to Synthesize Unsolvated Sodium Octahydrotriborate. Inorganic Chemistry, 2010, 49, 8185-8187.	4.0	41
17	Largeâ€Scale and Facile Preparation of Pure Ammonia Borane through Displacement Reactions. Chemistry - A European Journal, 2012, 18, 11994-11999.	3.3	40
18	Palladium-Catalyzed Regioselective B(9)-Amination of <i>&gt;o</i> -Carboranes and <i>m</i> -Carboranes in HFIP with Broad Nitrogen Sources. Journal of the American Chemical Society, 2022, 144, 8371-8378.	13.7	40

#	Article	IF	CITATIONS
19	Facile Synthesis of Unsolvated Alkali Metal Octahydrotriborate Salts MB <sub>3</sub> H <sub>8</sub> (M=K, Rb, and Cs), Mechanisms of Formation, and the Crystal Structure of KB <sub>3</sub> H <sub>8</sub> . Angewandte Chemie - International Edition, 2019, 58, 2720-2724.	13.8	39
20	New Syntheses and Structural Characterization of NH <sub>3</sub> BH <sub>2</sub> Cl and (BH <sub>2</sub> NH <sub>2</sub> ) <sub>3</sub> and Thermal Decomposition Behavior of NH <sub>3</sub> BH <sub>2</sub> Cl. Inorganic Chemistry, 2012, 51, 13430-13436.	4.0	38
21	Organoboronâ€Functionalization Enables the Hierarchical Assembly of Giant Polyoxometalate Nanocapsules. Angewandte Chemie - International Edition, 2020, 59, 8537-8540.	13.8	37
22	Potassium octahydridotriborate: diverse polymorphism in a potential hydrogen storage material and potassium ion conductor. Dalton Transactions, 2019, 48, 8872-8881.	3.3	34
23	High-capacity hydrogen release through hydrolysis of NaB3H8. International Journal of Hydrogen Energy, 2011, 36, 7038-7042.	7.1	33
24	Synthesis of dibenzothiazines from sulfides by one-pot <i>N</i> , <i>O</i> -transfer and intramolecular Câ€"H amination. Green Chemistry, 2018, 20, 2953-2958.	9.0	31
25	Efficient synthesis of primary and secondary amides via reacting esters with alkali metal amidoboranes. Nature Communications, 2021, 12, 5964.	12.8	30
26	Controllable Synthesis and Catalytic Performance of Nanocrystals of Rare-Earth-Polyoxometalates. Inorganic Chemistry, 2018, 57, 6624-6631.	4.0	29
27	Synthesis, structure and property of boron-based metal–organic materials. Coordination Chemistry Reviews, 2021, 435, 213783.	18.8	29
28	Lanthanide derivatives of Ta/W mixed-addendum POMs as proton-conducting materials. Dalton Transactions, 2017, 46, 4157-4160.	3.3	27
29	Visible light-mediated synthesis of amides from carboxylic acids and amine-boranes. Green Chemistry, 2021, 23, 3595-3599.	9.0	27
30	Anti and gauche conformers of an inorganic butane analogue, NH3BH2NH2BH3. Chemical Communications, 2012, 48, 7943.	4.1	26
31	The continuing story of the diammoniate of diborane. Journal of Organometallic Chemistry, 2015, 798, 24-29.	1.8	26
32	Iodine-Substituted Lithium/Sodium <i>closo</i> -Decaborates: Syntheses, Characterization, and Solid-State Ionic Conductivity. ACS Applied Materials & Interfaces, 2021, 13, 17554-17564.	8.0	26
33	Two transition-metal-modified Nb/W mixed-addendum polyoxometalates for visible-light-mediated aerobic benzylic C–H oxidations. Chinese Chemical Letters, 2022, 33, 4395-4399.	9.0	25
34	Metathesis reactivity of bis(phosphinite) pincer ligated nickel chloride, isothiocyanate and azide complexes. Journal of Organometallic Chemistry, 2016, 804, 132-141.	1.8	23
