

Zhe Yuan

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

3,176
citations

567281

15
h-index

752698

20
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all docs

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docs citations

21
times ranked

4681
citing authors

#	ARTICLE	IF	CITATIONS
1	Powering Lithium-Sulfur Battery Performance by Propelling Polysulfide Redox at Sulfiphilic Hosts. <i>Nano Letters</i> , 2016, 16, 519-527.	9.1	1,294
2	Hierarchical Free-Standing Carbon-Nanotube Paper Electrodes with Ultrahigh Sulfur-Loading for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2014, 24, 6105-6112.	14.9	476
3	Strongly Coupled Interfaces between a Heterogeneous Carbon Host and a Sulfur-Containing Guest for Highly Stable Lithium-Sulfur Batteries: Mechanistic Insight into Capacity Degradation. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400227.	3.7	351
4	Janus Separator of Polypropylene-Supported Cellular Graphene Framework for Sulfur Cathodes with High Utilization in Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2016, 3, 1500268.	11.2	294
5	3D Carbonaceous Current Collectors: The Origin of Enhanced Cycling Stability for High-Sulfur-Loading Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 6351-6358.	14.9	216
6	Current and future directions in electron transfer chemistry of graphene. <i>Chemical Society Reviews</i> , 2017, 46, 4530-4571.	38.1	125
7	Mechanism and Prediction of Gas Permeation through Sub-Nanometer Graphene Pores: Comparison of Theory and Simulation. <i>ACS Nano</i> , 2017, 11, 7974-7987.	14.6	103
8	Stable, Temperature-Dependent Gas Mixture Permeation and Separation through Suspended Nanoporous Single-Layer Graphene Membranes. <i>Nano Letters</i> , 2018, 18, 5057-5069.	9.1	56
9	Analytical Prediction of Gas Permeation through Graphene Nanopores of Varying Sizes: Understanding Transitions across Multiple Transport Regimes. <i>ACS Nano</i> , 2019, 13, 11809-11824.	14.6	46
10	Irreversible synthesis of an ultrastrong two-dimensional polymeric material. <i>Nature</i> , 2022, 602, 91-95.	27.8	42
11	Fabrication, Pressure Testing, and Nanopore Formation of Single-Layer Graphene Membranes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14312-14321.	3.1	39
12	Predicting Gas Separation through Graphene Nanopore Ensembles with Realistic Pore Size Distributions. <i>ACS Nano</i> , 2021, 15, 1727-1740.	14.6	28
13	Direct Chemical Vapor Deposition Synthesis of Porous Single-Layer Graphene Membranes with High Gas Permeances and Selectivities. <i>Advanced Materials</i> , 2021, 33, e2104308.	21.0	28
14	Gas Separations using Nanoporous Atomically Thin Membranes: Recent Theoretical, Simulation, and Experimental Advances. <i>Advanced Materials</i> , 2022, 34, e2201472.	21.0	28
15	Diameter Dependence of Water Filling in Lithographically Segmented Isolated Carbon Nanotubes. <i>ACS Nano</i> , 2021, 15, 2778-2790.	14.6	20
16	Noble-gas-infused neoprene closed-cell foams achieving ultra-low thermal conductivity fabrics. <i>RSC Advances</i> , 2018, 8, 21389-21398.	3.6	12
17	Electrodes: Hierarchical Free-Standing Carbon-Nanotube Paper Electrodes with Ultrahigh Sulfur-Loading for Lithium-Sulfur Batteries (<i>Adv. Funct. Mater.</i> 39/2014). <i>Advanced Functional Materials</i> , 2014, 24, 6244-6244.	14.9	9
18	Impedance of Thermal Conduction from Nanoconfined Water in Carbon Nanotube Single-Digit Nanopores. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25717-25728.	3.1	2

#	ARTICLE	IF	CITATIONS
19	Batteries: Strongly Coupled Interfaces between a Heterogeneous Carbon Host and a Sulfur-Containing Guest for Highly Stable Lithium-Sulfur Batteries: Mechanistic Insight into Capacity Degradation (Adv.) Tj ETQq1 1:37784314orgBT /O	13.07	784314