

# Biao Wu

## List of Publications by Year in descending order

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96  
papers

3,562  
citations

117619

34  
h-index

155644

55  
g-index

103  
all docs

103  
docs citations

103  
times ranked

2513  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modular Synthesis of Tetraurea and Octaurea Macrocycles Encoded with Specific Monomer Sequences. <i>CCS Chemistry</i> , 2022, 4, 2498-2507.	7.8	4
2	Acid-Tolerant Sulfate Tetrahedral Cages from Anion-Coordination-Driven Assembly. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	7
3	A Hydrogen-Bonded Ravel Assembled by Anion Coordination. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	7
4	A Hydrogen-Bonded Ravel Assembled by Anion Coordination. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202115042.	13.8	18
5	Reversible [4 + 2] Photooxygenation in Anion-Coordination-Driven-Assembled A <sub>2</sub> L <sub>2</sub> -Type Complexes. <i>Inorganic Chemistry</i> , 2022, 61, 2198-2203.	4.0	5
6	Anion-coordination-driven single-double helix switching and chiroptical molecular switching based on oligoureas. <i>Chemical Science</i> , 2022, 13, 4915-4921.	7.4	8
7	Assembly of metallo-macrocycles through reductive C-C coupling of alkylnitriles by an Mg-Mg-bonded compound. <i>Dalton Transactions</i> , 2022, 51, 4394-4399.	3.3	4
8	Hierarchical Self-Assembly of Adhesive and Conductive Gels with Anion-Coordinated Triple Helicate Junctions. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	15
9	Light-Triggered High-Affinity Binding of Tetramethylammonium over Potassium Ions by [18]crown-6 in a Tetrahedral Anion Cage. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	20
10	Light-Triggered High-Affinity Binding of Tetramethylammonium over Potassium Ions by [18]crown-6 in a Tetrahedral Anion Cage. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	6
11	Separation of Sulfate Anion From Aqueous Solution Governed by Recognition Chemistry: A Minireview. <i>Frontiers in Chemistry</i> , 2022, 10, 905563.	3.6	11
12	InnenrÄ¼cktitelbild: Hierarchical Self-Assembly of Adhesive and Conductive Gels with Anion-Coordinated Triple Helicate Junctions ( <i>Angew. Chem.</i> 22/2022). <i>Angewandte Chemie</i> , 2022, 134, .	2.0	0
13	Glucose Binding Drives Reconfiguration of a Dynamic Library of Urea-Containing Metal-Organic Assemblies. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4485-4490.	13.8	38
14	Stepwise enhancement of fluorescence induced by anion coordination and non-covalent interactions. <i>Dalton Transactions</i> , 2021, 50, 76-80.	3.3	5
15	Glucose Binding Drives Reconfiguration of a Dynamic Library of Urea-Containing Metal-Organic Assemblies. <i>Angewandte Chemie</i> , 2021, 133, 4535-4540.	2.0	14
16	Crown Ether Functionalized Potassium-Responsive Anionocages for Cascaded Guest Delivery. <i>Angewandte Chemie</i> , 2021, 133, 9659-9665.	2.0	9
17	Crown Ether Functionalized Potassium-Responsive Anionocages for Cascaded Guest Delivery. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9573-9579.	13.8	24
18	Fine-Tuning the Spring-Like Motion of an Anion-Based Triple Helicate by Tetraalkylammonium Guests. <i>Angewandte Chemie</i> , 2021, 133, 9475-9480.	2.0	11

