

Osama Shekhah

List of Publications by Citations

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33
papers

1,834
citations

21
h-index

37
g-index

37
ext. papers

2,614
ext. citations

12.7
avg, IF

5.12
L-index

#	Paper	IF	Citations
33	Mixed matrix formulations with MOF molecular sieving for key energy-intensive separations. <i>Nature Materials</i> , 2018 , 17, 283-289	27	298
32	Molecular enhancement of heterogeneous CO reduction. <i>Nature Materials</i> , 2020 , 19, 266-276	27	195
31	Metal-Organic Frameworks Mediate Cu Coordination for Selective CO Electroreduction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11378-11386	16.4	188
30	H S Sensors: Fumarate-Based fcu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15879-15883	16.4	172
29	Unprecedented Ultralow Detection Limit of Amines using a Thiadiazole-Functionalized Zr(IV)-Based Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7245-7249	16.4	139
28	Highly sensitive and selective SO ₂ MOF sensor: the integration of MFM-300 MOF as a sensitive layer on a capacitive interdigitated electrode. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5550-5554	13	92
27	Insights on Capacitive Interdigitated Electrodes Coated with MOF Thin Films: Humidity and VOCs Sensing as a Case Study. <i>Sensors</i> , 2015 , 15, 18153-66	3.8	92
26	Phenanthroline Covalent Organic Framework Electrodes for High-Performance Zinc-Ion Supercapattery. <i>ACS Energy Letters</i> , 2020 , 5, 2256-2264	20.1	74
25	Methanol and Humidity Capacitive Sensors Based on Thin Films of MOF Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4155-4162	9.5	60
24	Intermediate Binding Control Using Metal-Organic Frameworks Enhances Electrochemical CO Reduction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21513-21521	16.4	50
23	MXene Derived Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019 , 141, 20037-20042	16.4	49
22	Realization of an Ultrasensitive and Highly Selective OFET NO Sensor: The Synergistic Combination of PDVT-10 Polymer and Porphyrin-MOF. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18748-18760	9.5	45
21	Liquid phase epitaxial growth of heterostructured hierarchical MOF thin films. <i>Chemical Communications</i> , 2017 , 53, 6191-6194	5.8	43
20	Metal-Organic Framework Membranes: From Fabrication to Gas Separation. <i>Crystals</i> , 2018 , 8, 412	2.3	38
19	Access to Highly Efficient Energy Transfer in Metal-Organic Frameworks via Mixed Linkers Approach. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8580-8584	16.4	34
18	Molecular Engineering of Covalent Organic Framework Cathodes for Enhanced Zinc-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2103617	24	31
17	Metal-Organic Framework Thin Films on High-Curvature Nanostructures Toward Tandem Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31225-31232	9.5	30

16	H ₂ S Sensors: Fumarate-Based fcu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode. <i>Angewandte Chemie</i> , 2016 , 128, 16111-16115	3.6	26
15	Nanoporous Fluorinated Metal-Organic Framework-Based Membranes for CO ₂ Capture. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6432-6439	5.6	25
14	A Comparative Study of Interdigitated Electrode and Quartz Crystal Microbalance Transduction Techniques for Metal-Organic Framework-Based Acetone Sensors. <i>Sensors</i> , 2018 , 18,	3.8	24
13	High-Capacity NH Charge Storage in Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19178-19186	16.4	21
12	Electrochemical synthesis of continuous metal-organic framework membranes for separation of hydrocarbons. <i>Nature Energy</i> , 2021 , 6, 882-891	62.3	20
11	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	5.8	19
10	Energy Transfer in Metal-Organic Frameworks for Fluorescence Sensing. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	15
9	assembled ZIF superstructures an emulsion-free soft-templating approach. <i>Chemical Science</i> , 2020 , 11, 11280-11284	9.4	10
8	Tunable Twisting Motion of Organic Linkers via Concentration and Hydrogen-Bond Formation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5900-5906	3.8	10
7	Carbonization of covalent triazine-based frameworks via ionic liquid induction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15564-15568	13	8
6	Insights into the Enhancement of MOF/Polymer Adhesion in Mixed-Matrix Membranes Polymer Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29041-29047	9.5	7
5	Directional Exciton Migration in Benzoimidazole-Based Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4917-4927	6.4	4
4	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	3.4	2
3	Electrochemical Thin-Film Transistors using Covalent Organic Framework Channel. <i>Advanced Functional Materials</i> , 2021 , 120	15.6	2
2	Metal-Organic Frameworks Characterization via Inverse Pulse Gas Chromatography. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10243	2.6	1
1	Rücktitelbild: H ₂ S Sensors: Fumarate-Based fcu-MOF Thin Film Grown on a Capacitive Interdigitated Electrode (Angew. Chem. 51/2016). <i>Angewandte Chemie</i> , 2016 , 128, 16162-16162	3.6	1