Xiao-Wei Wu

List of Publications by Year in Descending Order

38 papers	1,563 citations	17 h-index	39 g-index
41 ext. papers	2,160 ext. citations	9.9 avg, IF	5.14 L-index

#	Paper	IF	Citations
38	3D Covalent Organic Frameworks with Interpenetrated pcb Topology Based on 8-Connected Cubic Nodes.. *Journal of the American Chemical Society*, **2022**,	16.4	13
37	Porphyrin-based donor-acceptor COFs as efficient and reusable photocatalysts for PET-RAFT polymerization under broad spectrum excitation.. *Chemical Science*, **2021**, 12, 16092-16099	9.4	11
36	Highly Processable Covalent Organic Framework Gel Electrolyte Enabled by Side-Chain Engineering for Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2021**, 61, e202110695	16.4	2
35	Covalent Organic Framework-Based Electrolytes for Fast Li+ Conduction and High-Temperature Solid-State Lithium-Ion Batteries. *Chemistry of Materials*, **2021**, 33, 5058-5066	9.6	14
34	Host-Guest Assembly of H-Bonding Networks in Covalent Organic Frameworks for Ultrafast and Anhydrous Proton Transfer. *ACS Applied Materials & Interfaces*, **2021**, 13, 37172-37178	9.5	2
33	Substoichiometric 3D Covalent Organic Frameworks Based on Hexagonal Linkers. *Journal of the American Chemical Society*, **2021**, 143, 10243-10249	16.4	15
32	High-Performance Poly(vinylidene difluoride)/Dopamine Core/Shell Piezoelectric Nanofiber and Its Application for Biomedical Sensors. *Advanced Materials*, **2021**, 33, e2006093	24	52
31	Theoretical studies of size effects on surfacial properties for CL-20 and NTO nanoparticles. *Structural Chemistry*, **2021**, 32, 565-580	1.8	1
30	Boosting the Iodine Adsorption and Radioresistance of Th-UiO-66 MOFs via Aromatic Substitution. *Chemistry - A European Journal*, **2021**, 27, 1286-1291	4.8	23
29	Conjugated Microporous Polymer with C?C and C-F Bonds: Achieving Remarkable Stability and Super Anhydrous Proton Conductivity. *ACS Applied Materials & Interfaces*, **2021**, 13, 15536-15541	9.5	5
28	Three-dimensional covalent organic frameworks based on a Econjugated tetrahedral node. *Chemical Communications*, **2021**, 57, 10379-10382	5.8	1
27	Dynamic Transformation between Covalent Organic Frameworks and Discrete Organic Cages. *Journal of the American Chemical Society*, **2020**, 142, 21279-21284	16.4	17
26	Pd@COF-QA: a phase transfer composite catalyst for aqueous SuzukiMiyaura coupling reaction. *Green Chemistry*, **2020**, 22, 1150-1155	10	36
25	Computational insight into energetic cage derivatives based on hexahydro-1,3,5-trinitro-1,3,5-triazine. *Journal of the Chinese Chemical Society*, **2020**, 67, 961-968	1.5	1
24	Analysis of the contributions of human factors and natural factors affecting the vegetation pattern in coastal wetlands. *Ecosystem Health and Sustainability*, **2020**, 6, 1827982	3.7	2
23	Perfluoroalkyl-Functionalized Covalent Organic Frameworks with Superhydrophobicity for Anhydrous Proton Conduction. *Journal of the American Chemical Society*, **2020**, 142, 14357-14364	16.4	82
22	Synthesis and Catalytic Properties of Metal--Heterocyclic-Carbene-Decorated Covalent Organic Framework. *Organic Letters*, **2020**, 22, 7363-7368	6.2	9

