

# Yue Wu

## List of Publications by Year in descending order

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50  
papers

3,679  
citations

186254

28  
h-index

189881

50  
g-index

54  
all docs

54  
docs citations

54  
times ranked

5626  
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect-Assisted Photoinduced Halide Segregation in Mixed-Halide Perovskite Thin Films. ACS Energy Letters, 2017, 2, 1416-1424.	17.4	437
2	Single Co Atoms Anchored in Porous N-Doped Carbon for Efficient Zinc-Air Battery Cathodes. ACS Catalysis, 2018, 8, 8961-8969.	11.2	364
3	Negative Thermal Expansion in the Metal-Organic Framework Material $\text{Cu}_3(1,3,5\text{-benzenetricarboxylate})_2$ . Angewandte Chemie - International Edition, 2008, 47, 8929-8932.	13.8	251
4	MOF-derived nanohybrids for electrocatalysis and energy storage: current status and perspectives. Chemical Communications, 2018, 54, 5268-5288.	4.1	237
5	Metal-Organic Nanosheets Formed via Defect-Mediated Transformation of a Hafnium Metal-Organic Framework. Journal of the American Chemical Society, 2017, 139, 5397-5404.	13.7	224
6	Elucidating Negative Thermal Expansion in MOF-5. Journal of Physical Chemistry C, 2010, 114, 16181-16186.	3.1	199
7	Accelerated Synthesis and Discovery of Covalent Organic Framework Photocatalysts for Hydrogen Peroxide Production. Journal of the American Chemical Society, 2022, 144, 9902-9909.	13.7	154
8	A smart and responsive crystalline porous organic cage membrane with switchable pore apertures for graded molecular sieving. Nature Materials, 2022, 21, 463-470.	27.5	108
9	Manganese-Oxide-Based Electrode Materials for Energy Storage Applications: How Close Are We to the Theoretical Capacitance?. Advanced Materials, 2018, 30, e1802569.	21.0	94
10	Using sound to synthesize covalent organic frameworks in water. , 2022, 1, 87-95.		92
11	Local Vibrational Mechanism for Negative Thermal Expansion: A Combined Neutron Scattering and First-Principles Study. Angewandte Chemie - International Edition, 2010, 49, 585-588.	13.8	87
12	Bottom-up Formation of Carbon-Based Structures with Multilevel Hierarchy from MOF-Guest Polyhedra. Journal of the American Chemical Society, 2018, 140, 6130-6136.	13.7	87
13	3D-Printing of Pure Metal-Organic Framework Monoliths. , 2019, 1, 147-153.		80
14	Binder-free 3D printing of covalent organic framework (COF) monoliths for CO <sub>2</sub> adsorption. Chemical Engineering Journal, 2021, 403, 126333.	12.7	78
15	[Am]Mn(H <sub>2</sub> POO) <sub>3</sub> : A New Family of Hybrid Perovskites Based on the Hypophosphite Ligand. Journal of the American Chemical Society, 2017, 139, 16999-17002.	13.7	75
16	An Expandable Hydrogen-Bonded Organic Framework Characterized by Three-Dimensional Electron Diffraction. Journal of the American Chemical Society, 2020, 142, 12743-12750.	13.7	70
17	Synthesis and Characterization of the Rare-Earth Hybrid Double Perovskites: $(\text{CH}_3\text{NH}_3)_2\text{KGdCl}_6$ and $(\text{CH}_3\text{NH}_3)_2\text{KYCl}_6$ . Journal of Physical Chemistry Letters. 2017, 8, 5015-5020.	4.6	68
18	Pore closure in zeolitic imidazolate frameworks under mechanical pressure. Chemical Science, 2018, 9, 1654-1660.	7.4	63

