

# Cheng Wang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78  
papers

6,959  
citations

38  
h-index

83  
g-index

83  
ext. papers

8,349  
ext. citations

9.3  
avg. IF

6.37  
L-index

#	Paper	IF	Citations
78	Non-volatile ternary memristors based on a polymer containing a carbazole donor with CuO NPs embedded. <i>New Journal of Chemistry</i> , <b>2022</b> , 46, 704-713	3.6	0
77	Structural design and determination of 3D covalent organic frameworks. <i>Trends in Chemistry</i> , <b>2022</b> ,	14.8	5
76	An azine-linked 2D porphyrinic covalent organic framework for red light photocatalytic oxidative coupling of amines. <i>Materials Today Chemistry</i> , <b>2022</b> , 25, 100953	6.2	
75	Tailoring the Pore Surface of 3D Covalent Organic Frameworks via Post-Synthetic Click Chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	4
74	Rational design of isostructural 2D porphyrin-based covalent organic frameworks for tunable photocatalytic hydrogen evolution. <i>Nature Communications</i> , <b>2021</b> , 12, 1354	17.4	78
73	Tuning the Topology of Three-Dimensional Covalent Organic Frameworks via Steric Control: From to Unprecedented. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 7279-7284	16.4	23
72	A Crystalline Three-Dimensional Covalent Organic Framework with Flexible Building Blocks. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2123-2129	16.4	33
71	Ternary flash memory device based on polycarbazole with ZrO <sub>2</sub> composite materials. <i>Organic Electronics</i> , <b>2021</b> , 99, 106354	3.5	0
70	A 2D porphyrin-based covalent organic framework with TEMPO for cooperative photocatalysis in selective aerobic oxidation of sulfides. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 2255-2260	7.8	19
69	2D sp Carbon-Conjugated Porphyrin Covalent Organic Framework for Cooperative Photocatalysis with TEMPO. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 9088-9093	16.4	92
68	2D sp <sup>2</sup> Carbon-Conjugated Porphyrin Covalent Organic Framework for Cooperative Photocatalysis with TEMPO. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 9173-9178	3.6	6
67	Twist Building Blocks from Planar to Tetrahedral for the Synthesis of Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 3718-3723	16.4	44
66	Nonvolatile bistable memory device based on polyfluorene with Ag NPs doping materials. <i>Organic Electronics</i> , <b>2020</b> , 78, 105549	3.5	3
65	Tailored covalent organic frameworks by post-synthetic modification. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 113-127	7.8	52
64	2D and 3D Porphyrinic Covalent Organic Frameworks: The Influence of Dimensionality on Functionality. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 3624-3629	16.4	102
63	2D and 3D Porphyrinic Covalent Organic Frameworks: The Influence of Dimensionality on Functionality. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 3653-3658	3.6	20
62	Redox-triggered switching in three-dimensional covalent organic frameworks. <i>Nature Communications</i> , <b>2020</b> , 11, 4919	17.4	21

