

Baomin Wang

List of Publications by Year in descending order

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94
papers

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218677

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102
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#	ARTICLE	IF	CITATIONS
1	Enantioselective Nitroaldol Reaction of $\hat{1}\pm$ -Ketoesters Catalyzed by Cinchona Alkaloids. <i>Journal of the American Chemical Society</i> , 2006, 128, 732-733.	13.7	332
2	Ammonia formation by a thiolate-bridged diiron amide complex as a nitrogenase mimic. <i>Nature Chemistry</i> , 2013, 5, 320-326.	13.6	139
3	Pyrazolone: a powerful synthon for asymmetric diverse derivatizations. <i>Chemical Communications</i> , 2018, 54, 11515-11529.	4.1	128
4	An Organocatalytic Asymmetric Friedel-Crafts Addition/Fluorination Sequence: Construction of Oxindole- $\hat{1}\pm$ -Pyrazolone Conjugates Bearing Vicinal Tetrasubstituted Stereocenters. <i>Organic Letters</i> , 2015, 17, 5168-5171.	4.6	114
5	Development of Tartaric Acid Derived Chiral Guanidines and Their Application to Catalytic Enantioselective $\hat{1}\pm$ -Hydroxylation of $\hat{1}^2$ -Dicarbonyl Compounds. <i>Organic Letters</i> , 2013, 15, 3106-3109.	4.6	91
6	Asymmetric Construction of a Multi-Pharmacophore-Containing Dispirotriheterocyclic Scaffold and Identification of a Human Carboxylesterase 1 Inhibitor. <i>Organic Letters</i> , 2018, 20, 3394-3398.	4.6	77
7	Highly Efficient and Regioselective Allylation with Allylic Alcohols Catalyzed by $[\text{Mo}^{\text{III}}\text{S}^{\text{IV}}\text{Pd}^{\text{II}}(\text{allyl})_3]$ Clusters. <i>Organic Letters</i> , 2010, 12, 2726-2729.	4.6	70
8	Asymmetric [3 + 2] Cycloaddition of 3-Amino Oxindole-Based Azomethine Ylides and $\hat{1}\pm, \hat{1}^2$ -Enones with Divergent Diastereocontrol on the Spiro[pyrrolidine-oxindoles]. <i>Organic Letters</i> , 2017, 19, 1862-1865.	4.6	61
9	Synthesis and Electrocatalytic Property of Diiron Hydride Complexes Derived from a Thiolate-Bridged Diiron Complex. <i>Inorganic Chemistry</i> , 2015, 54, 10243-10249.	4.0	54
10	Catalytic asymmetric construction of spiro[pyrrolidine-2,3- $\hat{1}^2$ -oxindole] scaffolds through chiral phosphoric acid-catalyzed 1,3-dipolar cycloaddition involving 3-amino oxindoles. <i>Chemical Communications</i> , 2015, 51, 15510-15513.	4.1	50
11	Substrate-controlled divergent synthesis of polycyclic indoloazepines and indolodiazepines via 1,5-hydride shift/7-cyclization cascades. <i>Chemical Communications</i> , 2018, 54, 7928-7931.	4.1	49
12	Novel tartrate-derived guanidine-catalyzed highly enantio- and diastereoselective Michael addition of 3-substituted oxindoles to nitroolefins. <i>Chemical Communications</i> , 2014, 50, 5760.	4.1	47
13	Highly Efficient and Practical Thiocyanation of Imidazopyridines Using an $\text{N}^{\text{C}}\text{-}\hat{1}\pm$ -Chlorosuccinimide/ NaSCN Combination. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 3373-3379.	2.4	47
14	Friedel-Crafts-Type Allylation of Nitrogen-Containing Aromatic Compounds with Allylic Alcohols Catalyzed by a $[\text{Mo}^{\text{III}}\text{S}^{\text{IV}}\text{Pd}^{\text{II}}(\text{allyl})_3]$ Cluster. <i>Journal of Organic Chemistry</i> , 2012, 77, 2942-2946.	3.2	45
15	Asymmetric chlorination of 4-substituted pyrazolones catalyzed by natural cinchona alkaloid. <i>Chemical Communications</i> , 2016, 52, 11426-11429.	4.1	45
16	Organocatalytic Asymmetric Fluorination of 4-Substituted Isoxazolinones. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 2143-2147.	2.4	38
17	2-Activated 1,3-enynes in enantioselective synthesis. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 7977-7986.	2.8	36
18	Asymmetric [3+2] cycloaddition of 3-amino oxindole-based azomethine ylides with $\hat{1}\pm, \hat{1}^2$ -ynones: a straightforward approach to spirooxindoles incorporating 2,5-dihydropyrroles and pyrroles. <i>Chemical Communications</i> , 2017, 53, 4714-4717.	4.1	34

