

# Johannes S Vrouwenvelder

## List of Publications by Year in descending order

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166  
papers

8,923  
citations

28274

55  
h-index

48315

88  
g-index

167  
all docs

167  
docs citations

167  
times ranked

5648  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of nano- and microplastics on kidney: Physicochemical properties, bioaccumulation, oxidative stress and immunoreaction. <i>Chemosphere</i> , 2022, 288, 132631.	8.2	66
2	Controlling the hydraulic resistance of membrane biofilms by engineering biofilm physical structure. <i>Water Research</i> , 2022, 210, 118031.	11.3	37
3	Seawater desalination based drinking water: Microbial characterization during distribution with and without residual chlorine. <i>Water Research</i> , 2022, 210, 117975.	11.3	13
4	Permeation Increases Biofilm Development in Nanofiltration Membranes Operated with Varying Feed Water Phosphorous Concentrations. <i>Membranes</i> , 2022, 12, 335.	3.0	4
5	A sacrificial protective layer as fouling control strategy for nanofiltration in water treatment. <i>Water Research</i> , 2022, 219, 118554.	11.3	10
6	Effect of organic micropollutants on biofouling in a forward osmosis process integrating seawater desalination and wastewater reclamation. <i>Journal of Hazardous Materials</i> , 2021, 401, 123386.	12.4	18
7	Biofilm removal efficacy using direct electric current in cross-flow ultrafiltration processes for water treatment. <i>Journal of Membrane Science</i> , 2021, 620, 118808.	8.2	8
8	Fate of polyphenols in forward osmosis. <i>Journal of Membrane Science</i> , 2021, 621, 118993.	8.2	10
9	Effect of localized hydrodynamics on biofilm attachment and growth in a cross-flow filtration channel. <i>Water Research</i> , 2021, 188, 116502.	11.3	23
10	Cost of fouling in full-scale reverse osmosis and nanofiltration installations in the Netherlands. <i>Desalination</i> , 2021, 500, 114865.	8.2	90
11	Novel hole-pillar spacer design for improved hydrodynamics and biofouling mitigation in membrane filtration. <i>Scientific Reports</i> , 2021, 11, 6979.	3.3	25
12	Assessment of the Impact of Temperature on Biofilm Composition with a Laboratory Heat Exchanger Module. <i>Microorganisms</i> , 2021, 9, 1185.	3.6	9
13	Novel Magnetic Resonance Measurements of Fouling in Operating Spiral Wound Reverse Osmosis Membrane Modules. <i>Water Research</i> , 2021, 196, 117006.	11.3	11
14	Clinical Autopsy of a Reverse Osmosis Membrane Module. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	2.7	13
15	Efficient cooling tower operation at alkaline pH for the control of <i>Legionella pneumophila</i> and other pathogenic genera. <i>Water Research</i> , 2021, 197, 117047.	11.3	5
16	Evaluation of DNA extraction yield from a chlorinated drinking water distribution system. <i>PLoS ONE</i> , 2021, 16, e0253799.	2.5	3
17	Potential Pitfalls in Membrane Fouling Evaluation: Merits of Data Representation as Resistance Instead of Flux Decline in Membrane Filtration. <i>Membranes</i> , 2021, 11, 460.	3.0	5
18	Physicochemical Properties of Extracellular Polymeric Substances Produced by Three Bacterial Isolates From Biofouled Reverse Osmosis Membranes. <i>Frontiers in Microbiology</i> , 2021, 12, 668761.	3.5	19

