

# Jouke Dykstra

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

1,212  
citations

471509

17  
h-index

713466

21  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1005  
citing authors

#	ARTICLE	IF	CITATIONS
1	New parametrization method for salt permeability of reverse osmosis desalination membranes. , 2022, 2, 100010.		16
2	Tutorial review of reverse osmosis and electrodialysis. Journal of Membrane Science, 2022, 647, 120221.	8.2	55
3	Strategies to increase ion selectivity in electrodialysis. Separation and Purification Technology, 2022, 292, 120944.	7.9	19
4	Treatment vs. transport: A framework for assessing the trade-offs between on-site desalination and off-site water sourcing for an industrial case study. Journal of Cleaner Production, 2021, 285, 124901.	9.3	0
5	Theory of transport and recovery in microbial electrosynthesis of acetate from $\text{CO}_2$ . <i>Electrochimica Acta</i> , 2021, 379, 138029.	5.2	9
6	WaterROUTE: A model for cost optimization of industrial water supply networks when using water resources with varying salinity. Water Research, 2021, 202, 117390.	11.3	9
7	Unravelling pH Changes in Electrochemical Desalination with Capacitive Deionization. <i>Environmental Science &amp; Technology</i> , 2021, 55, 14165-14172.	10.0	19
8	Electrochemical removal of amphoteric ions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21
9	Salt and Water Transport in Reverse Osmosis Membranes: Beyond the Solution-Diffusion Model. <i>Environmental Science &amp; Technology</i> , 2021, 55, 16665-16675.	10.0	82
10	Role of ion exchange membranes and capacitive electrodes in membrane capacitive deionization (MCDI) for CO <sub>2</sub> capture. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 478-490.	9.4	37
11	Energy consumption in membrane capacitive deionization and comparison with reverse osmosis. <i>Desalination</i> , 2020, 488, 114383.	8.2	64
12	Water supply network model for sustainable industrial resource use a case study of Zeeuws-Vlaanderen in the Netherlands. <i>Water Resources and Industry</i> , 2020, 24, 100131.	3.9	9
13	Modification of Cation-Exchange Membranes with Polyelectrolyte Multilayers to Tune Ion Selectivity in Capacitive Deionization. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 34746-34754.	8.0	45
14	Selective adsorption of nitrate over chloride in microporous carbons. <i>Water Research</i> , 2019, 164, 114885.	11.3	53
15	Theory of Ion and Electron Transport Coupled with Biochemical Conversions in an Electroactive Biofilm. <i>Physical Review Applied</i> , 2019, 12, .	3.8	18
16	Exceptional Water Desalination Performance with Anion-Selective Electrodes. <i>Advanced Materials</i> , 2019, 31, e1806937.	21.0	59
17	Capacitive deionization with wire-shaped electrodes. <i>Electrochimica Acta</i> , 2018, 270, 165-173.	5.2	30
18	Energy consumption in capacitive deionization – Constant current versus constant voltage operation. <i>Water Research</i> , 2018, 143, 367-375.	11.3	93

#	ARTICLE	IF	CITATIONS
19	Theory of pH changes in water desalination by capacitive deionization. <i>Water Research</i> , 2017, 119, 178-186.	11.3	160
20	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
21	Resistance identification and rational process design in Capacitive Deionization. <i>Water Research</i> , 2016, 88, 358-370.	11.3	155
22	Energy from CO <sub>2</sub> using capacitive electrodes – A model for energy extraction cycles. <i>Journal of Colloid and Interface Science</i> , 2015, 442, 103-109.	9.4	29
23	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