Yinghua Jin

List of Publications by Citations

106 papers	6,946 citations	40 h-index	83 g-index
117 ext. papers	8,364 ext. citations	11.6 avg, IF	6.31 L-index

#	Paper	IF	Citations
106	Recent advances in dynamic covalent chemistry. *Chemical Society Reviews*, **2013**, 42, 6634-54	58.5	889
105	Heat- or water-driven malleability in a highly recyclable covalent network polymer. *Advanced Materials*, **2014**, 26, 3938-42	24	443
104	Ionic Covalent Organic Frameworks with Spiroborate Linkage. *Angewandte Chemie - International Edition*, **2016**, 55, 1737-41	16.4	380
103	Synthesis of Ultrafine and Highly Dispersed Metal Nanoparticles Confined in a Thioether-Containing Covalent Organic Framework and Their Catalytic Applications. *Journal of the American Chemical Society*, **2017**, 139, 17082-17088	16.4	358
102	Dynamic covalent chemistry approaches toward macrocycles, molecular cages, and polymers. *Accounts of Chemical Research*, **2014**, 47, 1575-86	24.3	313
101	Repairable Woven Carbon Fiber Composites with Full Recyclability Enabled by Malleable Polyimine Networks. *Advanced Materials*, **2016**, 28, 2904-9	24	303
100	Tessellated multiporous two-dimensional covalent organic frameworks. *Nature Reviews Chemistry*, **2017**, 1,	34.6	240
99	Taxadiene synthase structure and evolution of modular architecture in terpene biosynthesis. *Nature*, **2011**, 469, 116-20	50.4	229
98	Highly CO2-selective organic molecular cages: what determines the CO2 selectivity. *Journal of the American Chemical Society*, **2011**, 133, 6650-8	16.4	214
97	Synthesis of a Two-Dimensional Covalent Organic Monolayer through Dynamic Imine Chemistry at the Air/Water Interface. *Angewandte Chemie - International Edition*, **2016**, 55, 213-7	16.4	213
96	A shape-persistent organic molecular cage with high selectivity for the adsorption of CO2 over N2. *Angewandte Chemie - International Edition*, **2010**, 49, 6348-51	16.4	189
95	Identification of syn-pimara-7,15-diene synthase reveals functional clustering of terpene synthases involved in rice phytoalexin/allelochemical biosynthesis. *Plant Physiology*, **2004**, 135, 2098-105	6.6	172
94	Crystalline Lithium Imidazolate Covalent Organic Frameworks with High Li-Ion Conductivity. *Journal of the American Chemical Society*, **2019**, 141, 7518-7525	16.4	165
93	Template synthesis of gold nanoparticles with an organic molecular cage. *Journal of the American Chemical Society*, **2014**, 136, 1782-5	16.4	147
92	Development of organic porous materials through Schiff-base chemistry. *CrystEngComm*, **2013**, 15, 1484-1499	3.3	131
91	Desymmetrized Vertex Design for the Synthesis of Covalent Organic Frameworks with Periodically Heterogeneous Pore Structures. *Journal of the American Chemical Society*, **2015**, 137, 13772-5	16.4	113
90	Mesoporous 2D covalent organic frameworks based on shape-persistent arylene-ethynylene macrocycles. *Chemical Science*, **2015**, 6, 4049-4053	9.4	93

