Jeong Hyeon Lee

List of Publications by Year
in descending order

25 papers	966 citations	623734 14 h-index	580821 25 g-index
25 all docs	25 docs citations	25 times ranked	1678 citing authors

#	Article	IF	Citations
1	Monolayer-Precision Synthesis of Molybdenum Sulfide Nanoparticles and Their Nanoscale Size Effects in the Hydrogen Evolution Reaction. ACS Nano, 2015, 9, 3728-3739.	14.6	201
2	Carambola-shaped VO₂ nanostructures: a binder-free air electrode for an aqueous Naâ€“air battery. Journal of Materials Chemistry A, 2017, 5, 2037-2044.	10.3	120
3	Subnano-sized silicon anode via crystal growth inhibition mechanism and its application in a prototype battery pack. Nature Energy, 2021, 6, 1164-1175.	39.5	107
4	Chiral self-sorted multifunctional supramolecular biocoordination polymers and their applications in sensors. Nature Communications, 2018, 9, 3933.	12.8	85
5	An oriented, siliceous deca-dodecasil 3R (DDR) zeolite film for effective carbon capture: insight into its hydrophobic effect. Journal of Materials Chemistry A, 2017, 5, 11246-11254.	10.3	52
6	Porous Two-Dimensional Monolayer Metalâ€“Organic Framework Material and Its Use for the Size-Selective Separation of Nanoparticles. ACS Applied Materials & Interfaces, 2017, 9, 28107-28116.	8.0	51
7	Solvothermal liquefaction of alkali lignin to obtain a high yield of aromatic monomers while suppressing solvent consumption. Green Chemistry, 2018, 20, 4957-4974.	9.0	47
8	Design of a heterogeneous catalytic process for the continuous and direct synthesis of lactide from lactic acid. Green Chemistry, 2016, 18, 5978-5983.	9.0	40
9	Surface-Doped Quasi-2D Chiral Organic Single Crystals for Chiroptical Sensing. ACS Nano, 2020, 14, 14146-14156.	14.6	33
10	Revealing salt-expedited reduction mechanism for hollow silicon microsphere formation in bi-functional halide melts. Communications Chemistry, 2018, 1, .	4.5	31
11	Highly Efficient Hydrotalcite/1-Butanol Catalytic System for the Production of the High-Yield Fructose Crystal from Glucose. ACS Catalysis, 2020, 10, 1388-1396.	11.2	30
12	Pore control of Al-based MIL-53 isomorphs for the preferential capture of ethane in an ethane/ethylene mixture. Journal of Materials Chemistry A, 2021, 9, 14593-14600.	10.3	29
13	Tuning the supramolecular chirality and optoelectronic performance of chiral perylene diimide nanowires via N-substituted side chain engineering. Journal of Materials Chemistry C, 2019, 7, 8688-8697.	5.5	23
14	Effect of framework rigidity in metal-organic frameworks for adsorptive separation of ethane/ethylene. Microporous and Mesoporous Materials, 2020, 307, 110473.	4.4	20
15	Bay-Substitution Effect of Perylene Diimides on Supramolecular Chirality and Optoelectronic Properties of Their Self-Assembled Nanostructures. ACS Applied Materials & Interfaces, 2021, 13, 12278-12285.	8.0	16
16	Micro-/nano-sized multifunctional heterochiral metalâ€“organic frameworks for high-performance visibleâ€“blind UV photodetectors. Journal of Materials Chemistry C, 2021, 9, 7310-7318.	5.5	14
17	Heterochiral Doped Supramolecular Coordination Networks for High-Performance Optoelectronics. ACS Applied Materials & Interfaces, 2019, 11, 20174-20182.	8.0	11
18	An unprecedented c-oriented DDR@MWW zeolite hybrid membrane: new insights into H2-permselectivities via six membered-ring pores. Journal of Materials Chemistry A, 2020, 8, 14071-14081.	10.3	10

#	Article	IF	Citations
19	Strategic Approach for Enhancing Sensitivity of Ammonia Gas Detection: Molecular Design Rule and Morphology Optimization for Stable Radical Anion Formation of Rylene Diimide Semiconductors. Advanced Functional Materials, 2021, 31, 2101981.	14.9	10
20	â€œMajorityâ€Rulesâ€•Effect on Supramolecular Chirality and Optoelectronic Properties of Chiral Tetrachloroâ€Perylene Diimides. Advanced Optical Materials, 2021, 9, 2001911.	7.3	10
21	Explosion Study of Nitromethane Confined in Carbon Nanotube Nanocontainer via Reactive Molecular Dynamics. Journal of Physical Chemistry C, 2017, 121, 6415-6423.	3.1	9
22	Separation of ethane/ethylene gas mixture by ethane-selective CAU-3-NDCA adsorbent. Microporous and Mesoporous Materials, 2022, 330, 111572.	4.4	9
23	A Robust and Highly Selective Catalytic System of Copperâ€“Silica Nanocomposite and 1â€Butanol in Fructose Hydrogenation to Mannitol. ChemSusChem, 2020, 13, 5050-5057.	6.8	5
24	Controllable Explosion of Nanobomb by Modifying Nanocontainer and External Shocks. Journal of Physical Chemistry C, 2020, 124, .	3.1	2
25	Reaction kinetics of mixture of nitromethane and detonator confined in carbon nanotube. Journal of Industrial and Engineering Chemistry, 2020, 83, 64-71.	5.8	1