

# Andrew G Livingston

## List of Publications by Year in descending order

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281  
papers

18,009  
citations

13865

67  
h-index

17105

122  
g-index

290  
all docs

290  
docs citations

290  
times ranked

9577  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-10 nm polyamide nanofilms with ultrafast solvent transport for molecular separation. <i>Science</i> , 2015, 348, 1347-1351.	12.6	1,461
2	Molecular Separation with Organic Solvent Nanofiltration: A Critical Review. <i>Chemical Reviews</i> , 2014, 114, 10735-10806.	47.7	1,276
3	High Flux Thin Film Nanocomposite Membranes Based on Metal-Organic Frameworks for Organic Solvent Nanofiltration. <i>Journal of the American Chemical Society</i> , 2013, 135, 15201-15208.	13.7	663
4	Polymer nanofilms with enhanced microporosity by interfacial polymerization. <i>Nature Materials</i> , 2016, 15, 760-767.	27.5	594
5	Membranes for the dehydration of solvents by pervaporation. <i>Journal of Membrane Science</i> , 2008, 318, 5-37.	8.2	580
6	High flux membranes for organic solvent nanofiltration (OSN) Interfacial polymerization with solvent activation. <i>Journal of Membrane Science</i> , 2012, 423-424, 371-382.	8.2	318
7	Polymeric membranes for nanofiltration in polar aprotic solvents. <i>Journal of Membrane Science</i> , 2007, 301, 3-10.	8.2	288
8	Sustainability assessment of organic solvent nanofiltration: from fabrication to application. <i>Green Chemistry</i> , 2014, 16, 4440-4473.	9.0	287
9	Water Transport through Ultrathin Polyamide Nanofilms Used for Reverse Osmosis. <i>Advanced Materials</i> , 2018, 30, e1705973.	21.0	266
10	Ultrathin Polymer Films with Intrinsic Microporosity: Anomalous Solvent Permeation and High Flux Membranes. <i>Advanced Functional Materials</i> , 2014, 24, 4729-4737.	14.9	235
11	Beyond polyimide: Crosslinked polybenzimidazole membranes for organic solvent nanofiltration (OSN) in harsh environments. <i>Journal of Membrane Science</i> , 2014, 457, 62-72.	8.2	219
12	Impact of TiO <sub>2</sub> nanoparticles on morphology and performance of crosslinked polyimide organic solvent nanofiltration (OSN) membranes. <i>Journal of Membrane Science</i> , 2009, 343, 189-198.	8.2	201
13	Experimental observations of nanofiltration with organic solvents. <i>Journal of Membrane Science</i> , 2001, 190, 45-55.	8.2	194
14	High flux hydrophobic membranes for organic solvent nanofiltration (OSN) Interfacial polymerization, surface modification and solvent activation. <i>Journal of Membrane Science</i> , 2013, 434, 193-203.	8.2	181
15	Beneath the surface: Influence of supports on thin film composite membranes by interfacial polymerization for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2013, 448, 102-113.	8.2	164
16	Energy consumption for desalination A comparison of forward osmosis with reverse osmosis, and the potential for perfect membranes. <i>Desalination</i> , 2016, 377, 138-151.	8.2	158
17	Solvent transport in organic solvent nanofiltration membranes. <i>Journal of Membrane Science</i> , 2005, 262, 49-59.	8.2	153
18	In search of a standard method for the characterisation of organic solvent nanofiltration membranes. <i>Journal of Membrane Science</i> , 2007, 291, 120-125.	8.2	153