89	A tetrameric cage with D2h symmetry through alkyne metathesis. *Angewandte Chemie - International Edition*, **2014**, 53, 10663-7	16.4	93
88	Highly Fluoro-Substituted Covalent Organic Framework and Its Application in Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 42233-42240	9.5	87
87	Solution-phase dynamic assembly of permanently interlocked aryleneethynylene cages through alkyne metathesis. *Angewandte Chemie - International Edition*, **2015**, 54, 7550-4	16.4	84
86	Dynamic covalent synthesis of aryleneethynylene cages through alkyne metathesis: dimer, tetramer, or interlocked complex?. *Chemical Science*, **2016**, 7, 3370-3376	9.4	81
85	Malleable and Recyclable Thermosets: The Next Generation of Plastics. *Matter*, **2019**, 1, 1456-1493	12.7	81
84	Cage-templated synthesis of highly stable palladium nanoparticles and their catalytic activities in Suzuki-Miyaura coupling. *Chemical Science*, **2018**, 9, 676-680	9.4	79
83	Re-healable polyimine thermosets: polymer composition and moisture sensitivity. *Polymer Chemistry*, **2016**, 7, 7052-7056	4.9	74
82	Ionic Covalent Organic Frameworks with Spiroborate Linkage. *Angewandte Chemie*, **2016**, 128, 1769-1773	3.6	71
81	Iron-rich nanoparticle encapsulated, nitrogen doped porous carbon materials as efficient cathode electrocatalyst for microbial fuel cells. *Journal of Power Sources*, **2016**, 315, 302-307	8.9	70
80	Taxadiene synthase-catalyzed cyclization of 6-fluorogeranylgeranyl diphosphate to 7-fluoroverticillenes. *Journal of the American Chemical Society*, **2005**, 127, 7834-42	16.4	70
79	Microwave-assisted syntheses of highly CO2-selective organic cage frameworks (OCFs). *Chemical Science*, **2012**, 3, 874-877	9.4	67
78	A Shape-Persistent Organic Molecular Cage with High Selectivity for the Adsorption of CO2 over N2. *Angewandte Chemie*, **2010**, 122, 6492-6495	3.6	62
77	Application of alkyne metathesis in polymer synthesis. *Journal of Materials Chemistry A*, **2014**, 2, 5986	13	57
76	Covalent organic framework-supported Fe□iO2 nanoparticles as ambient-light-active photocatalysts. *Journal of Materials Chemistry A*, **2019**, 7, 16364-16371	13	56
75	Synthesis of a Two-Dimensional Covalent Organic Monolayer through Dynamic Imine Chemistry at the Air/Water Interface. *Angewandte Chemie*, **2016**, 128, 221-225	3.6	55
74	Rehealable imide□mine hybrid polymers with full recyclability. *Journal of Materials Chemistry A*, **2017**, 5, 21140-21145	13	51
73	Phosphine-Based Covalent Organic Framework for the Controlled Synthesis of Broad-Scope Ultrafine Nanoparticles. *Small*, **2020**, 16, e1906005	11	47
72	Shape-persistent arylenevinylene macrocycles (AVMs) prepared via acyclic diene metathesis macrocyclization (ADMAC). *Chemical Communications*, **2010**, 46, 8258-60	5.8	47

71	Pillar[n]arene-based supramolecular organic frameworks with high hydrocarbon storage and selectivity. *Chemical Communications*, **2017**, 53, 6409-6412	5.8	45
70	Metallated porphyrin based porous organic polymers as efficient electrocatalysts. *Nanoscale*, **2015**, 7, 18271-7	7.7	45
69	Highly efficient one-pot synthesis of hetero-sequenced shape-persistent macrocycles through orthogonal dynamic covalent chemistry (ODCC). *Chemical Communications*, **2013**, 49, 4418-20	5.8	45
68	A Truxenone-based Covalent Organic Framework as an All-Solid-State Lithium-Ion Battery Cathode with High Capacity. *Angewandte Chemie - International Edition*, **2020**, 59, 20385-20389	16.4	45
67	Porous organic polymer material supported palladium nanoparticles. *Journal of Materials Chemistry A*, **2020**, 8, 17360-17391	13	44
66	Confined growth of ordered organic frameworks at an interface. *Chemical Society Reviews*, **2020**, 49, 4637-4666	58.5	39
65	A Tetrameric Cage with D2h Symmetry through Alkyne Metathesis. *Angewandte Chemie*, **2014**, 126, 10839-10843	3.6	38
64	Porous Poly(aryleneethynylene) Networks through Alkyne Metathesis. *Chemistry of Materials*, **2013**, 25, 3718-3723	9.6	37
63	Design strategies for shape-persistent covalent organic polyhedrons (COPs) through imine condensation/metathesis. *Journal of Organic Chemistry*, **2012**, 77, 7392-400	4.2	37
62	An unexpected diterpene cyclase from rice: functional identification of a stemodene synthase. *Archives of Biochemistry and Biophysics*, **2006**, 448, 133-40	4.1	37
61	Highly Active Multidentate Ligand-Based Alkyne Metathesis Catalysts. *Chemistry - A European Journal*, **2016**, 22, 7959-63	4.8	37
60	A titanium-based porous coordination polymer as a catalyst for chemical fixation of CO2. *Journal of Materials Chemistry A*, **2017**, 5, 9163-9168	13	35
59	Synthesis of Cyclic Porphyrin Trimers through Alkyne Metathesis Cyclooligomerization and Their Host-Guest Binding Study. *Organic Letters*, **2016**, 18, 2946-9	6.2	34
58	Separation of Arylenevinylene Macrocycles with a Surface-Confined Two-Dimensional Covalent Organic Framework. *Angewandte Chemie - International Edition*, **2018**, 57, 8984-8988	16.4	34
57	Shape-persistent arylene ethynylene organic hosts for fullerenes. *Chemical Record*, **2015**, 15, 97-106	6.6	29
56	Solution-Phase Dynamic Assembly of Permanently Interlocked Aryleneethynylene Cages through Alkyne Metathesis. *Angewandte Chemie*, **2015**, 127, 7660-7664	3.6	29
55	Recent development of efficient electrocatalysts derived from porous organic polymers for oxygen reduction reaction. *Science China Chemistry*, **2017**, 60, 999-1006	7.9	27
54	Covalent organic framework-supported platinum nanoparticles as efficient electrocatalysts for water reduction. *Nanoscale*, **2020**, 12, 2596-2602	7.7	27

