

Jake O'Brien

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

6,405
citations

81900

39
h-index

76900

74
g-index

114
all docs

114
docs citations

114
times ranked

5525
citing authors

#	ARTICLE	IF	CITATIONS
1	A wastewater-based assessment of the impact of a minimum unit price (MUP) on population alcohol consumption in the Northern Territory, Australia. <i>Addiction</i> , 2022, 117, 243-249.	3.3	14
2	Temporal trends of perfluoroalkyl substances in an Australian wastewater treatment plant: A ten-year retrospective investigation. <i>Science of the Total Environment</i> , 2022, 804, 150211.	8.0	15
3	Analytical performance comparison of four SARS-CoV-2 RT-qPCR primer-probe sets for wastewater samples. <i>Science of the Total Environment</i> , 2022, 806, 150572.	8.0	10
4	Does size matter? Quantification of plastics associated with size fractionated biosolids. <i>Science of the Total Environment</i> , 2022, 811, 152382.	8.0	11
5	In-Sewer Stability Assessment of Anabolic Steroids and Selective Androgen Receptor Modulators. <i>Environmental Science & Technology</i> , 2022, 56, 1627-1638.	10.0	10
6	Background release and potential point sources of per- and polyfluoroalkyl substances to municipal wastewater treatment plants across Australia. <i>Chemosphere</i> , 2022, 293, 133657.	8.2	12
7	Naive Bayes classification model for isotopologue detection in LC-HRMS data. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2022, 223, 104515.	3.5	9
8	The message on the bottle: Rethinking plastic labelling to better encourage sustainable use. <i>Environmental Science and Policy</i> , 2022, 132, 109-118.	4.9	16
9	SARS-CoV-2 shedding sources in wastewater and implications for wastewater-based epidemiology. <i>Journal of Hazardous Materials</i> , 2022, 432, 128667.	12.4	34
10	The impact of COVID-19 on antidepressant sales and prescription dispensing in Australia. <i>Australian and New Zealand Journal of Psychiatry</i> , 2022, 56, 871-872.	2.3	3
11	A nationwide wastewater-based assessment of metformin consumption across Australia. <i>Environment International</i> , 2022, 165, 107282.	10.0	10
12	Removal of 293 organic compounds in 15 WWTPs studied with non-targeted suspect screening. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 1423-1433.	2.4	5
13	Back-estimation of norovirus infections through wastewater-based epidemiology: A systematic review and parameter sensitivity. <i>Water Research</i> , 2022, 219, 118610.	11.3	25
14	Application of catecholamine metabolites as endogenous population biomarkers for wastewater-based epidemiology. <i>Science of the Total Environment</i> , 2021, 763, 142992.	8.0	11
15	Trends in artificial sweetener consumption: A 7-year wastewater-based epidemiology study in Queensland, Australia. <i>Science of the Total Environment</i> , 2021, 754, 142438.	8.0	29
16	Wastewater-based prevalence trends of gout in an Australian community over a period of 8 years. <i>Science of the Total Environment</i> , 2021, 759, 143460.	8.0	13
17	SARS-CoV-2 RNA monitoring in wastewater as a potential early warning system for COVID-19 transmission in the community: A temporal case study. <i>Science of the Total Environment</i> , 2021, 761, 144216.	8.0	218
18	The presence of selected UV filters in a freshwater recreational reservoir and fate in controlled experiments. <i>Science of the Total Environment</i> , 2021, 754, 142373.	8.0	30