35	Copper oxide hollow spheres: Synthesis and catalytic application in hydrolytic dehydrogenation of ammonia borane. International Journal of Hydrogen Energy, 2018, 43, 20875-20881.	7.1	23
36	A Convenient Synthesis and a NMR Study of the Diammoniate of Diborane. Chemistry - A European Journal, 2012, 18, 3490-3492.	<b>3.</b> 3	22

#	Article	IF	Citations
37	Application of POCOP Pincer Nickel Complexes to the Catalytic Hydroboration of Carbon Dioxide. Catalysts, 2018, 8, 508.	3.5	22
38	Hydrosilylation of Aldehydes and Ketones Catalysed by Bis(phosphinite) Pincer Platinum Hydride Complexes. Advanced Synthesis and Catalysis, 2020, 362, 2709-2715.	4.3	22
39	Hydroboration Reaction and Mechanism of Carboxylic Acids using NaNH <sub>2</sub> (BH <sub>3</sub> ) <sub>2</sub> , a Hydroboration Reagent with Reducing Capability between NaBH <sub>4</sub> and LiAlH <sub>4</sub> . Journal of Organic Chemistry, 2021, 86, 5305-5316.	3.2	22
40	BrÃ,nsted and Lewis Base Behavior of Sodium Amidotrihydridoborate (NaNH <sub>2</sub> BH <sub>3</sub> ). European Journal of Inorganic Chemistry, 2017, 2017, 4541-4545.	2.0	20
41	Unravelling a general mechanism of converting ionic B/N complexes into neutral B/N analogues of alkanes: H <sup>η+</sup> â··H <sup>ηa€"</sup> dihydrogen bonding assisted dehydrogenation. Chemical Communications, 2019, 55, 12239-12242.	4.1	20
42	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.	3.3	20
43	Practical Synthesis of B(9)-Halogenated Carboranes with $\langle i \rangle N \langle i \rangle$ -Haloamides in Hexafluoroisopropanol. Inorganic Chemistry, 2022, 61, 5326-5334.	4.0	20
44	Catalyst design based on agostic interactions: synthesis, characterization, and catalytic activity of bis(pyrazolyl)borate copper complexes. Dalton Transactions, 2016, 45, 10194-10199.	3.3	19
45	A reaction of [2,6-(tBu2PO)2C6H3]NiSCH2Ph with BH3·THF: borane mediated C–S bond cleavage. Dalton Transactions, 2018, 47, 6018-6024.	3.3	19
46	The Reactivity of Mercapto Groups against Boron Hydrides in Pincer Ligated Nickel Mercapto Complexes. Chemistry - an Asian Journal, 2018, 13, 3231-3238.	3.3	18
47	Controllable syntheses of B/N anionic aminoborane chain complexes by the reaction of NH <sub>3</sub> BH <sub>3</sub> with NaH and the mechanistic study. Dalton Transactions, 2019, 48, 14984-14988.	3.3	17
48	Syntheses of Bromo- <i>N</i> -heterocycles through Dibromohydantoin-Promoted Tandem C–H Amination/Bromination. Journal of Organic Chemistry, 2020, 85, 2918-2926.	3.2	17
49	Synthesis of Phenanthridines through Iodine-Supported Intramolecular C–H Amination and Oxidation under Visible Light. Journal of Organic Chemistry, 2020, 85, 12187-12198.	3.2	17
50	Adsorptive Mechanism of Chromium Adsorption on Siltstone–Nanomagnetite–Biochar Composite. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 1608-1620.	3.7	17
51	Synthesis, structural analysis, and thermal decomposition studies of [(NH3)2BH2]B3H8. RSC Advances, 2013, 3, 7460.	3.6	16
52	Boranchemie aus einer neuen Perspektive: Nukleophilie der Bâ€Hâ€Bindungselektronen. Angewandte Chemie, 2019, 131, 3302-3313.	2.0	16
