Zhe Yuan

List of Publications by Year
in descending order

19 papers	3,176 citations	567281 15 h-index	752698 20 g-index
21 all docs	21 docs citations	21 times ranked	4681 citing authors

#	Article	IF	Citations
1	Irreversible synthesis of an ultrastrong two-dimensional polymeric material. Nature, 2022, 602, 91-95.	27.8	42
2	Gas Separations using Nanoporous Atomically Thin Membranes: Recent Theoretical, Simulation, and Experimental Advances. Advanced Materials, 2022, 34, e2201472.	21.0	28
3	Predicting Gas Separation through Graphene Nanopore Ensembles with Realistic Pore Size Distributions. ACS Nano, 2021, 15, 1727-1740.	14.6	28
4	Diameter Dependence of Water Filling in Lithographically Segmented Isolated Carbon Nanotubes. ACS Nano, 2021, 15, 2778-2790.	14.6	20
5	Direct Chemical Vapor Deposition Synthesis of Porous Singleâ€Layer Graphene Membranes with High Gas Permeances and Selectivities. Advanced Materials, 2021, 33, e2104308.	21.0	28
6	Impedance of Thermal Conduction from Nanoconfined Water in Carbon Nanotube Single-Digit Nanopores. Journal of Physical Chemistry C, 2021, 125, 25717-25728.	3.1	2
7	Analytical Prediction of Gas Permeation through Graphene Nanopores of Varying Sizes: Understanding Transitions across Multiple Transport Regimes. ACS Nano, 2019, 13, 11809-11824.	14.6	46
8	Stable, Temperature-Dependent Gas Mixture Permeation and Separation through Suspended Nanoporous Single-Layer Graphene Membranes. Nano Letters, 2018, 18, 5057-5069.	9.1	56
9	Noble-gas-infused neoprene closed-cell foams achieving ultra-low thermal conductivity fabrics. RSC Advances, 2018, 8, 21389-21398.	3.6	12
10	Current and future directions in electron transfer chemistry of graphene. Chemical Society Reviews, 2017, 46, 4530-4571.	38.1	125
11	Fabrication, Pressure Testing, and Nanopore Formation of Single-Layer Graphene Membranes. Journal of Physical Chemistry C, 2017, 121, 14312-14321.	3.1	39
12	Mechanism and Prediction of Gas Permeation through Sub-Nanometer Graphene Pores: Comparison of Theory and Simulation. ACS Nano, 2017, 11, 7974-7987.	14.6	103
13	Janus Separator of Polypropyleneâ€Supported Cellular Graphene Framework for Sulfur Cathodes with High Utilization in Lithiumâ€"Sulfur Batteries. Advanced Science, 2016, 3, 1500268.	11.2	294
14	3D Carbonaceous Current Collectors: The Origin of Enhanced Cycling Stability for Highâ€Sulfurâ€Loading Lithiumâ€"Sulfur Batteries. Advanced Functional Materials, 2016, 26, 6351-6358.	14.9	216
15	Powering Lithiumâ€"Sulfur Battery Performance by Propelling Polysulfide Redox at Sulfiphilic Hosts. Nano Letters, 2016, 16, 519-527.	9.1	1,294
16	Electrodes: Hierarchical Freeâ€Standing Carbonâ€Nanotube Paper Electrodes with Ultrahigh Sulfurâ€Loading for Lithiumâ€"Sulfur Batteries (Adv. Funct. Mater. 39/2014). Advanced Functional Materials, 2014, 24, 6244-6244.	14.9	9
17	Hierarchical Freeâ€Standing Carbonâ€Nanotube Paper Electrodes with Ultrahigh Sulfurâ€Loading for Lithiumâ€"Sulfur Batteries. Advanced Functional Materials, 2014, 24, 6105-6112.	14.9	476
18	Batteries: Strongly Coupled Interfaces between a Heterogeneous Carbon Host and a Sulfurâ€Containing Guest for Highly Stable Lithiumâ€Sulfur Batteries: Mechanistic Insight into Capacity Degradation (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10		

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19	Strongly Coupled Interfaces between a Heterogeneous Carbon Host and a Sulfurâ€Containing Guest for Highly Stable Lithiumâ€Sulfur Batteries: Mechanistic Insight into Capacity Degradation. Advanced Materials Interfaces, 2014, 1, 1400227.	3.7	351