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19	Asymmetric Hydroxylation of 4-Substituted Pyrazolones Catalyzed by Natural Cinchona Alkaloids. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 3971-3976.	4.3	33
20	Synthesis and Reactivity of Thioether-Dithiolate-Bridged Multi-iron Complexes. <i>Organometallics</i> , 2015, 34, 1661-1667.	2.3	30
21	Highly \hat{Z} -Selective Hydrosilylation of Terminal Alkynes Catalyzed by Thiolate-Bridged Dirhodium Complexes. <i>Organic Letters</i> , 2018, 20, 5357-5361.	4.6	30
22	Hydration of Nitriles to Amides by Thiolate-Bridged Diiron Complexes. <i>Organometallics</i> , 2015, 34, 3571-3576.	2.3	29
23	Versatile Reactivity of CH ₃ CN-Coordinated Nickel-Iron Heterodimetallic Complexes with Cp* Ligand on Diazadithiolate (N ₂ S ₂) or Dithiadithiolate (S ₄) Platforms. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2965-2973.	2.0	28
24	Assembly of Indolenines, 3-Amino Oxindoles, and Aldehydes into Indolenine-Substituted Spiro[pyrrolidin-2,3-oxindoles] via 1,3-Dipolar Cycloaddition with Divergent Diastereoselectivities. <i>Journal of Organic Chemistry</i> , 2017, 82, 4317-4327.	3.2	28
25	A facile and expeditious approach to substituted 1 H-pyrazoles catalyzed by iodine. <i>Tetrahedron Letters</i> , 2016, 57, 2633-2637.	1.4	27
26	C ₆ steric bulk of cinchona alkaloid enables an enantioselective Michael addition/annulation sequence toward pyranopyrazoles. <i>Chemical Communications</i> , 2018, 54, 2028-2031.	4.1	27
27	Engaging 2-methyl indolenines in a tandem condensation/1,5-hydride transfer/cyclization process: construction of a novel indolenine-tetrahydroquinoline assembly. <i>Organic Chemistry Frontiers</i> , 2018, 5, 3008-3012.	4.5	27
28	Enantioselective construction of dispirotriheterocycles featuring a 4-aminopyrazolone motif through a cascade Michael/cyclization process. <i>Chemical Communications</i> , 2020, 56, 10690-10693.	4.1	27
29	Asymmetric fluorination of 4-substituted pyrazolones catalyzed by quinine. <i>Tetrahedron: Asymmetry</i> , 2016, 27, 436-441.	1.8	26
30	Structural characterization and proton reduction electrocatalysis of thiolate-bridged bimetallic (CoCo and CoFe) complexes. <i>Dalton Transactions</i> , 2016, 45, 18559-18565.	3.3	26
31	Organocatalytic enantioselective $\hat{\pm}$ -amination of 5-substituted rhodanines: an efficient approach to chiral N,S-acetals. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9097-9100.	2.8	24
32	Thiolate-Bridged Nickel-Iron and Nickel-Ruthenium Complexes Relevant to the CO-Inhibited State of [NiFe]-Hydrogenase. <i>Organometallics</i> , 2016, 35, 751-757.	2.3	24
33	Expedient Synthesis of 1,4-Benzodiazepines via a Tandem Condensation/[1,5]-Hydride Transfer/Cyclization Process. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 4094-4098.	4.3	24
34	Catalytic asymmetric construction of C-4 alkenyl substituted pyrazolone derivatives bearing multiple stereoelements. <i>Chemical Communications</i> , 2021, 57, 6550-6553.	4.1	24
35	Recent advances in the applications of pyrazolone derivatives in enantioselective synthesis. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 2370-2386.	2.8	24
36	Organocatalytic [3 + 2] cycloaddition of oxindole-based azomethine ylides with 3-nitrochromenes: a facile approach to enantioenriched polycyclic spirooxindole-chromane adducts. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 807-815.	2.8	23

