Matthew E Suss

List of Publications by Year
in descending order

26	3,935	516561 16	610775 24
papers	citations	h-index	g-index

26	26	26	3869
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Water desalination via capacitive deionization: what is it and what can we expect from it?. Energy and Environmental Science, 2015, 8, 2296-2319.	15.6	1,273
2	Advanced carbon aerogels for energy applications. Energy and Environmental Science, 2011, 4, 656.	15.6	576
3	MXene as a novel intercalation-type pseudocapacitive cathode and anode for capacitive deionization. Journal of Materials Chemistry A, 2016, 4, 18265-18271.	5.2	358
4	Capacitive desalination with flow-through electrodes. Energy and Environmental Science, 2012, 5, 9511.	15.6	334
5	Water Desalination with Energy Storage Electrode Materials. Joule, 2018, 2, 10-15.	11.7	217
6	Carbon electrodes for capacitive technologies. Energy Storage Materials, 2019, 16, 126-145.	9.5	214
7	Fluidized bed electrodes with high carbon loading for water desalination by capacitive deionization. Journal of Materials Chemistry A, 2016, 4, 3642-3647.	5.2	140
8	Theory of Water Desalination by Porous Electrodes with Immobile Chemical Charge. Colloids and Interface Science Communications, 2015, 9, 1-5.	2.0	119
9	Water purification by shock electrodialysis: Deionization, filtration, separation, and disinfection. Desalination, 2015, 357, 77-83.	4.0	101
10	Enhanced performance stability of carbon/titania hybrid electrodes during capacitive deionization of oxygen saturated saline water. Electrochimica Acta, 2017, 224, 314-328.	2.6	98
11	Basic principles of electrolyte chemistry for microfluidic electrokinetics. Part II: Coupling between ion mobility, electrolysis, and acidâ€“base equilibria. Lab on A Chip, 2009, 9, 2454.	3.1	94
12	Impedance-based study of capacitive porous carbon electrodes with hierarchical and bimodal porosity. Journal of Power Sources, 2013, 241, 266-273.	4.0	82
13	A one-dimensional model for water desalination by flow-through electrode capacitive deionization. Desalination, 2017, 415, 8-13.	4.0	82
14	Unraveling the potential and pore-size dependent capacitance of slit-shaped graphitic carbon pores in aqueous electrolytes. Physical Chemistry Chemical Physics, 2013, 15, 2309.	1.3	79
15	Scalable and Continuous Water Deionization by Shock Electrodialysis. Environmental Science and Technology Letters, 2015, 2, 367-372.	3.9	78
16	Suspension Electrodes Combining Slurries and Upflow Fluidized Beds. ChemSusChem, 2016, 9, 3045-3048.	3.6	31
17	Theory of Flow Batteries with Fast Homogeneous Chemical Reactions. Journal of the Electrochemical Society, 2018, 165, A3820-A3827.	1.3	16
18	Predicting ion selectivity in water purification by capacitive deionization: Electric double layer models. Current Opinion in Colloid and Interface Science, 2022, 60, 101602.	3.4	10

#	Article	IF	Citations
19	Single-flow multiphase flow batteries: Theory. Electrochimica Acta, 2021, 389, 138554.	2.6	7
20	Spatial variations of pH in electrodialysis stacks: Theory. Electrochimica Acta, 2022, 413, 140151.	2.6	7
21	Internet of Things enabled environmental condition monitoring driven by laser ablated reduced graphene oxide based Al-air fuel cell. Journal of Power Sources, 2022, 521, 230938.	4.0	6
22	Chloride-Tolerant, Inexpensive Fe/N/C Catalysts for Desalination Fuel Cell Cathodes. ACS Applied Energy Materials, 2022, 5, 1743-1754.	2.5	5
23	Emerging investigator series: a comparison of strong and weak-acid functionalized carbon electrodes in capacitive deionization. Environmental Science: Water Research and Technology, 2022, 8, 949-956.	1.2	4
24	Single-flow multiphase flow batteries: Experiments. Journal of Power Sources, 2022, 540, 231567.	4.0	4
25	Modelling the fluid mechanics in single-flow batteries with an adjacent channel for improved reactant transport. Flow, 2022, 2, .	1.0	0
26	Scaling Up the Simultaneous Production of Clean Electricity and Clean Water. Journal of the Electrochemical Society, 0, , .	1.3	0