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19	Monitoring of hollow fiber module velocity field and fouling inside individual fibers using benchtop MRI. <i>Journal of Membrane Science</i> , 2021, 629, 119238.	8.2	7
20	Stimuli-Responsive Lysozyme Nanocapsule Engineered Microfiltration Membranes with a Dual-Function of Anti-Adhesion and Antibacteria for Biofouling Mitigation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 32205-32216.	8.0	12
21	Natural deep eutectic solvents as biofilm structural breakers. <i>Water Research</i> , 2021, 201, 117323.	11.3	20
22	Nano/micro plastics " Challenges on quantification and remediation: A review. <i>Journal of Water Process Engineering</i> , 2021, 42, 102128.	5.6	28
23	Real-time membrane fouling analysis for the assessment of reclamation potential of textile wastewater processed by membrane distillation. <i>Journal of Water Process Engineering</i> , 2021, 43, 102296.	5.6	3
24	Textile dye wastewater treatment by direct contact membrane distillation: Membrane performance and detailed fouling analysis. <i>Journal of Membrane Science</i> , 2021, 636, 119552.	8.2	51
25	Dynamic feed spacer for fouling minimization in forward osmosis process. <i>Desalination</i> , 2021, 515, 115198.	8.2	17
26	Periodic chemical cleaning with urea: disintegration of biofilms and reduction of key biofilm-forming bacteria from reverse osmosis membranes. <i>Water Research X</i> , 2021, 13, 100117.	6.1	8
27	Structural properties and stability of the Betaine-Urea natural deep eutectic solvent. <i>Journal of Molecular Liquids</i> , 2021, 343, 117655.	4.9	9
28	Enhanced hydraulic cleanability of biofilms developed under a low phosphorus concentration in reverse osmosis membrane systems. <i>Water Research X</i> , 2021, 10, 100085.	6.1	20
29	Phosphorus Concentration in Water Affects the Biofilm Community and the Produced Amount of Extracellular Polymeric Substances in Reverse Osmosis Membrane Systems. <i>Membranes</i> , 2021, 11, 928.	3.0	4
30	Cartridge filter selection and replacement: Optimization of produced water quantity, quality, and cost. <i>Desalination</i> , 2020, 473, 114172.	8.2	12
31	Facultative hybrid RO-PRO concept to improve economic performance of PRO: Feasibility and maximizing efficiency. <i>Desalination</i> , 2020, 478, 114268.	8.2	18
32	Adapting Aluminum-Doped Zinc Oxide for Electrically Conductive Membranes Fabricated by Atomic Layer Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 963-969.	8.0	10
33	Sacrificial coating development for biofouling control in membrane systems. <i>Desalination</i> , 2020, 496, 114650.	8.2	16
34	Antibacterial rGO"Cu"Ag film with contact- and release-based inactivation properties. <i>Environmental Research</i> , 2020, 191, 110130.	7.5	7
35	Effect of phosphate availability on biofilm formation in cooling towers. <i>Biofouling</i> , 2020, 36, 800-815.	2.2	9
36	Sialic Acids: An Important Family of Carbohydrates Overlooked in Environmental Biofilms. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7694.	2.5	7

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37	Minimum Net Driving Temperature Concept for Membrane Distillation. <i>Membranes</i> , 2020, 10, 100.	3.0	3
38	A comparison between chemical cleaning efficiency in lab-scale and full-scale reverse osmosis membranes: Role of extracellular polymeric substances (EPS). <i>Journal of Membrane Science</i> , 2020, 609, 118189.	8.2	26
39	Organic composition in feed solution of forward osmosis membrane systems has no impact on the boron and water flux but reduces scaling. <i>Journal of Membrane Science</i> , 2020, 611, 118306.	8.2	7
40	Biofilms in membrane systems for drinking water production. , 2020, , 157-177.		0
41	Biofouling control by phosphorus limitation strongly depends on the assimilable organic carbon concentration. <i>Water Research</i> , 2020, 183, 116051.	11.3	22
42	Online characterization of bacterial processes in drinking water systems. <i>Npj Clean Water</i> , 2020, 3, .	8.0	20
43	Flow field in fouling spiral wound reverse osmosis membrane modules using MRI velocimetry. <i>Desalination</i> , 2020, 491, 114508.	8.2	13
44	Improving the Thermodynamic Energy Efficiency of Battery Electrode Deionization Using Flow-Through Electrodes. <i>Environmental Science &amp; Technology</i> , 2020, 54, 3628-3635.	10.0	32
45	Imaging of membrane concentration polarization by NaCl using <sup>23</sup> Na nuclear magnetic resonance. <i>Journal of Membrane Science</i> , 2020, 600, 117868.	8.2	25
46	Bacterial community dynamics and disinfection impact in cooling water systems. <i>Water Research</i> , 2020, 172, 115505.	11.3	34
47	Membrane filtration performance enhancement and biofouling mitigation using symmetric spacers with helical filaments. <i>Desalination</i> , 2020, 484, 114454.	8.2	53
48	Stepwise ammonium enrichment using selective battery electrodes. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1649-1657.	2.4	8
49	Conceptual design of a dynamic turbospacer for efficient low pressure membrane filtration. <i>Desalination</i> , 2020, 496, 114712.	8.2	26
50	Energy efficient 3D printed column type feed spacer for membrane filtration. <i>Water Research</i> , 2019, 164, 114961.	11.3	67
51	Hydrodynamic flow transition dynamics in a spacer filled filtration channel using direct numerical simulation. <i>Journal of Membrane Science</i> , 2019, 590, 117264.	8.2	27
52	Pilot-Scale Assessment of Urea as a Chemical Cleaning Agent for Biofouling Control in Spiral-Wound Reverse Osmosis Membrane Elements. <i>Membranes</i> , 2019, 9, 117.	3.0	11
53	Implications of Chemical Reduction Using Hydriodic Acid on the Antimicrobial Properties of Graphene Oxide and Reduced Graphene Oxide Membranes. <i>Small</i> , 2019, 15, e1901023.	10.0	56
54	Human urine as a forward osmosis draw solution for the application of microalgae dewatering. <i>Journal of Hazardous Materials</i> , 2019, 378, 120724.	12.4	41

