

Li Wang

List of Publications by Year in descending order

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Version: 2024-02-01

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	Membrane technologies for Li+/Mg ²⁺ separation from salt-lake brines and seawater: A comprehensive review. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 7-23.	5.8	186
2	Energy Efficiency of Capacitive Deionization. <i>Environmental Science & Technology</i> , 2019, 53, 3366-3378.	10.0	184
3	Flow Electrode Capacitive Deionization (FCDI): Recent Developments, Environmental Applications, and Future Perspectives. <i>Environmental Science & Technology</i> , 2021, 55, 4243-4267.	10.0	125
4	Mechanism of Selective Ion Removal in Membrane Capacitive Deionization for Water Softening. <i>Environmental Science & Technology</i> , 2019, 53, 5797-5804.	10.0	115
5	Nanopore-Based Power Generation from Salinity Gradient: Why It Is Not Viable. <i>ACS Nano</i> , 2021, 15, 4093-4107.	14.6	101
6	Intrinsic tradeoff between kinetic and energetic efficiencies in membrane capacitive deionization. <i>Water Research</i> , 2018, 129, 394-401.	11.3	86
7	Evaluation on the toxicity of nanoAg to bovine serum albumin. <i>Science of the Total Environment</i> , 2009, 407, 4184-4188.	8.0	82
8	Salt and Water Transport in Reverse Osmosis Membranes: Beyond the Solution-Diffusion Model. <i>Environmental Science & Technology</i> , 2021, 55, 16665-16675.	10.0	82
9	Membrane Capacitive Deionization with Constant Current vs Constant Voltage Charging: Which Is Better?. <i>Environmental Science & Technology</i> , 2018, 52, 4051-4060.	10.0	75
10	Electron beam treatment for potable water reuse: Removal of bromate and perfluorooctanoic acid. <i>Chemical Engineering Journal</i> , 2016, 302, 58-68.	12.7	71
11	Reversible thermodynamic cycle analysis for capacitive deionization with modified Donnan model. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 522-528.	9.4	53
12	Derivation of the Theoretical Minimum Energy of Separation of Desalination Processes. <i>Journal of Chemical Education</i> , 2020, 97, 4361-4369.	2.3	50
13	Engineered Nanoconfinement Accelerating Spontaneous Manganese-Catalyzed Degradation of Organic Contaminants. <i>Environmental Science & Technology</i> , 2021, 55, 16708-16715.	10.0	50
14	Highly compact, free-standing porous electrodes from polymer-derived nanoporous carbons for efficient electrochemical capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1768-1778.	10.3	47
15	Theoretical framework for designing a desalination plant based on membrane capacitive deionization. <i>Water Research</i> , 2019, 158, 359-369.	11.3	37
16	Nutrient recovery from treated wastewater by a hybrid electrochemical sequence integrating bipolar membrane electrodialysis and membrane capacitive deionization. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 383-391.	2.4	33
17	Enhancing Performance of Capacitive Deionization with Polyelectrolyte-Infiltrated Electrodes: Theory and Experimental Validation. <i>Environmental Science & Technology</i> , 2020, 54, 5874-5883.	10.0	23
18	Quantifying the kinetics-energetics performance tradeoff in bipolar membrane electrodialysis. <i>Journal of Membrane Science</i> , 2020, 612, 118279.	8.2	22

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19	Design principles and challenges of bench-scale high-pressure reverse osmosis up to 150Âbar. <i>Desalination</i> , 2021, 517, 115237.	8.2	22
20	Equivalent film-electrode model for flow-electrode capacitive deionization: Experimental validation and performance analysis. <i>Water Research</i> , 2020, 181, 115917.	11.3	22
21	Viability of Harvesting Salinity Gradient (Blue) Energy by Nanopore-Based Osmotic Power Generation. <i>Engineering</i> , 2022, 9, 51-60.	6.7	21
22	Mining Nontraditional Water Sources for a Distributed Hydrogen Economy. <i>Environmental Science & Technology</i> , 2022, 56, 10577-10585.	10.0	14
23	In-situ monitoring of polyelectrolytes adsorption kinetics by electrochemical impedance spectroscopy: Application in fabricating nanofiltration membranes via layer-by-layer deposition. <i>Journal of Membrane Science</i> , 2021, 619, 118747.	8.2	12
24	Correlation equation for evaluating energy consumption and process performance of brackish water desalination by electrodialysis. <i>Desalination</i> , 2021, 510, 115089.	8.2	8
25	Comment on "Techno-economic analysis of capacitive and intercalative water deionization" by M. Metzger, M. Besli, S. Kuppan, S. Hellstrom, S. Kim, E. Sebti, C. Subban and J. Christensen, <i>Energy Environ. Sci.</i> , 2020, 13, 1544. <i>Energy and Environmental Science</i> , 2021, 14, 2494-2498.	30.8	4
26	Realtime and in-situ monitoring of membrane fouling with fiber-optic reflectance UV-vis spectrophotometry (FORUS). <i>Chemical Engineering Journal Advances</i> , 2020, 4, 100058.	5.2	1