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19	Environmentally friendly route for the preparation of solvent resistant polyimide nanofiltration membranes. <i>Green Chemistry</i> , 2011, 13, 162-168.	9.0	148
20	The separation of homogeneous organometallic catalysts using solvent resistant nanofiltration. <i>Journal of Membrane Science</i> , 2002, 203, 71-85.	8.2	144
21	Improving the permeance of hybrid polymer/metal-organic framework (MOF) membranes for organic solvent nanofiltration (OSN) – development of MOF thin films via interfacial synthesis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9668-9674.	10.3	142
22	Fabrication of hybrid polymer/metal organic framework membranes: mixed matrix membranes versus in situ growth. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9260-9271.	10.3	141
23	<i>N</i> -Aryl-linked spirocyclic polymers for membrane separations of complex hydrocarbon mixtures. <i>Science</i> , 2020, 369, 310-315.	12.6	139
24	Hybrid polymer/MOF membranes for Organic Solvent Nanofiltration (OSN): Chemical modification and the quest for perfection. <i>Journal of Membrane Science</i> , 2016, 503, 166-176.	8.2	135
25	The influence of membrane formation parameters on the functional performance of organic solvent nanofiltration membranes. <i>Journal of Membrane Science</i> , 2007, 299, 236-250.	8.2	134
26	Organic solvent nanofiltration: a potential alternative to distillation for solvent recovery from crystallisation mother liquors. <i>Green Chemistry</i> , 2012, 14, 2197.	9.0	134
27	Organic solvent resistant poly(ether-ether-ketone) nanofiltration membranes. <i>Journal of Membrane Science</i> , 2015, 479, 105-116.	8.2	132
28	The effect of membrane formation parameters on performance of polyimide membranes for organic solvent nanofiltration (OSN): Part A. Effect of polymer/solvent/non-solvent system choice. <i>Journal of Membrane Science</i> , 2011, 381, 152-162.	8.2	127
29	Controlling molecular weight cut-off curves for highly solvent stable organic solvent nanofiltration (OSN) membranes. <i>Journal of Membrane Science</i> , 2008, 324, 220-232.	8.2	123
30	Effect of concentration polarisation and osmotic pressure on flux in organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2004, 236, 121-136.	8.2	122
31	Catalytic wet oxidation of p-coumaric acid: Partial oxidation intermediates, reaction pathways and catalyst leaching. <i>Applied Catalysis B: Environmental</i> , 1996, 7, 379-396.	20.2	120
32	A novel membrane bioreactor for detoxifying industrial wastewater: I. Biodegradation of phenol in a synthetically concocted wastewater. <i>Biotechnology and Bioengineering</i> , 1993, 41, 915-926.	3.3	117
33	Crosslinked polybenzimidazole membranes for organic solvent nanofiltration (OSN): Analysis of crosslinking reaction mechanism and effects of reaction parameters. <i>Journal of Membrane Science</i> , 2015, 493, 568-579.	8.2	115
34	Physico-chemical interpretation of the SRNF transport mechanism for solvents through dense silicone membranes. <i>Journal of Membrane Science</i> , 2004, 231, 99-108.	8.2	113
35	Ethanol utilization by sulfate-reducing bacteria: An experimental and modeling study. <i>Biotechnology and Bioengineering</i> , 2000, 70, 533-543.	3.3	112
36	Mixed matrix membranes for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2014, 452, 354-366.	8.2	111

