

James A Mcdonald

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77
papers

3,210
citations

32
h-index

55
g-index

79
ext. papers

3,561
ext. citations

7.7
avg, IF

5.27
L-index

#	Paper	IF	Citations
77	Removal of trace organics by MBR treatment: the role of molecular properties. <i>Water Research</i> , 2011 , 45, 2439-51	12.5	345
76	Combining MBR and NF/RO membrane filtration for the removal of trace organics in indirect potable water reuse applications. <i>Journal of Membrane Science</i> , 2010 , 365, 206-215	9.6	188
75	Sorption of emerging trace organic compounds onto wastewater sludge solids. <i>Water Research</i> , 2011 , 45, 3417-26	12.5	179
74	Performance of a novel osmotic membrane bioreactor (OMBR) system: flux stability and removal of trace organics. <i>Bioresource Technology</i> , 2012 , 113, 201-6	11	154
73	Removal of trace organic contaminants by the forward osmosis process. <i>Separation and Purification Technology</i> , 2013 , 103, 258-266	8.3	128
72	Removal of trace organics by anaerobic membrane bioreactors. <i>Water Research</i> , 2014 , 49, 103-12	12.5	123
71	Effect of mixed liquor pH on the removal of trace organic contaminants in a membrane bioreactor. <i>Bioresource Technology</i> , 2010 , 101, 1494-500	11	119
70	Long-lived charge-separated state produced by photoinduced electron transfer in a zinc imidazoporphyrin-C(60) dyad. <i>Organic Letters</i> , 2003 , 5, 2719-21	6.2	88
69	Development of a predictive framework to assess the removal of trace organic chemicals by anaerobic membrane bioreactor. <i>Bioresource Technology</i> , 2015 , 189, 391-398	11	85
68	Removal of pharmaceuticals and endocrine disrupting chemicals by a submerged membrane photocatalysis reactor (MPR). <i>Separation and Purification Technology</i> , 2014 , 127, 131-139	8.3	80
67	Occurrence of trace organic contaminants in wastewater sludge and their removals by anaerobic digestion. <i>Bioresource Technology</i> , 2016 , 210, 153-9	11	74
66	Effects of caustic cleaning on pore size of nanofiltration membranes and their rejection of trace organic chemicals. <i>Journal of Membrane Science</i> , 2013 , 447, 153-162	9.6	67
65	Analysis of N-nitrosamines in water by isotope dilution gas chromatography-electron ionisation tandem mass spectrometry. <i>Talanta</i> , 2012 , 99, 146-54	6.2	65
64	An anaerobic membrane bioreactor - membrane distillation hybrid system for energy recovery and water reuse: Removal performance of organic carbon, nutrients, and trace organic contaminants. <i>Science of the Total Environment</i> , 2018 , 628-629, 358-365	10.2	61
63	Effects of feed solution characteristics on the rejection of N-nitrosamines by reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2012 , 409-410, 66-74	9.6	60
62	Effects of salinity build-up on the performance of an anaerobic membrane bioreactor regarding basic water quality parameters and removal of trace organic contaminants. <i>Bioresource Technology</i> , 2016 , 216, 399-405	11	59
61	Nanofiltration of trace organic chemicals: A comparison between ceramic and polymeric membranes. <i>Separation and Purification Technology</i> , 2014 , 136, 258-264	8.3	59

60	An assessment of endocrine activity in Australian rivers using chemical and in vitro analyses. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 12951-67	5.1	55
59	Disinfectant residual stability leading to disinfectant decay and by-product formation in drinking water distribution systems: A systematic review. <i>Water Research</i> , 2019 , 153, 335-348	12.5	53
58	Effects of membrane fouling on N-nitrosamine rejection by nanofiltration and reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2013 , 427, 311-319	9.6	53
57	N-nitrosamine rejection by nanofiltration and reverse osmosis membranes: The importance of membrane characteristics. <i>Desalination</i> , 2013 , 316, 67-75	10.3	52
56	A national survey of trace organic contaminants in Australian rivers. <i>Journal of Environmental Quality</i> , 2014 , 43, 1702-12	3.4	49
55	Quinoxalino[2,3-b']porphyrins behave as pi-expanded porphyrins upon one-electron reduction: broad control of the degree of delocalization through substitution at the macrocycle periphery. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8762-74	3.4	49
54	Fate of trace organic compounds during treatment by nanofiltration. <i>Journal of Membrane Science</i> , 2011 , 373, 130-139	9.6	48
53	N-nitrosamine rejection by reverse osmosis membranes: a full-scale study. <i>Water Research</i> , 2013 , 47, 6141-8	12.5	46
52	Nutrient and trace organic contaminant removal from wastewater of a resort town: Comparison between a pilot and a full scale membrane bioreactor. <i>International Biodeterioration and Biodegradation</i> , 2015 , 102, 40-48	4.8	45
51	Is halogen content the most important factor in the removal of halogenated trace organics by MBR treatment?. <i>Bioresource Technology</i> , 2011 , 102, 6299-303	11	44
50	The fate of trace organic contaminants during anaerobic digestion of primary sludge: A pilot scale study. <i>Bioresource Technology</i> , 2018 , 256, 384-390	11	41
49	Porphyrin-mediated cell surface heme capture from hemoglobin by <i>Porphyromonas gingivalis</i> . <i>Journal of Bacteriology</i> , 2003 , 185, 2528-37	3.5	39
48	Fused porphyrin-imidazole systems: new building blocks for synthesis of porphyrin arrays. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1999 , 2429-2431		37
47	Distinct enantiomeric signals of ibuprofen and naproxen in treated wastewater and sewer overflow. <i>Chirality</i> , 2014 , 26, 739-46	2.1	35
46	Effects of sulphur on the performance of an anaerobic membrane bioreactor: Biological stability, trace organic contaminant removal, and membrane fouling. <i>Bioresource Technology</i> , 2018 , 250, 171-177	11	34
45	Removal of N-nitrosamines by an aerobic membrane bioreactor. <i>Bioresource Technology</i> , 2013 , 141, 41-51	11	28
44	Rejection of trace organic chemicals by a hollow fibre cellulose triacetate reverse osmosis membrane. <i>Desalination</i> , 2015 , 368, 69-75	10.3	28
43	Physiological and Proteomic Responses of Continuous Cultures of <i>Microcystis aeruginosa</i> PCC 7806 to Changes in Iron Bioavailability and Growth Rate. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 5918-29	4.8	26