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19	Plastic particles in soil: state of the knowledge on sources, occurrence and distribution, analytical methods and ecological impacts. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 240-274.	3.5	44
20	Estimating Alcohol Consumption by Wastewater-Based Epidemiology: An Assessment of the Correction Factor for Ethyl Sulfate Using Large-Scale National Monitoring Data. <i>Environmental Science and Technology Letters</i> , 2021, 8, 333-338.	8.7	18
21	Systematic Evaluation of the In-Sample Stability of Selected Pharmaceuticals, Illicit Drugs, and Their Metabolites in Wastewater. <i>Environmental Science & Technology</i> , 2021, 55, 7418-7429.	10.0	29
22	Using Prescription and Wastewater Data to Estimate the Correction Factors of Atenolol, Carbamazepine, and Naproxen for Wastewater-Based Epidemiology Applications. <i>Environmental Science & Technology</i> , 2021, 55, 7551-7560.	10.0	19
23	A method and its application to determine the amount of cannabinoids in sewage sludge and biosolids. <i>Environmental Science and Pollution Research</i> , 2021, 28, 59652-59664.	5.3	7
24	Artificial sweeteners in end-use biosolids in Australia. <i>Water Research</i> , 2021, 200, 117237.	11.3	8
25	Plastics in biosolids from 1950 to 2016: A function of global plastic production and consumption. <i>Water Research</i> , 2021, 201, 117367.	11.3	77
26	Quantification of selected microplastics in Australian urban road dust. <i>Journal of Hazardous Materials</i> , 2021, 416, 125811.	12.4	40
27	Plastics contamination of store-bought rice. <i>Journal of Hazardous Materials</i> , 2021, 416, 125778.	12.4	70
28	Impact of COVID-19 Controls on the Use of Illicit Drugs and Alcohol in Australia. <i>Environmental Science and Technology Letters</i> , 2021, 8, 799-804.	8.7	22
29	Performance- and image-enhancing drug use in the community: use prevalence, user demographics and the potential role of wastewater-based epidemiology. <i>Journal of Hazardous Materials</i> , 2021, 419, 126340.	12.4	13
30	Current and future perspectives for wastewater-based epidemiology as a monitoring tool for pharmaceutical use. <i>Science of the Total Environment</i> , 2021, 789, 148047.	8.0	44
31	In-sewer stability of selected analgesics and their metabolites. <i>Water Research</i> , 2021, 204, 117647.	11.3	9
32	Quantification of selected analgesics and their metabolites in influent wastewater by liquid chromatography tandem mass spectrometry. <i>Talanta</i> , 2021, 234, 122627.	5.5	10
33	Out of sight but not out of mind: Size fractionation of plastics bioaccumulated by field deployed oysters. <i>Journal of Hazardous Materials Letters</i> , 2021, 2, 100021.	3.6	14
34	From Centroided to Profile Mode: Machine Learning for Prediction of Peak Width in HRMS Data. <i>Analytical Chemistry</i> , 2021, 93, 16562-16570.	6.5	9
35	The underlying challenges that arise when analysing short-chain chlorinated paraffins in environmental matrices. <i>Journal of Chromatography A</i> , 2020, 1610, 460550.	3.7	18
36	A sensitive analytical method for the measurement of neurotransmitter metabolites as potential population biomarkers in wastewater. <i>Journal of Chromatography A</i> , 2020, 1612, 460623.	3.7	16

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37	A comparison of trends in wastewater-based data and traditional epidemiological indicators of stimulant consumption in three locations. <i>Addiction</i> , 2020, 115, 462-472.	3.3	13
38	Spatio-temporal assessment of illicit drug use at large scale: evidence from 7 years of international wastewater monitoring. <i>Addiction</i> , 2020, 115, 109-120.	3.3	154
39	New approach for the measurement of long-term alcohol consumption trends: Application of wastewater-based epidemiology in an Australian regional city. <i>Drug and Alcohol Dependence</i> , 2020, 207, 107795.	3.2	34
40	Considerations for assessing stability of wastewater-based epidemiology biomarkers using biofilm-free and sewer reactor tests. <i>Science of the Total Environment</i> , 2020, 709, 136228.	8.0	42
41	Calibration and validation of a microporous polyethylene passive sampler for quantitative estimation of illicit drug and pharmaceutical and personal care product (PPCP) concentrations in wastewater influent. <i>Science of the Total Environment</i> , 2020, 704, 135891.	8.0	25
42	An assessment of quality assurance/quality control efforts in high resolution mass spectrometry non-target workflows for analysis of environmental samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 133, 116063.	11.4	73
43	Release of Plastics to Australian Land from Biosolids End-Use. <i>Environmental Science & Technology</i> , 2020, 54, 15132-15141.	10.0	62
44	National wastewater reconnaissance of artificial sweetener consumption and emission in Australia. <i>Environment International</i> , 2020, 143, 105963.	10.0	25
45	Urinary Concentrations of Bisphenols in the Australian Population and Their Association with the Per Capita Mass Loads in Wastewater. <i>Environmental Science & Technology</i> , 2020, 54, 10141-10148.	10.0	43
46	Airborne emissions of microplastic fibres from domestic laundry dryers. <i>Science of the Total Environment</i> , 2020, 747, 141175.	8.0	99
47	Wastewater treatment efficacy evaluated with in-vitro bioassays. <i>Water Research X</i> , 2020, 9, 100072.	6.1	31
48	Long-term trends in tobacco use assessed by wastewater-based epidemiology and its relationship with consumption of nicotine containing products. <i>Environment International</i> , 2020, 145, 106088.	10.0	18
49	Do food and stress biomarkers work for wastewater-based epidemiology? A critical evaluation. <i>Science of the Total Environment</i> , 2020, 736, 139654.	8.0	24
50	Determining changes in new psychoactive substance use in Australia by wastewater analysis. <i>Science of the Total Environment</i> , 2020, 731, 139209.	8.0	33
51	Can wastewater analysis be used as a tool to assess the burden of pain treatment within a population?. <i>Environmental Research</i> , 2020, 188, 109769.	7.5	13
52	Population Socioeconomics Predicted Using Wastewater. <i>Environmental Science and Technology Letters</i> , 2020, 7, 567-572.	8.7	23
53	Determination of anabasine, anatabine, and nicotine biomarkers in wastewater by enhanced direct injection LC-MS/MS and evaluation of their in-sewer stability. <i>Science of the Total Environment</i> , 2020, 743, 140551.	8.0	17
54	Quantitative Analysis of Selected Plastics in High-Commercial-Value Australian Seafood by Pyrolysis Gas Chromatography Mass Spectrometry. <i>Environmental Science & Technology</i> , 2020, 54, 9408-9417.	10.0	143