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55	Impact of membrane biofouling in the sequential development of performance indicators: Feed channel pressure drop, permeability, and salt rejection. <i>Journal of Membrane Science</i> , 2019, 585, 199-207.	8.2	23
56	Effective Biofouling Control Using Periodic H <sub>2</sub> O <sub>2</sub> Cleaning with CuO Modified and Polypropylene Spacers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9582-9587.	6.7	19
57	Insignificant Impact of Chemotactic Responses of <i>Pseudomonas aeruginosa</i> on the Bacterial Attachment to Organic Pre-Conditioned RO Membranes. <i>Membranes</i> , 2019, 9, 162.	3.0	0
58	ATP measurement in seawater reverse osmosis systems: Eliminating seawater matrix effects using a filtration-based method. <i>Desalination</i> , 2019, 453, 1-9.	8.2	17
59	Role of feed water biodegradable substrate concentration on biofouling: Biofilm characteristics, membrane performance and cleanability. <i>Water Research</i> , 2019, 150, 1-11.	11.3	22
60	Optimisation of a forward osmosis and membrane distillation hybrid system for the treatment of source-separated urine. <i>Separation and Purification Technology</i> , 2019, 212, 368-375.	7.9	60
61	Application of monochloramine for wastewater reuse: Effect on biostability during transport and biofouling in RO membranes. <i>Journal of Membrane Science</i> , 2018, 551, 243-253.	8.2	26
62	Simultaneous phosphorous and nitrogen recovery from source-separated urine: A novel application for fertiliser drawn forward osmosis. <i>Chemosphere</i> , 2018, 203, 482-489.	8.2	91
63	Review on strategies for biofouling mitigation in spiral wound membrane systems. <i>Desalination</i> , 2018, 434, 189-197.	8.2	88
64	Characterization of the bacterial community in shower water before and after chlorination. <i>Journal of Water and Health</i> , 2018, 16, 233-243.	2.6	5
65	Impact of Distribution and Network Flushing on the Drinking Water Microbiome. <i>Frontiers in Microbiology</i> , 2018, 9, 2205.	3.5	35
66	Enhanced biofilm solubilization by urea in reverse osmosis membrane systems. <i>Water Research X</i> , 2018, 1, 100004.	6.1	21
67	Polyelectrolyte-Based Sacrificial Protective Layer for Fouling Control in Reverse Osmosis Desalination. <i>Environmental Science and Technology Letters</i> , 2018, 5, 584-590.	8.7	34
68	A uniform bacterial growth potential assay for different water types. <i>Water Research</i> , 2018, 142, 227-235.	11.3	37
69	Fouling resilient perforated feed spacers for membrane filtration. <i>Water Research</i> , 2018, 140, 211-219.	11.3	89
70	Spatially-resolved in-situ quantification of biofouling using optical coherence tomography (OCT) and 3D image analysis in a spacer filled channel. <i>Journal of Membrane Science</i> , 2017, 524, 673-681.	8.2	60
71	Flow cytometric bacterial cell counts challenge conventional heterotrophic plate counts for routine microbiological drinking water monitoring. <i>Water Research</i> , 2017, 113, 191-206.	11.3	194
72	Porosity of spacer-filled channels in spiral-wound membrane systems: Quantification methods and impact on hydraulic characterization. <i>Water Research</i> , 2017, 119, 304-311.	11.3	35

