

Yinghua Jin

List of Publications by Year in descending order

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93
papers

9,930
citations

53794

45
h-index

38395

95
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117
all docs

117
docs citations

117
times ranked

8894
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in dynamic covalent chemistry. <i>Chemical Society Reviews</i> , 2013, 42, 6634.	38.1	1,130
2	Heat- or Water-Driven Malleability in a Highly Recyclable Covalent Network Polymer. <i>Advanced Materials</i> , 2014, 26, 3938-3942.	21.0	636
3	Synthesis of Ultrafine and Highly Dispersed Metal Nanoparticles Confined in a Thioether-Containing Covalent Organic Framework and Their Catalytic Applications. <i>Journal of the American Chemical Society</i> , 2017, 139, 17082-17088.	13.7	506
4	Ionic Covalent Organic Frameworks with Spiroborate Linkage. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1737-1741.	13.8	503
5	Repairable Woven Carbon Fiber Composites with Full Recyclability Enabled by Malleable Polyimine Networks. <i>Advanced Materials</i> , 2016, 28, 2904-2909.	21.0	455
6	Dynamic Covalent Chemistry Approaches Toward Macrocycles, Molecular Cages, and Polymers. <i>Accounts of Chemical Research</i> , 2014, 47, 1575-1586.	15.6	406
7	Tessellated multiporous two-dimensional covalent organic frameworks. <i>Nature Reviews Chemistry</i> , 2017, 1, .	30.2	319
8	Taxadiene synthase structure and evolution of modular architecture in terpene biosynthesis. <i>Nature</i> , 2011, 469, 116-120.	27.8	290
9	Synthesis of a Two-Dimensional Covalent Organic Monolayer through Dynamic Imine Chemistry at the Air/Water Interface. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 213-217.	13.8	276
10	Crystalline Lithium Imidazolate Covalent Organic Frameworks with High Li-Ion Conductivity. <i>Journal of the American Chemical Society</i> , 2019, 141, 7518-7525.	13.7	261
11	Highly CO ₂ -Selective Organic Molecular Cages: What Determines the CO ₂ Selectivity. <i>Journal of the American Chemical Society</i> , 2011, 133, 6650-6658.	13.7	241
12	A Shape-Persistent Organic Molecular Cage with High Selectivity for the Adsorption of CO ₂ over N ₂ . <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6348-6351.	13.8	225
13	Malleable and Recyclable Thermosets: The Next Generation of Plastics. <i>Matter</i> , 2019, 1, 1456-1493.	10.0	200
14	Identification of Syn-Pimara-7,15-Diene Synthase Reveals Functional Clustering of Terpene Synthases Involved in Rice Phytoalexin/Allelochemical Biosynthesis. <i>Plant Physiology</i> , 2004, 135, 2098-2105.	4.8	195
15	Template Synthesis of Gold Nanoparticles with an Organic Molecular Cage. <i>Journal of the American Chemical Society</i> , 2014, 136, 1782-1785.	13.7	189
16	Development of organic porous materials through Schiff-base chemistry. <i>CrystEngComm</i> , 2013, 15, 1484-1499.	2.6	153
17	Desymmetrized Vertex Design for the Synthesis of Covalent Organic Frameworks with Periodically Heterogeneous Pore Structures. <i>Journal of the American Chemical Society</i> , 2015, 137, 13772-13775.	13.7	148
18	Highly Fluoro-Substituted Covalent Organic Framework and Its Application in Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42233-42240.	8.0	127

