Kitty Nijmeijer

List of Publications by Year
in descending order

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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	Apple Juice, Manure and Whey Concentration with Forward Osmosis Using Electrospun Supported Thin-Film Composite Membranes. Membranes, 2022, 12, 456.	1.4	5
2	Nonâ€Globular Organic Ionic Plastic Crystal Containing a Crownâ€Ether Moiety â€“ Tuning Its Behaviour Using Sodium Salts. ChemPhysChem, 2022, 23, .	1.0	4
3	Plasticization behavior of crown-ether containing polyimide membranes for the separation of CO2. Separation and Purification Technology, 2021, 255, 117307.	3.9	21
4	Self-assembling liquid crystals as building blocks to design nanoporous membranes suitable for molecular separations. Journal of Membrane Science, 2021, 620, 118849.	4.1	28
5	Influence of charge density and ionic strength on diallyldimethylammonium chloride (DADMAC)-based polyelectrolyte multilayer membrane formation. Journal of Membrane Science, 2021, 617, 118619.	4.1	30
6	Investigation of ZIFâ€78 Morphology and Feed Composition on the Mixed Gas CO₂/N₂ Separation Performance in Mixed Matrix Membranes. Advanced Materials Interfaces, 2021, 8, 2001478.	1.9	11
7	Nonâ€Solvent Induced Phase Separation Enables Designer Redox Flow Battery Electrodes. Advanced Materials, 2021, 33, e2006716.	11.1	35
8	Entanglement-Enhanced Water Dissociation in Bipolar Membranes with 3D Electrospun Junction and Polymeric Catalyst. ACS Applied Energy Materials, 2021, 4, 3724-3736.	2.5	16
9	Redox Flow Batteries: Nonâ€Solvent Induced Phase Separation Enables Designer Redox Flow Battery Electrodes (Adv. Mater. 16/2021). Advanced Materials, 2021, 33, 2170126.	11.1	0
10	Tailoring the Surface Chemistry of Anion Exchange Membranes with Zwitterions: Toward Antifouling RED Membranes. ACS Applied Materials & Interfaces, 2021, 13, 18348-18357.	4.0	18
11	Asymmetric layerâ€byâ€layer polyelectrolyte nanofiltration membranes with tunable retention. Journal of Polymer Science, 2021, 59, 1293-1304.	2.0	10
12	Low-cost wire-electrospun sulfonated poly(ether ether ketone)/poly(vinylidene fluoride) blend membranes for hydrogen-bromine flow batteries. Journal of Membrane Science, 2021, 628, 119258.	4.1	4
13	Wire based electrospun composite short side chain perfluorosulfonic acid/polyvinylidene fluoride membranes for hydrogen-bromine flow batteries. Journal of Power Sources, 2021, 497, 229812.	4.0	2
14	Multistage electrodialysis for desalination of natural seawater. Desalination, 2021, 505, 114973.	4.0	75
15	Effect of Osmotic Pressure on Whey Protein Concentration in Forward Osmosis. Membranes, 2021, 11, 573.	1.4	5
16	Predicting reverse electrodialysis performance in the presence of divalent ions for renewable energy generation. Energy Conversion and Management, 2021, 243, 114369.	4.4	20
17	On the Order and Orientation in Liquid Crystalline Polymer Membranes for Gas Separation. Chemistry of Materials, 2021, 33, 8323-8333.	3.2	12
18	In situ long-term membrane performance evaluation of hydrogen-bromine flow batteries. Journal of Energy Storage, 2020, 27, 101068.	3.9	13