21	Metal and Covalent Organic Frameworks Threaded with Chiral Polymers for Heterogeneous Asymmetric Catalysis. *Organometallics*, **2019**, 38, 3474-3479	3.8	15
20	Pressure-induced structure, vibrational properties, and initial decomposition mechanisms of HMX crystal: A periodic DFT study. *Journal of Molecular Graphics and Modelling*, **2019**, 90, 144-152	2.8	4
19	Chiral BINOL-Based Covalent Organic Frameworks for Enantioselective Sensing. *Journal of the American Chemical Society*, **2019**, 141, 7081-7089	16.4	131
18	Chiral DHIP- and Pyrrolidine-Based Covalent Organic Frameworks for Asymmetric Catalysis. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 5065-5071	8.3	35
17	Multivariate crystalline porous materials: Synthesis, property and potential application. *Coordination Chemistry Reviews*, **2019**, 385, 174-190	23.2	42
16	An N-heterocyclic carbene-functionalised covalent organic framework with atomically dispersed palladium for coupling reactions under mild conditions. *Green Chemistry*, **2019**, 21, 5267-5273	10	27
15	Chiral Phosphoric Acids in Metal-Organic Frameworks with Enhanced Acidity and Tunable Catalytic Selectivity. *Angewandte Chemie - International Edition*, **2019**, 58, 14748-14757	16.4	24
14	Chiral Phosphoric Acids in Metal Organic Frameworks with Enhanced Acidity and Tunable Catalytic Selectivity. *Angewandte Chemie*, **2019**, 131, 14890-14899	3.6	10
13	Rational synthesis of interpenetrated 3D covalent organic frameworks for asymmetric photocatalysis. *Chemical Science*, **2019**, 11, 1494-1502	9.4	59
12	A palladium-carbon-connected organometallic framework and its catalytic application. *Chemical Communications*, **2019**, 55, 14414-14417	5.8	4
11	Nanochannels of Covalent Organic Frameworks for Chiral Selective Transmembrane Transport of Amino Acids. *Journal of the American Chemical Society*, **2019**, 141, 20187-20197	16.4	88
10	Molecular design of all nitrogen pentazole-based high energy density compounds with oxygen balance equal to zero. *Journal of the Chinese Chemical Society*, **2019**, 66, 377-384	1.5	7
9	Chiral induction in covalent organic frameworks. *Nature Communications*, **2018**, 9, 1294	17.4	105
8	Control Interlayer Stacking and Chemical Stability of Two-Dimensional Covalent Organic Frameworks via Steric Tuning. *Journal of the American Chemical Society*, **2018**, 140, 16124-16133	16.4	101
7	Multivariate Chiral Covalent Organic Frameworks with Controlled Crystallinity and Stability for Asymmetric Catalysis. *Journal of the American Chemical Society*, **2017**, 139, 8277-8285	16.4	186
6	Assessing natural and anthropogenic influences on water discharge and sediment load in the Yangtze River, China. *Science of the Total Environment*, **2017**, 607-608, 920-932	10.2	65
5	Homochiral 2D Porous Covalent Organic Frameworks for Heterogeneous Asymmetric Catalysis. *Journal of the American Chemical Society*, **2016**, 138, 12332-5	16.4	336
4	Thermo-responsive polymer micelle-based nanoreactors for intelligent polyoxometalate catalysis. *Catalysis Communications*, **2015**, 58, 164-168	3.2	12

3	A recyclable thermo-responsive catalytic system based on poly(N-isopropylacrylamide)-coated POM@SBA-15 nanospheres. *Catalysis Communications*, **2014**, 51, 29-32	3.2	11
2	Facile one-pot synthesis of mesoporous heteropolyacids-silica hybrid for catalytic wet hydrogen peroxide oxidation of phenol. *Journal of Sol-Gel Science and Technology*, **2014**, 72, 663-667	2.3	3
1	Biodegradable pH-Dependent Thermo-Sensitive Hydrogels for Oral Insulin Delivery. *Macromolecular Chemistry and Physics*, **2012**, 213, 713-719	2.6	7