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37	Asymmetric sequential annulation/aldol process of 4-isothiocyanato pyrazolones and allenones: access to novel spiro[pyrrole-pyrazolones] and spiro[thiopyranopyrrole-pyrazolones]. <i>Chemical Communications</i> , 2021, 57, 363-366.	4.1	22
38	Novel Tartrate-Based Guanidines for Enantioselective Fluorination of 1,3-Dicarbonyl and α -Cyano Carbonyl Compounds. <i>Australian Journal of Chemistry</i> , 2014, 67, 1115.	0.9	21
39	Zinc chloride catalyzed stereoselective construction of spiropyrazolone tetrahydroquinolines via tandem [1,5]-hydride shift/cyclization sequence. <i>RSC Advances</i> , 2015, 5, 86056-86060.	3.6	21
40	A ZnCl ₂ -Catalyzed Knoevenagel Condensation/1,5-Hydride Shift/Cyclization Sequence: Synthesis of Novel Spiroisoxazolone Tetrahydroquinolines. <i>ChemistrySelect</i> , 2016, 1, 3713-3717.	1.5	20
41	Asymmetric Addition of Pyrazolones to Allenamides Catalyzed by a Chiral Phosphoric Acid. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6469-6473.	2.4	19
42	Biomimetic catalytic oxidative coupling of thiols using thiolate-bridged dinuclear metal complexes containing iron in water under mild conditions. <i>Catalysis Science and Technology</i> , 2019, 9, 6492-6502.	4.1	18
43	1,3-Dipolar Cycloaddition of Azomethine Ylides Involving β -Aminooxindoles: Versatile Construction of Dispiro[pyrrolidine-oxindole] Scaffolds. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 5335-5339.	2.4	17
44	Synthesis and reactivity of thiolate-bridged multi-iron complexes supported by cyclic (alkyl)(amino)carbene. <i>Dalton Transactions</i> , 2017, 46, 15888-15896.	3.3	17
45	Asymmetric tandem Michael addition/oxidation of pyrazolones with p-benzoquinone catalyzed by cinchona alkaloids. <i>Tetrahedron: Asymmetry</i> , 2015, 26, 1382-1387.	1.8	16
46	Migratory insertion and hydrogenation of a bridging azide in a thiolate-bridged dicobalt reaction platform. <i>Chemical Communications</i> , 2017, 53, 9854-9857.	4.1	15
47	Porous Carbon Nanosheet-Supported Chiral Squaramide for Highly Enantioselective Friedel-Crafts Reaction. <i>ChemCatChem</i> , 2018, 10, 1248-1252.	3.7	15
48	Reactivity toward Unsaturated Small Molecules of Thiolate-Bridged Diiron Hydride Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 15198-15204.	4.0	15
49	Advances of α -activated cyclic isothiocyanate for the enantioselective construction of spirocycles. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 4610-4621.	2.8	15
50	Methylene insertion into an Fe ₂ S ₂ cluster: formation of a thiolate-bridged diiron complex containing an Fe-CH ₂ -S moiety. <i>Chemical Communications</i> , 2018, 54, 13119-13122.	4.1	14
51	Chiral Phosphoric Acid-Catalyzed Synthesis of Fluorinated 5,6-Dihydroindolo[1,2-c]quinazolines with Quaternary Stereocenters. <i>Journal of Organic Chemistry</i> , 2019, 84, 8300-8308.	3.2	14
52	Enantioselective [3 + 2] annulation of 4-isothiocyanato pyrazolones and alkynyl ketones under organocatalysis. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 1145-1154.	2.8	13
53	Iodine-mediated cross-dehydrogenative coupling of pyrazolones and alkenes. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 6275-6283.	2.8	12
54	A bioinspired thiolate-bridged dinickel complex with a pendant amine: synthesis, structure and electrocatalytic properties. <i>Dalton Transactions</i> , 2020, 49, 2151-2158.	3.3	12