61	Three-Dimensional Covalent Organic Frameworks: From Topology Design to Applications. <i>Accounts of Chemical Research</i> , <b>2020</b> , 53, 2225-2234	24.3	52
60	Isostructural Three-Dimensional Covalent Organic Frameworks. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 9872-9877	3.7	22
59	Isostructural Three-Dimensional Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 9770-9775	16.4	72
58	Designed Synthesis of a 2D Porphyrin-Based sp Carbon-Conjugated Covalent Organic Framework for Heterogeneous Photocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6430-6434	16.4	267
57	Side-group chemical gating via reversible optical and electric control in a single molecule transistor. <i>Nature Communications</i> , <b>2019</b> , 10, 1450	17.4	53
56	Designed Synthesis of a 2D Porphyrin-Based sp <sup>2</sup> Carbon-Conjugated Covalent Organic Framework for Heterogeneous Photocatalysis. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 6496-6500	3.6	36
55	Engineering a Zirconium MOF through Tandem "Click" Reactions: A General Strategy for Quantitative Loading of Bifunctional Groups on the Pore Surface. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 2288-2295	5.1	22
54	Immobilizing Organic-Based Molecular Switches into Metal-Organic Frameworks: A Promising Strategy for Switching in Solid State. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, 1700388	4.8	17
53	Impregnation of sulfur into a 2D pyrene-based covalent organic framework for high-rate lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17186-17191	13	97
52	An AI-Egen-based 3D covalent organic framework for white light-emitting diodes. <i>Nature Communications</i> , <b>2018</b> , 9, 5234	17.4	182
51	Simulating Powder X-ray Diffraction Patterns of Two-Dimensional Materials. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 15123-15132	5.1	18
50	Tuning the Photoinduced Electron Transfer in a Zr-MOF: Toward Solid-State Fluorescent Molecular Switch and Turn-On Sensor. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802329	24	81
49	Oriented Covalent Organic Framework Film on Graphene for Robust Ambipolar Vertical Organic Field-Effect Transistor. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4367-4374	9.6	113
48	3D Porphyrin-Based Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 8705-8709	16.4	246
47	Immobilization of AIEgens into metal-organic frameworks: Ligand design, emission behavior, and applications. <i>Journal of Polymer Science Part A</i> , <b>2017</b> , 55, 1809-1817	2.5	13
46	Magnetic covalent triazine framework for rapid extraction of phthalate esters in plastic packaging materials followed by gas chromatography-flame ionization detection. <i>Journal of Chromatography A</i> , <b>2017</b> , 1525, 32-41	4.5	58
45	Organic Cages through Dynamic Covalent Reactions <b>2017</b> , 165-205		3
44	Mechanized azobenzene-functionalized zirconium metal-organic framework for on-command cargo release. <i>Science Advances</i> , <b>2016</b> , 2, e1600480	14.3	150

43	Fabrication of bilayer tetrathiafulvalene integrated surface covalent organic frameworks. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 17356-9	3.6	15
42	Two-dimensional porphyrin- and phthalocyanine-based covalent organic frameworks. <i>Chinese Chemical Letters</i> , <b>2016</b> , 27, 1376-1382	8.1	42
41	Polydimethylsiloxane/covalent triazine frameworks coated stir bar sorptive extraction coupled with high performance liquid chromatography-ultraviolet detection for the determination of phenols in environmental water samples. <i>Journal of Chromatography A</i> , <b>2016</b> , 1441, 8-15	4.5	65
40	A Pyrene-Based, Fluorescent Three-Dimensional Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 3302-5	16.4	448
39	Postsynthetic Modification of Metal-Organic Frameworks through Click Chemistry. <i>Chinese Journal of Chemistry</i> , <b>2016</b> , 34, 186-190	4.9	28
38	A 2D porous porphyrin-based covalent organic framework for sulfur storage in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7416-7421	13	205
37	Tackling poison and leach: catalysis by dangling thiol-palladium functions within a porous metal-organic solid. <i>Chemical Communications</i> , <b>2015</b> , 51, 6917-20	5.8	48
36	Heterogeneity of functional groups in a metal-organic framework displays magic number ratios. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 5591-6	11.5	32
35	Postsynthetic Modification of an Alkyne-Tagged Zirconium Metal-Organic Framework via a "Click" Reaction. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 5139-41	5.1	45
34	Substrate Orientation Effect in the On-Surface Synthesis of Tetrathiafulvalene-Integrated Single-Layer Covalent Organic Frameworks. <i>Langmuir</i> , <b>2015</b> , 31, 11755-9	4	31
33	Reversible Tuning Hydroquinone/Quinone Reaction in Metal-Organic Framework: Immobilized Molecular Switches in Solid State. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6426-6431	9.6	61
32	Controllable Synthesis of Covalent Porphyrinic Cages with Varying Sizes via Template-Directed Imine Condensation Reactions. <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 9360-4	4.2	13
31	Targeted synthesis of a large triazine-based [4+6] organic molecular cage: structure, porosity and gas separation. <i>Chemical Communications</i> , <b>2015</b> , 51, 1976-9	5.8	75
30	Pore surface engineering in a zirconium metal-organic framework via thiol-ene reaction. <i>Journal of Solid State Chemistry</i> , <b>2015</b> , 223, 79-83	3.3	19
29	Functional metal-organic frameworks via ligand doping: influences of ligand charge and steric demand. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 1331-8	5.1	26
28	A tetrathiafulvalene-based electroactive covalent organic framework. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 14614-8	4.8	116
27	Highly-efficient synthesis of covalent porphyrinic cages via DABCO-templated imine condensation reactions. <i>Chemical Communications</i> , <b>2014</b> , 50, 11162-4	5.8	19
26	Mechanical bonds and topological effects in radical dimer stabilization. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 11011-26	16.4	47

