

James A Mcdonald

List of Publications by Year in descending order

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78
papers

3,970
citations

109264

35
h-index

118793

62
g-index

79
all docs

79
docs citations

79
times ranked

3961
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of trace organics by MBR treatment: The role of molecular properties. <i>Water Research</i> , 2011, 45, 2439-2451.	5.3	402
2	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.	4.1	212
3	Sorption of emerging trace organic compounds onto wastewater sludge solids. <i>Water Research</i> , 2011, 45, 3417-3426.	5.3	203
4	Performance of a novel osmotic membrane bioreactor (OMBR) system: Flux stability and removal of trace organics. <i>Bioresource Technology</i> , 2012, 113, 201-206.	4.8	164
5	Removal of trace organics by anaerobic membrane bioreactors. <i>Water Research</i> , 2014, 49, 103-112.	5.3	147
6	Removal of trace organic contaminants by the forward osmosis process. <i>Separation and Purification Technology</i> , 2013, 103, 258-266.	3.9	144
7	Effect of mixed liquor pH on the removal of trace organic contaminants in a membrane bioreactor. <i>Bioresource Technology</i> , 2010, 101, 1494-1500.	4.8	135
8	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.	4.8	107
9	Long-Lived Charge-Separated State Produced by Photoinduced Electron Transfer in a Zinc Imidazoporphyrin-C60Dyad. <i>Organic Letters</i> , 2003, 5, 2719-2721.	2.4	96
10	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.	5.3	95
11	Occurrence of trace organic contaminants in wastewater sludge and their removals by anaerobic digestion. <i>Bioresource Technology</i> , 2016, 210, 153-159.	4.8	94
12	Removal of pharmaceuticals and endocrine disrupting chemicals by a submerged membrane photocatalysis reactor (MPR). <i>Separation and Purification Technology</i> , 2014, 127, 131-139.	3.9	93
13	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.	3.9	92
14	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.	4.8	83
15	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.	4.1	82
16	Nanofiltration of trace organic chemicals: A comparison between ceramic and polymeric membranes. <i>Separation and Purification Technology</i> , 2014, 136, 258-264.	3.9	74
17	Analysis of N-nitrosamines in water by isotope dilution gas chromatography“electron ionisation tandem mass spectrometry. <i>Talanta</i> , 2012, 99, 146-154.	2.9	70
18	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.	4.1	65

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19	An assessment of endocrine activity in Australian rivers using chemical and in vitro analyses. <i>Environmental Science and Pollution Research</i> , 2014, 21, 12951-12967.	2.7	62
20	N-nitrosamine rejection by nanofiltration and reverse osmosis membranes: The importance of membrane characteristics. <i>Desalination</i> , 2013, 316, 67-75.	4.0	61
21	A National Survey of Trace Organic Contaminants in Australian Rivers. <i>Journal of Environmental Quality</i> , 2014, 43, 1702-1712.	1.0	60
22	Effects of membrane fouling on N-nitrosamine rejection by nanofiltration and reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2013, 427, 311-319.	4.1	59
23	The fate of trace organic contaminants during anaerobic digestion of primary sludge: A pilot scale study. <i>Bioresource Technology</i> , 2018, 256, 384-390.	4.8	55
24	Quinoxalino[2,3-bâ€]porphyrins Behave as Î€-Expanded Porphyrins upon One-Electron Reduction:â€ Broad Control of the Degree of Delocalization through Substitution at the Macrocycle Periphery. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8762-8774.	1.2	54
25	N-nitrosamine rejection by reverse osmosis membranes: A full-scale study. <i>Water Research</i> , 2013, 47, 6141-6148.	5.3	53
26	Fate of trace organic compounds during treatment by nanofiltration. <i>Journal of Membrane Science</i> , 2011, 373, 130-139.	4.1	52
27	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.	1.9	51
28	Is halogen content the most important factor in the removal of halogenated trace organics by MBR treatment?. <i>Bioresource Technology</i> , 2011, 102, 6299-6303.	4.8	47
29	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.	4.8	47
30	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.	0.9	45
31	Porphyrin-Mediated Cell Surface Heme Capture from Hemoglobin by <i>Porphyromonas gingivalis</i> . <i>Journal of Bacteriology</i> , 2003, 185, 2528-2537.	1.0	42
32	Distinct Enantiomeric Signals of Ibuprofen and Naproxen in Treated Wastewater and Sewer Overflow. <i>Chirality</i> , 2014, 26, 739-746.	1.3	42
33	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, 5918-5929.	1.4	42
34	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.	5.3	40
35	Rejection of trace organic chemicals by a hollow fibre cellulose triacetate reverse osmosis membrane. <i>Desalination</i> , 2015, 368, 69-75.	4.0	37
36	Removal of N-nitrosamines by an aerobic membrane bioreactor. <i>Bioresource Technology</i> , 2013, 141, 41-45.	4.8	36

