

Ying-Feng Han

List of Publications by Year in descending order

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papers

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94433

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times ranked

2671
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#	ARTICLE	IF	CITATIONS
1	Stepwise formation of organometallic macrocycles, prisms and boxes from Ir, Rh and Ru-based half-sandwich units. <i>Chemical Society Reviews</i> , 2009, 38, 3419.	38.1	307
2	Preparation and Post-Assembly Modification of Metallosupramolecular Assemblies from Poly(<i>N</i> -Heterocyclic Carbene) Ligands. <i>Chemical Reviews</i> , 2018, 118, 9587-9641.	47.7	254
3	Cyclometalated [Cp*M(C ^X)] (M = Ir, Rh; X = N, C, O, P) complexes. <i>Chemical Society Reviews</i> , 2014, 43, 2799-2823.	38.1	228
4	Half-Sandwich Iridium- and Rhodium-based Organometallic Architectures: Rational Design, Synthesis, Characterization, and Applications. <i>Accounts of Chemical Research</i> , 2014, 47, 3571-3579.	15.6	225
5	Extending Rectangular Metal-Organic Frameworks to the Third Dimension: Discrete Organometallic Boxes for Reversible Trapping of Halocarbons Occurring with Conservation of the Lattice. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6234-6238.	13.8	152
6	Postsynthetic Modification of Dicarbene-Derived Metallacycles via Photochemical [2 + 2] Cycloaddition. <i>Journal of the American Chemical Society</i> , 2013, 135, 9263-9266.	13.7	143
7	Host-guest chemistry with bi- and tetra-nuclear macrocyclic metallasupramolecules. <i>Chemical Communications</i> , 2010, 46, 6879.	4.1	135
8	Template-controlled topochemical photodimerization based on π -organometallic macrocycles through single-crystal to single-crystal transformation. <i>Chemical Communications</i> , 2008, , 1807.	4.1	131
9	Stepwise Construction of Discrete Heterometallic Coordination Cages Based on Self-Sorting Strategy. <i>Journal of the American Chemical Society</i> , 2014, 136, 2982-2985.	13.7	120
10	Template Synthesis of Three-Dimensional Hexakisimidazolium Cages. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5161-5165.	13.8	115
11	Reversible Photochemical Modifications in Dicarbene-Derived Metallacycles with Coumarin Pendants. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4958-4962.	13.8	110
12	Facile Separation of Regioisomeric Compounds by a Heteronuclear Organometallic Capsule. <i>Journal of the American Chemical Society</i> , 2016, 138, 10700-10707.	13.7	102
13	Molecular Borromean Rings Based on Dihalogenated Ligands. <i>CheM</i> , 2017, 3, 110-121.	11.7	94
14	Ultrastable and Highly Catalytically Active N -Heterocyclic Carbene-Stabilized Gold Nanoparticles in Confined Spaces. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16683-16689.	13.8	92
15	Strategy for the Construction of Diverse Poly(NHC)-Derived Assemblies and Their Photoinduced Transformations. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10073-10080.	13.8	89
16	Homo- and Heteroligand Poly(NHC) Metal Assemblies: Synthesis by Narcissistic and Social Self-Sorting. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15767-15771.	13.8	87
17	Self-Assembly, Structural Transformation, and Guest-Binding Properties of Supramolecular Assemblies with Triangular Metal-Metal Bonded Units. <i>Journal of the American Chemical Society</i> , 2020, 142, 2524-2531.	13.7	84
18	Supramolecular Control of Photocycloadditions in Solution: In Situ Stereoselective Synthesis and Release of Cyclobutanes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3986-3991.	13.8	83

