

# Emile R Cornelissen

## List of Publications by Citations

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85  
papers

4,341  
citations

34  
h-index

65  
g-index

88  
ext. papers

4,909  
ext. citations

8.5  
avg, IF

5.54  
L-index

#	Paper	IF	Citations
85	Forward osmosis for application in wastewater treatment: a review. <i>Water Research</i> , <b>2014</b> , 58, 179-97	12.5	533
84	Membrane fouling and process performance of forward osmosis membranes on activated sludge. <i>Journal of Membrane Science</i> , <b>2008</b> , 319, 158-168	9.6	411
83	Comparison of ceramic and polymeric membrane permeability and fouling using surface water. <i>Separation and Purification Technology</i> , <b>2011</b> , 79, 365-374	8.3	235
82	Potable Water Reuse through Advanced Membrane Technology. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 10215-10223	10.3	203
81	The role of electrostatic interactions on the rejection of organic solutes in aqueous solutions with nanofiltration. <i>Journal of Membrane Science</i> , <b>2008</b> , 322, 52-66	9.6	163
80	A novel hybrid process of reverse electrodialysis and reverse osmosis for low energy seawater desalination and brine management. <i>Applied Energy</i> , <b>2013</b> , 104, 592-602	10.7	128
79	Influence of membrane fouling by (pretreated) surface water on rejection of pharmaceutically active compounds (PhACs) by nanofiltration membranes. <i>Journal of Membrane Science</i> , <b>2009</b> , 330, 90-103	9.6	128
78	Priority organic micropollutants in water sources in Flanders and the Netherlands and assessment of removal possibilities with nanofiltration. <i>Environmental Pollution</i> , <b>2007</b> , 146, 281-9	9.3	127
77	Influence of solute-membrane affinity on rejection of uncharged organic solutes by nanofiltration membranes. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 2400-6	10.3	124
76	Sorption and biodegradation of organic micropollutants during river bank filtration: a laboratory column study. <i>Water Research</i> , <b>2014</b> , 52, 231-41	12.5	110
75	Influence of electrostatic interactions on the rejection with NF and assessment of the removal efficiency during NF/GAC treatment of pharmaceutically active compounds in surface water. <i>Water Research</i> , <b>2007</b> , 41, 3227-40	12.5	104
74	Two-phase flow in membrane processes: A technology with a future. <i>Journal of Membrane Science</i> , <b>2014</b> , 453, 566-602	9.6	102
73	Selection of anionic exchange resins for removal of natural organic matter (NOM) fractions. <i>Water Research</i> , <b>2008</b> , 42, 413-23	12.5	102
72	Periodic air/water cleaning for control of biofouling in spiral wound membrane elements. <i>Journal of Membrane Science</i> , <b>2007</b> , 287, 94-101	9.6	95
71	The innovative osmotic membrane bioreactor (OMBR) for reuse of wastewater. <i>Water Science and Technology</i> , <b>2011</b> , 63, 1557-65	2.2	92
70	Trace organic solutes in closed-loop forward osmosis applications: influence of membrane fouling and modeling of solute build-up. <i>Water Research</i> , <b>2013</b> , 47, 5232-44	12.5	81
69	Water recovery from sewage using forward osmosis. <i>Water Science and Technology</i> , <b>2011</b> , 64, 1443-9	2.2	72