53	Reactions of POCOP pincer palladium benzylthiolate complexes withÂBH3·THF: Isolation and characterization of unstable POCOP-Pd(η1-HBH3) complexes. Journal of Organometallic Chemistry, 2019, 882, 50-57.	1.8	15
54	The interconversion between THF·B <sub>3</sub> H <sub>7</sub> and B <sub>3</sub> H <sub>8</sub> <sup>â^²</sup> : an efficient synthetic method for MB <sub>3</sub> H <sub>8</sub> (M = Li and Na). Dalton Transactions, 2019, 48, 5140-5143.	3.3	15

#	Article	IF	CITATIONS
55	One-Pot Synthesis of Iodo-Dibenzothiazines from 2-Biaryl Sulfides. Journal of Organic Chemistry, 2019, 84, 450-457.	3.2	15
56	Application of bis(phosphinite) pincer nickel complexes to the catalytic hydrosilylation of aldehydes. Inorganica Chimica Acta, 2021, 515, 120088.	2.4	15
57	Synthesis of Ammonia Borane Nanoparticles and the Diammoniate of Diborane by Direct Combination of Diborane and Ammonia. Chemistry - A European Journal, 2016, 22, 6228-6233.	3.3	14
58	The stability of group 10 metal POCOP pincer complexes: decomposition/reconstruction pathways of the pincer backbone. Dalton Transactions, 2019, 48, 13760-13768.	3.3	14
59	Structure determination of an amorphous compound AlB4H11. Chemical Science, 2012, 3, 3183.	7.4	13
60	Desolvation and Dehydrogenation of Solvated Magnesium Salts of Dodecahydrododecaborate: Relationship between Structure and Thermal Decomposition. Chemistry - A European Journal, 2014, 20, 7325-7333.	3.3	13
61	Aggregation-Induced Fluorescence of Carbazole and o-Carborane Based Organic Fluorophore. Frontiers in Chemistry, 2019, 7, 768.	3.6	13
62	Facile Synthesis of Unsolvated Alkali Metal Octahydrotriborate Salts MB 3 H 8 (M=K, Rb, and Cs), Mechanisms of Formation, and the Crystal Structure of KB 3 H 8. Angewandte Chemie, 2019, 131, 2746-2750.	2.0	13
63	Synthesis, Crystal Structures and Photoluminescent Properties of One-Dimensional Europium(III)- and Terbium(III)-Glutarate Coordination Polymers, and Their Applications for the Sensing of Fe3+ and Nitroaromatics. Frontiers in Chemistry, 2019, 7, 728.	3.6	13
64	A safe and efficient synthetic method for alkali metal octahydrotriborates, unravelling a general mechanism for constructing the delta B3 unit of polyhedral boranes. Dalton Transactions, 2021, 50, 13676-13679.	3.3	13
65	Platinum thiolate complexes supported by PBP and POCOP pincer ligands as efficient catalysts for the hydrosilylation of carbonyl compounds. Dalton Transactions, 2022, 51, 2304-2312.	3.3	13
66	Boronic acid derivatized lanthanide–polyoxometalates with novel B–OH–Ln and B–O–Nb bridges. Chemical Communications, 2019, 55, 2525-2528.	4.1	12
67	KB <sub>3</sub> H <sub>8</sub> ·NH <sub>3</sub> B <sub>3</sub> H <sub>7</sub> Complex as a Potential Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Excellent Stability against K Metal. ACS Applied Materials & Solid-State Electrolyte with Ele	8.0	12
68	Chemical Syntheses of Two-Dimensional Boron Materials. CheM, 2020, 6, 324-326.	11.7	11
69	The Stability of Diphosphinoâ€Boryl PBP Pincer Backbone: PBP to POP Ligand Hydrolysis. Chemistry - an Asian Journal, 2021, 16, 2489-2494.	3.3	11
70	Synthesis, Thermal, Structural Analyses, and Photoluminescent Properties of a New Family of Malonate-Containing Lanthanide(III) Coordination Polymers. Frontiers in Chemistry, 2019, 7, 260.	3.6	10
