

A Van Der Wal

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

5,661
citations

304743

22
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

2651
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on the science and technology of water desalination by capacitive deionization. <i>Progress in Materials Science</i> , 2013, 58, 1388-1442.	32.8	1,648
2	Membrane capacitive deionization. <i>Journal of Membrane Science</i> , 2010, 346, 256-262.	8.2	464
3	Energy consumption and constant current operation in membrane capacitive deionization. <i>Energy and Environmental Science</i> , 2012, 5, 9520.	30.8	439
4	Theory of membrane capacitive deionization including the effect of the electrode pore space. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 239-248.	9.4	374
5	Water Desalination Using Capacitive Deionization with Microporous Carbon Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1194-1199.	8.0	374
6	Charge Efficiency: A Functional Tool to Probe the Double-Layer Structure Inside of Porous Electrodes and Application in the Modeling of Capacitive Deionization. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 205-210.	4.6	334
7	Energy consumption in membrane capacitive deionization for different water recoveries and flow rates, and comparison with reverse osmosis. <i>Desalination</i> , 2013, 330, 35-41.	8.2	301
8	Optimization of salt adsorption rate in membrane capacitive deionization. <i>Water Research</i> , 2013, 47, 1941-1952.	11.3	276
9	Time-dependent ion selectivity in capacitive charging of porous electrodes. <i>Journal of Colloid and Interface Science</i> , 2012, 384, 38-44.	9.4	213
10	Enhanced charge efficiency and reduced energy use in capacitive deionization by increasing the discharge voltage. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 317-326.	9.4	184
11	Dynamic Adsorption/Desorption Process Model for Capacitive Deionization. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5636-5640.	3.1	173
12	Theory of pH changes in water desalination by capacitive deionization. <i>Water Research</i> , 2017, 119, 178-186.	11.3	160
13	Effect of electrode thickness variation on operation of capacitive deionization. <i>Electrochimica Acta</i> , 2012, 75, 148-156.	5.2	158
14	Resistance identification and rational process design in Capacitive Deionization. <i>Water Research</i> , 2016, 88, 358-370.	11.3	155
15	Energy consumption in capacitive deionization – Constant current versus constant voltage operation. <i>Water Research</i> , 2018, 143, 367-375.	11.3	93
16	Water and chemical savings in cooling towers by using membrane capacitive deionization. <i>Desalination</i> , 2014, 342, 148-155.	8.2	62
17	Selective adsorption of nitrate over chloride in microporous carbons. <i>Water Research</i> , 2019, 164, 114885.	11.3	53
18	On-line method to study dynamics of ion adsorption from mixtures of salts in capacitive deionization. <i>Desalination</i> , 2016, 390, 47-52.	8.2	46

#	ARTICLE	IF	CITATIONS
19	Slowly biodegradable organic compounds impact the biostability of non-chlorinated drinking water produced from surface water. <i>Water Research</i> , 2018, 129, 240-251.	11.3	40
20	Heterogeneous anion exchange membranes with nitrate selectivity and low electrical resistance. <i>Journal of Membrane Science</i> , 2020, 607, 118000.	8.2	33
21	Capacitive deionization with wire-shaped electrodes. <i>Electrochimica Acta</i> , 2018, 270, 165-173.	5.2	30
22	Enhancing biological stability of disinfectant-free drinking water by reducing high molecular weight organic compounds with ultrafiltration posttreatment. <i>Water Research</i> , 2019, 164, 114927.	11.3	25
23	Strategies to increase ion selectivity in electrodialysis. <i>Separation and Purification Technology</i> , 2022, 292, 120944.	7.9	19
24	The significance of the biomass subfraction of high-MW organic carbon for the microbial growth and maintenance potential of disinfectant-free drinking water produced from surface water. <i>Water Research</i> , 2022, 209, 117898.	11.3	7