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19	Stepwise formation of π -organometallic boxes with half-sandwich Ir, Rh and Ru fragments. <i>Chemical Communications</i> , 2008, , 350-352.	4.1	81
20	A Strategy for the Construction of Triply Interlocked Organometallic Cages by Rational Design of Poly-NHC Precursors. <i>Journal of the American Chemical Society</i> , 2020, 142, 13614-13621.	13.7	74
21	A triptycene-based porous hydrogen-bonded organic framework for guest incorporation with tailored fitting. <i>Chemical Communications</i> , 2017, 53, 3677-3680.	4.1	69
22	[2+2] Photodimerization in the Solid State Aided by Molecular Templates of Rectangular Macrocycles Bearing Oxamidato Ligands. <i>Organometallics</i> , 2010, 29, 2842-2849.	2.3	65
23	Construction of Tetranuclear Macrocycles through $\text{C}\equiv\text{H}$ Activation and Structural Transformation Induced by [2+2] Photocycloaddition Reaction. <i>Chemistry - A European Journal</i> , 2011, 17, 1863-1871.	3.3	65
24	Template-Directed Photochemical [2 + 2] Cycloaddition in Crystalline Materials: A Useful Tool to Access Cyclobutane Derivatives. <i>Crystal Growth and Design</i> , 2018, 18, 553-565.	3.0	63
25	Supramolecular Control of Photocycloadditions in Solution: In Situ Stereoselective Synthesis and Release of Cyclobutanes. <i>Angewandte Chemie</i> , 2019, 131, 4026-4031.	2.0	63
26	Strategy for the Construction of Diverse Poly-NHC-Derived Assemblies and Their Photoinduced Transformations. <i>Angewandte Chemie</i> , 2020, 132, 10159-10166.	2.0	62
27	Synthesis, Characterization, and Electrochemical Properties of Molecular Rectangles of Half-Sandwich Iridium Complexes Containing Bridging Chloranilate Ligands. <i>Organometallics</i> , 2008, 27, 4088-4097.	2.3	61
28	$\text{H}_{2\text{C}}=$ -Initiated Reversible Switching between Two-Dimensional Metallacycles and Three-Dimensional Cylinders. <i>Journal of the American Chemical Society</i> , 2014, 136, 14608-14615.	13.7	60
29	$\text{C}_{3\text{H}}^{\text{sym}}$ -Symmetric Assemblies from Trigonal Polycarbene Ligands and M^{I} Ions for the Synthesis of Three-Dimensional Polyimidazolium Cations. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13360-13364.	13.8	53
30	Stepwise Formation of Molecular Rectangles of Half-Sandwich Rhodium and Ruthenium Complexes Containing Bridging Chloranilate Ligands. <i>Organometallics</i> , 2008, 27, 5002-5008.	2.3	49
31	Stepwise Formation of Half-Sandwich Iridium-Based Rectangles Containing 2,5-Diarylamino-1,4-benzoquinone Derivatives Linkers. <i>Organometallics</i> , 2009, 28, 3459-3464.	2.3	48
32	Coordination-Induced Emission from Tetraphenylethylene Units and Their Applications. <i>Chemistry - A European Journal</i> , 2021, 27, 1556-1575.	3.3	47
33	Backbone-Directed Self-Assembly of Interlocked Molecular Cyclic Metalla[3]Catenanes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13516-13520.	13.8	45
34	Facile Synthesis of Size-Tunable Functional Polyimidazolium Macrocycles through a Photochemical Closing Strategy. <i>Chemistry - A European Journal</i> , 2015, 21, 17610-17613.	3.3	43
35	Recent Advances in the Chemistry of N^{I} -Heterocyclic Carbene-Functionalized Metal Nanoparticles and Their Applications. <i>Chinese Journal of Chemistry</i> , 2019, 37, 76-87.	4.9	42
36	N-Heterocyclic carbenes and their precursors in functionalised porous materials. <i>Chemical Society Reviews</i> , 2021, 50, 13559-13586.	38.1	42