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37	A smart and responsive crystalline porous organic cage membrane with switchable pore apertures for graded molecular sieving. <i>Nature Materials</i> , 2022, 21, 463-470.	27.5	108
38	Micro-to nano-scale characterisation of polyamide structures of the SW30HR RO membrane using advanced electron microscopy and stain tracers. <i>Journal of Membrane Science</i> , 2016, 520, 465-476.	8.2	107
39	Modeling phenol degradation in a fluidized-bed bioreactor. <i>AIChE Journal</i> , 1989, 35, 1980-1992.	3.6	106
40	Aqueous-aqueous extraction of organic pollutants through tubular silicone rubber membranes. <i>Journal of Membrane Science</i> , 1995, 104, 119-137.	8.2	106
41	Recovery and reuse of ionic liquids and palladium catalyst for Suzuki reactions using organic solvent nanofiltration. <i>Green Chemistry</i> , 2006, 8, 373.	9.0	105
42	Semi-continuous nanofiltration-coupled Heck reactions as a new approach to improve productivity of homogeneous catalysts. <i>Tetrahedron Letters</i> , 2001, 42, 8219-8222.	1.4	102
43	A robust thin film composite membrane incorporating thermally rearranged polymer support for organic solvent nanofiltration and pressure retarded osmosis. <i>Journal of Membrane Science</i> , 2018, 550, 322-331.	8.2	100
44	Microbial sulfate reduction in a liquid-solid fluidized bed reactor. <i>Biotechnology and Bioengineering</i> , 2000, 70, 370-380.	3.3	97
45	Nanofiltration membrane cascade for continuous solvent exchange. <i>Chemical Engineering Science</i> , 2007, 62, 2728-2736.	3.8	95
46	The Selectivity Challenge in Organic Solvent Nanofiltration: Membrane and Process Solutions. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2017, 8, 473-497.	6.8	94
47	Optimal design of solvent blends for environmental impact minimization. <i>AIChE Journal</i> , 1999, 45, 817-843.	3.6	92
48	Method for the preparation of cellulose acetate flat sheet composite membranes for forward osmosis Desalination using MgSO <sub>4</sub> draw solution. <i>Desalination</i> , 2011, 273, 299-307.	8.2	91
49	Environmental impact considerations in the optimal design and scheduling of batch processes. <i>Computers and Chemical Engineering</i> , 1997, 21, 1073-1094.	3.8	89
50	Increasing the sustainability of membrane processes through cascade approach and solvent recovery pharmaceutical purification case study. <i>Green Chemistry</i> , 2014, 16, 133-145.	9.0	89
51	Crosslinked integrally skinned asymmetric polyaniline membranes for use in organic solvents. <i>Journal of Membrane Science</i> , 2009, 326, 635-642.	8.2	88
52	Use of Continuous MSMRP Crystallization with Integrated Nanofiltration Membrane Recycle for Enhanced Yield and Purity in API Crystallization. <i>Crystal Growth and Design</i> , 2014, 14, 617-627.	3.0	88
53	Demonstration of Molecular Purification in Polar Aprotic Solvents by Organic Solvent Nanofiltration. <i>Organic Process Research and Development</i> , 2010, 14, 600-611.	2.7	86
54	Speciation of Pd(OAc) <sub>2</sub> in ligandless Suzuki-Miyaura reactions. <i>Catalysis Science and Technology</i> , 2012, 2, 316-323.	4.1	86

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55	Observations on solvent flux and solute rejection across solvent resistant nanofiltration membranes. <i>Desalination</i> , 2002, 147, 307-313.	8.2	85
56	Membranes from academia to industry. <i>Nature Materials</i> , 2017, 16, 280-282.	27.5	84
57	Polyamide thin film composite membranes on cross-linked polyimide supports: Improvement of RO performance via activating solvent. <i>Desalination</i> , 2014, 344, 181-188.	8.2	83
58	Roll-to-roll dip coating of three different PIMs for Organic Solvent Nanofiltration. <i>Journal of Membrane Science</i> , 2018, 558, 52-63.	8.2	83
59	A novel membrane bioreactor for detoxifying industrial wastewater: II. Biodegradation of 3-chloronitrobenzene in an industrially produced wastewater. <i>Biotechnology and Bioengineering</i> , 1993, 41, 927-936.	3.3	82
60	The effect of membrane formation parameters on performance of polyimide membranes for organic solvent nanofiltration (OSN). Part B: Analysis of evaporation step and the role of a co-solvent. <i>Journal of Membrane Science</i> , 2011, 381, 163-171.	8.2	82
61	Hydrodynamic behaviour of three-phase (gas-liquid-solid) airlift reactors. <i>Chemical Engineering Science</i> , 1993, 48, 1641-1654.	3.8	81
62	Organic fouling behaviour of structurally and chemically different forward osmosis membranes – A study of cellulose triacetate and thin film composite membranes. <i>Journal of Membrane Science</i> , 2016, 520, 247-261.	8.2	79
63	Degradation of Chloronitrobenzenes by a Coculture of <i>Pseudomonas putida</i> and a <i>Rhodococcus</i> sp. <i>Applied and Environmental Microbiology</i> , 1999, 65, 1083-1091.	3.1	79
64	Organic Solvent Nanofiltration and Adsorbents; A Hybrid Approach to Achieve Ultra Low Palladium Contamination of Post Coupling Reaction Products. <i>Organic Process Research and Development</i> , 2008, 12, 589-595.	2.7	78
65	Membrane Separation in Green Chemical Processing. <i>Annals of the New York Academy of Sciences</i> , 2003, 984, 123-141.	3.8	71
66	Assessment of atomic force microscopy for characterisation of nanofiltration membranes. <i>Journal of Membrane Science</i> , 2013, 425-426, 58-70.	8.2	71
67	In Situ Solvent Recovery by Organic Solvent Nanofiltration. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 2371-2379.	6.7	71
68	Application of Organic Solvent Nanofiltration to Separation of Ionic Liquids and Products from Ionic Liquid Mediated Reactions. <i>Chemical Engineering Research and Design</i> , 2005, 83, 309-316.	5.6	70
69	Biodegradation of 3,4-dichloroaniline in a fluidized bed bioreactor and a steady-state biofilm Kinetic model. <i>Biotechnology and Bioengineering</i> , 1991, 38, 260-272.	3.3	69
70	Continuous purification of active pharmaceutical ingredients using multistage organic solvent nanofiltration membrane cascade. <i>Chemical Engineering Science</i> , 2014, 116, 183-194.	3.8	69
71	Wastewater treatment: wet air oxidation as a precursor to biological treatment. <i>Catalysis Today</i> , 1999, 53, 93-106.	4.4	68
72	Extractive membrane bioreactors: A new process technology for detoxifying chemical industry wastewaters. <i>Journal of Chemical Technology and Biotechnology</i> , 1994, 60, 117-124.	3.2	67