53	Tuning the physical properties of malleable and recyclable polyimine thermosets: the effect of solvent and monomer concentration. *RSC Advances*, **2017**, 7, 48303-48307	3.7	26
52	Structures, biogenetic relationships, and cytotoxicity of pimarane-derived diterpenes from Petalostigma pubescens. *Phytochemistry*, **2006**, 67, 1708-15	4	25
51	Covalent organic framework based lithium-ion battery: Fundamental, design and characterization. *EnergyChem*, **2021**, 3, 100048	36.9	25
50	Robust, high-barrier, and fully recyclable cellulose-based plastic replacement enabled by a dynamic imine polymer. *Journal of Materials Chemistry A*, **2020**, 8, 14082-14090	13	22
49	Single crystals of mechanically entwined helical covalent polymers. *Nature Chemistry*, **2021**, 13, 660-665	17.6	20
48	Post-synthetic modification of porous organic cages. *Chemical Society Reviews*, **2021**, 50, 8874-8886	58.5	20
47	Rapid Fabrication of Malleable Fiber Reinforced Composites with Vitrimer Powder. *ACS Applied Polymer Materials*, **2019**, 1, 2535-2542	4.3	19
46	Surface-Confined Dynamic Covalent System Driven by Olefin Metathesis. *Angewandte Chemie - International Edition*, **2018**, 57, 1869-1873	16.4	19
45	Highly CO2 selective pillar[n]arene-based supramolecular organic frameworks. *Supramolecular Chemistry*, **2018**, 30, 648-654	1.8	18
44	Poly(aryleneethynylene)s: Properties, Applications and Synthesis Through Alkyne Metathesis. *Topics in Current Chemistry*, **2017**, 375, 69	7.2	18
43	Desymmetrized Vertex Design toward a Molecular Cage with Unusual Topology. *Angewandte Chemie - International Edition*, **2020**, 59, 20846-20851	16.4	17
42	Synthesis of Phenylene Vinylene Macrocycles through Acyclic Diene Metathesis Macrocyclization and Their Aggregation Behavior. *Chemistry - A European Journal*, **2015**, 21, 16935-40	4.8	15
41	Malleable and Recyclable Conductive MWCNT-Vitrimer Composite for Flexible Electronics. *ACS Applied Nano Materials*, **2020**, 3, 4845-4850	5.6	15
40	Aromatic-rich hydrocarbon porous networks through alkyne metathesis. *Materials Chemistry Frontiers*, **2017**, 1, 1369-1372	7.8	12
39	By-design molecular architectures alkyne metathesis. *Chemical Science*, **2021**, 12, 9591-9606	9.4	12
38	Highly C2/C1-Selective Covalent Organic Frameworks Substituted with Azo Groups. *ACS Applied Materials & Interfaces*, **2020**, 12, 51517-51522	9.5	11
37	Controlled self-assembly of gold nanoparticles mediated by novel organic molecular cages. *Optical Materials Express*, **2013**, 3, 205	2.6	10
36	Production and closed-loop recycling of biomass-based malleable materials. *Science China Materials* , **2020**, 63, 2071-2078	7.1	9

