

# Kitty Nijmeijer

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

4,109  
citations

201575

27  
h-index

175177

52  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2596  
citing authors

#	ARTICLE	IF	CITATIONS
1	Doubled Power Density from Salinity Gradients at Reduced Intermembrane Distance. <i>Environmental Science &amp; Technology</i> , 2011, 45, 7089-7095.	4.6	334
2	On the resistances of membrane, diffusion boundary layer and double layer in ion exchange membrane transport. <i>Journal of Membrane Science</i> , 2010, 349, 369-379.	4.1	296
3	Salinity Gradients for Sustainable Energy: Primer, Progress, and Prospects. <i>Environmental Science &amp; Technology</i> , 2016, 50, 12072-12094.	4.6	261
4	Power generation using profiled membranes in reverse electrodialysis. <i>Journal of Membrane Science</i> , 2011, 385-386, 234-242.	4.1	232
5	Performance-determining membrane properties in reverse electrodialysis. <i>Journal of Membrane Science</i> , 2013, 446, 266-276.	4.1	226
6	Monovalent-ion-selective membranes for reverse electrodialysis. <i>Journal of Membrane Science</i> , 2014, 455, 254-270.	4.1	225
7	Progress and prospects in reverse electrodialysis for salinity gradient energy conversion and storage. <i>Applied Energy</i> , 2018, 225, 290-331.	5.1	214
8	Fouling in reverse electrodialysis under natural conditions. <i>Water Research</i> , 2013, 47, 1289-1298.	5.3	210
9	Influence of multivalent ions on renewable energy generation in reverse electrodialysis. <i>Energy and Environmental Science</i> , 2014, 7, 1434-1445.	15.6	179
10	Thermodynamic, Energy Efficiency, and Power Density Analysis of Reverse Electrodialysis Power Generation with Natural Salinity Gradients. <i>Environmental Science &amp; Technology</i> , 2014, 48, 4925-4936.	4.6	177
11	Ion conductive spacers for increased power generation in reverse electrodialysis. <i>Journal of Membrane Science</i> , 2010, 347, 101-107.	4.1	174
12	High pressure gas separation performance of mixed-matrix polymer membranes containing mesoporous Fe(BTC). <i>Journal of Membrane Science</i> , 2014, 459, 33-44.	4.1	148
13	High Efficiency in Energy Generation from Salinity Gradients with Reverse Electrodialysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1295-1302.	3.2	143
14	The role of ionic strength and odd-even effects on the properties of polyelectrolyte multilayer nanofiltration membranes. <i>Journal of Membrane Science</i> , 2015, 475, 311-319.	4.1	132
15	Periodic Feedwater Reversal and Air Sparging As Antifouling Strategies in Reverse Electrodialysis. <i>Environmental Science &amp; Technology</i> , 2014, 48, 3065-3073.	4.6	95
16	Effect of Divalent Cations on RED Performance and Cation Exchange Membrane Selection to Enhance Power Densities. <i>Environmental Science &amp; Technology</i> , 2017, 51, 13028-13035.	4.6	75
17	Multistage electrodialysis for desalination of natural seawater. <i>Desalination</i> , 2021, 505, 114973.	4.0	75
18	Tuning of mass transport properties of multi-block copolymers for CO <sub>2</sub> capture applications. <i>Journal of Membrane Science</i> , 2010, 359, 54-63.	4.1	66

