Benjamin J Tscharke

List of Publications by Year in Descending Order

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	In-Sewer Stability Assessment of Anabolic Steroids and Selective Androgen Receptor Modulators.. *Environmental Science & Technology*, **2022**,	10.3	2
63	Background release and potential point sources of per- and polyfluoroalkyl substances to municipal wastewater treatment plants across Australia.. *Chemosphere*, **2022**, 133657	8.4	0
62	A wastewater-based assessment of the impact of a minimum unit price (MUP) on population alcohol consumption in the Northern Territory, Australia. *Addiction*, **2022**, 117, 243-249	4.6	1
61	Monitoring of SARS-CoV-2 in sewersheds with low COVID-19 cases using a passive sampling technique.. *Water Research*, **2022**, 218, 118481	12.5	2
60	A nationwide wastewater-based assessment of metformin consumption across Australia. *Environment International*, **2022**, 107282	12.9	3
59	Does size matter? Quantification of plastics associated with size fractionated biosolids.. *Science of the Total Environment*, **2021**, 811, 152382	10.2	2
58	Quantifying nicotine and alcohol consumption in New Zealand using wastewater-based epidemiology timed to coincide with census. *Drug and Alcohol Review*, **2021**, 40, 1178-1185	3.2	1
57	Systematic Evaluation of the In-Sample Stability of Selected Pharmaceuticals, Illicit Drugs, and Their Metabolites in Wastewater. *Environmental Science & Technology*, **2021**, 55, 7418-7429	10.3	4
56	Using Prescription and Wastewater Data to Estimate the Correction Factors of Atenolol, Carbamazepine, and Naproxen for Wastewater-Based Epidemiology Applications. *Environmental Science & Technology*, **2021**, 55, 7551-7560	10.3	5
55	Application of catecholamine metabolites as endogenous population biomarkers for wastewater-based epidemiology. *Science of the Total Environment*, **2021**, 763, 142992	10.2	3
54	Trends in artificial sweetener consumption: A 7-year wastewater-based epidemiology study in Queensland, Australia. *Science of the Total Environment*, **2021**, 754, 142438	10.2	12
53	SARS-CoV-2 RNA monitoring in wastewater as a potential early warning system for COVID-19 transmission in the community: A temporal case study. *Science of the Total Environment*, **2021**, 761, 144216	10.2	85
52	Plastic particles in soil: state of the knowledge on sources, occurrence and distribution, analytical methods and ecological impacts. *Environmental Sciences: Processes and Impacts*, **2021**, 23, 240-274	4.3	17
51	Estimating Alcohol Consumption by Wastewater-Based Epidemiology: An Assessment of the Correction Factor for Ethyl Sulfate Using Large-Scale National Monitoring Data. *Environmental Science and Technology Letters*, **2021**, 8, 333-338	11	8
50	Artificial sweeteners in end-use biosolids in Australia. *Water Research*, **2021**, 200, 117237	12.5	1
49	Plastics in biosolids from 1950 to 2016: A function of global plastic production and consumption. *Water Research*, **2021**, 201, 117367	12.5	15
48	Impact of COVID-19 Controls on the Use of Illicit Drugs and Alcohol in Australia. *Environmental Science and Technology Letters*, **2021**, 8, 799-804	11	4