25	Synergistic assembly of heavy metal clusters and luminescent organic bridging ligands in metal-organic frameworks for highly efficient X-ray scintillation. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 6171-4	16.4	149
24	Covalent-organic frameworks: potential host materials for sulfur impregnation in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 8854-8858	13	177
23	Porous Organic Molecular Cages: from Preparation to Applications. <i>Current Organic Chemistry</i> , <b>2014</b> , 18, 1965-1972	1.7	13
22	Metal-organic frameworks as a tunable platform for designing functional molecular materials. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 13222-34	16.4	693
21	Three-dimensional architectures incorporating stereoregular donor-acceptor stacks. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 8457-65	4.8	25
20	Donor-acceptor ring-in-ring complexes. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 202-12	4.8	31
19	Elucidating molecular iridium water oxidation catalysts using metal-organic frameworks: a comprehensive structural, catalytic, spectroscopic, and kinetic study. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19895-908	16.4	296
18	Tetrathiafulvalene hetero radical cation dimerization in a redox-active [2]catenane. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19136-45	16.4	29
17	Solvent-dependent ground-state distributions in a donor-acceptor redox-active bistable [2]catenane. <i>Journal of Physical Organic Chemistry</i> , <b>2012</b> , 25, 544-552	2.1	15
16	The effects of conformation on the noncovalent bonding interactions in a bistable donor-acceptor [3]catenane. <i>Chemical Communications</i> , <b>2012</b> , 48, 9245-7	5.8	15
15	Stimulated release of size-selected cargos in succession from mesoporous silica nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 5460-5	16.4	147
14	Doping metal-organic frameworks for water oxidation, carbon dioxide reduction, and organic photocatalysis. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13445-54	16.4	1187
13	Dual stimulus switching of a [2]catenane in water. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 1805-9	16.4	51
12	Isolation by crystallization of translational isomers of a bistable donor-acceptor [2]catenane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 13991-6	11.5	38
11	Multistimuli responsive organogels based on a new gelator featuring tetrathiafulvalene and azobenzene groups: reversible tuning of the gel-sol transition by redox reactions and light irradiation. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 3092-6	16.4	248
10	Synthesis, crystal structure and electrochemical property of 3a,4,5,8,9,9a,10,11-Octahydro-2H,3H-1,6,7,12-tetrathiaperylene (H10TTPR). <i>Chinese Journal of Chemistry</i> , <b>2010</b> , 22, 1330-1335	4.9	
9	Cholesterol-substituted Tetrathiafulvalene (TTF) Compound: Formation of Organogel and Supramolecular Chirality. <i>Chinese Journal of Chemistry</i> , <b>2010</b> , 28, 622-626	4.9	16
8	An Hg <sup>2+</sup> -gated chiral molecular switch created by using binaphthalene molecules with two anthracene units and two 1,3-dithiole-2-thione (1,3-dithiole-2-one) units. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 5680-6	4.8	23

7	New organogels based on an anthracene derivative with one urea group and its photodimer: fluorescence enhancement after gelation. <i>Langmuir</i> , <b>2007</b> , 23, 9195-200	4	92
6	A chiral low-molecular-weight gelator based on binaphthalene with two urea moieties: modulation of the CD spectrum after gel formation. <i>Langmuir</i> , <b>2007</b> , 23, 1478-82	4	92
5	Chiral molecular switches based on binaphthalene molecules with anthracene moieties: CD signal due to interchromophoric exciton coupling and modulation of the CD spectrum. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 4306-12	4.2	18
4	Thermal modulation of the monomer/excimer fluorescence for bispyrene molecules through the gel/solution transition of an organogel: A thermo-driven molecular fluorescence switch. <i>Chemical Physics Letters</i> , <b>2006</b> , 428, 130-133	2.5	24
3	A low-molecular-mass gelator with an electroactive tetrathiafulvalene group: tuning the gel formation by charge-transfer interaction and oxidation. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 16372-3	16.4	236
2	CHAPTER 3: Molecular Gels Responsive to Physical and Chemical Stimuli. <i>RSC Soft Matter</i> , 67-94	0.5	1
1	Energy Storage in Covalent Organic Frameworks: From Design Principles to Device Integration. <i>Chemical Research in Chinese Universities</i> , 1	2.2	2