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19	Electrode segmentation in reverse electrodialysis: Improved power and energy efficiency. Desalination, 2020, 492, 114604.	4.0	30
20	Techno-Economic Analysis of a Kilo-Watt Scale Hydrogen-Bromine Flow Battery System for Sustainable Energy Storage. Processes, 2020, 8, 1492.	1.3	20
21	Magnetically Aligned and Enriched Pathways of Zeolitic Imidazolate Framework 8 in Matrimid Mixed Matrix Membranes for Enhanced CO2 Permeability. Membranes, 2020, 10, 155.	1.4	13
22	Development of Polydopamine Forward Osmosis Membranes with Low Reverse Salt Flux. Membranes, 2020, 10, 94.	1.4	15
23	Influence of sulfate on anion exchange membranes in reverse electrodialysis. Npj Clean Water, 2020, 3, .	3.1	29
24	Current utilization in electrodialysis: Electrode segmentation as alternative for multistaging. Desalination, 2020, 480, 114243.	4.0	16
25	Electrochemical impedance spectroscopy of a reverse electrodialysis stack: A new approach to monitoring fouling and cleaning. Journal of Power Sources, 2019, 444, 227302.	4.0	30
26	Effect of Bromine Complexing Agents on Membrane Performance in Hydrogen Bromine Flow Batteries. Journal of the Electrochemical Society, 2019, 166, A3004-A3010.	1.3	13
27	Layer-by-layer coatings on ion exchange membranes: Effect of multilayer charge and hydration on monovalent ion selectivities. Journal of Membrane Science, 2019, 570-571, 513-521.	4.1	66
28	Proton conductive cationic nanoporous polymers based on smectic liquid crystal hydrogen-bonded heterodimers. Journal of Materials Chemistry C, 2018, 6, 5018-5024.	2.7	17
29	Divalent Cation Removal by Donnan Dialysis for Improved Reverse Electrodialysis. ACS Sustainable Chemistry and Engineering, 2018, 6, 7035-7041.	3.2	39
30	Performance mapping of cation exchange membranes for hydrogen-bromine flow batteries for energy storage. Journal of Membrane Science, 2018, 566, 406-414.	4.1	24
31	Progress and prospects in reverse electrodialysis for salinity gradient energy conversion and storage. Applied Energy, 2018, 225, 290-331.	5.1	214
32	Upscaling Reverse Electrodialysis. Environmental Science & Technology, 2018, 52, 10856-10863.	4.6	64
33	Improved fluid mixing and power density in reverse electrodialysis stacks with chevron-profiled membranes. Journal of Membrane Science, 2017, 531, 111-121.	4.1	64
34	Effect of Divalent Cations on RED Performance and Cation Exchange Membrane Selection to Enhance Power Densities. Environmental Science & Technology, 2017, 51, 13028-13035.	4.6	75
35	Anisotropic Dye Adsorption and Anhydrous Proton Conductivity in Smectic Liquid Crystal Networks: The Role of Cross-Link Density, Order, and Orientation. ACS Applied Materials & Interfaces, 2017, 9, 35218-35225.	4.0	38
36	Salinity Gradients for Sustainable Energy: Primer, Progress, and Prospects. Environmental Science & Technology, 2016, 50, 12072-12094.	4.6	261

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37	The role of ionic strength and oddâ€“even effects on the properties of polyelectrolyte multilayer nanofiltration membranes. Journal of Membrane Science, 2015, 475, 311-319.	4.1	132
38	Early detection of preferential channeling in reverse electrodialysis. Electrochimica Acta, 2014, 117, 9-17.	2.6	41
39	Monovalent-ion-selective membranes for reverse electrodialysis. Journal of Membrane Science, 2014, 455, 254-270.	4.1	225
40	Thermodynamic, Energy Efficiency, and Power Density Analysis of Reverse Electrodialysis Power Generation with Natural Salinity Gradients. Environmental Science & Technology, 2014, 48, 4925-4936.	4.6	177
41	Building Polyzwitterion-Based Multilayers for Responsive Membranes. Langmuir, 2014, 30, 5152-5161.	1.6	43
42	Influence of multivalent ions on renewable energy generation in reverse electrodialysis. Energy and Environmental Science, 2014, 7, 1434-1445.	15.6	179
43	High pressure gas separation performance of mixed-matrix polymer membranes containing mesoporous Fe(BTC). Journal of Membrane Science, 2014, 459, 33-44.	4.1	148
44	Periodic Feedwater Reversal and Air Sparging As Antifouling Strategies in Reverse Electrodialysis. Environmental Science & Technology, 2014, 48, 3065-3073.	4.6	95
45	High Efficiency in Energy Generation from Salinity Gradients with Reverse Electrodialysis. ACS Sustainable Chemistry and Engineering, 2013, 1, 1295-1302.	3.2	143
46	Performance-determining membrane properties in reverse electrodialysis. Journal of Membrane Science, 2013, 446, 266-276.	4.1	226
47	Fouling in reverse electrodialysis under natural conditions. Water Research, 2013, 47, 1289-1298.	5.3	210
48	Doubled Power Density from Salinity Gradients at Reduced Intermembrane Distance. Environmental Science & Technology, 2011, 45, 7089-7095.	4.6	334
49	Power generation using profiled membranes in reverse electrodialysis. Journal of Membrane Science, 2011, 385-386, 234-242.	4.1	232
50	Tuning of mass transport properties of multi-block copolymers for CO2 capture applications. Journal of Membrane Science, 2010, 359, 54-63.	4.1	66
51	Ion conductive spacers for increased power generation in reverse electrodialysis. Journal of Membrane Science, 2010, 347, 101-107.	4.1	174
52	On the resistances of membrane, diffusion boundary layer and double layer in ion exchange membrane transport. Journal of Membrane Science, 2010, 349, 369-379.	4.1	296
53	Subambient Temperature CO₂ and Light Gas Permeation Through Segmented Block Copolymers with Tailored Soft Phase. ACS Applied Materials & Interfaces, 2010, 2, 551-560.	4.0	51