Yongjin Lee

List of Publications by Year
in descending order

34 papers	1,703 citations	394421 19 h-index	395702 33 g-index
34 all docs	34 docs citations	34 times ranked	2048 citing authors

#	Article	IF	Citations
1	Deciphering van der Waals interaction between polypropylene and carbonated fly ash from experimental and molecular simulation. Journal of Hazardous Materials, 2022, 421, 126725.	12.4	5
2	In Silico Generation of a Topologically Diverse Zeolite-Templated Carbon Library. Crystal Growth and Design, 2022, 22, 123-130.	3.0	3
3	Control over interpenetration for boosting methane storage capacity in metalâ€"organic frameworks. Journal of Materials Chemistry A, 2021, 9, 24857-24862.	10.3	14
4	Machine Learning-Driven Discovery of Metalâ€"Organic Frameworks for Efficient CO₂ Capture in Humid Condition. ACS Sustainable Chemistry and Engineering, 2021, 9, 2872-2879.	6.7	34
5	Coating the Right Polymer: Achieving Ideal Metalâ€"Organic Framework Particle Dispersibility in Polymer Matrixes Using a Coordinative Crosslinking Surface Modification Method. Angewandte Chemie, 2021, 133, 14257-14264.	2.0	14
6	Coating the Right Polymer: Achieving Ideal Metalâ€"Organic Framework Particle Dispersibility in Polymer Matrixes Using a Coordinative Crosslinking Surface Modification Method. Angewandte Chemie - International Edition, 2021, 60, 14138-14145.	13.8	48
7	Physicochemical Understanding of the Impact of Pore Environment and Species of Adsorbates on Adsorption Behaviour. Angewandte Chemie, 2021, 133, 20667-20673.	2.0	1
8	Physicochemical Understanding of the Impact of Pore Environment and Species of Adsorbates on Adsorption Behaviour. Angewandte Chemie - International Edition, 2021, 60, 20504-20510.	13.8	8
9	Machine Learning-based approach for Tailor-Made design of ionic Liquids: Application to CO2 capture. Separation and Purification Technology, 2021, 275, 119117.	7.9	17
10	<i>In Situ</i> Mapping and Local Negative Uptake Behavior of Adsorbates in Individual Pores of Metalâ€"Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 20747-20757.	13.7	5
11	A computational study to design zeolite-templated carbon materials with high performance for CO2/N2 separation. Microporous and Mesoporous Materials, 2020, 295, 109947.	4.4	12
12	Machine Learning Enabled Tailor-Made Design of Application-Specific Metalâ€"Organic Frameworks. ACS Applied Materials & Interfaces, 2020, 12, 734-743.	8.0	42
13	Enhancing the Gas Separation Selectivity of Mixed-Matrix Membranes Using a Dual-Interfacial Engineering Approach. Journal of the American Chemical Society, 2020, 142, 18503-18512.	13.7	86
14	Tuning Metalâ€"Organic Framework Nanocrystal Shape through Facet-Dependent Coordination. Nano Letters, 2020, 20, 1774-1780.	9.1	52
15	Understanding the diversity of the metal-organic framework ecosystem. Nature Communications, 2020, 11, 4068.	12.8	282
16	Robust Metalâ€"Triazolate Frameworks for CO₂ Capture from Flue Gas. Journal of the American Chemical Society, 2020, 142, 2750-2754.	13.7	159
17	Engineering plasticization resistant gas separation membranes using metalâ€"organic nanocapsules. Chemical Science, 2020, 11, 4687-4694.	7.4	22
18	Tracking and Visualization of Functional Domains in Stratified Metalâ€"Organic Frameworks Using Gold Nanoparticles. ACS Central Science, 2020, 6, 247-253.	11.3	13

#	Article	IF	Citations
19	Machine Learning Prediction on Properties of Nanoporous Materials Utilizing Pore Geometry Barcodes. Journal of Chemical Information and Modeling, 2019, 59, 4636-4644.	5.4	29
20	Understanding Adsorption Behavior of Periodic Mesoporous Organosilica Having a Heterogeneous Chemical Environment: Selective Coverage and Interpenetration of Adsorbates inside the Channel Wall. Journal of Physical Chemistry C, 2019, 123, 24884-24889.	3.1	6
21	A generalizable method for the construction of MOF@polymer functional composites through surface-initiated atom transfer radical polymerization. Chemical Science, 2019, 10, 1816-1822.	7.4	75
22	General Way To Construct Micro- and Mesoporous Metalâ€"Organic Framework-Based Porous Liquids. Journal of the American Chemical Society, 2019, 141, 19708-19714.	13.7	111
23	Strong thermal conductivity dependence on arsenic-vacancy complex formation in arsenic-doped silicon. Journal of Applied Physics, 2019, 126, 195104.	2.5	1
24	High-Throughput Screening Approach for Nanoporous Materials Genome Using Topological Data Analysis: Application to Zeolites. Journal of Chemical Theory and Computation, 2018, 14, 4427-4437.	5.3	53
25	Generating carbon schwarzites via zeolite-templating. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8116-E8124.	7.1	88
26	Quantifying similarity of pore-geometry in nanoporous materials. Nature Communications, 2017, 8, 15396.	12.8	98
27	Engineering of Pore Geometry for Ultrahigh Capacity Methane Storage in Mesoporous Metalâ€"Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 13300-13303.	13.7	140
28	Computational development of the nanoporous materials genome. Nature Reviews Materials, 2017, 2, .	48.7	123
29	What is the thermal conductivity limit of silicon germanium alloys?. Physical Chemistry Chemical Physics, 2016, 18, 19544-19548.	2.8	18
30	Fundamental insight into control of thermal conductivity in silicon-germanium alloy nanowires. Materials Research Society Symposia Proceedings, 2014, 1707, 31.	0.1	0
31	Microsegregation effects on the thermal conductivity of silicon-germanium alloys. Journal of Applied Physics, 2013, 114, 174910.	2.5	12
32	Mechanism of thermal conductivity suppression in doped silicon studied with nonequilibrium molecular dynamics. Physical Review B, 2012, 86, .	3.2	30
33	Force-matching-based parameterization of the Stillinger-Weber potential for thermal conduction in silicon. Physical Review B, 2012, 85, .	3.2	37
34	Effects of vacancy defects on thermal conductivity in crystalline silicon: A nonequilibrium molecular dynamics study. Physical Review B, 2011, 83, .	3.2	65