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19	Layer-by-layer coatings on ion exchange membranes: Effect of multilayer charge and hydration on monovalent ion selectivities. <i>Journal of Membrane Science</i> , 2019, 570-571, 513-521.	4.1	66
20	Improved fluid mixing and power density in reverse electrodialysis stacks with chevron-profiled membranes. <i>Journal of Membrane Science</i> , 2017, 531, 111-121.	4.1	64
21	Upscaling Reverse Electrodialysis. <i>Environmental Science &amp; Technology</i> , 2018, 52, 10856-10863.	4.6	64
22	Subambient Temperature CO <sub>2</sub> and Light Gas Permeation Through Segmented Block Copolymers with Tailored Soft Phase. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 551-560.	4.0	51
23	Building Polyzwitterion-Based Multilayers for Responsive Membranes. <i>Langmuir</i> , 2014, 30, 5152-5161.	1.6	43
24	Early detection of preferential channeling in reverse electrodialysis. <i>Electrochimica Acta</i> , 2014, 117, 9-17.	2.6	41
25	Divalent Cation Removal by Donnan Dialysis for Improved Reverse Electrodialysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7035-7041.	3.2	39
26	Anisotropic Dye Adsorption and Anhydrous Proton Conductivity in Smectic Liquid Crystal Networks: The Role of Cross-Link Density, Order, and Orientation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 35218-35225.	4.0	38
27	Non-Solvent Induced Phase Separation Enables Designer Redox Flow Battery Electrodes. <i>Advanced Materials</i> , 2021, 33, e2006716.	11.1	35
28	Electrochemical impedance spectroscopy of a reverse electrodialysis stack: A new approach to monitoring fouling and cleaning. <i>Journal of Power Sources</i> , 2019, 444, 227302.	4.0	30
29	Electrode segmentation in reverse electrodialysis: Improved power and energy efficiency. <i>Desalination</i> , 2020, 492, 114604.	4.0	30
30	Influence of charge density and ionic strength on diallyldimethylammonium chloride (DADMAC)-based polyelectrolyte multilayer membrane formation. <i>Journal of Membrane Science</i> , 2021, 617, 118619.	4.1	30
31	Influence of sulfate on anion exchange membranes in reverse electrodialysis. <i>Npj Clean Water</i> , 2020, 3, .	3.1	29
32	Self-assembling liquid crystals as building blocks to design nanoporous membranes suitable for molecular separations. <i>Journal of Membrane Science</i> , 2021, 620, 118849.	4.1	28
33	Performance mapping of cation exchange membranes for hydrogen-bromine flow batteries for energy storage. <i>Journal of Membrane Science</i> , 2018, 566, 406-414.	4.1	24
34	Plasticization behavior of crown-ether containing polyimide membranes for the separation of CO <sub>2</sub> . <i>Separation and Purification Technology</i> , 2021, 255, 117307.	3.9	21
35	Techno-Economic Analysis of a Kilo-Watt Scale Hydrogen-Bromine Flow Battery System for Sustainable Energy Storage. <i>Processes</i> , 2020, 8, 1492.	1.3	20
36	Predicting reverse electrodialysis performance in the presence of divalent ions for renewable energy generation. <i>Energy Conversion and Management</i> , 2021, 243, 114369.	4.4	20

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37	Tailoring the Surface Chemistry of Anion Exchange Membranes with Zwitterions: Toward Antifouling RED Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 18348-18357.	4.0	18
38	Proton conductive cationic nanoporous polymers based on smectic liquid crystal hydrogen-bonded heterodimers. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5018-5024.	2.7	17
39	Current utilization in electrodialysis: Electrode segmentation as alternative for multistaging. <i>Desalination</i> , 2020, 480, 114243.	4.0	16
40	Entanglement-Enhanced Water Dissociation in Bipolar Membranes with 3D Electrospun Junction and Polymeric Catalyst. <i>ACS Applied Energy Materials</i> , 2021, 4, 3724-3736.	2.5	16
41	Development of Polydopamine Forward Osmosis Membranes with Low Reverse Salt Flux. <i>Membranes</i> , 2020, 10, 94.	1.4	15
42	Effect of Bromine Complexing Agents on Membrane Performance in Hydrogen Bromine Flow Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3004-A3010.	1.3	13
43	In situ long-term membrane performance evaluation of hydrogen-bromine flow batteries. <i>Journal of Energy Storage</i> , 2020, 27, 101068.	3.9	13
44	Magnetically Aligned and Enriched Pathways of Zeolitic Imidazolate Framework 8 in Matrimid Mixed Matrix Membranes for Enhanced CO <sub>2</sub> Permeability. <i>Membranes</i> , 2020, 10, 155.	1.4	13
45	On the Order and Orientation in Liquid Crystalline Polymer Membranes for Gas Separation. <i>Chemistry of Materials</i> , 2021, 33, 8323-8333.	3.2	12
46	Investigation of ZIF-78 Morphology and Feed Composition on the Mixed Gas CO <sub>2</sub> /N <sub>2</sub> Separation Performance in Mixed Matrix Membranes. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001478.	1.9	11
47	Asymmetric layer-by-layer polyelectrolyte nanofiltration membranes with tunable retention. <i>Journal of Polymer Science</i> , 2021, 59, 1293-1304.	2.0	10
48	Effect of Osmotic Pressure on Whey Protein Concentration in Forward Osmosis. <i>Membranes</i> , 2021, 11, 573.	1.4	5
49	Apple Juice, Manure and Whey Concentration with Forward Osmosis Using Electrospun Supported Thin-Film Composite Membranes. <i>Membranes</i> , 2022, 12, 456.	1.4	5
50	Low-cost wire-electrospun sulfonated poly(ether ether ketone)/poly(vinylidene fluoride) blend membranes for hydrogen-bromine flow batteries. <i>Journal of Membrane Science</i> , 2021, 628, 119258.	4.1	4
51	Non-Globular Organic Ionic Plastic Crystal Containing a Crown Ether Moiety – Tuning Its Behaviour Using Sodium Salts. <i>ChemPhysChem</i> , 2022, 23, .	1.0	4
52	Wire based electrospun composite short side chain perfluorosulfonic acid/polyvinylidene fluoride membranes for hydrogen-bromine flow batteries. <i>Journal of Power Sources</i> , 2021, 497, 229812.	4.0	2
53	Redox Flow Batteries: Non-Solvent Induced Phase Separation Enables Designer Redox Flow Battery Electrodes (Adv. Mater. 16/2021). <i>Advanced Materials</i> , 2021, 33, 2170126.	11.1	0