

Fei Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

9,308
citations

201385

27
h-index

454577

30
g-index

34
all docs

34
docs citations

34
times ranked

6211
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	Hydrogels and Hydrogel-Derived Materials for Energy and Water Sustainability. <i>Chemical Reviews</i> , 2020, 120, 7642-7707.	23.0	646
5	Architecting highly hydratable polymer networks to tune the water state for solar water purification. <i>Science Advances</i> , 2019, 5, eaaw5484.	4.7	600
6	A 3D Nanostructured Hydrogel Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2096-2100.	7.2	484
7	Biomass-Derived Hybrid Hydrogel Evaporators for Cost-Effective Solar Water Purification. <i>Advanced Materials</i> , 2020, 32, e1907061.	11.1	436
8	Stretchable All-Gel-State Fiber-Shaped Supercapacitors Enabled by Macromolecularly Interconnected 3D Graphene/Nanostructured Conductive Polymer Hydrogels. <i>Advanced Materials</i> , 2018, 30, e1800124.	11.1	396
9	Hydrogels as an Emerging Material Platform for Solar Water Purification. <i>Accounts of Chemical Research</i> , 2019, 52, 3244-3253.	7.6	392
10	Synergistic Energy Nanoconfinement and Water Activation in Hydrogels for Efficient Solar Water Desalination. <i>ACS Nano</i> , 2019, 13, 7913-7919.	7.3	354
11	Multifunctional Nanostructured Conductive Polymer Gels: Synthesis, Properties, and Applications. <i>Accounts of Chemical Research</i> , 2017, 50, 1734-1743.	7.6	343
12	Super Moisture-Absorbent Gels for All-Weather Atmospheric Water Harvesting. <i>Advanced Materials</i> , 2019, 31, e1806446.	11.1	281
13	Atmospheric Water Harvesting: A Review of Material and Structural Designs. , 2020, 2, 671-684.		274
14	Tailoring Nanoscale Surface Topography of Hydrogel for Efficient Solar Vapor Generation. <i>Nano Letters</i> , 2019, 19, 2530-2536.	4.5	251
15	Tailoring surface wetting states for ultrafast solar-driven water evaporation. <i>Energy and Environmental Science</i> , 2020, 13, 2087-2095.	15.6	236
16	Topology-Controlled Hydration of Polymer Network in Hydrogels for Solar-Driven Wastewater Treatment. <i>Advanced Materials</i> , 2020, 32, e2007012.	11.1	225
17	Electric power generation via asymmetric moisturizing of graphene oxide for flexible, printable and portable electronics. <i>Energy and Environmental Science</i> , 2018, 11, 1730-1735.	15.6	203
18	Designing 3D nanostructured garnet frameworks for enhancing ionic conductivity and flexibility in composite polymer electrolytes for lithium batteries. <i>Energy Storage Materials</i> , 2018, 15, 46-52.	9.5	203

#	ARTICLE	IF	CITATIONS
19	Nanostructured Functional Hydrogels as an Emerging Platform for Advanced Energy Technologies. <i>Advanced Materials</i> , 2018, 30, e1801796.	11.1	177
20	Balancing the mechanical, electronic, and self-healing properties in conductive self-healing hydrogel for wearable sensor applications. <i>Materials Horizons</i> , 2021, 8, 1795-1804.	6.4	176
21	Functional Hydrogels for Next-Generation Batteries and Supercapacitors. <i>Trends in Chemistry</i> , 2019, 1, 335-348.	4.4	158
22	Spontaneous power source in ambient air of a well-directionally reduced graphene oxide bulk. <i>Energy and Environmental Science</i> , 2018, 11, 2839-2845.	15.6	144
23	Solar Water Evaporation Toward Water Purification and Beyond. , 2021, 3, 1112-1129.		107
24	High-Yield and Low-Cost Solar Water Purification via Hydrogel-Based Membrane Distillation. <i>Advanced Functional Materials</i> , 2021, 31, 2101036.	7.8	90
25	Super Moisture Absorbent Gels for Sustainable Agriculture via Atmospheric Water Irrigation. , 2020, 2, 1419-1422.		82
26	Cyanogel-Enabled Homogeneous Sb-Ni-C Ternary Framework Electrodes for Enhanced Sodium Storage. <i>ACS Nano</i> , 2018, 12, 759-767.	7.3	72
27	Simultaneous energy harvesting and storage <i>via</i> solar-driven regenerative electrochemical cycles. <i>Energy and Environmental Science</i> , 2019, 12, 3370-3379.	15.6	55
28	Super Water-Extracting Gels for Solar-Powered Volatile Organic Compounds Management in the Hydrological Cycle. <i>Advanced Materials</i> , 2022, 34, e2110548.	11.1	50
29	A Nanostructured Moisture-Absorbing Gel for Fast and Large-Scale Passive Dehumidification. <i>Advanced Materials</i> , 2022, 34, e2200865.	11.1	36
30	A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte. <i>Angewandte Chemie</i> , 2018, 130, 2118-2122.	1.6	34
31	Solar Water Purification: High-Yield and Low-Cost Solar Water Purification via Hydrogel-Based Membrane Distillation (Adv. Funct. Mater. 19/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170135.	7.8	4
32	Titelbild: A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte (Angew. Chem. 8/2018). <i>Angewandte Chemie</i> , 2018, 130, 2025-2025.	1.6	1
33	A Nanostructured Moisture-Absorbing Gel for Fast and Large-Scale Passive Dehumidification (Adv.) <i>TJ ETQq1 1 Q.784314 ggBT /Over</i>	11.1	