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55	Wastewater-based estimation of the prevalence of gout in Australia. <i>Science of the Total Environment</i> , 2020, 715, 136925.	8.0	26
56	Identification and quantification of selected plastics in biosolids by pressurized liquid extraction combined with double-shot pyrolysis gas chromatography–mass spectrometry. <i>Science of the Total Environment</i> , 2020, 715, 136924.	8.0	145
57	Annual release of selected UV filters via effluent from wastewater treatment plants in Australia. <i>Chemosphere</i> , 2020, 247, 125887.	8.2	25
58	Towards an efficient method for the extraction and analysis of cannabinoids in wastewater. <i>Talanta</i> , 2020, 217, 121034.	5.5	37
59	First confirmed detection of SARS-CoV-2 in untreated wastewater in Australia: A proof of concept for the wastewater surveillance of COVID-19 in the community. <i>Science of the Total Environment</i> , 2020, 728, 138764.	8.0	1,393
60	Concentrations of phthalate metabolites in Australian urine samples and their contribution to the per capita loads in wastewater. <i>Environment International</i> , 2020, 137, 105534.	10.0	29
61	Mining Population Exposure and Community Health via Wastewater-Based Epidemiology. , 2020, , 99-114.		3
62	Response to Comment on “Quantitative Analysis of Selected Plastics in High-Commercial-Value Australian Seafood by Pyrolysis Gas Chromatography Mass Spectrometry”. <i>Environmental Science & Technology</i> , 2020, 54, 15556-15557.	10.0	2
63	Harnessing the Power of the Census: Characterizing Wastewater Treatment Plant Catchment Populations for Wastewater-Based Epidemiology. <i>Environmental Science & Technology</i> , 2019, 53, 10303-10311.	10.0	69
64	Commentary on Burgard et al . (2019): Wastewater based estimates of the size of illicit markets for psychoactive drugs. <i>Addiction</i> , 2019, 114, 1591-1592.	3.3	1
65	Self Adjusting Algorithm for the Nontargeted Feature Detection of High Resolution Mass Spectrometry Coupled with Liquid Chromatography Profile Data. <i>Analytical Chemistry</i> , 2019, 91, 10800-10807.	6.5	24
66	Social, demographic, and economic correlates of food and chemical consumption measured by wastewater-based epidemiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21864-21873.	7.1	104
67	Wastewater treatment plants as a source of plastics in the environment: a review of occurrence, methods for identification, quantification and fate. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1908-1931.	2.4	112
68	Evaluating the stability of three oxidative stress biomarkers under sewer conditions and potential impact for use in wastewater-based epidemiology. <i>Water Research</i> , 2019, 166, 115068.	11.3	35
69	Per capita loads of organic UV filters in Australian wastewater influent. <i>Science of the Total Environment</i> , 2019, 662, 134-140.	8.0	36
70	Chlorinated paraffins in indoor dust from Australia: Levels, congener patterns and preliminary assessment of human exposure. <i>Science of the Total Environment</i> , 2019, 682, 318-323.	8.0	26
71	A pilot wastewater-based epidemiology assessment of anabolic steroid use in Queensland, Australia. <i>Drug Testing and Analysis</i> , 2019, 11, 937-949.	2.6	17
72	Uncertainties in estimating alcohol and tobacco consumption by wastewater-based epidemiology. <i>Current Opinion in Environmental Science and Health</i> , 2019, 9, 13-18.	4.1	27