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55	Palladium-Catalyzed Asymmetric Trifluoromethylated Allylic Alkylation of Pyrazolones Enabled by \pm -(Trifluoromethyl)alkenyl Acetates. <i>Organic Letters</i> , 2021, 23, 5804-5808.	4.6	11
56	C-H Activation of Cp* Ligand Coordinated to Ruthenium Center: Synthesis and Reactivity of a Thiolate-Bridged Diruthenium Complex Featuring Fulvene-like Cp* Ligand. <i>Organometallics</i> , 2017, 36, 1515-1521.	2.3	10
57	Catalytic N-H bond cleavage of hydrazine by thiolate-bridged iron-ruthenium heteronuclear complexes. <i>Inorganic Chemistry Communication</i> , 2017, 83, 66-69.	3.9	10
58	<i>tert</i> -Amino Effect-Promoted Rearrangement of Aryl Isothiocyanate: A Versatile Approach to Benzimidazothiazepines and Benzimidazothioethers. <i>Journal of Organic Chemistry</i> , 2020, 85, 12635-12643.	3.2	10
59	Synthesis and characterization of a family of thioether-dithiolate-bridged heteronuclear iron complexes. <i>Dalton Transactions</i> , 2017, 46, 7030-7038.	3.3	8
60	Terminal alkyne insertion into a thiolate-bridged dirhodium hydride complex derived from heterolytic cleavage of H ₂ . <i>Chemical Communications</i> , 2018, 54, 11112-11115.	4.1	8
61	CO ₂ fixation and transformation on a thiolate-bridged dicobalt scaffold under oxidising conditions. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2185-2193.	6.0	8
62	Catalyst-free construction of spiro [benzoquinolizidine-chromanones] <i>via</i> a tandem condensation/1,5-hydride transfer/cyclization process. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 8839-8843.	2.8	7
63	Structural characterization and conversion of dinuclear iron-sulfur clusters containing the disulfide ligand: [Cp*Fe(η^5 -C ₅ H ₅) ₂ -bdt](cis- η^5 -C ₅ H ₅) ₂ -S ₂)FeCp*], [Cp*Fe(η^5 -S(C ₆ H ₄) ₂ S ₂))(cis- η^5 -C ₅ H ₅) ₂ -S ₂)FeCp*], and [(Cp*Fe(bdt)) ₂ (trans- η^5 -C ₅ H ₅) ₂ -S ₂]. <i>Dalton Transactions</i> , 2017, 46, 3820-3824.		
64	Construction of indolenine-substituted spiro [pyrrolidine-2,3-oxindoles] from 2-alkenylindolenines and isatin-derived azomethine ylides. <i>Tetrahedron</i> , 2018, 74, 2369-2375.	1.9	6
65	Thiolate-Bridged Dicobalt Complexes Bearing Hydrazine, Hydrazido, and Diazenido Ligands: Synthesis, Structural Characterization, and Interconversion. <i>Inorganic Chemistry</i> , 2020, 59, 8203-8212.	4.0	6
66	Generation of a Sulfinamide Species from Facile N-O Bond Cleavage of Nitrosobenzene by a Thiolate-Bridged Diiron Complex. <i>Journal of the American Chemical Society</i> , 2021, 143, 17374-17387.	13.7	6
67	4-Dimethylaminopyridine-catalyzed [3+3] spiroannulation reactions of isatin-derived Morita-Baylis-Hillman carbonates with indoline-2-thiones. <i>Tetrahedron Letters</i> , 2022, 102, 153950.	1.4	6
68	Sulfur-Centered Reactivity of Oxidized Iron-Thiolate Complex toward Unsaturated Hydrocarbon Addition. <i>Organometallics</i> , 2018, 37, 3165-3173.	2.3	5
69	Construction of a spiro [pyrazolone-4,2-oxindole] scaffold <i>via</i> a [3 + 3] cycloaddition of 2-indolylmethanol with a 4-aminopyrazolone-derived azomethine ylide. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 8530-8538.	2.8	5
70	Chiral phosphoric acid-catalyzed regioselective synthesis of spiro aminals with quaternary stereocenters. <i>Tetrahedron Letters</i> , 2021, 65, 152793.	1.4	5
71	Stereoselective Sequential [4+2]/[2+2] Cycloadditions Involving 2-Alkenylindolenines: An Approach to Densely Functionalized Benzo[b]indolizidines. <i>Journal of Organic Chemistry</i> , 2018, 83, 5044-5051.	3.2	4
72	Synthesis, characterization and structure of thiolate-bridged diruthenium and iron-ruthenium complexes with isocyanide ligands. <i>Inorganic Chemistry Communication</i> , 2019, 106, 27-33.	3.9	4

