

# Ashlee J Howarth

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6788486/publications.pdf>

Version: 2024-02-01

59  
papers

8,447  
citations

109321

35  
h-index

138484

58  
g-index

70  
all docs

70  
docs citations

70  
times ranked

9378  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical, thermal and mechanical stabilities of metal-organic frameworks. <i>Nature Reviews Materials</i> , 2016, 1, .	48.7	1,490
2	Metal-organic frameworks for heavy metal removal from water. <i>Coordination Chemistry Reviews</i> , 2018, 358, 92-107.	18.8	719
3	Metal-organic frameworks for the removal of toxic industrial chemicals and chemical warfare agents. <i>Chemical Society Reviews</i> , 2017, 46, 3357-3385.	38.1	707
4	Postsynthetic Tuning of Metal-Organic Frameworks for Targeted Applications. <i>Accounts of Chemical Research</i> , 2017, 50, 805-813.	15.6	644
5	Best Practices for the Synthesis, Activation, and Characterization of Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2017, 29, 26-39.	6.7	518
6	High Efficiency Adsorption and Removal of Selenate and Selenite from Water Using Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2015, 137, 7488-7494.	13.7	330
7	Catalytic Zirconium/Hafnium-Based Metal-Organic Frameworks. <i>ACS Catalysis</i> , 2017, 7, 997-1014.	11.2	288
8	Bottom-up construction of a superstructure in a porous uranium-organic crystal. <i>Science</i> , 2017, 356, 624-627.	12.6	286
9	Catalytic degradation of chemical warfare agents and their simulants by metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2017, 346, 101-111.	18.8	275
10	Selective Photooxidation of a Mustard Gas Simulant Catalyzed by a Porphyrinic Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9001-9005.	13.8	244
11	Rare-earth metal-organic frameworks: from structure to applications. <i>Chemical Society Reviews</i> , 2020, 49, 7949-7977.	38.1	244
12	Enzyme encapsulation in metal-organic frameworks for applications in catalysis. <i>CrystEngComm</i> , 2017, 19, 4082-4091.	2.6	235
13	Efficient and selective oxidation of sulfur mustard using singlet oxygen generated by a pyrene-based metal-organic framework. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13809-13813.	10.3	147
14	A historical perspective on porphyrin-based metal-organic frameworks and their applications. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213615.	18.8	140
15	A Hafnium-Based Metal-Organic Framework as a Nature-Inspired Tandem Reaction Catalyst. <i>Journal of the American Chemical Society</i> , 2015, 137, 13624-13631.	13.7	137
16	Metal-organic frameworks for applications in remediation of oxyanion/cation-contaminated water. <i>CrystEngComm</i> , 2015, 17, 7245-7253.	2.6	133
17	Efficient Capture of Perrhenate and Pertechnetate by a Mesoporous Zr Metal-Organic Framework and Examination of Anion Binding Motifs. <i>Chemistry of Materials</i> , 2018, 30, 1277-1284.	6.7	125
18	Presence versus Proximity: The Role of Pendant Amines in the Catalytic Hydrolysis of a Nerve Agent Simulant. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1949-1953.	13.8	121

#	ARTICLE	IF	CITATIONS
19	Benign by Design: Green and Scalable Synthesis of Zirconium UiO-Metal-Organic Frameworks by Water-Assisted Mechanochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15841-15849.	6.7	120
20	Detoxification of a Sulfur Mustard Simulant Using a BODIPY-Functionalized Zirconium-Based Metal-Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 24555-24560.	8.0	112
21	High volumetric uptake of ammonia using Cu-MOF-74/Cu-CPO-27. <i>Dalton Transactions</i> , 2016, 45, 4150-4153.	3.3	102
22	Postsynthetic Incorporation of a Singlet Oxygen Photosensitizer in a Metal-Organic Framework for Fast and Selective Oxidative Detoxification of Sulfur Mustard. <i>Chemistry - A European Journal</i> , 2017, 23, 214-218.	3.3	98
23	Rational Synthesis of Mixed-Metal Microporous Metal-Organic Frameworks with Controlled Composition Using Mechanochemistry. <i>Chemistry of Materials</i> , 2019, 31, 5494-5501.	6.7	96
24	Detoxification of Chemical Warfare Agents Using a Zr <sub>6</sub> -Based Metal-Organic Framework/Polymer Mixture. <i>Chemistry - A European Journal</i> , 2016, 22, 14864-14868.	3.3	93
25	Growth of ZnO self-converted 2D nanosheet zeolitic imidazolate framework membranes by an ammonia-assisted strategy. <i>Nano Research</i> , 2018, 11, 1850-1860.	10.4	72
26	Improving the Efficiency of Mustard Gas Simulant Detoxification by Tuning the Singlet Oxygen Quantum Yield in Metal-Organic Frameworks and Their Corresponding Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 23802-23806.	8.0	67
27	Green and rapid mechanosynthesis of high-porosity NU- and UiO-type metal-organic frameworks. <i>Chemical Communications</i> , 2018, 54, 6999-7002.	4.1	63
28	Adding to the Arsenal of Zirconium-Based Metal-Organic Frameworks: <i>the</i> Topology as a Platform for Solvent-Assisted Metal Incorporation. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4349-4352.	2.0	59
29	A visually detectable pH responsive zirconium metal-organic framework. <i>Chemical Communications</i> , 2016, 52, 3438-3441.	4.1	57
30	Efficient extraction of sulfate from water using a Zr-metal-organic framework. <i>Dalton Transactions</i> , 2016, 45, 93-97.	3.3	56
31	Simple, scalable mechanosynthesis of metal-organic frameworks using liquid-assisted resonant acoustic mixing (LA-RAM). <i>Chemical Science</i> , 2020, 11, 7578-7584.	7.4	55
32	Green applications of metal-organic frameworks. <i>CrystEngComm</i> , 2018, 20, 5899-5912.	2.6	54
33	Adsorptive removal of Sb(V) from water using a mesoporous Zr-based metal-organic framework. <i>Polyhedron</i> , 2018, 151, 338-343.	2.2	43
34	Building a <i>shp</i> : A Rare-Earth Metal-Organic Framework and Its Application in a Catalytic Photooxidation Reaction. <i>Chemistry of Materials</i> , 2021, 33, 4163-4169.	6.7	39
35	Supercritical Carbon Dioxide Enables Rapid, Clean, and Scalable Conversion of a Metal Oxide into Zeolitic Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2018, 18, 3222-3228.	3.0	36
36	Ammonia Capture within Zirconium Metal-Organic Frameworks: Reversible and Irreversible Uptake. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 20081-20093.	8.0	36