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73	Recent Developments in Forward Osmosis Processes. <i>Water Intelligence Online</i> , 2017, 16, 9781780408125.	0.3	9
74	Predicting the impact of feed spacer modification on biofouling by hydraulic characterization and biofouling studies in membrane fouling simulators. <i>Water Research</i> , 2017, 110, 281-287.	11.3	40
75	Eukaryotic community diversity and spatial variation during drinking water production (by seawater) Tj ETQq1 1 0.784314 rgBT /Over Technology, 2017, 3, 92-105.	2.4	9
76	Biofouling in capillary and spiral wound membranes facilitated by marine algal bloom. <i>Desalination</i> , 2017, 424, 74-84.	8.2	14
77	Aquaporin based biomimetic membrane in forward osmosis: Chemical cleaning resistance and practical operation. <i>Desalination</i> , 2017, 420, 208-215.	8.2	79
78	Characterization of feed channel spacer performance using geometries obtained by X-ray computed tomography. <i>Journal of Membrane Science</i> , 2017, 522, 124-139.	8.2	64
79	Biological Stability of Drinking Water: Controlling Factors, Methods, and Challenges. <i>Frontiers in Microbiology</i> , 2016, 7, 45.	3.5	287
80	Long-Term Bacterial Dynamics in a Full-Scale Drinking Water Distribution System. <i>PLoS ONE</i> , 2016, 11, e0164445.	2.5	68
81	A systematic approach for the assessment of bacterial growth-controlling factors linked to biological stability of drinking water in distribution systems. <i>Water Science and Technology: Water Supply</i> , 2016, 16, 865-880.	2.1	42
82	Mini-review: novel non-destructive <i>in situ</i> biofilm characterization techniques in membrane systems. <i>Desalination and Water Treatment</i> , 2016, 57, 22894-22901.	1.0	47
83	Spatial heterogeneity of biofouling under different cross-flow velocities in reverse osmosis membrane systems. <i>Journal of Membrane Science</i> , 2016, 520, 964-971.	8.2	17
84	Biofouling in forward osmosis systems: An experimental and numerical study. <i>Water Research</i> , 2016, 106, 86-97.	11.3	40
85	Effect of water temperature on biofouling development in reverse osmosis membrane systems. <i>Water Research</i> , 2016, 103, 149-159.	11.3	58
86	Hybrid SBR-FO system for wastewater treatment and reuse: Operation, fouling and cleaning. <i>Desalination</i> , 2016, 393, 31-38.	8.2	32
87	Temporal changes in extracellular polymeric substances on hydrophobic and hydrophilic membrane surfaces in a submerged membrane bioreactor. <i>Water Research</i> , 2016, 95, 27-38.	11.3	41
88	Bacterial community structure and variation in a full-scale seawater desalination plant for drinking water production. <i>Water Research</i> , 2016, 94, 62-72.	11.3	86
89	Development and characterization of 3D-printed feed spacers for spiral wound membrane systems. <i>Water Research</i> , 2016, 91, 55-67.	11.3	101
90	Life cycle cost of a hybrid forward osmosis - low pressure reverse osmosis system for seawater desalination and wastewater recovery. <i>Water Research</i> , 2016, 88, 225-234.	11.3	217