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37	Strategies for the construction of supramolecular assemblies from poly-NHC ligand precursors. <i>Science China Chemistry</i> , 2021, 64, 701-718.	8.2	38
38	Synthesis, Characterization, and Properties of Half-Sandwich Iridium/Rhodium-Based Metallarectangles. <i>Organometallics</i> , 2014, 33, 3091-3095.	2.3	37
39	Templatsynthese dreidimensionaler Hexakisimidazolium-Käfige. <i>Angewandte Chemie</i> , 2018, 130, 5256-5261.	2.0	37
40	Chelating Bis(N-Heterocyclic Carbene) Palladium-Catalyzed Reactions. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2257-2276.	3.3	36
41	Chiral Coordination Metallacycles/Metallacages for Enantioselective Recognition and Separation. <i>Chinese Journal of Chemistry</i> , 2021, 39, 2273-2286.	4.9	35
42	Efficient formation of organoiridium macrocycles via C-H activation directed self-assembly. <i>Chemical Communications</i> , 2010, 46, 3556.	4.1	33
43	Self-assembled half-sandwich Ir, Rh-based organometallic molecular boxes for reversible trapping of halocarbon molecules. <i>Dalton Transactions</i> , 2010, 39, 3976.	3.3	30
44	Half-sandwich Ir-based neutral organometallic macrocycles containing pyridine-4-thiolato ligands. <i>Dalton Transactions</i> , 2009, , 2077.	3.3	29
45	Homo- and Heteroligand Poly-NHC Metal Assemblies: Synthesis by Narcissistic and Social Self-Sorting. <i>Angewandte Chemie</i> , 2018, 130, 15993-15997.	2.0	28
46	Multistimuli-Responsive Fluorescent Organometallic Assemblies Based on Mesoionic Carbene-Decorated Tetraphenylethene Ligands and Their Applications in Cell Imaging. <i>CCS Chemistry</i> , 2022, 4, 732-743.	7.8	28
47	Self-Assembled Hexanuclear Organometallic Cages: Synthesis, Characterization, and Host-Guest Properties. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1243-1250.	3.3	27
48	Tuning the Magic Sizes and Optical Properties of Atomically Precise Bidentate N-Heterocyclic Carbene-Protected Gold Nanoclusters via Subtle Change of N-Substituents. <i>Advanced Optical Materials</i> , 2021, 9, 2001936.	7.3	27
49	Metal-Carbene-Templated Photochemistry in Solution: A Universal Route towards Cyclobutane Derivatives. <i>Chinese Journal of Chemistry</i> , 2019, 37, 1147-1152.	4.9	26
50	Efficient Route to Organometallic Cage Formation via C-H Activation-Directed Multicomponent Assembly Accompanying Aromatic Guest Encapsulation. <i>Organometallics</i> , 2012, 31, 995-1000.	2.3	25
51	Photodrivensolid-state multiple [2 + 2] cycloaddition strategies for the construction of polycyclobutane derivatives. <i>CrystEngComm</i> , 2019, 21, 4673-4683.	2.6	25
52	Flexible Organometallic Cages: Efficient Formation by C-H Activation-Directed Multicomponent Assembly, Isomerization, and Host-Guest Properties. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1348-1352.	3.3	23
53	Synthesis, Characterization, and Properties of Tetraphenylethylene-Based Tetrakis-NHC Ligands and Their Metal Complexes. <i>Chemistry - A European Journal</i> , 2019, 25, 9764-9770.	3.3	21
54	Synthesis, Characterization, and Catalytic Activities of Palladium Complexes with Phenylene-Bridged Bis(thione) Ligands. <i>Organometallics</i> , 2019, 38, 1946-1954.	2.3	21

