Eran Avraham

List of Publications by Year
in descending order

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Version: 2024-02-01

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	Combined nanofiltration and advanced oxidation processes with bifunctional carbon nanomembranes. RSC Advances, 2021, 11, 14777-14786.	3.6	2
2	Capacitive deionization for wastewater treatment: Opportunities and challenges. Chemosphere, 2020, 241, 125003.	8.2	75
3	Thermally reduced graphene oxide as an electrode for CDI processes: A compromise between performance and scalability?. Desalination, 2020, 492, 114599.	8.2	11
4	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
5	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
6	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
7	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
8	Bromide Ions Specific Removal and Recovery by Electrochemical Desalination. Environmental Science & Technology, 2018, 52, 6275-6281.	10.0	44
9	Anion-Exclusion Carbon Electrodes for Energy Storage and Conversion by Capacitive Mixing. Journal of the Electrochemical Society, 2017, 164, A1933-A1938.	2.9	5
10	Proton-selective electrode for pH sensing. Electrochemistry Communications, 2016, 73, 80-84.	4.7	6
11	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
12	Side Reactions in Capacitive Deionization (CDI) Processes: The Role of Oxygen Reduction. Electrochimica Acta, 2016, 220, 285-295.	5.2	99
13	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
14	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
15	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
16	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
17	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
18	The feasibility of boron removal from water by capacitive deionization. Electrochimica Acta, 2011, 56, 6312-6317.	5.2	68

#	Article	IF	Citations
19	Several basic and practical aspects related to electrochemical deionization of water. AICHE Journal, 2010, 56, 779-789.	3.6	14
20	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
21	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
22	Limitations of Charge Efficiency in Capacitive Deionization. Journal of the Electrochemical Society, 2009, 156, P157.	2.9	87
23	Limitation of Charge Efficiency in Capacitive Deionization. Journal of the Electrochemical Society, 2009, 156, P95.	2.9	89
24	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