A Van Der Wal

List of Publications by Year
in descending order

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	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. Water Research, 2022, 209, 117898.	11.3	7
2	Strategies to increase ion selectivity in electrodialysis. Separation and Purification Technology, 2022, 292, 120944.	7.9	19
3	Heterogeneous anion exchange membranes with nitrate selectivity and low electrical resistance. Journal of Membrane Science, 2020, 607, 118000.	8.2	33
4	Enhancing biological stability of disinfectant-free drinking water by reducing high molecular weight organic compounds with ultrafiltration posttreatment. Water Research, 2019, 164, 114927.	11.3	25
5	Selective adsorption of nitrate over chloride in microporous carbons. Water Research, 2019, 164, 114885.	11.3	53
6	Capacitive deionization with wire-shaped electrodes. Electrochimica Acta, 2018, 270, 165-173.	5.2	30
7	Slowly biodegradable organic compounds impact the biostability of non-chlorinated drinking water produced from surface water. Water Research, 2018, 129, 240-251.	11.3	40
8	Energy consumption in capacitive deionization â€“ Constant current versus constant voltage operation. Water Research, 2018, 143, 367-375.	11.3	93
9	Theory of pH changes in water desalination by capacitive deionization. Water Research, 2017, 119, 178-186.	11.3	160
10	On-line method to study dynamics of ion adsorption from mixtures of salts in capacitive deionization. Desalination, 2016, 390, 47-52.	8.2	46
11	Resistance identification and rational process design in Capacitive Deionization. Water Research, 2016, 88, 358-370.	11.3	155
12	Enhanced charge efficiency and reduced energy use in capacitive deionization by increasing the discharge voltage. Journal of Colloid and Interface Science, 2015, 446, 317-326.	9.4	184
13	Water and chemical savings in cooling towers by using membrane capacitive deionization. Desalination, 2014, 342, 148-155.	8.2	62
14	Optimization of salt adsorption rate in membrane capacitive deionization. Water Research, 2013, 47, 1941-1952.	11.3	276
15	Review on the science and technology of water desalination by capacitive deionization. Progress in Materials Science, 2013, 58, 1388-1442.	32.8	1,648
16	Energy consumption in membrane capacitive deionization for different water recoveries and flow rates, and comparison with reverse osmosis. Desalination, 2013, 330, 35-41.	8.2	301
17	Time-dependent ion selectivity in capacitive charging of porous electrodes. Journal of Colloid and Interface Science, 2012, 384, 38-44.	9.4	213
18	Energy consumption and constant current operation in membrane capacitive deionization. Energy and Environmental Science, 2012, 5, 9520.	30.8	439

#	Article	IF	Citations
19	Water Desalination Using Capacitive Deionization with Microporous Carbon Electrodes. ACS Applied Materials & Interfaces, 2012, 4, 1194-1199.	8.0	374
20	Effect of electrode thickness variation on operation of capacitive deionization. Electrochimica Acta, 2012, 75, 148-156.	5.2	158
21	Theory of membrane capacitive deionization including the effect of the electrode pore space. Journal of Colloid and Interface Science, 2011, 360, 239-248.	9.4	374
22	Membrane capacitive deionization. Journal of Membrane Science, 2010, 346, 256-262.	8.2	464
23	Charge Efficiency: A Functional Tool to Probe the Double-Layer Structure Inside of Porous Electrodes and Application in the Modeling of Capacitive Deionization. Journal of Physical Chemistry Letters, 2010, 1, 205-210.	4.6	334
24	Dynamic Adsorption/Desorption Process Model for Capacitive Deionization. Journal of Physical Chemistry C, 2009, 113, 5636-5640.	3.1	173