68	Fiber failure frequency and causes of hollow fiber integrity loss. <i>Desalination</i> , <b>2006</b> , 194, 251-258	10.3	70
67	The feasibility of nanofiltration membrane bioreactor (NF-MBR)+reverse osmosis (RO) process for water reclamation: Comparison with ultrafiltration membrane bioreactor (UF-MBR)+RO process. <i>Water Research</i> , <b>2018</b> , 129, 180-189	12.5	70
66	Removal of polar organic micropollutants by pilot-scale reverse osmosis drinking water treatment. <i>Water Research</i> , <b>2019</b> , 148, 535-545	12.5	65
65	Zwitterions as alternative draw solutions in forward osmosis for application in wastewater reclamation. <i>Journal of Membrane Science</i> , <b>2014</b> , 460, 82-90	9.6	56
64	Preliminary study of osmotic membrane bioreactor: effects of draw solution on water flux and air scouring on fouling. <i>Water Science and Technology</i> , <b>2010</b> , 62, 1353-60	2.2	55
63	Experimental studies and modeling on concentration polarization in forward osmosis. <i>Water Science and Technology</i> , <b>2010</b> , 61, 2897-904	2.2	54
62	Impact of the surface energy of particulate foulants on membrane fouling. <i>Journal of Membrane Science</i> , <b>2016</b> , 510, 101-111	9.6	52
61	Threshold concentration of easily assimilable organic carbon in feedwater for biofouling of spiral-wound membranes. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 4890-5	10.3	50
60	Construction and validation of a full-scale model for rejection of organic micropollutants by NF membranes. <i>Journal of Membrane Science</i> , <b>2009</b> , 339, 10-20	9.6	49
59	Assessment of a semi-quantitative method for estimation of the rejection of organic compounds in aqueous solution in nanofiltration. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2006</b> , 81, 1166-1176	3.5	48
58	Influence of biofouling on pharmaceuticals rejection in NF membrane filtration. <i>Water Research</i> , <b>2012</b> , 46, 5848-60	12.5	44
57	Quantitative assessment of the efficacy of spiral-wound membrane cleaning procedures to remove biofilms. <i>Water Research</i> , <b>2012</b> , 46, 6369-81	12.5	41
56	Fluidized ion exchange (FIX) to control NOM fouling in ultrafiltration. <i>Desalination</i> , <b>2009</b> , 236, 334-341	10.3	39
55	Anionic exchange for NOM removal and the effects on micropollutant adsorption competition on activated carbon. <i>Separation and Purification Technology</i> , <b>2014</b> , 129, 25-31	8.3	37
54	Effect of anionic fluidized ion exchange (FIX) pre-treatment on nanofiltration (NF) membrane fouling. <i>Water Research</i> , <b>2010</b> , 44, 3283-93	12.5	37
53	Arsenite removal in groundwater treatment plants by sequential Permanganate/Ferric treatment. <i>Journal of Water Process Engineering</i> , <b>2018</b> , 26, 221-229	6.7	36
52	A case study of fouling development and flux reversibility of treating actual lake water by forward osmosis process. <i>Desalination</i> , <b>2015</b> , 357, 55-64	10.3	34
51	Biofouling removal in spiral-wound nanofiltration elements using two-phase flow cleaning. <i>Journal of Membrane Science</i> , <b>2015</b> , 475, 131-146	9.6	34