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73	Trends in nicotine consumption between 2010 and 2017 in an Australian city using the wastewater-based epidemiology approach. <i>Environment International</i> , 2019, 125, 184-190.	10.0	39
74	Evaluating the in-sewer stability of three potential population biomarkers for application in wastewater-based epidemiology. <i>Science of the Total Environment</i> , 2019, 671, 248-253.	8.0	32
75	Accumulation and fate of nano- and micro-plastics and associated contaminants in organisms. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 111, 139-147.	11.4	187
76	Assessment of drugs of abuse in a wastewater treatment plant with parallel secondary wastewater treatment train. <i>Science of the Total Environment</i> , 2019, 658, 947-957.	8.0	41
77	A National Wastewater Monitoring Program for a better understanding of public health: A case study using the Australian Census. <i>Environment International</i> , 2019, 122, 400-411.	10.0	59
78	Analyzing Wastewater Samples Collected during Census To Determine the Correction Factors of Drugs for Wastewater-Based Epidemiology: The Case of Codeine and Methadone. <i>Environmental Science and Technology Letters</i> , 2019, 6, 265-269.	8.7	19
79	LC-HRMS suspect screening to show spatial patterns of New Psychoactive Substances use in Australia. <i>Science of the Total Environment</i> , 2019, 650, 2181-2187.	8.0	58
80	Measuring spatial and temporal trends of nicotine and alcohol consumption in Australia using wastewater-based epidemiology. <i>Addiction</i> , 2018, 113, 1127-1136.	3.3	62
81	Association between purity of drug seizures and illicit drug loads measured in wastewater in a South East Queensland catchment over a six year period. <i>Science of the Total Environment</i> , 2018, 635, 779-783.	8.0	20
82	Assessment of drugs and personal care products biomarkers in the influent and effluent of two wastewater treatment plants in Ho Chi Minh City, Vietnam. <i>Science of the Total Environment</i> , 2018, 631-632, 469-475.	8.0	76
83	Multi-year inter-laboratory exercises for the analysis of illicit drugs and metabolites in wastewater: Development of a quality control system. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 103, 34-43.	11.4	85
84	“Ice Rushes”, Data Shadows and Methamphetamine Use in Rural Towns: Wastewater Analysis. <i>Current Issues in Criminal Justice</i> , 2018, 29, 195-208.	1.4	2
85	Enantiomeric profiling of amphetamine and methamphetamine in wastewater: A 7-year study in regional and urban Queensland, Australia. <i>Science of the Total Environment</i> , 2018, 643, 827-834.	8.0	36
86	Wastewater-based epidemiology biomarkers: Past, present and future. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 105, 453-469.	11.4	327
87	Population histamine burden assessed using wastewater-based epidemiology: The association of 1,4-methylimidazole acetic acid and fexofenadine. <i>Environment International</i> , 2018, 120, 172-180.	10.0	38
88	Analysis of N,N-dimethylamphetamine in wastewater – a pyrolysis marker and synthesis impurity of methamphetamine. <i>Drug Testing and Analysis</i> , 2018, 10, 1590-1598.	2.6	3
89	Comparing methamphetamine, MDMA, cocaine, codeine and methadone use between the Auckland region and four Australian states using wastewater-based epidemiology (WBE). <i>New Zealand Medical Journal</i> , 2018, 131, 12-20.	0.5	1
90	Medium-Chain Chlorinated Paraffins (CPs) Dominate in Australian Sewage Sludge. <i>Environmental Science & Technology</i> , 2017, 51, 3364-3372.	10.0	72