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37	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.	4.1	34
38	Biocatalytic metal-organic framework nanomotors for active water decontamination. <i>Chemical Communications</i> , 2020, 56, 14837-14840.	2.2	34
39	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.	1.9	30
40	Concentrations of levonorgestrel and ethinylestradiol in wastewater effluents: Is the progestin also cause for concern?. <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 1378-1385.	2.2	28
41	Electrochemistry and Spectroelectrochemistry of I^2/I^{2-} -Fused Quinoxalinoporphyryns and Related Extended Bis-porphyrins with Co(III), Co(II), and Co(I) Central Metal Ions. <i>Inorganic Chemistry</i> , 2010, 49, 1027-1038.	1.9	27
42	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.	4.2	27
43	Control of the site and potential of reduction and oxidation processes in I^2/I^{2-} -expanded quinoxalinoporphyryns. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 268-280.	1.3	26
44	Diffusion coefficients of the monomer and oligomers in hydroxyethyl methacrylate. <i>Journal of Polymer Science Part A</i> , 2003, 41, 2491-2501.	2.5	25
45	N-nitrosamine rejection by reverse osmosis: Effects of membrane exposure to chemical cleaning reagents. <i>Desalination</i> , 2014, 343, 60-66.	4.0	25
46	Enhanced nanofiltration rejection of inorganic and organic compounds from a wastewater-reclamation plant's micro-filtered water using adsorption pre-treatment. <i>Separation and Purification Technology</i> , 2021, 260, 118207.	3.9	25
47	Enantiomeric analysis of polycyclic musks in water by chiral gas chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2013, 1303, 66-75.	1.8	24
48	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.	1.9	23
49	A multivariate Bayesian network analysis of water quality factors influencing trihalomethanes formation in drinking water distribution systems. <i>Water Research</i> , 2021, 190, 116712.	5.3	23
50	Rejection of small solutes by reverse osmosis membranes for water reuse applications: A pilot-scale study. <i>Desalination</i> , 2014, 350, 28-34.	4.0	22
51	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.	2.9	22
52	Synthetically tuneable biomimetic artificial photosynthetic reaction centres that closely resemble the natural system in purple bacteria. <i>Chemical Science</i> , 2016, 7, 6534-6550.	3.7	22
53	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.	3.9	22
54	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.	4.1	20

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55	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.	1.2	20
56	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.	2.2	19
57	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.	4.8	19
58	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.	3.9	19
59	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.	4.8	18
60	The fate of trace organic contaminants in sewage sludge during recuperative thickening anaerobic digestion. <i>Bioresource Technology</i> , 2017, 240, 197-206.	4.8	18
61	Continuous transformation of chiral pharmaceuticals in enzymatic membrane bioreactors for advanced wastewater treatment. <i>Water Science and Technology</i> , 2017, 76, 1816-1826.	1.2	18
62	Quantifying human exposure to contaminants for multiple-barrier water reuse systems. <i>Water Science and Technology</i> , 2010, 61, 77-83.	1.2	17
63	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.	3.9	15
64	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.	1.0	13
65	Effect of fouling on removal of trace organic compounds by nanofiltration. <i>Drinking Water Engineering and Science</i> , 2011, 4, 71-82.	0.8	12
66	Ozonation of N-Nitrosamines in the Reverse Osmosis Concentrate from Water Recycling Applications. <i>Ozone: Science and Engineering</i> , 2014, 36, 174-180.	1.4	12
67	Glycerol dialkyl glycerol tetraethers (GDGT) distributions from soil to cave: Refining the speleotherm paleothermometer. <i>Organic Geochemistry</i> , 2019, 136, 103890.	0.9	12
68	Validating the rejection of trace organic chemicals by reverse osmosis membranes using a pilot-scale system. <i>Desalination</i> , 2015, 358, 18-26.	4.0	10
69	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, 830, 154324.	3.9	9
70	An Introduction to the Scientific Process: Preparation of Poly(vinyl acetate) Glue. <i>Journal of Chemical Education</i> , 2001, 78, 1370.	1.1	8
71	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.	1.9	8
72	Occurrence and risk assessment of trace organic contaminants and metals in anaerobically co-digested sludge. <i>Science of the Total Environment</i> , 2022, 816, 151533.	3.9	4

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73	Chiral inversion of 2-arylpropionic acid (2-APA) enantiomers during simulated biological wastewater treatment. <i>Water Research</i> , 2022, 209, 117871.	5.3	4
74	Structural requirements for recognition of essential porphyrin by <i>Porphyrromonas gingivalis</i> . <i>Journal of Porphyrins and Phthalocyanines</i> , 2002, 06, 774-782.	0.4	3
75	Chemical monitoring strategy for the assessment of advanced water treatment plant performance. <i>Water Science and Technology: Water Supply</i> , 2010, 10, 961-968.	1.0	3
76	Chemical monitoring strategy for the assessment of advanced water treatment plant performance. <i>Water Science and Technology</i> , 2011, 63, 573-579.	1.2	3
77	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.	1.3	2
78	Chiral Inversion of 2-Arylpropionic Acid Enantiomers under Anaerobic Conditions. <i>Environmental Science & Technology</i> , 2022, 56, 8197-8208.	4.6	2