Andrea Schaefer

List of Publications by Citations

163 papers	7,902 citations	48 h-index	84 g-index
172 ext. papers	8,823 ext. citations	8.9 avg, IF	6.59 L-index

#	Paper	IF	Citations
163	Removal of natural hormones by nanofiltration membranes: measurement, modeling, and mechanisms. *Environmental Science & Technology*, **2004**, 38, 1888-96	10.3	432
162	Pharmaceutical retention mechanisms by nanofiltration membranes. *Environmental Science & Technology*, **2005**, 39, 7698-705	10.3	380
161	Removal of the natural hormone estrone from aqueous solutions using nanofiltration and reverse osmosis. *Environmental Science & Technology*, **2003**, 37, 182-8	10.3	222
160	The role of membrane processes in municipal wastewater reclamation and reuse. *Desalination*, **2005**, 178, 1-11	10.3	221
159	Desalinated versus recycled water: public perceptions and profiles of the accepters. *Journal of Environmental Management*, **2009**, 90, 888-900	7.9	199
158	Nanofiltration of natural organic matter: Removal, fouling and the influence of multivalent ions. *Desalination*, **1998**, 118, 109-122	10.3	195
157	Micropollutant sorption to membrane polymers: a review of mechanisms for estrogens. *Advances in Colloid and Interface Science*, **2011**, 164, 100-17	14.3	181
156	Fouling effects on rejection in the membrane filtration of natural waters. *Desalination*, **2000**, 131, 215-224	10.3	177
155	Role of electrostatic interactions in the retention of pharmaceutically active contaminants by a loose nanofiltration membrane. *Journal of Membrane Science*, **2006**, 286, 52-59	9.6	168
154	Ultrafiltration of natural organic matter. *Separation and Purification Technology*, **2001**, 22-23, 63-78	8.3	165
153	Impact of pH on the removal of fluoride, nitrate and boron by nanofiltration/reverse osmosis. *Desalination*, **2010**, 261, 331-337	10.3	164
152	Removal of fluoride and uranium by nanofiltration and reverse osmosis: a review. *Chemosphere*, **2014**, 117, 679-91	8.4	162
151	Fate of steroid estrogens in Australian inland and coastal wastewater treatment plants. *Environmental Science & Technology*, **2005**, 39, 3351-8	10.3	160
150	The importance of dehydration in determining ion transport in narrow pores. *Small*, **2012**, 8, 1701-9	11	153
149	Estrogenic hormone removal from wastewater using NF/RO membranes. *Journal of Membrane Science*, **2004**, 242, 37-45	9.6	144
148	Removal of boron, fluoride and nitrate by electrodialysis in the presence of organic matter. *Journal of Membrane Science*, **2009**, 334, 101-109	9.6	135
147	Cost factors and chemical pretreatment effects in the membrane filtration of waters containing natural organic matter. *Water Research*, **2001**, 35, 1509-17	12.5	129

146	Occurrence of pharmaceutically active and non-steroidal estrogenic compounds in three different wastewater recycling schemes in Australia. *Chemosphere*, **2007**, 69, 803-15	8.4	126
145	Colloidal Fouling of Ultrafiltration Membranes: Impact of Aggregate Structure and Size. *Journal of Colloid and Interface Science*, **1999**, 212, 264-274	9.3	126
144	Removal of pharmaceuticals and endocrine disrupting compounds in a water recycling process using reverse osmosis systems. *Separation and Purification Technology*, **2011**, 77, 60-67	8.3	124
143	Microfiltration of colloids and natural organic matter. *Journal of Membrane Science*, **2000**, 171, 151-172	9.6	118
142	Desalination using electrodialysis as a function of voltage and salt concentration. *Desalination*, **2007**, 205, 38-46	10.3	108
141	Factors affecting fluoride and natural organic matter (NOM) removal from natural waters in Tanzania by nanofiltration/reverse osmosis. *Science of the Total Environment*, **2015**, 527-528, 520-9	10.2	89
140	Renewable energy powered membrane technology. 1. Development and characterization of a photovoltaic hybrid membrane system. *Environmental Science & Technology*, **2007**, 41, 998-1003	10.3	88