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55	NHC-Palladium(II) Mononuclear and Binuclear Complexes Containing Phenylene-Bridged Bis(thione) Ligands: Synthesis, Characterization, and Catalytic Activities. <i>Organometallics</i> , 2020, 39, 1790-1798.	2.3	21
56	Air-/Heat-Stable Crystalline Carbon-Centered Radicals Derived from an Annelated N-Heterocyclic Carbene. <i>Journal of the American Chemical Society</i> , 2021, 143, 14428-14432.	13.7	21
57	Synthesis and structural characterization of binuclear half-sandwich iridium, rhodium and ruthenium complexes containing 4,4'-dipyridyldisulfide (4DPDS) ligands. <i>Dalton Transactions</i> , 2010, 39, 7119.	3.3	20
58	Discrete half-sandwich Ir, Rh-based organometallic molecular boxes: synthesis, characterization, and their properties. <i>Dalton Transactions</i> , 2011, 40, 10370.	3.3	20
59	N-Heterocyclic Carbene as a Surface Platform for Assembly of Homochiral Metal-Organic Framework Thin Films in Chiral Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38357-38364.	8.0	20
60	Supramolecular-induced regiocontrol over the photochemical [4 + 4] cyclodimerization of NHC- or azole-substituted anthracenes. <i>Chemical Science</i> , 2021, 12, 2165-2171.	7.4	20
61	A macrocyclic silver polycarbene complex based on 1,2,4-triazole units: synthesis and postsynthetic modification. <i>Dalton Transactions</i> , 2018, 47, 4267-4272.	3.3	19
62	Single-Crystalline Organoiridium Complex for Gas-Triggered Chromogenic Switches and Its Applications on CO Detection and Reversible Scavenging. <i>Chinese Journal of Chemistry</i> , 2019, 37, 763-768.	4.9	19
63	Photochemical Modification of Carbene-Based Metallacycles: A Facile Route to Polycarbene Complexes and Their Derivatives. <i>Organometallics</i> , 2015, 34, 5801-5806.	2.3	18
64	Efficient synthesis of carborane azo derivatives and their reactivity. <i>Dalton Transactions</i> , 2017, 46, 1585-1592.	3.3	18
65	C ₃ -Symmetric Assemblies from Trigonal Polycarbene Ligands and M ^I Ions for the Synthesis of Three-Dimensional Polyimidazolium Cations. <i>Angewandte Chemie</i> , 2019, 131, 13494-13498.	2.0	17
66	Template Synthesis of Metal Nanoparticles within Organic Cages. <i>Chinese Journal of Chemistry</i> , 2019, 37, 1289-1290.	4.9	17
67	Synthesis, Characterization, and Properties of Organometallic Molecular Cylinders Bearing Bulky Imidazo[1,5-a]pyridine-Based N-Heterocyclic Carbene Ligands. <i>Chemistry - A European Journal</i> , 2019, 25, 5472-5479.	3.3	17
68	Ultrastable and Highly Catalytically Active N-Heterocyclic Carbene-Stabilized Gold Nanoparticles in Confined Spaces. <i>Angewandte Chemie</i> , 2020, 132, 16826.	2.0	17
69	Hierarchical self-assembly of crown ether based metal-carbene cages into multiple stimuli-responsive cross-linked supramolecular metallogel. <i>Science China Chemistry</i> , 2021, 64, 1177-1183.	8.2	17
70	On/off fluorescence emission induced by encapsulation, exchange and reversible encapsulation of a BODIPY-guest in self-assembled organometallic cages. <i>Dalton Transactions</i> , 2019, 48, 7236-7241.	3.3	16
71	Photoinduced E to Z isomerization of tetraphenylethylene derivatives within organometallic supramolecular assemblies. <i>Science China Chemistry</i> , 2021, 64, 1709-1715.	8.2	15
72	Synthesis of a new type of alkene metal complex using face-capping thione-alkene ligands. <i>Dalton Transactions</i> , 2015, 44, 8797-8800.	3.3	14