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73	Predictive membrane transport models for Organic Solvent Nanofiltration: How complex do we need to be?. <i>Journal of Membrane Science</i> , 2015, 476, 530-553.	8.2	67
74	Wet air oxidation of polyethylene glycols; mechanisms, intermediates and implications for integrated chemical-biological wastewater treatment. <i>Chemical Engineering Science</i> , 1996, 51, 4219-4235.	3.8	66
75	Extractive membrane bioreactors for detoxification of chemical industry wastes: process development. <i>Journal of Membrane Science</i> , 1998, 151, 29-44.	8.2	64
76	Sequence-defined multifunctional polyethers via liquid-phase synthesis with molecular sieving. <i>Nature Chemistry</i> , 2019, 11, 136-145.	13.6	64
77	Controlling molecular weight cut-off of PEEK nanofiltration membranes using a drying method. <i>Journal of Membrane Science</i> , 2015, 493, 524-538.	8.2	63
78	Membrane aromatic recovery system (MARS) – a new membrane process for the recovery of phenols from wastewaters. <i>Journal of Membrane Science</i> , 2001, 188, 219-233.	8.2	62
79	Homogeneous catalyst separation and re-use through nanofiltration of organic solvents. <i>Desalination</i> , 2002, 147, 301-306.	8.2	62
80	An improved phenomenological model for prediction of solvent permeation through ceramic NF and UF membranes. <i>Journal of Membrane Science</i> , 2012, 415-416, 444-458.	8.2	62
81	Negligible ageing in poly(ether-ether-ketone) membranes widens application range for solvent processing. <i>Journal of Membrane Science</i> , 2017, 525, 48-56.	8.2	62
82	Novel membrane bioreactor for detoxification of VOC wastewaters: Biodegradation of 1,2-dichloroethane. <i>Water Research</i> , 1995, 29, 179-194.	11.3	61
83	Spiral-wound polyaniline membrane modules for organic solvent nanofiltration (OSN). <i>Journal of Membrane Science</i> , 2010, 349, 123-129.	8.2	61
84	Batchwise and Continuous Nanofiltration of POSS-tagged Grubbs-type Olefin Metathesis Catalysts. <i>ChemSusChem</i> , 2013, 6, 182-192.	6.8	61
85	Homogeneous phase transfer catalyst recovery and re-use using solvent resistant membranes. <i>Journal of Membrane Science</i> , 2002, 201, 65-75.	8.2	57
86	Membrane-attached biofilms for VOC wastewater treatment I: Novel in situ biofilm thickness measurement technique. <i>Biotechnology and Bioengineering</i> , 1995, 47, 82-89.	3.3	56
87	When the membrane is not enough: A simplified membrane cascade using Organic Solvent Nanofiltration (OSN). <i>Separation and Purification Technology</i> , 2013, 116, 277-286.	7.9	56
88	Molecularly imprinted organic solvent nanofiltration membranes – Revealing molecular recognition and solute rejection behaviour. <i>Reactive and Functional Polymers</i> , 2015, 86, 215-224.	4.1	56
89	Nanoporous asymmetric polyaniline films for filtration of organic solvents. <i>Journal of Membrane Science</i> , 2009, 330, 166-174.	8.2	55
90	The effect of membrane formation parameters on performance of polyimide membranes for organic solvent nanofiltration (OSN). Part C. Effect of polyimide characteristics. <i>Journal of Membrane Science</i> , 2011, 381, 172-182.	8.2	55