139	Adsorption and Transport of Trace Contaminant Estrone in NF/RO Membranes. *Environmental Engineering Science*, **2002**, 19, 441-451	2	88
138	Renewable energy powered membrane technology: Salt and inorganic contaminant removal by nanofiltration/reverse osmosis. *Journal of Membrane Science*, **2011**, 369, 188-195	9.6	87
137	Adsorptive interactions between membranes and trace contaminants. *Desalination*, **2002**, 147, 269-274	10.3	86
136	The role of NOM fouling for the retention of estradiol and ibuprofen during ultrafiltration. *Journal of Membrane Science*, **2009**, 329, 75-84	9.6	82
135	Role of hydrophobic and electrostatic interactions for initial enteric virus retention by MF membranes. *Journal of Membrane Science*, **2001**, 194, 69-79	9.6	79
134	Steroid estrogens in ocean sediments. *Chemosphere*, **2005**, 61, 827-33	8.4	78
133	Chemical drinking water quality in Ghana: water costs and scope for advanced treatment. *Science of the Total Environment*, **2010**, 408, 2378-86	10.2	75
132	Physico-chemical characterization of polyamide NF/RO membranes: Insight from streaming current measurements. *Journal of Membrane Science*, **2014**, 461, 130-138	9.6	74
131	Experimental energy barriers to anions transporting through nanofiltration membranes. *Environmental Science & Technology*, **2013**, 47, 1968-76	10.3	73
130	Nanofiltration of Hormone Mimicking Trace Organic Contaminants. *Separation Science and Technology*, **2005**, 40, 2633-2649	2.5	69
129	Critical risk points of nanofiltration and reverse osmosis processes in water recycling applications. *Desalination*, **2006**, 187, 303-312	10.3	67

128	pH dependence of steroid hormone--organic matter interactions at environmental concentrations. *Science of the Total Environment*, **2009**, 407, 1164-73	10.2	66
127	Removal of adsorbing estrogenic micropollutants by nanofiltration membranes. Part AEExperimental evidence. *Journal of Membrane Science*, **2013**, 431, 244-256	9.6	64
126	Impact of organic matter and speciation on the behaviour of uranium in submerged ultrafiltration. *Journal of Membrane Science*, **2010**, 348, 174-180	9.6	64
125	Natural organic matter removal by nanofiltration: effects of solution chemistry on retention of low molar mass acids versus bulk organic matter. *Journal of Membrane Science*, **2004**, 242, 73-85	9.6	64
124	Renewable energy powered membrane technology. 2. The effect of energy fluctuations on performance of a photovoltaic hybrid membrane system. *Environmental Science & Technology*, **2008**, 42, 4563-9	10.3	63
123	Key objectives for water reuse concepts. *Desalination*, **2008**, 218, 120-131	10.3	62
122	Bisphenol A retention in the direct ultrafiltration of greywater. *Journal of Membrane Science*, **2006**, 283, 233-243	9.6	62
121	Particle interactions and removal of trace contaminants from water and wastewaters. *Desalination*, **2002**, 147, 243-250	10.3	62
120	Sorption of pesticide endosulfan by electrodialysis membranes. *Chemical Engineering Journal*, **2011**, 166, 233-239	14.7	59
119	Charge effects in the fractionation of natural organics using ultrafiltration. *Environmental Science & Technology*, **2002**, 36, 2572-80	10.3	59
118	Fouling in greywater recycling by direct ultrafiltration. *Desalination*, **2006**, 187, 283-290	10.3	55
117	Renewable energy powered membrane technology: A leapfrog approach to rural water treatment in developing countries?. *Renewable and Sustainable Energy Reviews*, **2014**, 40, 542-556	16.2	50
116	Characterisation and assessment of water treatment technologies for reuse. *Desalination*, **2008**, 218, 92-104	10.3	50
115	Quantifying barriers to monovalent anion transport in narrow non-polar pores. *Physical Chemistry Chemical Physics*, **2012**, 14, 11633-8	3.6	46
114	Magnetic ion exchange: Is there potential for international development?. *Desalination*, **2009**, 248, 160-168	10.3	46
