

Benjamin J Tscharke

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64 papers	2,248 citations	22 h-index	47 g-index
65 ext. papers	3,213 ext. citations	8.7 avg, IF	5.4 L-index

#	Paper	IF	Citations
64	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	10.2	829
63	Wastewater-based epidemiology biomarkers: Past, present and future. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 105, 453-469	14.6	194
62	Towards finding a population biomarker for wastewater epidemiology studies. <i>Science of the Total Environment</i> , 2014 , 487, 621-8	10.2	97
61	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	4.6	88
60	Temporal trends in drug use in Adelaide, South Australia by wastewater analysis. <i>Science of the Total Environment</i> , 2016 , 565, 384-391	10.2	85
59	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	10.2	85
58	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	10.2	71
57	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	4.2	69
56	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	11.5	47
55	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	10.2	42
54	Measuring spatial and temporal trends of nicotine and alcohol consumption in Australia using wastewater-based epidemiology. <i>Addiction</i> , 2018 , 113, 1127-1136	4.6	40
53	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	12.9	40
52	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	10.3	35
51	Trends in stimulant use in Australia: A comparison of wastewater analysis and population surveys. <i>Science of the Total Environment</i> , 2015 , 536, 331-337	10.2	29
50	Release of Plastics to Australian Land from Biosolids End-Use. <i>Environmental Science & Technology</i> , 2020 , 54, 15132-15141	10.3	27
49	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	10.2	27
48	Estimates of tobacco use by wastewater analysis of anabasine and anatabine. <i>Drug Testing and Analysis</i> , 2016 , 8, 702-7	3.5	26

47	Per capita loads of organic UV filters in Australian wastewater influent. <i>Science of the Total Environment</i> , 2019 , 662, 134-140	10.2	24
46	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	12.9	24
45	Simultaneous determination of 24 opioids, stimulants and new psychoactive substances in wastewater. <i>MethodsX</i> , 2019 , 6, 953-960	1.9	22
44	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	4.9	22
43	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	10.2	22
42	Determining changes in new psychoactive substance use in Australia by wastewater analysis. <i>Science of the Total Environment</i> , 2020 , 731, 139209	10.2	21
41	Pharmaceuticals, personal care products, food additive and pesticides in surface waters from three Australian east coast estuaries (Sydney, Yarra and Brisbane). <i>Marine Pollution Bulletin</i> , 2020 , 153, 111014	6.7	17
40	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	4.3	17
39	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	10.2	16
38	Uncertainties in estimating alcohol and tobacco consumption by wastewater-based epidemiology. <i>Current Opinion in Environmental Science and Health</i> , 2019 , 9, 13-18	8.1	15
37	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	11	15
36	Plastics in biosolids from 1950 to 2016: A function of global plastic production and consumption. <i>Water Research</i> , 2021 , 201, 117367	12.5	15
35	Towards an efficient method for the extraction and analysis of cannabinoids in wastewater. <i>Talanta</i> , 2020 , 217, 121034	6.2	14
34	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	12.5	13
33	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	10.3	13
32	Wastewater treatment efficacy evaluated with bioassays. <i>Water Research X</i> , 2020 , 9, 100072	8.1	12
31	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	10.2	12
30	Population Socioeconomics Predicted Using Wastewater. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 567-572	11	11

29	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	12.9	10
28	Investigating the correlation between wastewater analysis and roadside drug testing in South Australia. <i>Drug and Alcohol Dependence</i> , 2018 , 187, 123-126	4.9	9
27	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	4.5	9
26	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	4.6	8
25	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	11	8
24	A pilot wastewater-based epidemiology assessment of anabolic steroid use in Queensland, Australia. <i>Drug Testing and Analysis</i> , 2019 , 11, 937-949	3.5	7
23	National wastewater reconnaissance of artificial sweetener consumption and emission in Australia. <i>Environment International</i> , 2020 , 143, 105963	12.9	6
22	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	12.9	5
21	Anabasine-based measurement of cigarette consumption using wastewater analysis. <i>Drug Testing and Analysis</i> , 2020 , 12, 1393-1398	3.5	5
20	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	10.2	5
19	Time-Integrative Passive Sampling of Very Hydrophilic Chemicals in Wastewater Influent. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 848-853	11	5
18	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	10.3	5
17	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	10.3	4
16	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	11	4
15	Application of catecholamine metabolites as endogenous population biomarkers for wastewater-based epidemiology. <i>Science of the Total Environment</i> , 2021 , 763, 142992	10.2	3
14	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	12.8	3
13	In-sewer stability of selected analgesics and their metabolites. <i>Water Research</i> , 2021 , 204, 117647	12.5	3
12	A nationwide wastewater-based assessment of metformin consumption across Australia. <i>Environment International</i> , 2022 , 107282	12.9	3

11	In-Sewer Stability Assessment of Anabolic Steroids and Selective Androgen Receptor Modulators.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	2
10	Does size matter? Quantification of plastics associated with size fractionated biosolids.. <i>Science of the Total Environment</i> , 2021 , 811, 152382	10.2	2
9	Monitoring of SARS-CoV-2 in sewersheds with low COVID-19 cases using a passive sampling technique.. <i>Water Research</i> , 2022 , 218, 118481	12.5	2
8	Wastewater analysis shows a large decrease in oxycodone use in Adelaide. <i>Medical Journal of Australia</i> , 2017 , 207, 88	4	1
7	Quantifying nicotine and alcohol consumption in New Zealand using wastewater-based epidemiology timed to coincide with census. <i>Drug and Alcohol Review</i> , 2021 , 40, 1178-1185	3.2	1
6	Artificial sweeteners in end-use biosolids in Australia. <i>Water Research</i> , 2021 , 200, 117237	12.5	1
5	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	4.6	1
4	Background release and potential point sources of per- and polyfluoroalkyl substances to municipal wastewater treatment plants across Australia.. <i>Chemosphere</i> , 2022 , 133657	8.4	0
3	Multisite Calibration of a Microporous Polyethylene Tube Passive Sampler for Quantifying Drugs in Wastewater. <i>Environmental Science & Technology</i> , 2021 , 55, 12922-12929	10.3	0
2	Spatial, temporal and socioeconomic patterns of illicit drug use in New Zealand assessed using wastewater-based epidemiology timed to coincide with the census. <i>New Zealand Medical Journal</i> , 2021 , 134, 11-26	0.8	
1	The impact of COVID-19 on antidepressant sales and prescription dispensing in Australia.. <i>Australian and New Zealand Journal of Psychiatry</i> , 2021 , 48674211068396	2.6	