42	Effects of thermal pre-treatment and recuperative thickening on the fate of trace organic contaminants during anaerobic digestion of sewage sludge. <i>International Biodeterioration and Biodegradation</i> , 2017 , 124, 146-154	4.8	24
41	Electrochemistry and spectroelectrochemistry of beta,beta'-fused quinoxalinoporphyrins and related extended bis-porphyrins with Co(III), Co(II), and Co(I) central metal ions. <i>Inorganic Chemistry</i> , 2010 , 49, 1027-38	5.1	24
40	New insights into the relationship between draw solution chemistry and trace organic rejection by forward osmosis. <i>Journal of Membrane Science</i> , 2019 , 587, 117184	9.6	23
39	Control of the site and potential of reduction and oxidation processes in pi-expanded quinoxalinoporphyrins. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 515-27	3.6	23
38	N-nitrosamine rejection by reverse osmosis: Effects of membrane exposure to chemical cleaning reagents. <i>Desalination</i> , 2014 , 343, 60-66	10.3	22
37	Enantiomeric analysis of polycyclic musks in water by chiral gas chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2013 , 1303, 66-75	4.5	22
36	Diffusion coefficients of the monomer and oligomers in hydroxyethyl methacrylate. <i>Journal of Polymer Science Part A</i> , 2003 , 41, 2491-2501	2.5	22
35	Concentrations of levonorgestrel and ethinylestradiol in wastewater effluents: Is the progestin also cause for concern?. <i>Environmental Toxicology and Chemistry</i> , 2016 , 35, 1378-85	3.8	19
34	Rejection of trace organic chemicals by a nanofiltration membrane: the role of molecular properties and effects of caustic cleaning. <i>Environmental Science: Water Research and Technology</i> , 2015 , 1, 846-854	4.2	18
33	Modelling the rejection of N-nitrosamines by a spiral-wound reverse osmosis system: Mathematical model development and validation. <i>Journal of Membrane Science</i> , 2014 , 454, 212-219	9.6	18
32	Rejection of small solutes by reverse osmosis membranes for water reuse applications: A pilot-scale study. <i>Desalination</i> , 2014 , 350, 28-34	10.3	18
31	The fate of trace organic contaminants in sewage sludge during recuperative thickening anaerobic digestion. <i>Bioresource Technology</i> , 2017 , 240, 197-206	11	16
30	Impact of hazardous events on the removal of nutrients and trace organic contaminants by an anoxic-aerobic membrane bioreactor receiving real wastewater. <i>Bioresource Technology</i> , 2015 , 192, 192-201	11	16
29	Synthetically tuneable biomimetic artificial photosynthetic reaction centres that closely resemble the natural system in purple bacteria. <i>Chemical Science</i> , 2016 , 7, 6534-6550	9.4	16
28	Assessment of trace organic chemical removal by a membrane bioreactor using gas chromatography/mass spectrometry and a yeast screen bioassay. <i>Environmental Toxicology and Chemistry</i> , 2009 , 28, 2537-45	3.8	16
27	Occurrence and bioconcentration of micropollutants in Silver Perch (<i>Bidyanus bidyanus</i>) in a reclaimed water reservoir. <i>Science of the Total Environment</i> , 2019 , 650, 585-593	10.2	16
26	Fate of trace organic contaminants in oxic-settling-anoxic (OSA) process applied for biosolids reduction during wastewater treatment. <i>Bioresource Technology</i> , 2017 , 240, 181-191	11	15
25	Analysis of organophosphate flame retardants and plasticisers in water by isotope dilution gas chromatography-electron ionisation tandem mass spectrometry. <i>Talanta</i> , 2015 , 143, 114-120	6.2	15