50	Characterization and performance of a commercial thin film nanocomposite seawater reverse osmosis membrane and comparison with a thin film composite. <i>Journal of Membrane Science</i> , <b>2013</b> , 446, 68-78	9.6	33
49	Hydraulically irreversible fouling on ceramic MF/UF membranes: Comparison of fouling indices, foulant composition and irreversible pore narrowing. <i>Separation and Purification Technology</i> , <b>2015</b> , 147, 303-310	8.3	33
48	Natural organic matter removal by ion exchange at different positions in the drinking water treatment lane. <i>Drinking Water Engineering and Science</i> , <b>2013</b> , 6, 1-10	2	31
47	Silica removal to prevent silica scaling in reverse osmosis membranes. <i>Desalination</i> , <b>2014</b> , 344, 137-143	10.3	30
46	Crown ether containing polyelectrolyte multilayer membranes for lithium recovery. <i>Journal of Membrane Science</i> , <b>2020</b> , 595, 117432	9.6	29
45	Fouling behavior of isolated dissolved organic fractions from seawater in reverse osmosis (RO) desalination process. <i>Water Research</i> , <b>2019</b> , 159, 385-396	12.5	28
44	A nanofiltration retention model for trace contaminants in drinking water sources. <i>Desalination</i> , <b>2005</b> , 178, 179-192	10.3	28
43	Continuous and discontinuous pressure assisted osmosis (PAO). <i>Journal of Membrane Science</i> , <b>2015</b> , 476, 182-193	9.6	27
42	Threshold concentrations of biomass and iron for pressure drop increase in spiral-wound membrane elements. <i>Water Research</i> , <b>2011</b> , 45, 1607-16	12.5	25
41	Hydrogel-coated feed spacers in two-phase flow cleaning in spiral wound membrane elements: a novel platform for eco-friendly biofouling mitigation. <i>Water Research</i> , <b>2015</b> , 71, 171-86	12.5	24
40	Assessing the effect of surface modification of polyamide RO membrane by L-DOPA on the short range physiochemical interactions with biopolymer fouling on the membrane. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 120, 222-8	6	22
39	Enhancing biological stability of disinfectant-free drinking water by reducing high molecular weight organic compounds with ultrafiltration posttreatment. <i>Water Research</i> , <b>2019</b> , 164, 114927	12.5	19
38	Development and application of relevance and reliability criteria for water treatment removal efficiencies of chemicals of emerging concern. <i>Water Research</i> , <b>2019</b> , 161, 274-287	12.5	17
37	Can osmotic membrane bioreactor be a realistic solution for water reuse?. <i>Npj Clean Water</i> , <b>2018</b> , 1,	11.2	17
36	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> , <b>2020</b> , 609, 118189	9.6	16
35	Air/water cleaning for biofouling control in spiral wound membrane elements. <i>Desalination</i> , <b>2007</b> , 204, 145-147	10.3	16
34	Mechanisms of arsenate removal and membrane fouling in ferric based coprecipitation low pressure membrane filtration systems. <i>Separation and Purification Technology</i> , <b>2020</b> , 241, 116644	8.3	15
33	Facile fouling resistant surface modification of microfiltration cellulose acetate membranes by using amino acid L-DOPA. <i>Water Science and Technology</i> , <b>2013</b> , 68, 901-8	2.2	15

32	Pre-desalination with electro-membranes for SWRO. <i>Desalination and Water Treatment</i> , <b>2011</b> , 31, 296-304		15
31	Key physicochemical characteristics governing organic micropollutant adsorption and transport in ion-exchange membranes during reverse electro dialysis. <i>Desalination</i> , <b>2019</b> , 468, 114084	10.3	14
30	Influence of natural organic matter (NOM) fouling on the removal of pharmaceuticals by nanofiltration and activated carbon filtration. <i>Water Science and Technology: Water Supply</i> , <b>2007</b> , 7, 17-23	1.4	14
29	Removal of aqueous nC60 fullerene from water by low pressure membrane filtration. <i>Water Research</i> , <b>2016</b> , 91, 115-25	12.5	13
28	EDTA: a synthetic draw solute for forward osmosis. <i>Water Science and Technology</i> , <b>2014</b> , 70, 1677-82	2.2	12
27	Fate and removal of trace pollutants from an anion exchange spent brine during the recovery process of natural organic matter and salts. <i>Water Research</i> , <b>2019</b> , 154, 34-44	12.5	12
26	Monitoring the integrity of reverse osmosis membranes using novel indigenous freshwater viruses and bacteriophages. <i>Environmental Science: Water Research and Technology</i> , <b>2019</b> , 5, 1535-1544	4.2	11
25	Dominant factors controlling the efficiency of two-phase flow cleaning in spiral-wound membrane elements. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 17625-17636		10
24	Effect of draw solution type and operational mode of forward osmosis with laboratory-scale membranes and a spiral wound membrane module. <i>Journal of Water Reuse and Desalination</i> , <b>2011</b> , 1, 133-140	2.6	10
23	Optimization of air/water cleaning (AWC) in spiral wound elements. <i>Desalination</i> , <b>2009</b> , 236, 266-272	10.3	10
22	Evaluation of reverse osmosis drinking water treatment of riverbank filtrate using bioanalytical tools and non-target screening. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 103-116	4.2	10
21	Surface characterisation of biofouled NF membranes: role of surface energy for improved rejection predictions. <i>Water Science and Technology</i> , <b>2012</b> , 66, 2122-30	2.2	9
20	Wastewater treatment with the internal MEMBIOR. <i>Desalination</i> , <b>2002</b> , 146, 463-466	10.3	9
19	Improving the biological stability of drinking water by ion exchange. <i>Water Science and Technology: Water Supply</i> , <b>2011</b> , 11, 107-112	1.4	9
18	Impact of isolated dissolved organic fractions from seawater on biofouling in reverse osmosis (RO) desalination process. <i>Water Research</i> , <b>2020</b> , 168, 115198	12.5	9
17	Impact of salt accumulation in the bioreactor on the performance of nanofiltration membrane bioreactor (NF-MBR)+Reverse osmosis (RO) process for water reclamation. <i>Water Research</i> , <b>2020</b> , 170, 115352	12.5	9
16	Removal of polar organic micropollutants by mixed-matrix reverse osmosis membranes. <i>Desalination</i> , <b>2020</b> , 479, 114337	10.3	8
15	Influence of water type and pretreatment method on fouling and performance of an Al <sub>2</sub> O <sub>3</sub> microfiltration membrane. <i>Desalination</i> , <b>2012</b> , 299, 28-34	10.3	7