35	Highly active alkyne metathesis catalysts operating under open air condition. *Nature Communications*, **2021**, 12, 1136	17.4	9
34	Synthesis of Small-Molecule/DNA Hybrids through On-Bead Amide-Coupling Approach. *Journal of Organic Chemistry*, **2017**, 82, 10803-10811	4.2	8
33	Responsive Dynamic Covalent Polymers **2017**, 321-358		8
32	Enantioselective synthesis of alpha-terpineol and nephthenol by intramolecular acyloxazolidinone enolate alkylations. *Chemical Communications*, **2006**, 2902-4	5.8	8
31	Controlled growth of ultrafine metal nanoparticles mediated by solid supports. *Nanoscale Advances* , **2021**, 3, 1865-1886	5.1	8
30	Principles of Dynamic Covalent Chemistry **2017**, 1-30		7
29	Phenylene vinylene macrocycles as artificial transmembrane transporters. *Chemical Communications*, **2016**, 52, 5848-51	5.8	7
28	Readily useable bulk phenoxazine-based covalent organic framework cathode materials with superior kinetics and high redox potentials. *Journal of Materials Chemistry A*, **2021**, 9, 10661-10665	13	7
27	Synthesis of graphyne using dynamic covalent chemistry		6
26	Surface-Confined Dynamic Covalent System Driven by Olefin Metathesis. *Angewandte Chemie*, **2018** , 130, 1887-1891	3.6	5
25	Shape-persistent Macrocycles through Dynamic Covalent Reactions **2017**, 121-163		5
24	Self-sorting through Dynamic Covalent Chemistry **2017**, 253-286		5
23	Dynamic Combinatorial Libraries **2017**, 31-119		5
22	Mechanics of vitrimer particle compression and fusion under heat press. *International Journal of Mechanical Sciences*, **2021**, 201, 106466	5.5	5
21	Malleable and Recyclable Vitrimer Graphene Aerogel Composite with High Electrical Conductivity. *ACS Applied Electronic Materials*, **2021**, 3, 1178-1183	4	5
20	Self-healing Polymers through Dynamic Covalent Chemistry **2017**, 359-387		4
19	Porous Pyrene Organic Cage with Unusual Absorption Bathochromic-Shift Enables Visible Light Photocatalysis. *CCS Chemistry*,2917-2925	7.2	4
18	Desymmetrized Vertex Design toward a Molecular Cage with Unusual Topology. *Angewandte Chemie*, **2020**, 132, 21032-21037	3.6	4

17	Organic Cages through Dynamic Covalent Reactions **2017**, 165-205		3
16	Orthogonal Dynamic Covalent and Non-covalent Reactions **2017**, 207-251		3
15	Rapid Fabrication of Fiber-Reinforced Polyimine Composites with Reprocessability, Repairability, and Recyclability. *ACS Applied Polymer Materials*,	4.3	3
14	Controlled Synthesis of Palladium Nanoparticles with Size-Dependent Catalytic Activities Enabled by Organic Molecular Cages. *Inorganic Chemistry*, **2021**, 60, 12517-12525	5.1	3
13	Truxene-based covalent organic polyhedrons constructed through alkyne metathesis. *Organic Chemistry Frontiers*, **2021**, 8, 4723-4729	5.2	3
12	A pillar[5]arene-based covalent organic framework with pre-encoded selective host-guest recognition. *Chemical Science*, **2021**, 12, 13316-13320	9.4	3
11	Pillar[6]arene-based Molecular Trap with Unusual Conformation and Topology. *Israel Journal of Chemistry*, **2018**, 58, 1261-1264	3.4	3
10	Helical Covalent Polymers with Unidirectional Ion Channels as Single Lithium-Ion Conducting Electrolytes. *CCS Chemistry*,2762-2770	7.2	3
9	Malleable and recyclable imide□mine hybrid thermosets: influence of imide structure on material property. *Materials Advances*, **2021**, 2, 4333-4338	3.3	2
8	Stereoselective Isoprenoid Chain Extension with Acetoacetate Dianion: (E, E, E)-Geranylgeraniol From (E, E)-Farnesol **2007**, 43-57		2
7	Crystalline, Few-layer 2D Materials via Surfactant-monolayer-assisted Interfacial Synthesis. *Chemical Research in Chinese Universities*, **2019**, 35, 955-956	2.2	1
6	Dynamic Covalent Chemistry for Synthetic Molecular Machines **2017**, 287-319		1
5	A Truxenone-based Covalent Organic Framework as an All-Solid-State Lithium-Ion Battery Cathode with High Capacity. *Angewandte Chemie*, **2020**, 132, 20565-20569	3.6	1
4	SAr stands corrected. *Nature Chemistry*, **2018**, 10, 996-998	17.6	1
3	Separation of Arylenevinylene Macrocycles with a Surface-Confined Two-Dimensional Covalent Organic Framework. *Angewandte Chemie*, **2018**, 130, 9122-9126	3.6	1
2	Broad-Scope Ultrafine Nanoparticles: Phosphine-Based Covalent Organic Framework for the Controlled Synthesis of Broad-Scope Ultrafine Nanoparticles (Small 8/2020). *Small*, **2020**, 16, 2070042	11	
1	Emerging Applications of Dynamic Covalent Chemistry from Macro- to Nanoscopic Length Scales **2017**, 389-434		