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19	Fine-tuning the Spring-Like Motion of an Anion-Based Triple Helicate by Tetraalkylammonium Guests. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9389-9394.	13.8	24
20	Quaternary Cocrystals Based on Halide-Binding Foldamers through Both Hydrogen and Halogen Bonding. <i>Crystal Growth and Design</i> , 2021, 21, 2837-2843.	3.0	11
21	Reactions of Iso(thio)cyanates with Dialanes: Cycloaddition, Reductive Coupling, or Cleavage of the C-S or C-O Bond. <i>Inorganic Chemistry</i> , 2021, 60, 14602-14612.	4.0	16
22	Narcissistic self-sorting in anion-coordination-driven assemblies. <i>Chemical Communications</i> , 2021, 57, 6078-6081.	4.1	13
23	Organometallo-macrocyclic assembly through dialumane-mediated C-H activation of pyridines. <i>Chemical Communications</i> , 2021, 57, 6268-6271.	4.1	6
24	Main-group metal complexes of $\lambda^2$ -diimine ligands: structure, bonding and reactivity. <i>Dalton Transactions</i> , 2021, 50, 13634-13650.	3.3	30
25	Stabilization of Grignard reagents by a pillar[5]arene host - Schlenk equilibria and Grignard reactions. <i>Chemical Communications</i> , 2020, 56, 1381-1384.	4.1	16
26	Anion-Coordination-Assisted Assembly of Supramolecular Charge-Transfer Complexes Based on Tris(urea) Ligands. <i>Chemistry - A European Journal</i> , 2020, 26, 1414-1421.	3.3	4
27	Multiple Transformations among Anion-based $A_2L_3$ Assemblies: Bicapped Trigonal Antiprism $A_8L_{12}$ , Tetrahedron $A_4L_6$ , and Triple Helicate $A_2L_3$ ( $A = \text{Anion}$ ). <i>Journal of the American Chemical Society</i> , 2020, 142, 21160-21168.	13.7	36
28	Site-Selective Binding of Peripheral Chiral Guests Induces Stereospecificity in $A_4L_6$ Tetrahedral Anion Cages. <i>Journal of the American Chemical Society</i> , 2020, 142, 6304-6311.	13.7	53
29	Simultaneous exfoliation and colloidal formation of few-layer semiconducting MoS <sub>2</sub> sheets in water. <i>Chemical Communications</i> , 2020, 56, 2035-2038.	4.1	7
30	Chirality transcription in the anion-coordination-driven assembly of tetrahedral cages. <i>Chemical Communications</i> , 2020, 56, 2475-2478.	4.1	15
31	$N,N'$ -Diphenyl- <i>o</i> -phenylene-diamido Dianion: A Versatile Ligand for Main Group Metal-Bonded Compounds. <i>Organometallics</i> , 2020, 39, 1440-1447.	2.3	15
32	Reductive linear- and cyclo-trimerization of isocyanides using an Al-bonded compound. <i>Chemical Communications</i> , 2019, 55, 9452-9455.	4.1	30
33	Anion-Coordination-Driven Assembly of Chiral Quadruple and Single Helices Controlled by Counteranions. <i>Crystal Growth and Design</i> , 2019, 19, 6527-6533.	3.0	6
34	Selective binding of (thio)sulfate and phosphate in water by quaternary ammonium functionalized oligo-ureas. <i>Chemical Communications</i> , 2019, 55, 1714-1717.	4.1	9
35	Selective recognition of choline phosphate by tripodal hexa-urea receptors with dual binding sites: crystal and solution evidence. <i>Chemical Science</i> , 2019, 10, 2483-2488.	7.4	6
36	Mg-bonded compounds with $N,N'$ -dipp-substituted phenanthrene-diamido and <i>o</i> -phenylene-diamino ligands. <i>Dalton Transactions</i> , 2019, 48, 2295-2299.	3.3	17

