

# Bohan Shan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/322915/publications.pdf>

Version: 2024-02-01

25  
papers

862  
citations

471509

17  
h-index

610901

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1319  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Decade of UiO-66 Research: A Historic Review of Dynamic Structure, Synthesis Mechanisms, and Characterization Techniques of an Archetypal Metal-Organic Framework. <i>Crystal Growth and Design</i> , 2020, 20, 1347-1362.	3.0	306
2	Particle size studies to reveal crystallization mechanisms of the metal organic framework HKUST-1 during sonochemical synthesis. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 365-370.	8.2	52
3	Environmentally friendly synthesis of flexible MOFs $M(NA)_2$ ( $M = Zn, Co, Cu, Cd$ ) with large and regenerable ammonia capacity. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9922-9929.	10.3	51
4	UiO-66 MOF and Poly(vinyl cinnamate) Nanofiber Composite Membranes Synthesized by a Facile Three-Stage Process. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 12386-12392.	3.7	49
5	Influences of Deprotonation and Modulation on Nucleation and Growth of UiO-66: Intergrowth and Orientation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2200-2206.	3.1	47
6	Investigation of Missing-Cluster Defects in UiO-66 and Ferrocene Deposition into Defect-Induced Cavities. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 14233-14241.	3.7	44
7	Ultimate Control over Hydrogen Bond Formation and Reaction Rates for Scalable Synthesis of Highly Crystalline vdW MOF Nanosheets with Large Aspect Ratio. <i>Advanced Materials</i> , 2018, 30, e1802497.	21.0	30
8	Nanofiber-based Matrimid organogel membranes for battery separator. <i>Journal of Membrane Science</i> , 2018, 546, 158-164.	8.2	29
9	Early damage detection in epoxy matrix using cyclobutane-based polymers. <i>Smart Materials and Structures</i> , 2014, 23, 095038.	3.5	25
10	Modeling Nanoparticle Dispersion in Electrospun Nanofibers. <i>Langmuir</i> , 2018, 34, 1340-1346.	3.5	25
11	Prolonged HKUST-1 functionality under extreme hydrothermal conditions by electrospinning polystyrene fibers as a new coating method. <i>Microporous and Mesoporous Materials</i> , 2018, 270, 34-39.	4.4	25
12	Adsorption and diffusion of carbon dioxide on the metal-organic framework CuBTB. <i>Chemical Engineering Science</i> , 2017, 167, 10-17.	3.8	23
13	Unusual Pressure-Driven Phase Transformation and Band Renormalization in 2D vdW Hybrid Lead Halide Perovskites. <i>Advanced Materials</i> , 2020, 32, e1907364.	21.0	23
14	Rapid $CO_2$ capture from ambient air by sorbent-containing porous electrospun fibers made with the solvothermal polymer additive removal technique. <i>AIChE Journal</i> , 2019, 65, 214-220.	3.6	22
15	Hierarchical Pore Structures and High ZIF-8 Loading on Matrimid Electrospun Fibers by Additive Removal from a Blended Polymer Precursor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 9944-9951.	3.7	21
16	A cobalt metal-organic framework with small pore size for adsorptive separation of $CO_2$ over $N_2$ and $CH_4$ . <i>AIChE Journal</i> , 2017, 63, 4532-4540.	3.6	21
17	Influence of Particle Size and Loading on Particle Accessibility in Electrospun Poly(ethylene oxide) and ZIF-8 Composite Fibers: Experiments and Theory. <i>Langmuir</i> , 2017, 33, 9066-9072.	3.5	21
18	Monte Carlo Simulations to Examine the Role of Pore Structure on Ambient Air Separation in Metal-Organic Frameworks. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 9240-9253.	3.7	14

#	ARTICLE	IF	CITATIONS
19	Microscopy Study of Morphology of Electrospun Fiber-MOF Composites with Secondary Growth. <i>MRS Advances</i> , 2017, 2, 2457-2463.	0.9	12
20	Composite MOF mixture as volatile organic compound sensor – A new approach to LMOF sensors. <i>Materials Letters</i> , 2017, 190, 33-36.	2.6	7
21	Achieving Morphological Control over Lamellar Manganese Metal-Organic Framework through Modulated Bi-Phase Growth. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9408-9413.	13.8	6
22	Core-shell adsorbents by electrospun MOF-polymer composites with improved adsorption properties: Theory and experiments. <i>AIChE Journal</i> , 2020, 66, e16816.	3.6	5
23	Electronic and catalytic engineering in two-dimensional vdW metal-organic frameworks through alloying. <i>Applied Physics Reviews</i> , 2021, 8, 031411.	11.3	3
24	Layered Perovskites: Unusual Pressure-Driven Phase Transformation and Band Renormalization in 2D vdW Hybrid Lead Halide Perovskites ( <i>Adv. Mater.</i> 12/2020). <i>Advanced Materials</i> , 2020, 32, 2070088.	21.0	1
25	Achieving Morphological Control over Lamellar Manganese Metal-Organic Framework through Modulated Bi-Phase Growth. <i>Angewandte Chemie</i> , 2020, 132, 9494-9499.	2.0	0