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19	Mesoporous 2D covalent organic frameworks based on shape-persistent arylene-ethynylene macrocycles. <i>Chemical Science</i> , 2015, 6, 4049-4053.	7.4	118
20	Solution-Phase Dynamic Assembly of Permanently Interlocked Aryleneethynylene Cages through Alkyne Metathesis. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7550-7554.	13.8	117
21	A Tetrameric Cage with D_{2h} Symmetry through Alkyne Metathesis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10663-10667.	13.8	110
22	A Truxenone-Based Covalent Organic Framework as an All-Solid-State Lithium-Ion Battery Cathode with High Capacity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20385-20389.	13.8	110
23	Re-healable polyimine thermosets: polymer composition and moisture sensitivity. <i>Polymer Chemistry</i> , 2016, 7, 7052-7056.	3.9	108
24	Synthesis of β -graphyne using dynamic covalent chemistry. , 2022, 1, 449-454.		106
25	Cage-templated synthesis of highly stable palladium nanoparticles and their catalytic activities in Suzuki-Miyaura coupling. <i>Chemical Science</i> , 2018, 9, 676-680.	7.4	105
26	Dynamic covalent synthesis of aryleneethynylene cages through alkyne metathesis: dimer, tetramer, or interlocked complex?. <i>Chemical Science</i> , 2016, 7, 3370-3376.	7.4	104
27	Confined growth of ordered organic frameworks at an interface. <i>Chemical Society Reviews</i> , 2020, 49, 4637-4666.	38.1	104
28	Covalent organic framework-supported $FeTiO_2$ nanoparticles as ambient-light-active photocatalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16364-16371.	10.3	103
29	Post-synthetic modification of porous organic cages. <i>Chemical Society Reviews</i> , 2021, 50, 8874-8886.	38.1	98
30	Covalent organic framework based lithium-ion battery: Fundamental, design and characterization. <i>EnergyChem</i> , 2021, 3, 100048.	19.1	94
31	Porous organic polymer material supported palladium nanoparticles. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17360-17391.	10.3	93
32	Ionic Covalent Organic Frameworks with Spiroborate Linkage. <i>Angewandte Chemie</i> , 2016, 128, 1769-1773.	2.0	88
33	Taxadiene Synthase-Catalyzed Cyclization of 6-Fluorogeranylgeranyl Diphosphate to 7-Fluorovercillenes. <i>Journal of the American Chemical Society</i> , 2005, 127, 7834-7842.	13.7	84
34	Rehealable imide-imine hybrid polymers with full recyclability. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21140-21145.	10.3	84
35	Phosphine-Based Covalent Organic Framework for the Controlled Synthesis of Broad-Scope Ultrafine Nanoparticles. <i>Small</i> , 2020, 16, e1906005.	10.0	82
36	Single crystals of mechanically entwined helical covalent polymers. <i>Nature Chemistry</i> , 2021, 13, 660-665.	13.6	82

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37	Microwave-assisted syntheses of highly CO ₂ -selective organic cage frameworks (OCFs). <i>Chemical Science</i> , 2012, 3, 874-877.	7.4	78
38	Iron-rich nanoparticle encapsulated, nitrogen doped porous carbon materials as efficient cathode electrocatalyst for microbial fuel cells. <i>Journal of Power Sources</i> , 2016, 315, 302-307.	7.8	76
39	Application of alkyne metathesis in polymer synthesis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5986.	10.3	70
40	Robust, high-barrier, and fully recyclable cellulose-based plastic replacement enabled by a dynamic imine polymer. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14082-14090.	10.3	57
41	Shape-persistent arylenevinylene macrocycles (AVMs) prepared via acyclic diene metathesis macrocyclization (ADMAC). <i>Chemical Communications</i> , 2010, 46, 8258.	4.1	54
42	Pillar[n]arene-based supramolecular organic frameworks with high hydrocarbon storage and selectivity. <i>Chemical Communications</i> , 2017, 53, 6409-6412.	4.1	54
43	Metallated porphyrin based porous organic polymers as efficient electrocatalysts. <i>Nanoscale</i> , 2015, 7, 18271-18277.	5.6	52
44	Highly efficient one-pot synthesis of hetero-sequenced shape-persistent macrocycles through orthogonal dynamic covalent chemistry (ODCC). <i>Chemical Communications</i> , 2013, 49, 4418-4420.	4.1	50
45	Highly Active Multidentate Ligand-Based Alkyne Metathesis Catalysts. <i>Chemistry - A European Journal</i> , 2016, 22, 7959-7963.	3.3	47
46	Separation of Arylenevinylene Macrocycles with a Surface-Confined Two-Dimensional Covalent Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8984-8988.	13.8	46
47	By-design molecular architectures via alkyne metathesis. <i>Chemical Science</i> , 2021, 12, 9591-9606.	7.4	46
48	An unexpected diterpene cyclase from rice: Functional identification of a stemodene synthase. <i>Archives of Biochemistry and Biophysics</i> , 2006, 448, 133-140.	3.0	44
49	Desymmetrized Vertex Design toward a Molecular Cage with Unusual Topology. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20846-20851.	13.8	44
50	Synthesis of Cyclic Porphyrin Trimers through Alkyne Metathesis Cyclooligomerization and Their Host-Guest Binding Study. <i>Organic Letters</i> , 2016, 18, 2946-2949.	4.6	43
51	A titanium-based porous coordination polymer as a catalyst for chemical fixation of CO ₂ . <i>Journal of Materials Chemistry A</i> , 2017, 5, 9163-9168.	10.3	43
52	Porous Poly(aryleneethynylene) Networks through Alkyne Metathesis. <i>Chemistry of Materials</i> , 2013, 25, 3718-3723.	6.7	42
53	Design Strategies for Shape-Persistent Covalent Organic Polyhedrons (COPs) through Imine Condensation/Metathesis. <i>Journal of Organic Chemistry</i> , 2012, 77, 7392-7400.	3.2	41
54	Covalent organic framework-supported platinum nanoparticles as efficient electrocatalysts for water reduction. <i>Nanoscale</i> , 2020, 12, 2596-2602.	5.6	41