71	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. Inorganic Chemistry, 2021, 60, 18924-18937.	4.0	10
72	Facile Synthetic Method of Na[BH <sub>3</sub> (NH <sub>2</sub> BH <sub>2</sub> ) <sub>2</sub> H] Based on the Reactions of Sodium Amidoborane (NaNH <sub>2</sub> BH <sub>3</sub> ) with NiBr <sub>2</sub> or CoCl <sub>2</sub> . Inorganic Chemistry, 2021, 60, 7101-7107.	4.0	9

#	Article	IF	CITATIONS
73	Oneâ€step hydrothermal synthesis of the Ag/AgI heterojunction with highly enhanced visibleâ€light photocatalytic performances. Micro and Nano Letters, 2014, 9, 376-381.	1.3	8
74	Syntheses and Structures of Group 10 Metal POCOP Pincer Complexes Bearing A Mercaptoâ€∢i>o–carborane Auxiliary Ligand. ChemistrySelect, 2019, 4, 1292-1297.	1.5	6
75	Tuning Oxidation Degrees of Low-Crystallinity Porous Ni–Co–B–O/C Nanocomposites for High-Performance Hybrid Supercapacitors. Energy & Samp; Fuels, 2020, 34, 16893-16902.	5.1	6
76	Organoborâ€Funktionalisierung ermöglicht die hierarchische Aggregation gigantischer Polyoxometallatâ€Nanokapseln. Angewandte Chemie, 2020, 132, 8615-8618.	2.0	6
77	Synthesis, crystal structures and, magnetic and photoluminescence properties of lanthanide-based metal–organic frameworks constructed with 2,5-dihydroxybenzene-1,4-dicarboxylic acid. RSC Advances, 2020, 10, 12841-12850.	3.6	6
78	Theoretical study on hydrogen storage of pristine bilayer hexagonal boron nitride. Theoretical Chemistry Accounts, 2021, 140, 1.	1.4	6
79	Improved Methods for the Synthesis of KB3H8, NH3B3H7, and N-Alkyl Analogues of NH3B3H7. Inorganic Chemistry, 2021, 60, 18466-18472.	4.0	6
80	Reactions of Amine–Boranes with Oxalic Acid: Substitution on the N or B Atom Leads to Different Spiroborate Compounds. European Journal of Inorganic Chemistry, 2018, 2018, 2659-2665.	2.0	5
81	High Protonâ€Conductivity in Covalently Linked Polyoxometalateâ€Organoboronic Acidâ€Polymers. Angewandte Chemie, 2021, 133, 17090-17094.	2.0	5
82	Synthesis and Dehydrogenation of Organic Salts of a Fiveâ€Membered B/N Anionic Chain, a Novel Ionic Liquid. Chemistry - an Asian Journal, 2021, 16, 2475-2480.	3.3	5
83	KB <sub>3</sub> H <sub>8</sub> : an environment-friendly reagent for the selective reduction of aldehydes and ketones to alcohols. Chemical Communications, 2021, 57, 12776-12779.	4.1	5
84	An Effective Osmium Precatalyst for Practical Synthesis of Diarylketones: Preparation, Reactivity, and Catalytic Application of [OsH- <i>ci&gt;cis</i> -(i>-(i>) <sub>2</sub> - <i>P</i> -(i>) <i>B</i> , <i>P</i> )	sub3PPh<	sub5>2
85	A sandwich-type POM containing mixed cations: synthesis, thermal performance and proton-conducting properties. Journal of Coordination Chemistry, 2016, 69, 425-432.	2.2	4
86	Facile Synthesis of $\hat{l}^2$ -Bromostyrenes by Direct Bromination of Styrenes with N-Bromosuccinimide and Sodium Persulfate. Synlett, 2020, 31, 1523-1526.	1.8	4
87	Halogenated sodium/lithium monocarba- <i>closo</i> decaborates: syntheses, characterization, and solid-state ionic conductivity. Materials Chemistry Frontiers, 2021, 5, 8037-8046.	5.9	4