14	Amorphous aluminosilicate scaling characterization in a reverse osmosis membrane. <i>Desalination and Water Treatment</i> , <b>2013</b> , 51, 936-943		7
13	A generic reverse osmosis model for full-scale operation. <i>Desalination</i> , <b>2020</b> , 490, 114509	10.3	6
12	Effect of pH on the transport and adsorption of organic micropollutants in ion-exchange membranes in electro dialysis-based desalination. <i>Separation and Purification Technology</i> , <b>2020</b> , 252, 117487	8.2	5
11	Influence of permeation on air/water cleaning of spiral wound membrane NF/RO elements <b>2010</b> , 59, 378-383		4
10	Effect of multicomponent fouling during microfiltration of natural surface waters containing nC60 fullerene nanoparticles. <i>Environmental Science: Water Research and Technology</i> , <b>2017</b> , 3, 744-756	4.2	3
9	Online monitoring of transparent exopolymer particles (TEP) by a novel membrane-based spectrophotometric method. <i>Chemosphere</i> , <b>2019</b> , 220, 107-115	8.4	3
8	Non-steady diffusion and adsorption of organic micropollutants in ion-exchange membranes: effect of the membrane thickness. <i>IScience</i> , <b>2021</b> , 24, 102095	6.1	3
7	Fate of organic micropollutants in reverse electro dialysis: Influence of membrane fouling and channel clogging. <i>Desalination</i> , <b>2021</b> , 512, 115114	10.3	3
6	Influence of calcium-NOM complexes on fouling of nanofiltration membranes in drinking water production. <i>Water Science and Technology: Water Supply</i> , <b>2006</b> , 6, 171-178	1.4	2
5	Calcium removal by softening of water affects biofilm formation on PVC, glass and membrane surfaces. <i>Water Science and Technology: Water Supply</i> , <b>2016</b> , 16, 888-895	1.4	2
4	The Influence of the Removal of Specific NOM Compounds by Anion Exchange on Ozone Demand, Disinfection Capacity, and Bromate Formation. <i>Ozone: Science and Engineering</i> , <b>2013</b> , 35, 283-294	2.4	1
3	The influence of particles on biofouling behavior in spiral wound membrane elements. <i>Desalination and Water Treatment</i> , <b>2011</b> , 34, 112-116		1
2	Transport of organic solutes in ion-exchange membranes: Mechanisms and influence of solvent ionic composition. <i>Water Research</i> , <b>2021</b> , 190, 116756	12.5	1
1	Analysing organic micropollutant accumulation in closed loop FOBO systems: A pilot plant study. <i>Journal of Membrane Science</i> , <b>2021</b> , 626, 119182	9.6	0