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55	Rapid Fabrication of Malleable Fiber Reinforced Composites with Vitrimer Powder. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2535-2542.	4.4	39
56	Recent development of efficient electrocatalysts derived from porous organic polymers for oxygen reduction reaction. <i>Science China Chemistry</i> , 2017, 60, 999-1006.	8.2	37
57	Malleable and Recyclable Conductive MWCNT-Vitrimer Composite for Flexible Electronics. <i>ACS Applied Nano Materials</i> , 2020, 3, 4845-4850.	5.0	34
58	Tuning the physical properties of malleable and recyclable polyimine thermosets: the effect of solvent and monomer concentration. <i>RSC Advances</i> , 2017, 7, 48303-48307.	3.6	32
59	A pillar[5]arene-based covalent organic framework with pre-encoded selective host-guest recognition. <i>Chemical Science</i> , 2021, 12, 13316-13320.	7.4	32
60	Shape-Persistent Arylene Ethynylene Organic Hosts for Fullerenes. <i>Chemical Record</i> , 2015, 15, 97-106.	5.8	31
61	Highly active alkyne metathesis catalysts operating under open air condition. <i>Nature Communications</i> , 2021, 12, 1136.	12.8	28
62	Surface-Confined Dynamic Covalent System Driven by Olefin Metathesis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1869-1873.	13.8	27
63	Structures, biogenetic relationships, and cytotoxicity of pimarane-derived diterpenes from <i>Petalostigma pubescens</i> . <i>Phytochemistry</i> , 2006, 67, 1708-1715.	2.9	26
64	Highly CO ₂ selective pillar[n]arene-based supramolecular organic frameworks. <i>Supramolecular Chemistry</i> , 2018, 30, 648-654.	1.2	23
65	Helical Covalent Polymers with Unidirectional Ion Channels as Single Lithium-Ion Conducting Electrolytes. <i>CCS Chemistry</i> , 2021, 3, 2762-2770.	7.8	23
66	Rapid Fabrication of Fiber-Reinforced Polyimine Composites with Reprocessability, Repairability, and Recyclability. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5808-5817.	4.4	23
67	Malleable and Recyclable Vitrimers-Graphene Aerogel Composite with High Electrical Conductivity. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1178-1183.	4.3	21
68	Poly(aryleneethynylene)s: Properties, Applications and Synthesis Through Alkyne Metathesis. <i>Topics in Current Chemistry</i> , 2017, 375, 69.	5.8	20
69	Highly C2/C1-Selective Covalent Organic Frameworks Substituted with Azo Groups. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51517-51522.	8.0	20
70	Readily useable bulk phenoxazine-based covalent organic framework cathode materials with superior kinetics and high redox potentials. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10661-10665.	10.3	20
71	Synthesis of Phenylene Vinylene Macrocycles through Acyclic Diene Metathesis Macrocyclization and Their Aggregation Behavior. <i>Chemistry - A European Journal</i> , 2015, 21, 16935-16940.	3.3	19
72	Controlled growth of ultrafine metal nanoparticles mediated by solid supports. <i>Nanoscale Advances</i> , 2021, 3, 1865-1886.	4.6	18