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91	Impact of in-Sewer Degradation of Pharmaceutical and Personal Care Products (PPCPs) Population Markers on a Population Model. <i>Environmental Science & Technology</i> , 2017, 51, 3816-3823.	10.0	96
92	Can wastewater-based epidemiology be used to evaluate the health impact of temperature? â€œ An exploratory study in an Australian population. <i>Environmental Research</i> , 2017, 156, 113-119.	7.5	33
93	Measuring biomarkers in wastewater as a new source of epidemiological information: Current state and future perspectives. <i>Environment International</i> , 2017, 99, 131-150.	10.0	209
94	Analysis of sugarcane herbicides in marine turtle nesting areas and assessment of risk using inÂvitro toxicity assays. <i>Chemosphere</i> , 2017, 185, 656-664.	8.2	23
95	Trends in methamphetamine residues in wastewater in metropolitan and regional cities in southâ€ast Queensland, 2009â€2015. <i>Medical Journal of Australia</i> , 2016, 204, 151-152.	1.7	18
96	Refining the excretion factors of methadone and codeine for wastewater analysis â€” Combining data from pharmacokinetic and wastewater studies. <i>Environment International</i> , 2016, 94, 307-314.	10.0	49
97	Spatial variations in the consumption of illicit stimulant drugs across Australia: A nationwide application of wastewater-based epidemiology. <i>Science of the Total Environment</i> , 2016, 568, 810-818.	8.0	84
98	Cocaine, MDMA and methamphetamine residues in wastewater: Consumption trends (2009â€2015) in South East Queensland, Australia. <i>Science of the Total Environment</i> , 2016, 568, 803-809.	8.0	61
99	Comparative measurement and quantitative risk assessment of alcohol consumption through wastewater-based epidemiology: An international study in 20 cities. <i>Science of the Total Environment</i> , 2016, 565, 977-983.	8.0	85
100	Measuring selected PPCPs in wastewater to estimate the population in different cities in China. <i>Science of the Total Environment</i> , 2016, 568, 164-170.	8.0	75
101	Monitoring temporal changes in use of two cathinones in a large urban catchment in Queensland, Australia. <i>Science of the Total Environment</i> , 2016, 545-546, 250-255.	8.0	34
102	Evaluation of Monitoring Schemes for Wastewater-Based Epidemiology to Identify Drug Use Trends Using Cocaine, Methamphetamine, MDMA and Methadone. <i>Environmental Science & Technology</i> , 2016, 50, 4760-4768.	10.0	18
103	Degradation of Herbicides in the Tropical Marine Environment: Influence of Light and Sediment. <i>PLoS ONE</i> , 2016, 11, e0165890.	2.5	49
104	Systematic and Day-to-Day Effects of Chemical-Derived Population Estimates on Wastewater-Based Drug Epidemiology. <i>Environmental Science & Technology</i> , 2015, 49, 999-1008.	10.0	65
105	Wastewater analysis of Census day samples to investigate per capita input of organophosphorus flame retardants and plasticizers into wastewater. <i>Chemosphere</i> , 2015, 138, 328-334.	8.2	85
106	Could wastewater analysis be a useful tool for China? â€” A review. <i>Journal of Environmental Sciences</i> , 2015, 27, 70-79.	6.1	14
107	A Miniature Bioassay for Testing the Acute Phytotoxicity of Photosystem II Herbicides on Seagrass. <i>PLoS ONE</i> , 2015, 10, e0117541.	2.5	20
108	Commentary on <sc>O</sc>rt <i>etâ€™al</i>. (2014): What next to deliver on the promise of large scale sewageâ€based drug epidemiology?. <i>Addiction</i> , 2014, 109, 1353-1354.	3.3	14

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109	A Model to Estimate the Population Contributing to the Wastewater Using Samples Collected on Census Day. <i>Environmental Science & Technology</i> , 2014, 48, 517-525.	10.0	131
110	Degradability of creatinine under sewer conditions affects its potential to be used as biomarker in sewage epidemiology. <i>Water Research</i> , 2014, 55, 272-279.	11.3	42
111	Using quantitative wastewater analysis to measure daily usage of conventional and emerging illicit drugs at an annual music festival. <i>Drug and Alcohol Review</i> , 2013, 32, 594-602.	2.1	103
112	A cleaner river: Long term use of semipermeable membrane devices demonstrate that concentrations of selected organochlorines and PAHs in the Brisbane River estuary, Queensland have reduced substantially over the past decade. <i>Marine Pollution Bulletin</i> , 2011, 63, 73-76.	5.0	11