#	ARTICLE	IF	CITATIONS
19	Perovskite-related ReO <sub>3</sub> -type structures. Nature Reviews Materials, 2020, 5, 196-213.	48.7	62
20	Scrutinizing negative thermal expansion in MOF-5 by scattering techniques and ab initio calculations. Dalton Transactions, 2013, 42, 1996-2007.	3.3	59
21	In situ Observation of Successive Crystallizations and Metastable Intermediates in the Formation of Metal-Organic Frameworks. Angewandte Chemie - International Edition, 2016, 55, 2012-2016.	13.8	53
22	Hypophosphite hybrid perovskites: a platform for unconventional tilts and shifts. Chemical Communications, 2018, 54, 3751-3754.	4.1	48
23	Control of Metal-Organic Framework Crystallization by Metastable Intermediate Pre-equilibrium Species. Angewandte Chemie - International Edition, 2019, 58, 566-571.	13.8	47
24	Interpenetration as a Mechanism for Negative Thermal Expansion in the Metal-Organic Framework Cu <sub>3</sub> (btb) <sub>2</sub> (MOF-14). Angewandte Chemie - International Edition, 2014, 53, 5175-5178.	13.8	46
25	Variable temperature and high-pressure crystal chemistry of perovskite formamidinium lead iodide: a single crystal X-ray diffraction and computational study. Chemical Communications, 2017, 53, 7537-7540.	4.1	43
26	Exchange of Coordinated Solvent During Crystallization of a Metal-Organic Framework Observed by In Situ High-Energy X-ray Diffraction. Angewandte Chemie - International Edition, 2016, 55, 4992-4996.	13.8	41
27	Core-shell zeolite@aqueous miscible organic-layered double hydroxides. Chemical Science, 2016, 7, 1457-1461.	7.4	41
28	Time-Resolved In situ X-ray Diffraction Reveals Metal-Dependent Metal-Organic Framework Formation. Angewandte Chemie - International Edition, 2016, 55, 14081-14084.	13.8	32
29	Hydrogen Bonding versus Entropy: Revealing the Underlying Thermodynamics of the Hybrid Organic-Inorganic Perovskite [CH <sub>3</sub> NH <sub>3</sub> ] <sub>3</sub> PbBr <sub>3</sub> . Chemistry of Materials, 2018, 30, 8782-8788.	6.7	29
30	Simultaneous Differential Scanning Calorimetry-Synchrotron X-ray Powder Diffraction: A Powerful Technique for Physical Form Characterization in Pharmaceutical Materials. Analytical Chemistry, 2016, 88, 10111-10117.	6.5	27
31	Time-Resolved <i>In Situ</i> Diffraction Reveals a Solid-State Rearrangement During Solvothermal MOF Synthesis. Chemistry of Materials, 2015, 27, 7236-7239.	6.7	25
32	Synthesis, crystal structure, magnetic and electronic properties of the caesium-based transition metal halide Cs <sub>3</sub> Fe <sub>2</sub> Br <sub>9</sub> . Journal of Materials Chemistry C, 2018, 6, 3573-3577.	5.5	25
33	Trapping Amorphous Intermediates of Carbonates – A Combined Total Scattering and NMR Study. Journal of the American Chemical Society, 2018, 140, 14638-14646.	13.7	25
34	Exploring the Role of Cluster Formation in UiO Family Hf Metal-Organic Frameworks with <i>In Situ</i> X-ray Pair Distribution Function Analysis. Journal of the American Chemical Society, 2021, 143, 19668-19683.	13.7	24
35	Time-resolved in situ powder X-ray diffraction reveals the mechanisms of molten salt synthesis. Chemical Communications, 2016, 52, 13865-13868.	4.1	22
36	Prognosis of the probability of failure in tool condition monitoring application-a time series based approach. International Journal of Advanced Manufacturing Technology, 2015, 76, 513-521.	3.0	20

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37	Mechanochemical Access to Defect-Stabilized Amorphous Calcium Carbonate. <i>Chemistry of Materials</i> , 2018, 30, 6040-6052.	6.7	20
38	High energy X-rays for following metal-organic framework formation: Identifying intermediates in interpenetrated MOF-5 crystallisation. <i>Microporous and Mesoporous Materials</i> , 2017, 254, 178-183.	4.4	19
39	Mixed X-site Formate-Hypophosphite Hybrid Perovskites. <i>Chemistry - A European Journal</i> , 2018, 24, 11309-11313.	3.3	19
40	In-situ Observation of Successive Crystallizations and Metastable Intermediates in the Formation of Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2016, 128, 2052-2056.	2.0	15
41	Polymorphism in $M(H_2PO_3)_3$ ( $M = V, Al, Ga$ ) compounds with the perovskite-related $ReO_3$ structure. <i>Chemical Communications</i> , 2019, 55, 2964-2967.	4.1	15
42	Exchange of Coordinated Solvent During Crystallization of a Metal-Organic Framework Observed by In Situ High-Energy X-ray Diffraction. <i>Angewandte Chemie</i> , 2016, 128, 5076-5080.	2.0	14
43	Time-Resolved Powder X-ray Diffraction of the Solvothermal Crystallization of Cobalt Gallate Spinel Photocatalyst Reveals Transient Layered Double Hydroxides. <i>Chemistry of Materials</i> , 2017, 29, 5053-5057.	6.7	14
44	Structural variety in ytterbium dicarboxylate frameworks and in situ study diffraction of their solvothermal crystallisation. <i>CrystEngComm</i> , 2017, 19, 2424-2433.	2.6	13
45	Understanding the Structural and Electronic Properties of Bismuth Trihalides and Related Compounds. <i>Inorganic Chemistry</i> , 2020, 59, 3377-3386.	4.0	9
46	Time-Resolved In-situ X-ray Diffraction Reveals Metal-Dependent Metal-Organic Framework Formation. <i>Angewandte Chemie</i> , 2016, 128, 14287-14290.	2.0	8
47	An in situ study of resin-assisted solvothermal metal-organic framework synthesis. <i>Journal of Solid State Chemistry</i> , 2016, 236, 209-214.	2.9	7
48	Control of Metal-Organic Framework Crystallization by Metastable Intermediate Pre-equilibrium Species. <i>Angewandte Chemie</i> , 2019, 131, 576-581.	2.0	3
49	High-Performance Energy Storage: Manganese-Oxide-Based Electrode Materials for Energy Storage Applications: How Close Are We to the Theoretical Capacitance? ( <i>Adv. Mater.</i> 47/2018). <i>Advanced Materials</i> , 2018, 30, 1870364.	21.0	2
50	OPTIMIZATION OF "WHEEL-PARALLEL-IN-WHEEL"™ FOR A COMPACT CLIMBING ROBOT. , 2017, , ,		0