113	Photovoltaic-powered desalination system for remote Australian communities. *Renewable Energy*, **2003**, 28, 2013-2022	8.1	46
112	Adsorption of steroid micropollutants on polymer-based spherical activated carbon (PBSAC). *Journal of Hazardous Materials*, **2017**, 337, 126-137	12.8	44
111	Electrodialytic removal of NaCl from water: Impacts of using pulsed electric potential on ion transport and water dissociation phenomena. *Journal of Membrane Science*, **2013**, 435, 99-109	9.6	44

110	Estrogenic micropollutant adsorption dynamics onto nanofiltration membranes. *Journal of Membrane Science*, **2011**, 381, 132-141	9.6	44
109	Renewable energy powered membrane technology: The effect of wind speed fluctuations on the performance of a wind-powered membrane system for brackish water desalination. *Journal of Membrane Science*, **2011**, 370, 34-44	9.6	43
108	Adsorption of the endocrine-active compound estrone on microfiltration hollow fiber membranes. *Environmental Science & Technology*, **2003**, 37, 3158-63	10.3	43
107	Renewable energy powered membrane technology: Fluoride removal in a rural community in northern Tanzania. *Separation and Purification Technology*, **2015**, 149, 349-361	8.3	41
106	Quantification of solute-solute interactions using negligible-depletion solid-phase microextraction: measuring the affinity of estradiol to bulk organic matter. *Environmental Science & Technology*, **2008**, 42, 2886-92	10.3	41
105	Social aspects of a solar-powered desalination unit for remote Australian communities. *Desalination* , **2007**, 203, 375-393	10.3	41
104	Municipal wastewater reclamation: where do we stand? An overview of treatment technology and management practice. *Water Science and Technology: Water Supply*, **2005**, 5, 77-85	1.4	41
103	Natural Organics Removal Using Membranes		40
102	Renewable energy powered membrane technology: Case study of St. Dorcas borehole in Tanzania demonstrating fluoride removal via nanofiltration/reverse osmosis. *Separation and Purification Technology*, **2016**, 170, 445-452	8.3	40
101	Implications of humic acid, inorganic carbon and speciation on fluoride retention mechanisms in nanofiltration and reverse osmosis. *Journal of Membrane Science*, **2017**, 528, 82-94	9.6	39
100	Sorption of micropollutant estrone to a water treatment ion exchange resin. *Journal of Environmental Monitoring*, **2010**, 12, 311-7		39
99	Nitrate, arsenic and fluoride removal by electrodialysis from brackish groundwater. *Water Research*, **2021**, 190, 116683	12.5	38
98	Inorganic trace contaminant removal from real brackish groundwater using electrodialysis. *Separation and Purification Technology*, **2017**, 187, 426-435	8.3	37
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96	Design considerations for a solar-powered desalination system for remote communities in Australia. *Desalination*, **2002**, 144, 193-199	10.3	36
95	Adsorption of trace steroid estrogens to hydrophobic hollow fibre membranes. *Desalination*, **2002**, 146, 381-386	10.3	36
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91	Renewable energy powered membrane technology: A review of the reliability of photovoltaic-powered membrane system components for brackish water desalination. *Applied Energy*, **2019**, 253, 113524	10.7	34
90	Renewable energy-powered membrane technology: Supercapacitors for buffering resource fluctuations in a wind-powered membrane system for brackish water desalination. *Renewable Energy*, **2013**, 50, 126-135	8.1	34
89	Organic fouling control through magnetic ion exchange-nanofiltration (MIEX-NF) in water treatment. *Journal of Membrane Science*, **2018**, 549, 474-485	9.6	33
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87	Comparative study of nanofiltration membrane characterization devices of different dimension and configuration (cross flow and dead end). *Journal of Membrane Science*, **2019**, 585, 67-80	9.6	31