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91	Reducing the Pore Size of Covalent Organic Frameworks in Thin-Film Composite Membranes Enhances Solute Rejection. , 2019, 1, 440-446.		55
92	Minimizing the environmental impact of process Plants: A process systems methodology. Computers and Chemical Engineering, 1995, 19, 39-44.	3.8	54
93	Nanofiltration process for the nutritional enrichment and refining of rice bran oil. Journal of Food Engineering, 2011, 102, 16-24.	5.2	54
94	Solvent recycle with imperfect membranes: A semi-continuous workaround for diafiltration. Journal of Membrane Science, 2016, 514, 646-658.	8.2	54
95	Will ultra-high permeance membranes lead to ultra-efficient processes? Challenges for molecular separations in liquid systems. Journal of Membrane Science, 2017, 525, 35-47.	8.2	54
96	Use of ATP to characterize biomass viability in freely suspended and immobilized cell bioreactors. Biotechnology and Bioengineering, 1993, 42, 1337-1351.	3.3	53
97	Continuous solute fractionation with membrane cascades " A high productivity alternative to diafiltration. Separation and Purification Technology, 2013, 102, 1-14.	7.9	53
98	Organic solvent nanofiltration in asymmetric hydrogenation: enhancement of enantioselectivity and catalyst stability by ionic liquids. Chemical Communications, 2006, , 2063.	4.1	51
99	Towards improved membrane production: using low-toxicity solvents for the preparation of PEEK nanofiltration membranes. Green Chemistry, 2016, 18, 2374-2384.	9.0	50
100	Membrane-attached biofilms for VOC wastewater treatment. II: Effect of biofilm thickness on performance. Biotechnology and Bioengineering, 1995, 47, 90-95.	3.3	48
101	Pore preserving crosslinkers for polyimide OSN membranes. Journal of Membrane Science, 2014, 465, 138-150.	8.2	48
102	Partial wet oxidation of p-coumaric acid: Oxidation intermediates, reaction pathways and implications for wastewater treatment. Water Research, 1996, 30, 2969-2976.	11.3	47
103	Neutron Reflectivity and Performance of Polyamide Nanofilms for Water Desalination. Advanced Functional Materials, 2017, 27, 1701738.	14.9	47
104	A membrane bioreactor for biotransformations of hydrophobic molecules. , 1998, 58, 587-594.		46
105	Increased catalytic productivity for nanofiltration-coupled Heck reactions using highly stable catalyst systems. Green Chemistry, 2002, 4, 319-324.	9.0	46
106	A membrane bioreactor for biotransformations of hydrophobic molecules using organic solvent nanofiltration (OSN) membranes†. Journal of Membrane Science, 2008, 317, 50-64.	8.2	46
107	Experimental strategies for increasing the catalyst turnover number in a continuous Heck coupling reaction. Journal of Catalysis, 2013, 306, 190-201.	6.2	46
108	Organic Solvent Nanofiltration (OSN): A New Technology Platform for Liquid-Phase Oligonucleotide Synthesis (LPOS). Organic Process Research and Development, 2016, 20, 1439-1452.	2.7	46