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73	Porous Pyrene Organic Cage with Unusual Absorption Bathochromic-Shift Enables Visible Light Photocatalysis. <i>CCS Chemistry</i> , 2022, 4, 2588-2596.	7.8	18
74	Production and closed-loop recycling of biomass-based malleable materials. <i>Science China Materials</i> , 2020, 63, 2071-2078.	6.3	17
75	Aromatic-rich hydrocarbon porous networks through alkyne metathesis. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1369-1372.	5.9	16
76	Enantioselective synthesis of β -terpineol and naphthenol by intramolecular acyloxazolidinone enolate alkylations. <i>Chemical Communications</i> , 2006, , 2902-2904.	4.1	14
77	Controlled self-assembly of gold nanoparticles mediated by novel organic molecular cages. <i>Optical Materials Express</i> , 2013, 3, 205.	3.0	12
78	Phenylene vinylene macrocycles as artificial transmembrane transporters. <i>Chemical Communications</i> , 2016, 52, 5848-5851.	4.1	12
79	Mechanics of vitrimer particle compression and fusion under heat press. <i>International Journal of Mechanical Sciences</i> , 2021, 201, 106466.	6.7	11
80	Controlled Synthesis of Palladium Nanoparticles with Size-Dependent Catalytic Activities Enabled by Organic Molecular Cages. <i>Inorganic Chemistry</i> , 2021, 60, 12517-12525.	4.0	11
81	Malleable and recyclable imide-imine hybrid thermosets: influence of imide structure on material property. <i>Materials Advances</i> , 2021, 2, 4333-4338.	5.4	9
82	Synthesis of Small-Molecule/DNA Hybrids through On-Bead Amide-Coupling Approach. <i>Journal of Organic Chemistry</i> , 2017, 82, 10803-10811.	3.2	8
83	Truxene-based covalent organic polyhedrons constructed through alkyne metathesis. <i>Organic Chemistry Frontiers</i> , 2021, 8, 4723-4729.	4.5	8
84	Advances and challenges in user-friendly alkyne metathesis catalysts. <i>Trends in Chemistry</i> , 2022, 4, 540-553.	8.5	8
85	Desymmetrized Vertex Design toward a Molecular Cage with Unusual Topology. <i>Angewandte Chemie</i> , 2020, 132, 21032-21037.	2.0	7
86	Cage-Confinement Induced Emission Enhancement. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6604-6611.	4.6	7
87	Surface-Confined Dynamic Covalent System Driven by Olefin Metathesis. <i>Angewandte Chemie</i> , 2018, 130, 1887-1891.	2.0	6
88	Separation of Arylenevinylene Macrocycles with a Surface-Confined Two-Dimensional Covalent Organic Framework. <i>Angewandte Chemie</i> , 2018, 130, 9122-9126.	2.0	6
89	A Truxenone-based Covalent Organic Framework as an All-Solid-State Lithium-Ion Battery Cathode with High Capacity. <i>Angewandte Chemie</i> , 2020, 132, 20565-20569.	2.0	5
90	Pillar[6]arene-based Molecular Trap with Unusual Conformation and Topology. <i>Israel Journal of Chemistry</i> , 2018, 58, 1261-1264.	2.3	3

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91	Crystalline, Few-layer 2D Materials via Surfactant-monolayer-assisted Interfacial Synthesis. Chemical Research in Chinese Universities, 2019, 35, 955-956.	2.6	3
92	SNAr stands corrected. Nature Chemistry, 2018, 10, 996-998.	13.6	2
93	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.	10.0	0