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91	Compaction and relaxation of biofilms. <i>Desalination and Water Treatment</i> , 2016, 57, 12902-12914.	1.0	26
92	Development of a setup to enable stable and accurate flow conditions for membrane biofouling studies. <i>Desalination and Water Treatment</i> , 2016, 57, 12893-12901.	1.0	10
93	Calcium carbonate scaling in seawater desalination by ammonia-carbon dioxide forward osmosis: Mechanism and implications. <i>Journal of Membrane Science</i> , 2015, 481, 36-43.	8.2	50
94	Dynamics of bacterial communities before and after distribution in a full-scale drinking water network. <i>Water Research</i> , 2015, 74, 180-190.	11.3	109
95	Magnetic resonance signal moment determination using the Earth's magnetic field. <i>Journal of Magnetic Resonance</i> , 2015, 252, 145-150.	2.1	10
96	Higher boron rejection with a new TFC forward osmosis membrane. <i>Desalination and Water Treatment</i> , 2015, 55, 2734-2740.	1.0	10
97	Early non-destructive biofouling detection and spatial distribution: Application of oxygen sensing optodes. <i>Water Research</i> , 2015, 83, 10-20.	11.3	23
98	Phosphate and arsenate removal efficiency by thermostable ferritin enzyme from <i>Pyrococcus furiosus</i> using radioisotopes. <i>Water Research</i> , 2015, 76, 181-186.	11.3	27
99	Early non-destructive biofouling detection in spiral wound RO membranes using a mobile earth's field NMR. <i>Journal of Membrane Science</i> , 2015, 489, 227-236.	8.2	44
100	Experimental and numerical characterization of the water flow in spacer-filled channels of spiral-wound membranes. <i>Water Research</i> , 2015, 87, 299-310.	11.3	67
101	Development and testing of a transparent membrane biofouling monitor. <i>Desalination and Water Treatment</i> , 2014, 52, 1807-1819.	1.0	19
102	Spacer geometry and particle deposition in spiral wound membrane feed channels. <i>Water Research</i> , 2014, 64, 160-176.	11.3	90
103	Impact of biofilm accumulation on transmembrane and feed channel pressure drop: Effects of crossflow velocity, feed spacer and biodegradable nutrient. <i>Water Research</i> , 2014, 50, 200-211.	11.3	51
104	Effect of different commercial feed spacers on biofouling of reverse osmosis membrane systems: A numerical study. <i>Desalination</i> , 2014, 343, 26-37.	8.2	107
105	Long-term performance and fouling analysis of full-scale direct nanofiltration (NF) installations treating anoxic groundwater. <i>Journal of Membrane Science</i> , 2014, 468, 339-348.	8.2	51
106	Impact of organic nutrient load on biomass accumulation, feed channel pressure drop increase and permeate flux decline in membrane systems. <i>Water Research</i> , 2014, 67, 227-242.	11.3	49
107	In-situ biofilm characterization in membrane systems using Optical Coherence Tomography: Formation, structure, detachment and impact of flux change. <i>Water Research</i> , 2014, 67, 243-254.	11.3	136
108	Forward osmosis niches in seawater desalination and wastewater reuse. <i>Water Research</i> , 2014, 66, 122-139.	11.3	300