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109	Organic Solvent Nanofiltration: A New Paradigm in Peptide Synthesis. <i>Organic Process Research and Development</i> , 2010, 14, 1313-1325.	2.7	45
110	Membranes for Organic Solvent Nanofiltration Based on Preassembled Nanoparticles. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 1109-1121.	3.7	44
111	Catalytic wet air oxidation of polyethylene glycol. <i>Applied Catalysis B: Environmental</i> , 1996, 11, 99-119.	20.2	43
112	Polyaniline membranes for the dehydration of tetrahydrofuran by pervaporation. <i>Journal of Membrane Science</i> , 2008, 309, 102-111.	8.2	43
113	Efficient and productive asymmetric Michael addition: development of a highly enantioselective quinidine-based organocatalyst for homogeneous recycling via nanofiltration. <i>Green Chemistry</i> , 2013, 15, 663.	9.0	43
114	Mass transfer of hydrophobic solutes in solvent swollen silicone rubber membranes. <i>Journal of Membrane Science</i> , 1999, 154, 127-140.	8.2	42
115	Membrane characterisation by SEM, TEM and ESEM: The implications of dry and wetted microstructure on mass transfer through integrally skinned polyimide nanofiltration membranes. <i>Separation and Purification Technology</i> , 2009, 66, 90-97.	7.9	42
116	Membrane enhanced peptide synthesis. <i>Chemical Communications</i> , 2010, 46, 2808.	4.1	42
117	Molecular separation with an organic solvent nanofiltration cascade – augmenting membrane selectivity with process engineering. <i>Chemical Engineering Science</i> , 2013, 90, 299-310.	3.8	42
118	The effect of ionic liquids on product yield and catalyst stability. <i>Chemical Engineering Science</i> , 2006, 61, 1338-1341.	3.8	41
119	Substrate counterdiffusion and reaction in membrane-attached biofilms: mathematical analysis of rate limiting mechanisms. <i>Chemical Engineering Science</i> , 2000, 55, 1385-1398.	3.8	40
120	Control of membrane-attached biofilms using surfactants. <i>Biotechnology and Bioengineering</i> , 2006, 94, 15-23.	3.3	40
121	Biological detoxification of a 3-chloronitrobenzene manufacture wastewater in an extractive membrane bioreactor. <i>Water Research</i> , 1994, 28, 1347-1354.	11.3	39
122	Membrane Fractionation of Liquors from Lignin-First Biorefining. <i>ChemSusChem</i> , 2019, 12, 1203-1212.	6.8	39
123	Wet Air Oxidation of Linear Alkylbenzene Sulfonate 1. Effect of Temperature and Pressure. <i>Industrial &amp; Engineering Chemistry Research</i> , 2001, 40, 5507-5516.	3.7	38
124	Effect of solute concentration and mass transfer limitations on transport in organic solvent nanofiltration – partially rejected solute. <i>Journal of Membrane Science</i> , 2006, 280, 889-898.	8.2	38
125	The regulatory logic of <i>m</i> -xylene biodegradation by <i>Pseudomonas putida</i> exposed by dynamic modelling of the principal node of the TOL plasmid. <i>Environmental Microbiology</i> , 2010, 12, 1705-1718.	3.8	38
126	On the Potential of Organic Solvent Nanofiltration in Continuous Heck Coupling Reactions. <i>Organic Process Research and Development</i> , 2013, 17, 967-975.	2.7	38