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37	A Sequential Process of Graphene Exfoliation and Site-Selective Copper/Graphene Metallization Enabled by Multifunctional 1-Pyrenebutyric Acid Tetrabutylammonium Salt. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 6448-6455.	8.0	5
38	Reactions of Dianionic $\lambda^2$ -Diimine-Supported Dimagnesium(I) Compound $[K(THF)_3]_2[LMg^{\mu}MgL]$ with Nitriles. <i>Organometallics</i> , 2019, 38, 2674-2682.	2.3	14
39	Construction and interconversion of anion-coordination-based ( $\lambda^2$ -aniono $\lambda^2$ ) grids and double helicates modulated by counter-cations. <i>Chemical Science</i> , 2019, 10, 6278-6284.	7.4	19
40	Diamondoid Frameworks via Supramolecular Coordination: Structural Characterization, Metallogel Formation, and Adsorption Study. <i>Inorganic Chemistry</i> , 2019, 58, 6268-6275.	4.0	11
41	Gallium $\lambda^2$ -Shears $\lambda^2$ for C=N and C=O Bonds of Isocyanates. <i>Chemistry - A European Journal</i> , 2019, 25, 8259-8267.	3.3	33
42	Cyclotrimerization of alkynes catalyzed by a self-supported cyclic tri-nuclear nickel(0) complex with $\lambda^2$ -diimine ligands. <i>Dalton Transactions</i> , 2019, 48, 4643-4649.	3.3	12
43	Anion coordination chemistry: From recognition to supramolecular assembly. <i>Coordination Chemistry Reviews</i> , 2019, 378, 415-444.	18.8	141
44	Re-organized graphene nanoplatelet thin films achieved by a two-step hydraulic method. <i>Diamond and Related Materials</i> , 2018, 84, 141-145.	3.9	2
45	Peripheral Templatation-Modulated Interconversion between an $A_4L_6$ Tetrahedral Anion Cage and $A_2L_3$ Triple Helicate with Guest Capture/Release. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1851-1855.	13.8	76
46	Peripheral Templatation-Modulated Interconversion between an $A_4L_6$ Tetrahedral Anion Cage and $A_2L_3$ Triple Helicate with Guest Capture/Release. <i>Angewandte Chemie</i> , 2018, 130, 1869-1873.	2.0	40
47	Innentitelbild: Peripheral Templatation-Modulated Interconversion between an $A_4L_6$ Tetrahedral Anion Cage and $A_2L_3$ Triple Helicate with Guest Capture/Release ( <i>Angew. Chem.</i> 7/2018). <i>Angewandte Chemie</i> , 2018, 130, 1740-1740.	2.0	0
48	Controlling the Recognition and Reactivity of Alkyl Ammonium Guests Using an Anion Coordination-Based Tetrahedral Cage. <i>Journal of the American Chemical Society</i> , 2018, 140, 5248-5256.	13.7	60
49	Anion-coordination-directed self-assemblies. <i>Organic Chemistry Frontiers</i> , 2018, 5, 662-690.	4.5	57
50	Cycloaddition versus Cleavage of the C=S Bond of Isothiocyanates Promoted by Digallane Compounds with Noninnocent $\lambda^2$ -Diimine Ligands. <i>Chemistry - A European Journal</i> , 2018, 24, 14994-15002.	3.3	39
51	Chirality sensing of choline derivatives by a triple anion helicate cage through induced circular dichroism. <i>Chemical Communications</i> , 2018, 54, 7378-7381.	4.1	45
52	Noninnocent ligands: heteroleptic nickel complexes with $\lambda^2$ -diimine and 1,2-diketone derivatives. <i>Dalton Transactions</i> , 2017, 46, 7857-7865.	3.3	15
53	Air- and Light-Stable $P_4$ and $As_4$ within an Anion-Coordination-Based Tetrahedral Cage. <i>Journal of the American Chemical Society</i> , 2017, 139, 5946-5951.	13.7	80
54	Selective binding of choline by a phosphate-coordination-based triple helicate featuring an aromatic box. <i>Nature Communications</i> , 2017, 8, 938.	12.8	56