86	Testing of a hybrid membrane system for groundwater desalination in an Australian national park. *Desalination*, **2005**, 183, 55-62	10.3	30
85	Photocatalytic degradation of organic dye via atomic layer deposited TiO2 on ceramic membranes in single-pass flow-through operation. *Journal of Membrane Science*, **2020**, 604, 118015	9.6	28
84	Application of solar-powered desalination in a remote town in South Australia. *Desalination*, **2009**, 248, 72-82	10.3	28
83	Removal of fluoride and natural organic matter from natural tropical brackish waters by nanofiltration/reverse osmosis with varying water chemistry. *Chemosphere*, **2019**, 217, 47-58	8.4	28
82	Removal of steroid micropollutants by polymer-based spherical activated carbon (PBSAC) assisted membrane filtration. *Journal of Hazardous Materials*, **2018**, 353, 514-521	12.8	27
81	Cross-linked □cyclodextrin nanofiber composite membrane for steroid hormone micropollutant removal from water. *Journal of Membrane Science*, **2021**, 618, 118228	9.6	27
80	Poly(ether sulfone) Nanofibers Impregnated with □Cyclodextrin for Increased Micropollutant Removal from Water. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 2942-2953	8.3	26
79	Impact of organic matrix compounds on the retention of steroid hormone estrone by a □dose□ nanofiltration membrane. *Separation and Purification Technology*, **2010**, 73, 179-187	8.3	26
78	Assessment of Trace Estrogenic Contaminants Removal by Coagulant Addition, Powdered Activated Carbon Adsorption and Powdered Activated Carbon/Microfiltration Processes. *Journal of Environmental Engineering, ASCE*, **2004**, 130, 736-742	2	25
77	Removal of adsorbing estrogenic micropollutants by nanofiltration membranes: Part B□Modeldevelopment. *Journal of Membrane Science*, **2013**, 431, 257-266	9.6	23
76	From concept to commercialisation: student learning in a sustainable engineering innovation project. *European Journal of Engineering Education*, **2007**, 32, 143-165	1.5	23
75	System design and performance testing of a hybrid membrane □photovltaic desalination system. *Desalination*, **2005**, 179, 51-59	10.3	23

74	Seasonal variation of organic matter concentration and characteristics in the Maji ya Chai River (Tanzania): Impact on treatability by ultrafiltration. *Water Research*, **2016**, 101, 370-381	12.5	23
73	Removal of arsenic(V) by nanofiltration: Impact of water salinity, pH and organic matter. *Journal of Membrane Science*, **2021**, 618, 118631	9.6	23
72	Removal and fouling mechanisms in nanofiltration of polysaccharide solutions. *Desalination*, **2005**, 178, 149-159	10.3	22
71	Renewable energy powered membrane technology: Safe operating window of a brackish water desalination system. *Journal of Membrane Science*, **2014**, 468, 400-409	9.6	21
70	Potential of wind-powered renewable energy membrane systems for Ghana. *Desalination*, **2009**, 248, 169-176	10.3	21
69	Removal of inorganic trace contaminants by electrodialysis in a remote Australian community. *Desalination*, **2009**, 248, 48-57	10.3	20
68	Impact of speciation on behaviour of uranium in a solar powered membrane system for treatment of brackish groundwater. *Separation and Purification Technology*, **2010**, 71, 89-96	8.3	19
67	Recycled and desalinated water: Consumers' associations, and the influence of affect and disgust on willingness to use. *Journal of Environmental Management*, **2020**, 261, 110217	7.9	18
66	The effect of intermittent operation on a wind-powered membrane system for brackish water desalination. *Water Science and Technology*, **2012**, 65, 867-74	2.2	18
65	Direct coagulation pretreatment in nanofiltration of waters rich in organic matter and calcium. *Water Science and Technology: Water Supply*, **2001**, 1, 25-33	1.4	18
64	Quantification of solute–solute interactions in steroidal hormone removal by ultrafiltration membranes. *Separation and Purification Technology*, **2012**, 90, 31-38	8.3	17
