Li Wang

List of Publications by Year
in descending order

26 papers	1,526 citations	361413 20 h-index	552781 26 g-index
26 all docs	26 docs citations	26 times ranked	1160 citing authors

#	Article	IF	Citations
1	Viability of Harvesting Salinity Gradient (Blue) Energy by Nanopore-Based Osmotic Power Generation. Engineering, 2022, 9, 51-60.	6.7	21
2	Mining Nontraditional Water Sources for a Distributed Hydrogen Economy. Environmental Science & Technology, 2022, 56, 10577-10585.	10.0	14
3	In-situ monitoring of polyelectrolytes adsorption kinetics by electrochemical impedance spectroscopy: Application in fabricating nanofiltration membranes via layer-by-layer deposition. Journal of Membrane Science, 2021, 619, 118747.	8.2	12
4	Comment on â€œTechno-economic analysis of capacitive and intercalative water deionizationâ€•by M. Metzger, M. Besli, S. Kuppan, S. Hellstrom, S. Kim, E. Sebti, C. Subban and J. Christensen, Energy Environ. Sci., 2020, 13, 1544. Energy and Environmental Science, 2021, 14, 2494-2498.	30.8	4
5	Flow Electrode Capacitive Deionization (FCDI): Recent Developments, Environmental Applications, and Future Perspectives. Environmental Science & Technology, 2021, 55, 4243-4267.	10.0	125
6	Correlation equation for evaluating energy consumption and process performance of brackish water desalination by electrodialysis. Desalination, 2021, 510, 115089.	8.2	8
7	Design principles and challenges of bench-scale high-pressure reverse osmosis up to 150Âbar. Desalination, 2021, 517, 115237.	8.2	22
8	Nanopore-Based Power Generation from Salinity Gradient: Why It Is Not Viable. ACS Nano, 2021, 15, 4093-4107.	14.6	101
9	Engineered Nanoconfinement Accelerating Spontaneous Manganese-Catalyzed Degradation of Organic Contaminants. Environmental Science & Technology, 2021, 55, 16708-16715.	10.0	50
10	Salt and Water Transport in Reverse Osmosis Membranes: Beyond the Solution-Diffusion Model. Environmental Science & Technology, 2021, 55, 16665-16675.	10.0	82
11	Membrane technologies for Li+/Mg2+ separation from salt-lake brines and seawater: A comprehensive review. Journal of Industrial and Engineering Chemistry, 2020, 81, 7-23.	5.8	186
12	Nutrient recovery from treated wastewater by a hybrid electrochemical sequence integrating bipolar membrane electrodialysis and membrane capacitive deionization. Environmental Science: Water Research and Technology, 2020, 6, 383-391.	2.4	33
13	Realtime and in-situ monitoring of membrane fouling with fiber-optic reflectance UV-vis spectrophotometry (FORUS). Chemical Engineering Journal Advances, 2020, 4, 100058.	5.2	1
14	Enhancing Performance of Capacitive Deionization with Polyelectrolyte-Infiltrated Electrodes: Theory and Experimental Validation. Environmental Science & Technology, 2020, 54, 5874-5883.	10.0	23
15	Quantifying the kinetics-energetics performance tradeoff in bipolar membrane electrodialysis. Journal of Membrane Science, 2020, 612, 118279.	8.2	22
16	Equivalent film-electrode model for flow-electrode capacitive deionization: Experimental validation and performance analysis. Water Research, 2020, 181, 115917.	11.3	22
17	Derivation of the Theoretical Minimum Energy of Separation of Desalination Processes. Journal of Chemical Education, 2020, 97, 4361-4369.	2.3	50
18	Highly compact, free-standing porous electrodes from polymer-derived nanoporous carbons for efficient electrochemical capacitive deionization. Journal of Materials Chemistry A, 2019, 7, 1768-1778.	10.3	47

#	Article	IF	Citations
19	Mechanism of Selective Ion Removal in Membrane Capacitive Deionization for Water Softening. Environmental Science & Technology, 2019, 53, 5797-5804.	10.0	115
20	Theoretical framework for designing a desalination plant based on membrane capacitive deionization. Water Research, 2019, 158, 359-369.	11.3	37
21	Energy Efficiency of Capacitive Deionization. Environmental Science & Technology, 2019, 53, 3366-3378.	10.0	184
22	Membrane Capacitive Deionization with Constant Current vs Constant Voltage Charging: Which Is Better?. Environmental Science & Technology, 2018, 52, 4051-4060.	10.0	75
23	Reversible thermodynamic cycle analysis for capacitive deionization with modified Donnan model. Journal of Colloid and Interface Science, 2018, 512, 522-528.	9.4	53
24	Intrinsic tradeoff between kinetic and energetic efficiencies in membrane capacitive deionization. Water Research, 2018, 129, 394-401.	11.3	86
25	Electron beam treatment for potable water reuse: Removal of bromate and perfluorooctanoic acid. Chemical Engineering Journal, 2016, 302, 58-68.	12.7	71
26	Evaluation on the toxicity of nanoAg to bovine serum albumin. Science of the Total Environment, 2009, 407, 4184-4188.	8.0	82