

# Osama Shekhah

## List of Publications by Year in descending order

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34  
papers

3,479  
citations

236833

25  
h-index

345118

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g-index

37  
all docs

37  
docs citations

37  
times ranked

4230  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed matrix formulations with MOF molecular sieving for key energy-intensive separations. Nature Materials, 2018, 17, 283-289.	13.3	449
2	Molecular enhancement of heterogeneous CO <sub>2</sub> reduction. Nature Materials, 2020, 19, 266-276.	13.3	416
3	Metal-Organic Frameworks Mediate Cu Coordination for Selective CO <sub>2</sub> Electroreduction. Journal of the American Chemical Society, 2018, 140, 11378-11386.	6.6	326
4	H <sub>2</sub> S Sensors: Fumarate-Based Cu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode. Angewandte Chemie - International Edition, 2016, 55, 15879-15883.	7.2	213
5	Unprecedented Ultralow Detection Limit of Amines using a Thiadiazole-Functionalized Zr(IV)-Based Metal-Organic Framework. Journal of the American Chemical Society, 2019, 141, 7245-7249.	6.6	203
6	Phenanthroline Covalent Organic Framework Electrodes for High-Performance Zinc-Ion Supercapattery. ACS Energy Letters, 2020, 5, 2256-2264.	8.8	175
7	Molecular Engineering of Covalent Organic Framework Cathodes for Enhanced Zinc-Ion Batteries. Advanced Materials, 2021, 33, e2103617.	11.1	151
8	Intermediate Binding Control Using Metal-Organic Frameworks Enhances Electrochemical CO <sub>2</sub> Reduction. Journal of the American Chemical Society, 2020, 142, 21513-21521.	6.6	133
9	Highly sensitive and selective SO <sub>2</sub> MOF sensor: the integration of MFM-300 MOF as a sensitive layer on a capacitive interdigitated electrode. Journal of Materials Chemistry A, 2018, 6, 5550-5554.	5.2	131
10	Insights on Capacitive Interdigitated Electrodes Coated with MOF Thin Films: Humidity and VOCs Sensing as a Case Study. Sensors, 2015, 15, 18153-18166.	2.1	120
11	Electrochemical synthesis of continuous metal-organic framework membranes for separation of hydrocarbons. Nature Energy, 2021, 6, 882-891.	19.8	115
12	Methanol and Humidity Capacitive Sensors Based on Thin Films of MOF Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 4155-4162.	4.0	113
13	MXene Derived Metal-Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 20037-20042.	6.6	110
14	High-Capacity NH <sub>4</sub> <sup>+</sup> Charge Storage in Covalent Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 19178-19186.	6.6	109
15	Energy Transfer in Metal-Organic Frameworks for Fluorescence Sensing. ACS Applied Materials & Interfaces, 2022, 14, 9970-9986.	4.0	109
16	Realization of an Ultrasensitive and Highly Selective OFET NO <sub>2</sub> Sensor: The Synergistic Combination of PDVT-10 Polymer and Porphyrin-MOF. ACS Applied Materials & Interfaces, 2020, 12, 18748-18760.	4.0	75
17	Access to Highly Efficient Energy Transfer in Metal-Organic Frameworks via Mixed Linkers Approach. Journal of the American Chemical Society, 2020, 142, 8580-8584.	6.6	62
18	Metal-Organic Framework Thin Films on High-Curvature Nanostructures Toward Tandem Electrocatalysis. ACS Applied Materials & Interfaces, 2018, 10, 31225-31232.	4.0	57

#	ARTICLE	IF	CITATIONS
19	Liquid phase epitaxial growth of heterostructured hierarchical MOF thin films. <i>Chemical Communications</i> , 2017, 53, 6191-6194.	2.2	53
20	Metal-Organic Framework Membranes: From Fabrication to Gas Separation. <i>Crystals</i> , 2018, 8, 412.	1.0	51
21	Nanoporous Fluorinated Metal-Organic Framework-Based Membranes for CO <sub>2</sub> Capture. <i>ACS Applied Nano Materials</i> , 2020, 3, 6432-6439.	2.4	51
22	A Comparative Study of Interdigitated Electrode and Quartz Crystal Microbalance Transduction Techniques for Metal-Organic Framework-Based Acetone Sensors. <i>Sensors</i> , 2018, 18, 3898.	2.1	41
23	H <sub>2</sub> S Sensors: Fumarate-Based MOF Thin Film Grown on a Capacitive Interdigitated Electrode. <i>Angewandte Chemie</i> , 2016, 128, 16111-16115.	1.6	35
24	Insights into the Enhancement of MOF/Polymer Adhesion in Mixed-Matrix Membranes via Polymer Functionalization. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 29041-29047.	4.0	32
25	Made-to-order porous electrodes for supercapacitors: MOFs embedded with redox-active centers as a case study. <i>Chemical Communications</i> , 2020, 56, 1883-1886.	2.2	31
26	Metal-Organic Frameworks in Mixed-Matrix Membranes for High-Speed Visible-Light Communication. <i>Journal of the American Chemical Society</i> , 2022, 144, 6813-6820.	6.6	23
27	In situ assembled ZIF superstructures via an emulsion-free soft-templating approach. <i>Chemical Science</i> , 2020, 11, 11280-11284.	3.7	22
28	Electrochemical Thin-Film Transistors using Covalent Organic Framework Channel. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	16
29	Tunable Twisting Motion of Organic Linkers via Concentration and Hydrogen-Bond Formation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5900-5906.	1.5	14
30	Carbonization of covalent triazine-based frameworks via ionic liquid induction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15564-15568.	5.2	13
31	Directional Exciton Migration in Benzoimidazole-Based Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4917-4927.	2.1	10
32	Metal-Organic Frameworks Characterization via Inverse Pulse Gas Chromatography. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10243.	1.3	8
33	Ultrafast Aggregation-Induced Tunable Emission Enhancement in a Benzothiadiazole-Based Fluorescent Metal-Organic Framework Linker. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13298-13308.	1.2	5
34	H <sub>2</sub> S Sensors: Fumarate-Based MOF Thin Film Grown on a Capacitive Interdigitated Electrode ( <i>Angew. Chem.</i> 51/2016). <i>Angewandte Chemie</i> , 2016, 128, 16162-16162.	1.6	1