63	Sorption of steroidal hormones by electrodialysis membranes. *Journal of Membrane Science*, **2010**, 365, 198-205	9.6	17
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61	Impact of laterite characteristics on fluoride removal from water. *Journal of Chemical Technology and Biotechnology*, **2016**, 91, 911-920	3.5	15
60	Efficient Photocatalytic Removal of Methylene Blue Using a Metalloporphyrin-Poly(vinylidene fluoride) Hybrid Membrane in a Flow-Through Reactor. *ACS Applied Materials & Interfaces*, **2019**, 11, 31763-31776	9.5	15
59	Quantification of hormone-humic acid interactions in nanofiltration. *Environmental Science & Technology*, **2012**, 46, 10597-604	10.3	15
58	Physico-chemical water quality in Ghana: Prospects for water supply technology implementation. *Desalination*, **2009**, 248, 193-203	10.3	15
57	A new approach to increasing diversity in engineering at the example of women in engineering. *European Journal of Engineering Education*, **2006**, 31, 661-671	1.5	15

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55	Renewable energy powered membrane technology: System resilience under solar irradiance fluctuations during the treatment of fluoride-rich natural waters by different nanofiltration/reverse osmosis membranes. *Journal of Membrane Science*, **2021**, 617, 118452	9.6	15
54	Comparison of Photocatalytic Membrane Reactor Types for the Degradation of an Organic Molecule by TiO2-Coated PES Membrane. *Catalysts*, **2020**, 10, 725	4	14
53	Membranes and renewable energy a new era of sustainable development for developing countries. *Membrane Technology*, **2005**, 2005, 6-10	1.8	14
52	Renewable energy powered membrane technology: Impact of pH and ionic strength on fluoride and natural organic matter removal. *Science of the Total Environment*, **2018**, 621, 138-147	10.2	14
51	Low pressure operated ultrafiltration membrane with integration of hollow mesoporous carbon nanospheres for effective removal of micropollutants. *Journal of Hazardous Materials*, **2020**, 397, 122779	12.8	13
50	Removal of Naturally Occurring Strontium by Nanofiltration/Reverse Osmosis from Groundwater. *Membranes*, **2020**, 10,	3.8	12
49	Impact of speciation on removal of manganese and organic matter by nanofiltration **2010**, 59, 152-163		12
48	Relevance of the precautionary principle in water recycling. *Desalination*, **2006**, 187, 241-252	10.3	11
47	Removal of steroid hormone micropollutants by UF-PBSAC composite in presence of organic matter. *Journal of Membrane Science*, **2019**, 592, 117315	9.6	10
46	Interactions between carbon-based nanoparticles and steroid hormone micropollutants in water. *Journal of Hazardous Materials*, **2021**, 402, 122929	12.8	10
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44	Solid-phase microextraction to determine micropollutant-macromolecule partition coefficients. *Nature Protocols*, **2016**, 11, 1328-44	18.8	9
43	Chapter 7 Micropollutants in Water Recycling: A Case Study of N-Nitrosodimethylamine (NDMA) Exposure from Water versus Food. *Sustainability Science and Engineering*, **2010**, 203-228		9
42	Influence of pH on Losses of Analyte Estradiol in Sample Prefiltration. *Environmental Engineering Science*, **2009**, 26, 1157-1161	2	9
41	A performance comparison of individual and combined treatment modules for water recycling. *Environmental Progress*, **2005**, 24, 383-391		9
40	Performance of a small solar-powered hybrid membrane system for remote communities under varying feedwater salinities. *Water Science and Technology: Water Supply*, **2004**, 4, 233-243	1.4	9
39	Investigation of the reaction kinetics of photocatalytic pollutant degradation under defined conditions with inkjet-printed TiO2 films from batch to a novel continuous-flow microreactor. *Reaction Chemistry and Engineering*, **2020**, 5, 1658-1670	4.9	9