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109	Impact of spacer thickness on biofouling in forward osmosis. <i>Water Research</i> , 2014, 57, 223-233.	11.3	94
110	Combining flow cytometry and 16S rRNA gene pyrosequencing: A promising approach for drinking water monitoring and characterization. <i>Water Research</i> , 2014, 63, 179-189.	11.3	111
111	Water harvesting from municipal wastewater via osmotic gradient: An evaluation of process performance. <i>Journal of Membrane Science</i> , 2013, 447, 50-56.	8.2	117
112	Do biological-based strategies hold promise to biofouling control in MBRs?. <i>Water Research</i> , 2013, 47, 5447-5463.	11.3	146
113	Monitoring microbiological changes in drinking water systems using a fast and reproducible flow cytometric method. <i>Water Research</i> , 2013, 47, 7131-7142.	11.3	250
114	A microbiology-based multi-parametric approach towards assessing biological stability in drinking water distribution networks. <i>Water Research</i> , 2013, 47, 3015-3025.	11.3	153
115	Hydraulic resistance of biofilms. <i>Journal of Membrane Science</i> , 2013, 429, 436-447.	8.2	100
116	New approaches to characterizing and understanding biofouling of spiral wound membrane systems. <i>Water Science and Technology</i> , 2012, 66, 88-94.	2.5	22
117	REMOVED: Modeling Biofouling, Scaling and Combined Fouling in Reverse Osmosis Membrane Devices. <i>Procedia Engineering</i> , 2012, 44, 341-342.	1.2	4
118	Quantitative Measurement and Visualization of Biofilm O <sub>2</sub> Consumption Rates Inmembrane Filtration Systems. <i>Procedia Engineering</i> , 2012, 44, 233-234.	1.2	1
119	Hydraulic Biofilm Resistance. <i>Procedia Engineering</i> , 2012, 44, 539-541.	1.2	0
120	Short-term adhesion and long-term biofouling testing of polydopamine and poly(ethylene glycol) surface modifications of membranes and feed spacers for biofouling control. <i>Water Research</i> , 2012, 46, 3737-3753.	11.3	204
121	Effect of flow velocity, substrate concentration and hydraulic cleaning on biofouling of reverse osmosis feed channels. <i>Chemical Engineering Journal</i> , 2012, 188, 30-39.	12.7	82
122	Impact of feed spacer and membrane modification by hydrophilic, bactericidal and biocidal coating on biofouling control. <i>Desalination</i> , 2012, 295, 1-10.	8.2	88
123	Quantitative measurement and visualization of biofilm O <sub>2</sub> consumption rates in membrane filtration systems. <i>Journal of Membrane Science</i> , 2012, 392-393, 66-75.	8.2	22
124	The potential of standard and modified feed spacers for biofouling control. <i>Journal of Membrane Science</i> , 2012, 403-404, 58-70.	8.2	77
125	Biofouling in membrane devices treating water with different salinities: a modeling study. <i>Desalination and Water Treatment</i> , 2011, 34, 284-289.	1.0	4
126	A novel scenario for biofouling control of spiral wound membrane systems. <i>Water Research</i> , 2011, 45, 3890-3898.	11.3	56



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127	A simple optode based method for imaging O <sub>2</sub> distribution and dynamics in tap water biofilms. <i>Water Research</i> , 2011, 45, 5027-5037.	11.3	28
128	Early warning of biofouling in spiral wound nanofiltration and reverse osmosis membranes. <i>Desalination</i> , 2011, 265, 206-212.	8.2	57
129	Magnetic resonance imaging and 3D simulation studies of biofilm accumulation and cleaning on reverse osmosis membranes. <i>Food and Bioproducts Processing</i> , 2010, 88, 401-408.	3.6	46
130	Biofouling in spiral wound membrane systems: Three-dimensional CFD model based evaluation of experimental data. <i>Journal of Membrane Science</i> , 2010, 346, 71-85.	8.2	105
131	Chemical cleaning of biofouling in reverse osmosis membranes evaluated using magnetic resonance imaging. <i>Journal of Membrane Science</i> , 2010, 362, 202-210.	8.2	112
132	Modeling the effect of biofilm formation on reverse osmosis performance: Flux, feed channel pressure drop and solute passage. <i>Journal of Membrane Science</i> , 2010, 365, 1-15.	8.2	100
133	Integrated approach for biofouling control. <i>Water Science and Technology</i> , 2010, 62, 2477-2490.	2.5	44
134	Impact of flow regime on pressure drop increase and biomass accumulation and morphology in membrane systems. <i>Water Research</i> , 2010, 44, 689-702.	11.3	80
135	Phosphate limitation to control biofouling. <i>Water Research</i> , 2010, 44, 3454-3466.	11.3	117
136	Three-dimensional modeling of biofouling and fluid dynamics in feed spacer channels of membrane devices. <i>Journal of Membrane Science</i> , 2009, 345, 340-354.	8.2	149
137	Sensitive pressure drop measurements of individual lead membrane elements for accurate early biofouling detection. <i>Journal of Membrane Science</i> , 2009, 338, 92-99.	8.2	60
138	Biofouling of spiral-wound nanofiltration and reverse osmosis membranes: A feed spacer problem. <i>Water Research</i> , 2009, 43, 583-594.	11.3	283
139	Pressure drop increase by biofilm accumulation in spiral wound RO and NF membrane systems: role of substrate concentration, flow velocity, substrate load and flow direction. <i>Biofouling</i> , 2009, 25, 543-555.	2.2	164
140	A critical flux to avoid biofouling of spiral wound nanofiltration and reverse osmosis membranes: Fact or fiction?. <i>Journal of Membrane Science</i> , 2009, 326, 36-44.	8.2	85
141	Nuclear magnetic resonance microscopy studies of membrane biofouling. <i>Journal of Membrane Science</i> , 2008, 323, 37-44.	8.2	103
142	Quantitative biofouling diagnosis in full scale nanofiltration and reverse osmosis installations. <i>Water Research</i> , 2008, 42, 4856-4868.	11.3	207
143	The membrane fouling simulator: a suitable tool for prediction and characterisation of membrane fouling. <i>Water Science and Technology</i> , 2007, 55, 197-205.	2.5	47
144	Air/water cleaning for biofouling control in spiral wound membrane elements. <i>Desalination</i> , 2007, 204, 145-147.	8.2	20

