

# Hui Wang

## List of Publications by Year in descending order

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16  
papers

523  
citations

840776

11  
h-index

996975

15  
g-index

16  
all docs

16  
docs citations

16  
times ranked

456  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of multi-scale transport phenomena in shale gas production – A critical review. Applied Energy, 2020, 262, 114575.	10.1	161
2	Review of Molecular Simulation Method for Gas Adsorption/desorption and Diffusion in Shale Matrix. Journal of Thermal Science, 2019, 28, 1-16.	1.9	92
3	Fast pressure distribution prediction of airfoils using deep learning. Aerospace Science and Technology, 2020, 105, 105949.	4.8	87
4	Experimental and numerical study of CO <sub>2</sub> adsorption on copper benzene-1,3,5-tricarboxylate (Cu-BTC) metal organic framework. International Journal of Heat and Mass Transfer, 2016, 92, 859-863.	4.8	30
5	Coupled GCMC and LBM simulation method for visualizations of CO <sub>2</sub> /CH <sub>4</sub> gas separation through Cu-BTC membranes. Journal of Membrane Science, 2018, 550, 448-461.	8.2	26
6	Thermal Management for Hydrogen Charging and Discharging in a Screened Metal-Organic Framework Particle Tank. ACS Applied Materials & Interfaces, 2021, 13, 61838-61848.	8.0	21
7	Prediction of the effective thermal conductivity of an adsorption bed packed with 5A zeolite particles under working conditions. International Journal of Thermal Sciences, 2021, 159, 106630.	4.9	19
8	Combined grand canonical Monte Carlo and finite volume method simulation method for investigation of direct air capture of low concentration CO <sub>2</sub> by 5A zeolite adsorbent bed. International Journal of Heat and Mass Transfer, 2018, 126, 1219-1235.	4.8	18
9	Deep learning based multistage method for inverse design of supercritical airfoil. Aerospace Science and Technology, 2021, 119, 107101.	4.8	18
10	Three-dimensional pore-scale study of the directional heat transfer in a high thermal conductivity carbon/carbon composite protection system. Aerospace Science and Technology, 2021, 112, 106609.	4.8	15
11	Multi-factor study of the effects of a trace amount of water vapor on low concentration CO <sub>2</sub> capture by 5A zeolite particles. RSC Advances, 2020, 10, 6503-6511.	3.6	12
12	Multi-object aerodynamic design optimization using deep reinforcement learning. AIP Advances, 2021, 11, .	1.3	12
13	Structural optimization of double-layer capillary wick in a cryogenic loop heat pipe system via genetic algorithm. International Communications in Heat and Mass Transfer, 2022, 131, 105868.	5.6	6
14	Screening Study of the Effects of Impurity Gases on Hydrogen Storage in Metal-Organic Frameworks. Journal of Energy Engineering - ASCE, 2020, 146, 04020065.	1.9	3
15	High-Throughput Screening of Metal-Organic Frameworks for the Impure Hydrogen Storage Supplying to a Fuel Cell Vehicle. Transport in Porous Media, 2021, 140, 727-742.	2.6	3
16	Experimental study of the thermal storage and mechanical properties of microencapsulated phase change composites during a supersonic cruise. RSC Advances, 2022, 12, 6114-6121.	3.6	0