Xuanhao Wu

List of Publications by Year
in descending order

21 papers	1,126 citations	687363 13 h-index	713466 21 g-index
21 all docs	21 docs citations	21 times ranked	972 citing authors

#	Article	IF	Citations
1	Advances in solar evaporator materials for freshwater generation. Journal of Materials Chemistry A, 2019, 7, 24092-24123.	10.3	190
2	Localized heating with a photothermal polydopamine coating facilitates a novel membrane distillation process. Journal of Materials Chemistry A, 2018, 6, 18799-18807.	10.3	138
3	Cellulose Nanomaterials in Interfacial Evaporators for Desalination: A â€œNaturalâ€•Choice. Advanced Materials, 2021, 33, e2000922.	21.0	132
4	Photothermal Membrane Water Treatment for Two Worlds. Accounts of Chemical Research, 2019, 52, 1215-1225.	15.6	117
5	Environmental Materials beyond and below the Nanoscale: Single-Atom Catalysts. ACS ES&T Engineering, 2021, 1, 157-172.	7.6	88
6	Single-Atom Cobalt Incorporated in a 2D Graphene Oxide Membrane for Catalytic Pollutant Degradation. Environmental Science & Technology, 2022, 56, 1341-1351.	10.0	72
7	A thermally engineered polydopamine and bacterial nanocellulose bilayer membrane for photothermal membrane distillation with bactericidal capability. Nano Energy, 2021, 79, 105353.	16.0	68
8	Polydopamine/hydroxyapatite nanowire-based bilayered membrane for photothermal-driven membrane distillation. Journal of Materials Chemistry A, 2020, 8, 5147-5156.	10.3	61
9	Dissolved Organic Matter Affects Arsenic Mobility and Iron(III) (hydr)oxide Formation: Implications for Managed Aquifer Recharge. Environmental Science & Technology, 2019, 53, 14357-14367.	10.0	59
10	Achieving maximum recovery of latent heat in photothermally driven multi-layer stacked membrane distillation. Nano Energy, 2021, 80, 105444.	16.0	48
11	Classical and Nonclassical Nucleation and Growth Mechanisms for Nanoparticle Formation. Annual Review of Physical Chemistry, 2022, 73, 453-477.	10.8	32
12	MXene aerogel for efficient photothermally driven membrane distillation with dual-mode antimicrobial capability. Journal of Materials Chemistry A, 2021, 9, 22585-22596.	10.3	29
13	Opportunities and Challenges for Industrial Water Treatment and Reuse. ACS ES&T Engineering, 2022, 2, 465-488.	7.6	19
14	Effects of Phosphate, Silicate, and Bicarbonate on Arsenopyrite Dissolution and Secondary Mineral Precipitation. ACS Earth and Space Chemistry, 2020, 4, 515-525.	2.7	14
15	Elucidating the Role of Single-Atom Pd for Electrocatalytic Hydrodechlorination. Environmental Science & Technology, 2021, 55, 13306-13316.	10.0	12
16	A Protocol for Electrocatalyst Stability Evaluation: H₂O₂ Electrosynthesis for Industrial Wastewater Treatment. Environmental Science & Technology, 2022, 56, 1365-1375.	10.0	12
17	Interfacial and Activation Energies of Environmentally Abundant Heterogeneously Nucleated Iron(III) (Hydr)oxide on Quartz. Environmental Science & Technology, 2020, 54, 12119-12129.	10.0	11
18	Co-effects of UV/H2O2 and natural organic matter on the surface chemistry of cerium oxide nanoparticles. Environmental Science: Nano, 2018, 5, 2382-2393.	4.3	10

#	Article	IF	Citations
19	Redox chemistry of CeO₂nanoparticles in aquatic systems containing Cr(<scp>vi</scp>)(aq) and Fe²⁺ions. Environmental Science: Nano, 2019, 6, 2269-2280.	4.3	8
20	Effects of sulfate on biotite interfacial reactions under high temperature and high CO₂ pressure. Physical Chemistry Chemical Physics, 2019, 21, 6381-6390.	2.8	4
21	Arsenite oxyanions affect CeO2 nanoparticle dissolution and colloidal stability. Environmental Science: Nano, 2021, 8, 233-244.	4.3	2