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55	Trapping White Phosphorus within a Purely Organic Molecular Container Produced by Imine Condensation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14545-14550.	13.8	85
56	Sandwich phosphate complexes of macrocyclic tris(urea) ligands and their rotation around the anion. <i>Chemical Communications</i> , 2016, 52, 7310-7313.	4.1	23
57	Multinuclear Alkali Metal Complexes of a Triphenylene-Based Hexamine and the Transmetalation to Tris(N-heterocyclic tetraenes) (Ge, Sn, Pb). <i>Inorganic Chemistry</i> , 2016, 55, 9112-9120.	4.0	23
58	Synthesis and Structures of Mono- and Dinuclear Molybdenum Complexes with Reduced $\lambda^5$ -Diimine Ligands. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 5411-5417.	2.0	4
59	Anion recognition by oligo-(thio)urea-based receptors. <i>Chemical Communications</i> , 2016, 52, 9614-9627.	4.1	75
60	Encapsulation of Halocarbons in a Tetrahedral Anion Cage. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8658-8661.	13.8	81
61	Gallium complexes with $\lambda^5$ -diimine and phenazine in various reduced states. <i>Chemical Communications</i> , 2015, 51, 1237-1239.	4.1	19
62	The Effect of the Spacer of Bis(biurea) Ligands on the Structure of $A_{2 \times 2}L_{3 \times 3}$ -type (A=anion) Phosphate Complexes. <i>Chemistry - A European Journal</i> , 2015, 21, 2588-2593.	3.3	25
63	$\lambda^5$ -Diimine nickel complexes of ethylene and related alkenes. <i>Dalton Transactions</i> , 2015, 44, 16228-16232.	3.3	10
64	Reactions of $\lambda^5$ -diimine-aluminum complexes with sodium alkynides: versatile structures of aluminum $\lambda^5$ -alkynide complexes. <i>Dalton Transactions</i> , 2015, 44, 13671-13680.	3.3	19
65	Anion-Coordination-Induced Turn-On Fluorescence of an Oligo-urea-Functionalized Tetraphenylethene in a Wide Concentration Range. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6632-6636.	13.8	155
66	Reactivity of Dialumane and $\alpha$ -Dialumene-Compounds toward Alkenes. <i>Chemistry - A European Journal</i> , 2013, 19, 12059-12066.	3.3	40
67	Distinct Stepwise Reduction of a Nickel- $\lambda^5$ -Nickel-Bonded Compound Containing an $\lambda^5$ -Diimine Ligand: From Perpendicular to Coaxial Structures. <i>Chemistry - A European Journal</i> , 2013, 19, 15240-15247.	3.3	24
68	Activation of alkynes by an $\lambda^5$ -diimine-stabilized Al-Al-bonded compound: insertion into the Al-Al bond or cycloaddition to AlN <sub>2</sub> C <sub>2</sub> rings. <i>Chemical Communications</i> , 2013, 49, 4546.	4.1	49
69	Stepwise Encapsulation of Sulfate Ions by Ferrocenyl-Functionalized Tripodal Hexaurea Receptors. <i>Chemistry - A European Journal</i> , 2013, 19, 9034-9041.	3.3	29
70	Tris Chelating Phosphate Complexes of Bis(thio)urea Ligands. <i>Inorganic Chemistry</i> , 2013, 52, 5851-5860.	4.0	36
71	Tetrahedral Anion Cage: Self-Assembly of a (PO <sub>4</sub> ) <sub>4</sub> L <sub>4</sub> Complex from a Tris(bisurea) Ligand. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5096-5100.	13.8	87
72	From anion complexes to anion coordination polymers (ACPs): assembly with a 1,5-naphthylene bridged bis-bisurea ligand. <i>CrystEngComm</i> , 2013, 15, 4540.	2.6	12