38	Renewable energy powered membrane technology: Experimental investigation of system performance with variable module size and fluctuating energy. *Separation and Purification Technology*, **2019**, 221, 64-73	8.3	8
37	Renewable energy powered membrane technology: Computational fluid dynamics evaluation of system performance with variable module size and fluctuating energy. *Separation and Purification Technology*, **2019**, 220, 206-216	8.3	8
36	Renewable energy-powered membrane technology in Tanzanian communities. *Npj Clean Water*, **2018**, 1,	11.2	8
35	Renewable energy powered membrane technology: Impact of solar irradiance fluctuation on direct osmotic backwash. *Journal of Membrane Science*, **2020**, 598, 117666	9.6	7
34	Ultrafiltration to Supply Drinking Water in International Development: A Review of Opportunities **2009**, 151-168		6
33	Renewable energy powered membrane technology: Energy buffering control system for improved resilience to periodic fluctuations of solar irradiance. *Renewable Energy*, **2020**, 149, 877-889	8.1	6
32	Separation and degradation detection of nanogram-per-litre concentrations of radiolabelled steroid hormones using combined liquid chromatography and flow scintillation analysis. *Scientific Reports*, **2020**, 10, 7095	4.9	5
31	Estradiol Uptake in a Combined Magnetic Ion Exchange - Ultrafiltration (MIEX-UF) Process During Water Treatment. *Current Pharmaceutical Design*, **2017**, 23, 328-337	3.3	5
30	Polymer-based spherical activated carbon - ultrafiltration (UF-PBSAC) for the adsorption of steroid hormones from water: Material characteristics and process configuration. *Water Research*, **2020**, 185, 116249	12.5	5
29	Incorporation of single-walled carbon nanotubes in ultrafiltration support structure for the removal of steroid hormone micropollutants. *Separation and Purification Technology*, **2021**, 264, 118405	8.3	5
28	Chapter 12 Renewable Energy Powered Water Treatment Systems. *Sustainability Science and Engineering*, **2010**, 353-373		4
27	Renewable energy powered membrane systems: inorganic contaminant removal from Australian groundwaters. *Membrane Water Treatment*, **2011**, 2, 239-250		4
26	Organic matter interference with steroid hormone removal by single-walled carbon nanotubes□□ultrafiltration composite membrane. *Water Research*, **2021**, 199, 117148	12.5	4
25	Photodegradation of steroid-hormone micropollutants in a flow-through membrane reactor coated with Pd(II)-porphyrin. *Applied Catalysis B: Environmental*, **2021**, 291, 120097	21.8	4
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19	Impact of Feedwater Salinity on Energy Requirements of a Small-Scale Membrane Filtration System **2009**, 123-137		3
18	Autonomous Solar-Powered Desalination Systems for Remote Communities **2017**, 75-125		2
17	Regeneration of Cyclodextrin Based Membrane by Photodynamic Disulfide Exchange Steroid Hormone Removal from Water. *Advanced Materials Interfaces*, **2020**, 7, 1902100	4.6	2
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13	Response to comment on "experimental energy barriers to anions transporting through nanofiltration membranes". *Environmental Science & Technology*, **2013**, 47, 8987-8	10.3	1
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11	Trace Contaminant Removal by Nanofiltration **2021**, 805-887		1
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6	Selenium species removal by nanofiltration: Determination of retention mechanisms.. *Science of the Total Environment*, **2022**, 154287	10.2	0
5	Prospects and State-of-the-Art of Carbon Nanotube Membranes in Desalination Processes **2017**, 305-339		
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2	Removal of steroid hormone micropollutants from water using a membrane composite of UF with permeate side adsorption. *Membrane Technology*, **2021**, 2021, 5-7	1.8
1	Renewable Energy-Powered Nanofiltration **2021**, 961-1020	