Xuechen Liang

List of Publications by Year
in descending order

14	400	759233 12	1058476 14
papers	citations	h-index	g-index

14	14	14	499
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A robust PVA/C/sponge composite hydrogel with improved photothermal interfacial evaporation rate inspired by the chimney effect. Desalination, 2022, 531, 115720.	8.2	19
2	Efficient-heat-utilization 3D T-shaped porous sponge assists 2D photothermal films to achieve self-acting salt rejection and extra evaporation under high-concentration brine. Desalination, 2021, 499, 114806.	8.2	21
3	Review of interface solar-driven steam generation systems: High-efficiency strategies, applications and challenges. Applied Energy, 2021, 283, 116361.	10.1	55
4	Simple preparation of external-shape and internal-channel size adjustable porous hydrogels by fermentation for efficient solar interfacial evaporation. Solar Energy, 2020, 208, 778-786.	6.1	27
5	Direction-limited water transport and inhibited heat convection loss of gradient-structured hydrogels for highly efficient interfacial evaporation. Solar Energy, 2020, 201, 581-588.	6.1	26
6	A high-absorption and self-driven salt-resistant black gold nanoparticle-deposited sponge for highly efficient, salt-free, and long-term durable solar desalination. Journal of Materials Chemistry A, 2019, 7, 2581-2588.	10.3	103
7	A Novel Hyperbranched Polymeric Flocculant for Waste-Water Treatment. Journal of Polymers and the Environment, 2018, 26, 2782-2792.	5.0	15
8	A Novel Wastewater Treating Material: Cationic Poly Acrylamide/Diatomite Composite Flocculant. Journal of Polymers and the Environment, 2018, 26, 3051-3059.	5.0	9
9	Fabrication of shape-tunable macroparticles by seeded polymerization of styrene using non-cross-linked starch-based seed. Journal of Colloid and Interface Science, 2018, 512, 600-608.	9.4	26
10	Interfacial Activity of Starch-Based Nanoparticles at the Oilâ€“Water Interface. Langmuir, 2017, 33, 3787-3793.	3.5	37
11	Tough, rapid-recovery composite hydrogels fabricated via synergistic coreâ€“shell microgel covalent bonding and Fe³⁺coordination cross-linking. Soft Matter, 2017, 13, 2654-2662.	2.7	18
12	Synthesis and characterization of multi-sensitive microgel-based polyampholyte hydrogels with high mechanical strength. Colloid and Polymer Science, 2016, 294, 367-380.	2.1	16
13	In situ crosslinkable hydrogels formed from modified starch and O-carboxymethyl chitosan. RSC Advances, 2015, 5, 30303-30309.	3.6	23
14	The astonishing progress in performance of hydrogel triggered by the structure evolution of cross-linking junctions. RSC Advances, 2014, 4, 37812.	3.6	5