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73	Dinuclear Chloride-Binding Foldamers Based on Fluorescent Oligoureas. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 3446-3454.	2.4	11
74	Ion-pair induced self-assembly of molecular barrels with encapsulated tetraalkylammonium cations based on a bis-trisurea stave. <i>Chemical Communications</i> , 2012, 48, 3097.	4.1	19
75	A bis-bisurea receptor with the R,R-cyclohexane-1,2-diamino spacer for phosphate and sulfate ions. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 8758.	2.8	19
76	Reactions of $\pi$ -Diimine-Stabilized Zn-Zn-Bonded Compounds with Phenylacetylene. <i>Organometallics</i> , 2012, 31, 2978-2985.	2.3	28
77	Synthesis and Reactivity of Nickel Hydride Complexes of an $\pi$ -Diimine Ligand. <i>Inorganic Chemistry</i> , 2012, 51, 13162-13170.	4.0	53
78	Chloride Coordination by Oligoureas: From Mononuclear Crescents to Dinuclear Foldamers. <i>Organic Letters</i> , 2012, 14, 684-687.	4.6	44
79	Mechanistic Insight into the Ni $\pi$ /N Bond-Cleavage of Azo-Compounds that was Induced by an Al $\pi$ /Al-bonded Compound [L <sup>2+</sup> Al <sup>II</sup> Al <sup>II</sup> L <sup>2+</sup> ]. <i>Chemistry - A European Journal</i> , 2012, 18, 6022-6030.	3.3	69
80	Binuclear Alkaline Earth Metal Compounds (Be, Mg, Ca, Sr, Ba) with $\pi$ -Diimine Ligands: A Computational Study. <i>Organometallics</i> , 2011, 30, 3113-3118.	2.3	18
81	Calcium Complexes of Noninnocent $\pi$ -Diimine Ligands. <i>Organometallics</i> , 2011, 30, 1599-1606.	2.3	32
82	Highly Efficient Extraction of Sulfate Ions with a Tripodal Hexaurea Receptor. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 486-490.	13.8	166
83	A Triple Anion Helicate Assembled from a Bis(biurea) Ligand and Phosphate Ions. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5721-5724.	13.8	105
84	Alkali metal compounds of a gallium(I) carbene analogue { :Ga[N(Ar)C(Me)] <sub>2</sub> } (Ar=2,6-iPr <sub>2</sub> C <sub>6</sub> H <sub>3</sub> ). <i>Journal of Organometallic Chemistry</i> , 2011, 696, 1450-1455.	1.8	25
85	Tetraureas versus Triureas in Sulfate Binding. <i>Organic Letters</i> , 2010, 12, 5612-5615.	4.6	60
86	A fully complementary, high-affinity receptor for phosphate and sulfate based on an acyclic tris(urea) scaffold. <i>Chemical Communications</i> , 2010, 46, 5376.	4.1	109
87	Synthesis, Structure, and Spectroscopic and Electrochemical Properties of Copper(II/I) Complexes with Symmetrical and Unsymmetrical 2,9-Diaryl-1,10-phenanthroline Ligands. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 2951-2958.	2.0	18
88	Magnesium-Magnesium Bond Stabilized by a Doubly Reduced $\pi$ -Diimine: Synthesis and Structure of [K(THF) <sub>3</sub> ][LMg <sup>+</sup> Mg <sup>+</sup> L] (L = Tj ETQqO O O rgBT /Overlock 10 Tf 50 142 Td ((2,6- <sup>sup</sup> Pr<sub>2</sub>C<sub>6</sub>H<sub>3</sub>)). <i>Journal of the American Chemical Society</i> , 2009, 131, 4210-4211.	13.7	111
89	Synthesis and Structure of a Zinc-Zinc-Bonded Compound with a Monoanionic $\pi$ -Diimine Ligand, [LZn <sup>+</sup> Zn <sup>+</sup> L] (L = [(2,6-iPr <sub>2</sub> C <sub>6</sub> H <sub>3</sub> )NC(Me)] <sub>2</sub> <sup>-</sup> ). <i>Organometallics</i> , 2009, 28, 5270-5272.	2.3	49
90	Zinc compounds with or without Zn-Zn bond: Alkali metal reduction of LZnCl <sub>2</sub> (L = $\pi$ -diimine ligands). <i>Dalton Transactions</i> , 2009, , 5773.	3.3	45

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91	Supramolecular Assemblies Formed by Cooperative Metal Coordination and Dimerization of the $(2\text{-pyrimidyl})\text{N}^2\text{-}(3\text{-pyridyl})\text{urea}$ Ligand via Hydrogen Bonding. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 1210-1214.		25
92	Sodium and Magnesium Complexes with Dianionic $\hat{\pm}$ -Diimine Ligands. <i>Organometallics</i> , 2008, 27, 5830-5835.	2.3	43
93	Sulfate ion encapsulation in caged supramolecular structures assembled by second-sphere coordination. <i>Chemical Communications</i> , 2008, , 1762.	4.1	167
94	Dinuclear versus Mononuclear Zinc Compounds from Reduction of $\text{LZnCl}_2$ ( $\text{L} = \hat{\pm}$ -Diimine Ligands): Effects of the Ligand Substituent, Reducing Agent, and Solvent. <i>Organometallics</i> , 2008, 27, 5800-5805.	2.3	56
95	A new zinc-zinc-bonded compound with a dianionic $\hat{\pm}$ -diimine ligand: synthesis and structure of $[\text{Na}(\text{THF})_2]_2 \cdot [\text{LZn}^{\pm}\text{-ZnL}]$ ( $\text{L} = [(2,6\text{-iPr}_2\text{C}_6\text{H}_3)\text{N}(\text{Me})\text{C}]_2$ ). <i>Chemical Communications</i> , 2007, , 2363-2365.	4.1	97
96	Hierarchical Self-Assembly of Adhesive and Conductive Gels with Anion-Coordinated Triple Helicate Junctions. <i>Angewandte Chemie</i> , 0, , .	2.0	5