24	Biological performance and trace organic contaminant removal by a side-stream ceramic nanofiltration membrane bioreactor. <i>International Biodeterioration and Biodegradation</i> , 2016 , 113, 49-56 ^{4.8}	15
23	Continuous transformation of chiral pharmaceuticals in enzymatic membrane bioreactors for advanced wastewater treatment. <i>Water Science and Technology</i> , 2017 , 76, 1816-1826	2.2 15
22	Quantifying human exposure to contaminants for multiple-barrier water reuse systems. <i>Water Science and Technology</i> , 2010 , 61, 77-83	2.2 14
21	Histopathology, vitellogenin and chemical body burden in mosquitofish (<i>Gambusia holbrooki</i>) sampled from six river sites receiving a gradient of stressors. <i>Science of the Total Environment</i> , 2018 , 616-617, 1638-1648	10.2 13
20	Biocatalytic metal-organic framework nanomotors for active water decontamination. <i>Chemical Communications</i> , 2020 , 56, 14837-14840	5.8 13
19	Effects of salinity on the removal of trace organic contaminants by membrane bioreactor treatment for water reuse. <i>Desalination and Water Treatment</i> , 2013 , 51, 5164-5171	11
18	Removal of organic matter from wastewater reverse osmosis concentrate using granular activated carbon and anion exchange resin adsorbent columns in sequence. <i>Chemosphere</i> , 2020 , 261, 127549	8.4 11
17	Ozonation of N-Nitrosamines in the Reverse Osmosis Concentrate from Water Recycling Applications. <i>Ozone: Science and Engineering</i> , 2014 , 36, 174-180	2.4 10
16	Validating the rejection of trace organic chemicals by reverse osmosis membranes using a pilot-scale system. <i>Desalination</i> , 2015 , 358, 18-26	10.3 9
15	Enhanced nanofiltration rejection of inorganic and organic compounds from a wastewater-reclamation plant micro-filtered water using adsorption pre-treatment. <i>Separation and Purification Technology</i> , 2021 , 260, 118207	8.3 9
14	Effect of fouling on removal of trace organic compounds by nanofiltration. <i>Drinking Water Engineering and Science</i> , 2011 , 4, 71-82	2 8
13	An Introduction to the Scientific Process: Preparation of Poly(vinyl acetate) Glue. <i>Journal of Chemical Education</i> , 2001 , 78, 1370	2.4 8
12	Assessing the potential for trace organic contaminants commonly found in Australian rivers to induce vitellogenin in the native rainbowfish (<i>Melanotaenia fluviatilis</i>) and the introduced mosquitofish (<i>Gambusia holbrooki</i>). <i>Aquatic Toxicology</i> , 2017 , 185, 105-120	5.1 7
11	Glycerol dialkyl glycerol tetraethers (GDGT) distributions from soil to cave: Refining the speleothem paleothermometer. <i>Organic Geochemistry</i> , 2019 , 136, 103890	3.1 6
10	Surface modification of nanofiltration membranes to improve the removal of organic micropollutants: Linking membrane characteristics to solute transmission. <i>Water Research</i> , 2021 , 203, 117520	12.5 6
9	A multivariate Bayesian network analysis of water quality factors influencing trihalomethanes formation in drinking water distribution systems. <i>Water Research</i> , 2021 , 190, 116712	12.5 4
8	Chemical monitoring strategy for the assessment of advanced water treatment plant performance. <i>Water Science and Technology: Water Supply</i> , 2010 , 10, 961-968	1.4 3
7	Chemical monitoring strategy for the assessment of advanced water treatment plant performance. <i>Water Science and Technology</i> , 2011 , 63, 573-9	2.2 3

6	Structural requirements for recognition of essential porphyrin by <i>Porphyromonas gingivalis</i> . <i>Journal of Porphyrins and Phthalocyanines</i> , 2002 , 06, 774-782	1.8	3
5	Multivariate experimental design provides insights for the optimisation of rechloramination conditions and water age to control disinfectant decay and disinfection by-product formation in treated drinking water.. <i>Science of the Total Environment</i> , 2022 , 154324	10.2	2
4	Control of the site and potential of reduction and oxidation processes in pi-expanded quinoxalinoporphyrins. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 268-80	3.6	1
3	Occurrence and risk assessment of trace organic contaminants and metals in anaerobically co-digested sludge. <i>Science of the Total Environment</i> , 2021 , 816, 151533	10.2	0
2	Chiral inversion of 2-arylpropionic acid (2-APA) enantiomers during simulated biological wastewater treatment. <i>Water Research</i> , 2021 , 209, 117871	12.5	0
1	Aerobic biotransformation of 6:2 fluorotelomer sulfonate by <i>Dietzia aurantiaca</i> J3 under sulfur-limiting conditions.. <i>Science of the Total Environment</i> , 2022 , 829, 154587	10.2	0