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145	The Membrane Fouling Simulator as a new tool for biofouling control of spiral-wound membranes. <i>Desalination</i> , 2007, 204, 170-174.	8.2	68
146	Periodic air/water cleaning for control of biofouling in spiral wound membrane elements. <i>Journal of Membrane Science</i> , 2007, 287, 94-101.	8.2	107
147	The Membrane Fouling Simulator: A practical tool for fouling prediction and control. <i>Journal of Membrane Science</i> , 2006, 281, 316-324.	8.2	174
148	Drinking water treatment in The Netherlands: outstanding and still ambitious. <i>Water Science and Technology: Water Supply</i> , 2004, 4, 253-262.	2.1	3
149	Diagnosis of fouling problems of NF and RO membrane installations by a quick scan. <i>Desalination</i> , 2003, 153, 121-124.	8.2	49
150	Tools for fouling diagnosis of NF and RO membranes and assessment of the fouling potential of feed water. <i>Desalination</i> , 2003, 157, 361-365.	8.2	78
151	Elucidation and control of biofilm formation processes in water treatment and distribution using the unified biofilm approach. <i>Water Science and Technology</i> , 2003, 47, 83-90.	2.5	41
152	Integral diagnosis of fouling problems by analysing biomass and inorganic compounds in membrane elements used in water treatment. <i>Water Science and Technology: Water Supply</i> , 2003, 3, 211-215.	2.1	2
153	Diagnosis, prediction and prevention of biofouling of NF and RO membranes. <i>Desalination</i> , 2001, 139, 65-71.	8.2	176
154	Biofouling potential of chemicals used for scale control in RO and NF membranes. <i>Desalination</i> , 2000, 132, 1-10.	8.2	138
155	RO treatment: selection of a pretreatment scheme based on fouling characteristics and operating conditions based on environmental impact. <i>Desalination</i> , 2000, 127, 89-101.	8.2	49
156	Biofouling of membranes for drinking water production. <i>Desalination</i> , 1998, 118, 157-166.	8.2	145
157	Kinetic aspects of biofilm formation on surfaces exposed to drinking water. <i>Water Science and Technology</i> , 1995, 32, 61.	2.5	32
158	Use of chemostat data for modelling extracellular-inulinase production by <i>Kluyveromyces marxianus</i> in a high-cell-density fed-batch process. <i>Journal of Bioscience and Bioengineering</i> , 1995, 79, 54-58.	0.9	14
159	Production of extracellular inulinase in high-cell-density fed-batch cultures of <i>Kluyveromyces marxianus</i> . <i>Applied Microbiology and Biotechnology</i> , 1994, 42, 516-521.	3.6	45
160	Coating of reverse osmosis membranes with amphiphilic copolymers for biofouling control. , 0, 68, 1-11.		19
161	Application of DBNPA dosage for biofouling control in spiral wound membrane systems. , 0, 68, 12-22.		24
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