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73	Bottom-up construction of mesoporous supramolecular isomers based on a Pd3L6 triangular prism as templates for shape specific aggregation of polyiodide. Nano Research, 2022, 15, 2655-2660.	10.4	13
74	Supramolecular Construction of a [16]â€ˆimidazolium Cage via a Quadruple [2+2] Photocycloaddition and Its Selective Fluorescent Recognition of Pyranine (HPTS). Chemistry - A European Journal, 2020, 26, 7190-7193.	3.3	11
75	Regioselective N- and C-Metalation of Neutral 2-Halogenobenzimidazole Derivatives. Organometallics, 2019, 38, 3278-3285.	2.3	10
76	Formation of Functional Cyclooctadiene Derivatives by Supramolecularlyâ€ˆControlled Topochemical Reactions and Their Use as Highly Selective Fluorescent Biomolecule Probes^{â€ˆ}. Chinese Journal of Chemistry, 2020, 38, 1040-1044.	4.9	9
77	Process-tracing study on the post-assembly modification of poly-NHC-based metallocsupramolecular cylinders with tunable aggregation-induced emission. Chemical Communications, 2019, 55, 13689-13692.	4.1	8
78	A metalâ€ˆcarbene template approach enables efficient synthesis of a functionalized cage-annulated crown ether. Chemical Communications, 2021, 57, 8584-8587.	4.1	8
79	Template-directed photochemical [2+2] cycloaddition within discrete assemblies. Scientia Sinica Chimica, 2017, 47, 705-712.	0.4	8
80	A trefoil-shaped macrocycle with [12]-imidazolium cations. Chinese Chemical Letters, 2022, 33, 4567-4571.	9.0	8
81	Supramolecular Template-Assisted Catalytic [2+2] Photocycloaddition in Homogeneous Solution. CCS Chemistry, 2023, 5, 633-640.	7.8	8
82	Backboneâ€ˆDirected Selfâ€ˆAssembly of Interlocked Molecular Cyclic Metalla[3]Catenanes. Angewandte Chemie, 2020, 132, 13618-13622.	2.0	7
83	Synthesis and Structural characterization of half-sandwich iridium macro-metallacycles containing 1,5-dihydroxy-9,10- anthraquinone ligand. Journal of Organometallic Chemistry, 2012, 708-709, 31-36.	1.8	6
84	Supramolecular Coordination Cages Based on Nâ€ˆHeterocyclic Carbeneâ€ˆGold(I) Ligands and Their Precursors: Selfâ€ˆAssembly, Structural Transformation and Guestâ€ˆBinding Properties. Chemistry - A European Journal, 2021, 27, 7853-7861.	3.3	6
85	Template-driven construction of [8]-imidazolium macrocycles. Organic Chemistry Frontiers, 2021, 8, 1431-1436.	4.5	6
86	Supramolecular-controlled regioselective photochemical [4 + 4] cycloaddition within Cp*Rh-based metallarectangles. Dalton Transactions, 2022, 51, 8743-8748.	3.3	6
87	Synthesis, Characterization, and Structural Transformation of Picolyl-Functionalized Polynuclear Silver(I)â€ˆ and Gold(I)â€ˆN-Heterocyclic Carbene Complexes. Organometallics, 2021, 40, 1474-1481.	2.3	4
88	Phase-mediated controllable intramolecular and intermolecular photocycloadditions assisted by supramolecular templates. Science China Chemistry, 2022, 65, 1129-1133.	8.2	4
89	A perylene diimide-based fluorescent probe for the selective detection of hypochlorite in living cells. Materials Chemistry Frontiers, 2022, 6, 2266-2273.	5.9	4
90	Synthesis and properties of cyclic tetracarbene-based organometallic assemblies. Journal of Organometallic Chemistry, 2020, 917, 121250.	1.8	3

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91	Coordination-driven self-assembly vs dynamic covalent chemistry: versatile methods for the synthesis of molecular metallarectangles. Beilstein Journal of Organic Chemistry, 2018, 14, 2027-2034.	2.2	2
92	A Molecular ∞^2 -Type ∞^2 -Tangled Metallocube. Angewandte Chemie, 2022, 134, .	2.0	2
93	Inside Cover: Construction of Tetranuclear Macrocycles through C_{60}H Activation and Structural Transformation Induced by [2+2] Photocycloaddition Reaction (Chem. Eur. J. 6/2011). Chemistry - A European Journal, 2011, 17, 1710-1710.	3.3	1
94	Incorporation of Core-Twisted Perylene Bisimide Ligands into a Discrete $\text{Cp}^*\text{Rh}^{\text{III}}$ -Based Molecular Rectangle via Coordination-Driven Self-Assembly. Israel Journal of Chemistry, 2019, 59, 311-316.	2.3	1
95	Post-assembly modification of discrete poly-NHC-derived organometallic assemblies. Applied Organometallic Chemistry, 0, , .	3.5	0