

# Fei Zhao

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33  
papers

4,980  
citations

27  
h-index

34  
g-index

34  
ext. papers

7,027  
ext. citations

24.6  
avg, IF

6.56  
L-index

#	Paper	IF	Citations
33	Highly efficient solar vapour generation via hierarchically nanostructured gels. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 489-495	28.7	825
32	A hydrogel-based antifouling solar evaporator for highly efficient water desalination. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1985-1992	35.4	393
31	A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 2096-2100	16.4	325
30	Materials for solar-powered water evaporation. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 388-401	73.3	318
29	Stretchable All-Gel-State Fiber-Shaped Supercapacitors Enabled by Macromolecularly Interconnected 3D Graphene/Nanostructured Conductive Polymer Hydrogels. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800124	24	304
28	Architecting highly hydratable polymer networks to tune the water state for solar water purification. <i>Science Advances</i> , <b>2019</b> , 5, eaaw5484	14.3	303
27	Hydrogels and Hydrogel-Derived Materials for Energy and Water Sustainability. <i>Chemical Reviews</i> , <b>2020</b> , 120, 7642-7707	68.1	266
26	Multifunctional Nanostructured Conductive Polymer Gels: Synthesis, Properties, and Applications. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 1734-1743	24.3	257
25	Biomass-Derived Hybrid Hydrogel Evaporators for Cost-Effective Solar Water Purification. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907061	24	221
24	Hydrogels as an Emerging Material Platform for Solar Water Purification. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 3244-3253	24.3	193
23	Synergistic Energy Nanoconfinement and Water Activation in Hydrogels for Efficient Solar Water Desalination. <i>ACS Nano</i> , <b>2019</b> , 13, 7913-7919	16.7	187
22	Tailoring Nanoscale Surface Topography of Hydrogel for Efficient Solar Vapor Generation. <i>Nano Letters</i> , <b>2019</b> , 19, 2530-2536	11.5	147
21	Super Moisture-Absorbent Gels for All-Weather Atmospheric Water Harvesting. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806446	24	144
20	Designing 3D nanostructured garnet frameworks for enhancing ionic conductivity and flexibility in composite polymer electrolytes for lithium batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 15, 46-52	19.4	139
19	Nanostructured Functional Hydrogels as an Emerging Platform for Advanced Energy Technologies. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801796	24	121
18	Electric power generation via asymmetric moisturizing of graphene oxide for flexible, printable and portable electronics. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1730-1735	35.4	115
17	Tailoring surface wetting states for ultrafast solar-driven water evaporation. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 2087-2095	35.4	105

16	Functional Hydrogels for Next-Generation Batteries and Supercapacitors. <i>Trends in Chemistry</i> , <b>2019</b> , 1, 335-348	14.8	103
15	Atmospheric Water Harvesting: A Review of Material and Structural Designs <b>2020</b> , 2, 671-684		102
14	Topology-Controlled Hydration of Polymer Network in Hydrogels for Solar-Driven Wastewater Treatment. <i>Advanced Materials</i> , <b>2020</b> , 32, e2007012	24	75
13	Cyanogel-Enabled Homogeneous Sb-Ni-C Ternary Framework Electrodes for Enhanced Sodium Storage. <i>ACS Nano</i> , <b>2018</b> , 12, 759-767	16.7	63
12	Spontaneous power source in ambient air of a well-directionally reduced graphene oxide bulk. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2839-2845	35.4	58
11	Balancing the mechanical, electronic, and self-healing properties in conductive self-healing hydrogel for wearable sensor applications. <i>Materials Horizons</i> , <b>2021</b> , 8, 1795-1804	14.4	50
10	Super Moisture Absorbent Gels for Sustainable Agriculture via Atmospheric Water Irrigation <b>2020</b> , 2, 1419-1422		36
9	Simultaneous energy harvesting and storage via solar-driven regenerative electrochemical cycles. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 3370-3379	35.4	31
8	High-Yield and Low-Cost Solar Water Purification via Hydrogel-Based Membrane Distillation. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101036	15.6	30
7	Solar Water Evaporation Toward Water Purification and Beyond <b>2021</b> , 3, 1112-1129		29
6	A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 2118-2122	3.6	24
5	A Nanostructured Moisture Absorbing Gel for Fast and Large-Scale Passive Dehumidification.. <i>Advanced Materials</i> , <b>2022</b> , e2200865	24	7
4	Super Water-Extracting Gels for Solar-Powered Volatile Organic Compounds Management in Hydrological Cycle.. <i>Advanced Materials</i> , <b>2022</b> , e2110548	24	5
3	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> , <b>2021</b> , 31, 2170135	15.6	3
2	Titelbild: A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte (Angew. Chem. 8/2018). <i>Angewandte Chemie</i> , <b>2018</b> , 130, 2025-2025	3.6	1
1	A Nanostructured Moisture-Absorbing Gel for Fast and Large-Scale Passive Dehumidification (Adv. Mater. 17/2022). <i>Advanced Materials</i> , <b>2022</b> , 34, 2270126	24	