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73	Catalytic disproportionation of hydrazine by thiolate-bridged diiron complexes. <i>Inorganic Chemistry Communication</i> , 2020, 112, 107735.	3.9	4
74	Synthesis, Isomerization and Electrocatalytic Properties of Thiolate-Bridged Dicobalt Hydride Complexes with Different Substituents. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2757-2764.	2.0	4
75	Diastereoselective synthesis of indolenine-based spiro[pyrazolone-4,2-pyrrolidine] scaffolds via 1,3-dipolar cycloaddition of 4-aminopyrazolones, aldehydes, and indolenines. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 6964-6968.	2.8	4
76	Structure and Methylene Transfer Reactivity of Thiolate-Bridged Dichromium Methylene Complexes Derived from Dihalomethane via Cleavage of Two Carbon-Halogen Bonds. <i>Organometallics</i> , 2021, 40, 1434-1442.	2.3	4
77	Squaramide-catalyzed asymmetric Michael/cyclization of 4-isothiocyanato pyrazolones and α,β -unsaturated ketones. <i>Tetrahedron Letters</i> , 2021, 78, 153259.	1.4	4
78	Facile C-N coupling of coordinated ammonia and labile carbonyl or acetonitrile promoted by a thiolate-bridged dicobalt reaction scaffold. <i>Dalton Transactions</i> , 2020, 49, 11260-11267.	3.3	3
79	Synthesis, characterization and reactivity of thiolate-bridged cobalt-iron and ruthenium-iron complexes. <i>Chinese Chemical Letters</i> , 2022, 33, 217-220.	9.0	3
80	Synthesis, Structure, and Oxidative Reactivity of a Class of Thiolate-Bridged Dichromium Complexes Featuring Antiferromagnetic Coupling Interactions. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 923-928.	2.0	2
81	Identification of a tartrate-based modular guanidine towards highly asymmetric Michael addition of 3-aminoxindoles to nitroolefins. <i>Tetrahedron Letters</i> , 2021, 64, 152741.	1.4	2
82	Stereoselective construction of novel biaryl bridged seven-membered ring scaffolds via intramolecular [3+2] cycloaddition reactions. <i>Tetrahedron Letters</i> , 2021, 87, 153510.	1.4	2
83	Formation of thiolate-bridged diiron complexes featuring anionic isocyanide originating from the activation of counterions in the outer sphere. <i>Dalton Transactions</i> , 2021, . .	3.3	2
84	Synthesis, Characterization, and Catalytic Reactivity of Dithiolate-Bridged Diiron Complexes Supported by Bulky Cyclopentadienyl Ligands. <i>Organometallics</i> , 2022, 41, 1334-1343.	2.3	2
85	Synthesis and Structure of Thiolate-Bridged Diiron and Dicobalt Complexes Supported by Modified α,β -diketiminato Ligands. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	2.0	2
86	Proton mediated switching of the coordination states of the tethered N-atom in iron complex featuring a pendent amine functionalized Cp* ligand. <i>Inorganic Chemistry Communication</i> , 2017, 86, 133-136.	3.9	1
87	Synthesis, characterization and reactivity toward small molecules of a diiron tetrahydrido bridged complex. <i>Inorganic Chemistry Communication</i> , 2020, 122, 108286.	3.9	1
88	Construction of a low-valent thiolate-bridged dicobalt platform and its reactivity toward hydrogen activation and evolution. <i>Chinese Chemical Letters</i> , 2021, . .	9.0	1
89	Reversible binding of dinitrogen on a thiolate-bridged cobalt-ruthenium complex supported by a flexible bidentate phosphine ligand. <i>Dalton Transactions</i> , 2022, 51, 9978-9982.	3.3	1
90	A thiolate-bridged ruthenium-molybdenum complex featuring terminal nitrido and bridging amido ligands derived from the N-H and N-N bond cleavage of hydrazine. <i>Dalton Transactions</i> , 2022, 51, 10866-10870.	3.3	1

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91	Catalytic asymmetric construction of dispirotriheterocyclic structures through [3+2] cycloadditions of 4-amino pyrazolone-based azomethine ylides. <i>New Journal of Chemistry</i> , 2022, 46, 14155-14158.	2.8	1
92	Acid-catalyzed allenylation of pyrazolones with propargyl alcohols. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 4992-5001.	2.8	0
93	C-4 benzofuranylation of pyrazolones by a metal-free catalyzed indirect heteroarylation strategy. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 10215-10222.	2.8	0
94	Asymmetric 1,3-dipolar cycloaddition of 4-aminopyrazolone-based azomethine ylides: a straightforward approach to spiropyrazolones. <i>Organic Chemistry Frontiers</i> , 0, , .	4.5	0