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127	Integration of Wet Oxidation and Nanofiltration for Treatment of Recalcitrant Organics in Wastewater. <i>Industrial &amp; Engineering Chemistry Research</i> , 1997, 36, 5054-5062.	3.7	37
128	Beyond PEG2000: Synthesis and Functionalisation of Monodisperse PEGylated Homostars and Clickable Bivalent Polyethyleneglycols. <i>Chemistry - A European Journal</i> , 2014, 20, 10038-10051.	3.3	37
129	Iterative synthesis of monodisperse PEG homostars and linear heterobifunctional PEG. <i>Polymer Chemistry</i> , 2014, 5, 694-697.	3.9	37
130	Polyaniline hollow fibres for organic solvent nanofiltration. <i>Chemical Communications</i> , 2008, , 6324.	4.1	36
131	Nanoprobe imaging molecular scale pores in polymeric membranes. <i>Journal of Membrane Science</i> , 2012, 413-414, 1-16.	8.2	36
132	OSN Designer, a tool for predicting organic solvent nanofiltration technology performance using Aspen One, MATLAB and CAPE OPEN. <i>Chemical Engineering Science</i> , 2013, 104, 975-987.	3.8	36
133	Integrated Wet Air Oxidation and Biological Treatment of Polyethylene Glycol-Containing Wastewaters. <i>Journal of Chemical Technology and Biotechnology</i> , 1997, 70, 147-156.	3.2	35
134	Dehydration of tetrahydrofuran by pervaporation using a composite membrane. <i>Journal of Membrane Science</i> , 2006, 268, 13-19.	8.2	35
135	Enantiomer separation by enantioselective inclusion complexation of organic solvent nanofiltration. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 1846-1852.	1.8	35
136	NF in organic solvent/water mixtures: Role of preferential solvation. <i>Journal of Membrane Science</i> , 2013, 444, 101-115.	8.2	35
137	Dichloroethane Removal from Gas Streams by an Extractive Membrane Bioreactor. <i>Biotechnology Progress</i> , 1995, 11, 194-201.	2.6	34
138	Treatment of metal-containing wastewaters with a novel extractive membrane reactor using sulfate-reducing bacteria. <i>Journal of Chemical Technology and Biotechnology</i> , 2001, 76, 61-68.	3.2	34
139	Recovery of Aniline from Aqueous Solution Using the Membrane Aromatic Recovery System (MARS). <i>Industrial &amp; Engineering Chemistry Research</i> , 2002, 41, 2766-2774.	3.7	34
140	Continuous Consecutive Reactions with Inter- $\text{C}$ Reaction Solvent Exchange by Membrane Separation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13576-13579.	13.8	34
141	The anoxic extractive membrane bioreactor. <i>Water Research</i> , 2003, 37, 1231-1238.	11.3	33
142	Separation of Reaction Product and Palladium Catalyst after a Heck Coupling Reaction by means of Organic Solvent Nanofiltration. <i>ChemSusChem</i> , 2012, 5, 188-193.	6.8	33
143	Chemical treatment of an anionic surfactant wastewater: electrospray-ms studies of intermediates and effect on aerobic biodegradability. <i>Water Research</i> , 2001, 35, 3337-3344.	11.3	32
144	Novel $\text{MBRs}$ for the removal of organic priority pollutants from industrial wastewaters: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1949-1967.	3.2	32

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145	Biotreatment of a point-source industrial wastewater arising in 3,4-dichloroaniline manufacture using an extractive membrane bioreactor. <i>Biotechnology Progress</i> , 1994, 10, 65-75.	2.6	31
146	Membrane aromatic recovery system (MARS): lab bench to industrial pilot scale. <i>Desalination</i> , 2002, 148, 267-273.	8.2	31
147	An attempt to compare the performance of bioscrubbers and biotrickling filters for degradation of ethyl acetate in gas streams. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 1252-1260.	3.2	31
148	A compact and scalable fabrication method for robust thin film composite membranes. <i>Green Chemistry</i> , 2018, 20, 1887-1898.	9.0	31
149	Membrane Fouling: Does Microscale Roughness Matter?. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 5424-5431.	3.7	31
150	Development of a phenol degrading fluidized bed bioreactor for constant biomass holdup. <i>The Chemical Engineering Journal</i> , 1991, 45, B57-B66.	0.3	30
151	Degradation of 3,4-dichloroaniline in synthetic and industrially produced wastewaters by mixed cultures freely suspended and immobilized in a packed-bed reactor. <i>Applied Microbiology and Biotechnology</i> , 1991, 35, 551-7.	3.6	30
152	Extraction and biodegradation of a toxic volatile organic compound (1,2-dichloroethane) from waste-water in a membrane bioreactor. <i>Applied Microbiology and Biotechnology</i> , 1994, 42, 421-431.	3.6	30
153	Phase-transfer catalyst separation and re-use by solvent resistant nanofiltration membranes. <i>Chemical Communications</i> , 2001, , 1468-1469.	4.1	29
154	Pervaporation-biological oxidation hybrid process for removal of volatile organic compounds from wastewaters. <i>Journal of Membrane Science</i> , 2002, 195, 75-88.	8.2	29
155	Probing flow activity in polyamide layer of reverse osmosis membrane with nanoparticle tracers. <i>Journal of Membrane Science</i> , 2017, 534, 9-17.	8.2	29
156	Preparation and characterization of adsorbents for use in high-performance liquid affinity chromatography. <i>Journal of Chromatography A</i> , 1989, 481, 159-174.	3.7	28
157	Evidence of species succession during chlorobenzene biodegradation. <i>Biotechnology and Bioengineering</i> , 2008, 99, 68-74.	3.3	28
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