#	ARTICLE	IF	CITATIONS
37	Efficient activation of peroxymonosulfate by composites containing iron mining waste and graphitic carbon nitride for the degradation of acetaminophen. <i>Journal of Hazardous Materials</i> , 2020, 400, 123310.	12.4	35
38	Tuning the Emission Lifetime in Bis-cyclometalated Iridium(III) Complexes Bearing Iminopyrene Ligands. <i>Inorganic Chemistry</i> , 2014, 53, 11882-11889.	4.0	34
39	Efficient extraction of inorganic selenium from water by a Zr metal-organic framework: investigation of volumetric uptake capacity and binding motifs. <i>CrystEngComm</i> , 2018, 20, 6140-6145.	2.6	33
40	Detoxification of a Mustard-Gas Simulant by Nanosized Porphyrin-Based Metal-Organic Frameworks. <i>ACS Applied Nano Materials</i> , 2019, 2, 465-469.	5.0	32
41	Towards hydroxamic acid linked zirconium metal-organic frameworks. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1194-1199.	5.9	29
42	Elucidating the Origin of Enhanced Phosphorescence Emission in the Solid State (EPES) in Cyclometalated Iridium Complexes. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 3657-3664.	2.0	27
43	Presence versus Proximity: The Role of Pendant Amines in the Catalytic Hydrolysis of a Nerve Agent Simulant. <i>Angewandte Chemie</i> , 2018, 130, 1967-1971.	2.0	24
44	Modulating Photo- and Radioluminescence in Tb(III) Cluster-Based Metal-Organic Frameworks. , 2022, 4, 1025-1031.		19
45	Synthetic approaches for accessing rare-earth analogues of UiO-66. <i>Chemical Communications</i> , 2021, 57, 6121-6124.	4.1	18
46	Bottom-Up Design and Generation of Complex Structures: A New Twist in Reticular Chemistry. <i>Crystal Growth and Design</i> , 2018, 18, 449-455.	3.0	14
47	Modular Construction of Porous Hydrogen-Bonded Molecular Materials from Melams. <i>Chemistry - A European Journal</i> , 2020, 26, 7026-7040.	3.3	14
48	Combining solvent-assisted linker exchange and transmetalation strategies to obtain a new non-catenated nickel (II) pillared-paddlewheel MOF. <i>Inorganic Chemistry Communication</i> , 2016, 67, 60-63.	3.9	13
49	Remodelling a shp: Transmetalation in a Rare-Earth Cluster-Based Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2021, 60, 11795-11802.	4.0	8
50	Simplifying and expanding the scope of boron imidazolate framework (BIF) synthesis using mechanochemistry. <i>Chemical Science</i> , 2021, 12, 14499-14506.	7.4	7
51	Metal-organic frameworks for the generation of reactive oxygen species. <i>Chemical Physics Reviews</i> , 2021, 2, .	5.7	7
52	A Step toward Change: A Green Alternative for the Synthesis of Metal-Organic Frameworks. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16356-16362.	6.7	7
53	Experimentalists and theorists need to talk. <i>Nature</i> , 2017, 551, 433-434.	27.8	6
54	Phosphonates Meet Metal-Organic Frameworks: Towards CO <sub>2</sub> Adsorption. <i>Israel Journal of Chemistry</i> , 2018, 58, 1164-1170.	2.3	4

#	ARTICLE	IF	CITATIONS
55	Metal-organic frameworks for capture and detoxification of nerve agents. , 2019, , 179-202.		3
56	Adding to the Arsenal of Zirconium-Based Metal-Organic Frameworks:theTopology as a Platform for Solvent-Assisted Metal Incorporation. European Journal of Inorganic Chemistry, 2016, 2016, 4266-4266.	2.0	1
57	Precision in 3D. Nature Chemistry, 2017, 9, 299-301.	13.6	1
58	Crystalline Molecular Materials: From Structure to Function. Crystal Growth and Design, 2020, 20, 7565-7567.	3.0	1
59	Valuing Humanity As Much As Research Output And Ideas. ChemistryViews, 0, , .	0.0	0