Xingyi Zhou

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1241449/publications.pdf

Version: 2024-02-01

23 papers	7,401 citations	394421 19 h-index	713466 21 g-index
24 all docs	24 docs citations	24 times ranked	4846 citing authors

#	Article	IF	Citations
1	Super Waterâ€Extracting Gels for Solarâ€Powered Volatile Organic Compounds Management in the Hydrological Cycle. Advanced Materials, 2022, 34, e2110548.	21.0	50
2	Solar Water Evaporation Toward Water Purification and Beyond. , 2021, 3, 1112-1129.		107
3	Molecular Engineering of Hydrogels for Rapid Water Disinfection and Sustainable Solar Vapor Generation. Advanced Materials, 2021, 33, e2102994.	21.0	105
4	Super Moisture Absorbent Gels for Sustainable Agriculture via Atmospheric Water Irrigation. , 2020, 2, 1419-1422.		82
5	Topologyâ€Controlled Hydration of Polymer Network in Hydrogels for Solarâ€Driven Wastewater Treatment. Advanced Materials, 2020, 32, e2007012.	21.0	225
6	Atmospheric Water Harvesting: A Review of Material and Structural Designs. , 2020, 2, 671-684.		274
7	Tailoring surface wetting states for ultrafast solar-driven water evaporation. Energy and Environmental Science, 2020, 13, 2087-2095.	30.8	236
8	Materials for solar-powered water evaporation. Nature Reviews Materials, 2020, 5, 388-401.	48.7	784
9	Biomassâ€Derived Hybrid Hydrogel Evaporators for Costâ€Effective Solar Water Purification. Advanced Materials, 2020, 32, e1907061.	21.0	436
10	Architecting highly hydratable polymer networks to tune the water state for solar water purification. Science Advances, 2019, 5, eaaw5484.	10.3	600
11	Synergistic Energy Nanoconfinement and Water Activation in Hydrogels for Efficient Solar Water Desalination. ACS Nano, 2019, 13, 7913-7919.	14.6	354
12	Hydrogels as an Emerging Material Platform for Solar Water Purification. Accounts of Chemical Research, 2019, 52, 3244-3253.	15.6	392
13	Tailoring Nanoscale Surface Topography of Hydrogel for Efficient Solar Vapor Generation. Nano Letters, 2019, 19, 2530-2536.	9.1	251
14	Polar polymerâ€“solvent interaction derived favorable interphase for stable lithium metal batteries. Energy and Environmental Science, 2019, 12, 3319-3327.	30.8	122
15	Super Moistureâ€Absorbent Gels for Allâ€Weather Atmospheric Water Harvesting. Advanced Materials, 2019, 31, e1806446.	21.0	281
16	Titelbild: A 3D Nanostructured Hydrogelâ€Frameworkâ€Derived Highâ€Performance Composite Polymer Lithiumâ€Ion Electrolyte (Angew. Chem. 8/2018). Angewandte Chemie, 2018, 130, 2025-2025.	2.0	1
17	A 3D Nanostructured Hydrogelâ€Frameworkâ€Derived Highâ€Performance Composite Polymer Lithiumâ€Ion Electrolyte. Angewandte Chemie - International Edition, 2018, 57, 2096-2100.	13.8	484
18	A 3D Nanostructured Hydrogelâ€Frameworkâ€Derived Highâ€Performance Composite Polymer Lithiumâ€Ion Electrolyte. Angewandte Chemie, 2018, 130, 2118-2122.	2.0	34

#	ARTICLE	IF	CITATIONS
19	Highly efficient solar vapour generation via hierarchically nanostructured gels. Nature Nanotechnology, 2018, 13, 489-495.	31.5	1,356
20	Nanostructured Functional Hydrogels as an Emerging Platform for Advanced Energy Technologies. Advanced Materials, 2018, 30, e1801796.	21.0	177
21	A hydrogel-based antifouling solar evaporator for highly efficient water desalination. Energy and Environmental Science, 2018, 11, 1985-1992.	30.8	654
22	Nanostructured Conductive Polymer Gels as a General Framework Material To Improve Electrochemical Performance of Cathode Materials in Li-Ion Batteries. Nano Letters, 2017, 17, 1906-1914.	9.1	131
23	Material and Structural Design of Novel Binder Systems for High-Energy, High-Power Lithium-Ion Batteries. Accounts of Chemical Research, 2017, 50, 2642-2652.	15.6	261