Eran Avraham

List of Publications by Year
in descending order

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24 papers	1,422 citations	567281 15 h-index	610901 24 g-index
24 all docs	24 docs citations	24 times ranked	899 citing authors

#	Article	IF	Citations
1	Long term stability of capacitive de-ionization processes for water desalination: The challenge of positive electrodes corrosion. Electrochimica Acta, 2013, 106, 91-100.	5.2	228
2	The effect of the flow-regime, reversal of polarization, and oxygen on the long term stability in capacitive de-ionization processes. Electrochimica Acta, 2015, 153, 106-114.	5.2	138
3	Capacitive Deionization of NaCl Solutions at Non-Steady-State Conditions: Inversion Functionality of the Carbon Electrodes. Journal of Physical Chemistry C, 2011, 115, 16567-16573.	3.1	125
4	Enhanced Charge Efficiency in Capacitive Deionization Achieved by Surface-Treated Electrodes and by Means of a Third Electrode. Journal of Physical Chemistry C, 2011, 115, 19856-19863.	3.1	120
5	Side Reactions in Capacitive Deionization (CDI) Processes: The Role of Oxygen Reduction. Electrochimica Acta, 2016, 220, 285-295.	5.2	99
6	Limitations of charge efficiency in capacitive deionization processes III: The behavior of surface oxidized activated carbon electrodes. Electrochimica Acta, 2010, 56, 441-447.	5.2	90
7	Limitation of Charge Efficiency in Capacitive Deionization. Journal of the Electrochemical Society, 2009, 156, P95.	2.9	89
8	Limitations of Charge Efficiency in Capacitive Deionization. Journal of the Electrochemical Society, 2009, 156, P157.	2.9	87
9	Capacitive deionization for wastewater treatment: Opportunities and challenges. Chemosphere, 2020, 241, 125003.	8.2	75
10	Developing Ion Electroadsorption Stereoselectivity, by Pore Size Adjustment with Chemical Vapor Deposition onto Active Carbon Fiber Electrodes. Case of Ca²⁺/Na⁺ Separation in Water Capacitive Desalination. Journal of Physical Chemistry C, 2008, 112, 7385-7389.	3.1	74
11	The Dependence of the Desalination Performance in Capacitive Deionization Processes on the Electrodes PZC. Journal of the Electrochemical Society, 2011, 158, P168.	2.9	68
12	The feasibility of boron removal from water by capacitive deionization. Electrochimica Acta, 2011, 56, 6312-6317.	5.2	68
13	Bromide Ions Specific Removal and Recovery by Electrochemical Desalination. Environmental Science & Technology, 2018, 52, 6275-6281.	10.0	44
14	Development of Anion Stereoselective, Activated Carbon Molecular Sieve Electrodes Prepared by Chemical Vapor Deposition. Journal of Physical Chemistry C, 2009, 113, 7316-7321.	3.1	35
15	Enhanced capacitive deionization of an integrated membrane electrode by thin layer spray-coating of ion exchange polymers on activated carbon electrode. Desalination, 2020, 491, 114460.	8.2	17
16	Several basic and practical aspects related to electrochemical deionization of water. AICHE Journal, 2010, 56, 779-789.	3.6	14
17	Energy extraction and water treatment in one system: The idea of using a desalination battery in a cooling tower. Journal of Power Sources, 2018, 378, 146-152.	7.8	11
18	Thermally reduced graphene oxide as an electrode for CDI processes: A compromise between performance and scalability?. Desalination, 2020, 492, 114599.	8.2	11

#	Article	IF	Citations
19	The Feasibility of Energy Extraction from Acidic Wastewater by Capacitive Mixing with a Molecularâ€Sieving Carbon Electrode. ChemSusChem, 2016, 9, 3426-3433.	6.8	9
20	Proton-selective electrode for pH sensing. Electrochemistry Communications, 2016, 73, 80-84.	4.7	6
21	The Ratio between the Surface Charge and Electrode's Capacitance as a Fast Tool for Assessing the Charge Efficiency in Capacitive Deionization Processes. Journal of the Electrochemical Society, 2019, 166, H119-H125.	2.9	6
22	Anion-Exclusion Carbon Electrodes for Energy Storage and Conversion by Capacitive Mixing. Journal of the Electrochemical Society, 2017, 164, A1933-A1938.	2.9	5
23	Combined nanofiltration and advanced oxidation processes with bifunctional carbon nanomembranes. RSC Advances, 2021, 11, 14777-14786.	3.6	2
24	The feasibility of energy extraction by carbon xerogel electrodes â€“ A question of ionizable or redox active surface groups?. Electrochimica Acta, 2019, 299, 582-591.	5.2	1