88	Sodium Aminodiboranate, a New Reagent for Chemoselective Reduction of Aldehydes and Ketones to Alcohols. Synlett, 0, 32, .	1.8	4
89	Multinuclear transition metal-containing polyoxometalates constructed from Nb/W mixed-addendum precursors: synthesis, structures and catalytic performance. Dalton Transactions, 2021, 50, 8690-8695.	3.3	4
90	Improved and Scalable Synthesis of [Et <sub>4</sub> 9. Organometallics, 2021, 40, 3480-3485.	2.3	4

#	Article	IF	CITATIONS
91	B–N Cleavage in (9â€BBN)bis(pyrazolyl)borate Ni <sup>II</sup> Complexes. European Journal of Inorganic Chemistry, 2019, 2019, 3724-3730.	2.0	3
92	A Structure Comparison of Ni(II) Complexes Supported by PNCNP and POCOP Pincer Ligands. ChemistrySelect, 2020, 5, 5205-5209.	1.5	3
93	Synthesis, Crystal Structure, and Nonlinear Optical Properties of Zn(II) Complex with 4,4',4''-Tri-tert-Butyl-2,2':6',2''-Terpyridine: A Dual Exploration. Russian Journal of Inorganic Chemistry, 2020, 65, 368-377.	1.3	3
94	Understanding the Electronic Structure and Stability of <scp>B<sub><i>n</i></sub>X<sub><i>n</i></sub><sup>O</sup></scp> <sup>/2–</sup> ( <i>n</i> >= 4, 6;	X <b>).T</b> j ETQd	q <b>0</b> ;000 rgBT
95	Few-Layered Metal–Organic Framework Nanosheets as Catalysts for the Synthesis of 2,3-Dihydroquinazolinone and Propargylamines. ACS Applied Nano Materials, 2021, 4, 12108-12118.	5.0	3
96	Catalyst-free reductions of nitriles to amino-boranes using sodium amidoborane and lithium borohydride. Organic Chemistry Frontiers, 2022, 9, 1536-1540.	4.5	3
97	Coordination mode and stability of the tetrahydroborate ligand in group 10 metal pincer complexes. Dalton Transactions, 0, , .	3.3	3
98	Synthesis and characterization of bis(pyrazolyl)borate Ni( <scp>ii</scp> ) complexes: ligand rearrangement and transformation. Dalton Transactions, 2019, 48, 13242-13247.	3.3	2
99	Syntheses and crystal structures of lutetium(III) and dysprosium(III) coordination polymers with 2,5-dihydroxybenzene-1,4-dicarboxylate anion: Magnetic and photoluminescent properties of the dysprosium complex. Polyhedron, 2020, 189, 114732.	2.2	2
100	Efficient Solvent-Free Hydrosilylation of Aldehydes and Ketones Catalyzed by Fe2(CO)9/C6H4-o-(NCH2PPh2)2BH. Catalysis Letters, 2021, 151, 3509.	2.6	2
101	Catalytic effect of water on the HO3 + NO formations from the HNO + O3reaction in tropospho conditions. Molecular Simulation, 2020, 46, 497-505.	eric 2.0	1
102	A general method for the synthesis of covalent and ionic amine borane complexes containing trinitromethyl fragments. RSC Advances, 2021, 11, 9740-9745.	3.6	1
103	Synthesis of K[B <sub>3</sub> H <sub>7</sub> NH <sub>2</sub> BH <sub>2</sub> NH <sub>2</sub> B <sub>3</sub> H <sub>7<td>sap&gt;]</td><td>1</td></sub>	sap>]	1
104	Mechanisms of the Reactions of Bâ€Substituted Amine Boranes with THF·BH <sub>3</sub> . European Journal of Inorganic Chemistry, 2019, 2019, 4994-4999.	2.0	0
105	Catalysts Based on the Câ^'Hâ<â<â <m .<="" 2022,="" 7,="" and="" application="" bis(pyrazolyl)borate="" bonds.="" carbene="" catalytic="" characterization="" chemistryselect,="" complexes="" cu(i)="" heteroatom="" hydrogen="" in="" insertion="" interaction:="" into="" of="" synthesis,="" td="" weak=""><td>າ 1.5</td><td>O</td></m>	າ 1.5	O