

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

394286

19
h-index

713332

21
g-index

24
all docs

24
docs citations

24
times ranked

4846
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient solar vapour generation via hierarchically nanostructured gels. <i>Nature Nanotechnology</i> , 2018, 13, 489-495.	15.6	1,356
2	Materials for solar-powered water evaporation. <i>Nature Reviews Materials</i> , 2020, 5, 388-401.	23.3	784
3	A hydrogel-based antifouling solar evaporator for highly efficient water desalination. <i>Energy and Environmental Science</i> , 2018, 11, 1985-1992.	15.6	654
4	Architecting highly hydratable polymer networks to tune the water state for solar water purification. <i>Science Advances</i> , 2019, 5, eaaw5484.	4.7	600
5	A 3D Nanostructured Hydrogelâ€‘Frameworkâ€‘Derived Highâ€‘Performance Composite Polymer Lithiumâ€‘Ion Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2096-2100.	7.2	484
6	Biomassâ€‘Derived Hybrid Hydrogel Evaporators for Costâ€‘Effective Solar Water Purification. <i>Advanced Materials</i> , 2020, 32, e1907061.	11.1	436
7	Hydrogels as an Emerging Material Platform for Solar Water Purification. <i>Accounts of Chemical Research</i> , 2019, 52, 3244-3253.	7.6	392
8	Synergistic Energy Nanoconfinement and Water Activation in Hydrogels for Efficient Solar Water Desalination. <i>ACS Nano</i> , 2019, 13, 7913-7919.	7.3	354
9	Super Moistureâ€‘Absorbent Gels for Allâ€‘Weather Atmospheric Water Harvesting. <i>Advanced Materials</i> , 2019, 31, e1806446.	11.1	281
10	Atmospheric Water Harvesting: A Review of Material and Structural Designs. , 2020, 2, 671-684.		274
11	Material and Structural Design of Novel Binder Systems for High-Energy, High-Power Lithium-Ion Batteries. <i>Accounts of Chemical Research</i> , 2017, 50, 2642-2652.	7.6	261
12	Tailoring Nanoscale Surface Topography of Hydrogel for Efficient Solar Vapor Generation. <i>Nano Letters</i> , 2019, 19, 2530-2536.	4.5	251
13	Tailoring surface wetting states for ultrafast solar-driven water evaporation. <i>Energy and Environmental Science</i> , 2020, 13, 2087-2095.	15.6	236
14	Topologyâ€‘Controlled Hydration of Polymer Network in Hydrogels for Solarâ€‘Driven Wastewater Treatment. <i>Advanced Materials</i> , 2020, 32, e2007012.	11.1	225
15	Nanostructured Functional Hydrogels as an Emerging Platform for Advanced Energy Technologies. <i>Advanced Materials</i> , 2018, 30, e1801796.	11.1	177
16	Nanostructured Conductive Polymer Gels as a General Framework Material To Improve Electrochemical Performance of Cathode Materials in Li-Ion Batteries. <i>Nano Letters</i> , 2017, 17, 1906-1914.	4.5	131
17	Polar polymerâ€‘solvent interaction derived favorable interphase for stable lithium metal batteries. <i>Energy and Environmental Science</i> , 2019, 12, 3319-3327.	15.6	122
18	Solar Water Evaporation Toward Water Purification and Beyond. , 2021, 3, 1112-1129.		107

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19	Molecular Engineering of Hydrogels for Rapid Water Disinfection and Sustainable Solar Vapor Generation. <i>Advanced Materials</i> , 2021, 33, e21102994.	11.1	105
20	Super Moisture Absorbent Gels for Sustainable Agriculture via Atmospheric Water Irrigation. , 2020, 2, 1419-1422.		82
21	Super Water-Extracting Gels for Solar-Powered Volatile Organic Compounds Management in the Hydrological Cycle. <i>Advanced Materials</i> , 2022, 34, e21110548.	11.1	50
22	A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte. <i>Angewandte Chemie</i> , 2018, 130, 2118-2122.	1.6	34
23	Titelbild: A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte (<i>Angew. Chem.</i> 8/2018). <i>Angewandte Chemie</i> , 2018, 130, 2025-2025.	1.6	1