47	Multisite Calibration of a Microporous Polyethylene Tube Passive Sampler for Quantifying Drugs in Wastewater. *Environmental Science & Technology*, **2021**, 55, 12922-12929	10.3	0
46	Performance- and image-enhancing drug use in the community: use prevalence, user demographics and the potential role of wastewater-based epidemiology. *Journal of Hazardous Materials*, **2021**, 419, 126340	12.8	3
45	In-sewer stability of selected analgesics and their metabolites. *Water Research*, **2021**, 204, 117647	12.5	3
44	Spatial, temporal and socioeconomic patterns of illicit drug use in New Zealand assessed using wastewater-based epidemiology timed to coincide with the census. *New Zealand Medical Journal*, **2021**, 134, 11-26	0.8	
43	The impact of COVID-19 on antidepressant sales and prescription dispensing in Australia.. *Australian and New Zealand Journal of Psychiatry*, **2021**, 48674211068396	2.6	
42	Wastewater treatment efficacy evaluated with bioassays. *Water Research X*, **2020**, 9, 100072	8.1	12
41	Long-term trends in tobacco use assessed by wastewater-based epidemiology and its relationship with consumption of nicotine containing products. *Environment International*, **2020**, 145, 106088	12.9	5
40	Determining changes in new psychoactive substance use in Australia by wastewater analysis. *Science of the Total Environment*, **2020**, 731, 139209	10.2	21
39	Anabasine-based measurement of cigarette consumption using wastewater analysis. *Drug Testing and Analysis*, **2020**, 12, 1393-1398	3.5	5
38	Pharmaceuticals, personal care products, food additive and pesticides in surface waters from three Australian east coast estuaries (Sydney, Yarra and Brisbane). *Marine Pollution Bulletin*, **2020**, 153, 111014	6.7	17
37	Population Socioeconomics Predicted Using Wastewater. *Environmental Science and Technology Letters*, **2020**, 7, 567-572	11	11
36	Determination of anabasine, anatabine, and nicotine biomarkers in wastewater by enhanced direct injection LC-MS/MS and evaluation of their in-sewer stability. *Science of the Total Environment*, **2020**, 743, 140551	10.2	5
35	Identification and quantification of selected plastics in biosolids by pressurized liquid extraction combined with double-shot pyrolysis gas chromatography-mass spectrometry. *Science of the Total Environment*, **2020**, 715, 136924	10.2	71
34	Towards an efficient method for the extraction and analysis of cannabinoids in wastewater. *Talanta*, **2020**, 217, 121034	6.2	14
33	Concentrations of phthalate metabolites in Australian urine samples and their contribution to the per capita loads in wastewater. *Environment International*, **2020**, 137, 105534	12.9	10
32	Spatio-temporal assessment of illicit drug use at large scale: evidence from 7 years of international wastewater monitoring. *Addiction*, **2020**, 115, 109-120	4.6	88
31	New approach for the measurement of long-term alcohol consumption trends: Application of wastewater-based epidemiology in an Australian regional city. *Drug and Alcohol Dependence*, **2020**, 207, 107795	4.9	22
30	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. *Science of the Total Environment*, **2020**, 704, 135891	10.2	16

29	Release of Plastics to Australian Land from Biosolids End-Use. *Environmental Science & Technology*, **2020**, 54, 15132-15141	10.3	27
28	National wastewater reconnaissance of artificial sweetener consumption and emission in Australia. *Environment International*, **2020**, 143, 105963	12.9	6
27	Urinary Concentrations of Bisphenols in the Australian Population and Their Association with the Per Capita Mass Loads in Wastewater. *Environmental Science & Technology*, **2020**, 54, 10141-10148	10.3	13
26	Time-Integrative Passive Sampling of Very Hydrophilic Chemicals in Wastewater Influent. *Environmental Science and Technology Letters*, **2020**, 7, 848-853	11	5
25	A sensitive analytical method for the measurement of neurotransmitter metabolites as potential population biomarkers in wastewater. *Journal of Chromatography A*, **2020**, 1612, 460623	4.5	9
24	A comparison of trends in wastewater-based data and traditional epidemiological indicators of stimulant consumption in three locations. *Addiction*, **2020**, 115, 462-472	4.6	8
23	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. *Science of the Total Environment*, **2020**, 728, 138764	10.2	829
22	Wastewater treatment plants as a source of plastics in the environment: a review of occurrence, methods for identification, quantification and fate. *Environmental Science: Water Research and Technology*, **2019**, 5, 1908-1931	4.2	69
21	Evaluating the stability of three oxidative stress biomarkers under sewer conditions and potential impact for use in wastewater-based epidemiology. *Water Research*, **2019**, 166, 115068	12.5	13
20	Per capita loads of organic UV filters in Australian wastewater influent. *Science of the Total Environment*, **2019**, 662, 134-140	10.2	24
19	Simultaneous determination of 24 opioids, stimulants and new psychoactive substances in wastewater. *MethodsX*, **2019**, 6, 953-960	1.9	22
18	A pilot wastewater-based epidemiology assessment of anabolic steroid use in Queensland, Australia. *Drug Testing and Analysis*, **2019**, 11, 937-949	3.5	7
17	Uncertainties in estimating alcohol and tobacco consumption by wastewater-based epidemiology. *Current Opinion in Environmental Science and Health*, **2019**, 9, 13-18	8.1	15
16	Trends in nicotine consumption between 2010 and 2017 in an Australian city using the wastewater-based epidemiology approach. *Environment International*, **2019**, 125, 184-190	12.9	24
15	Harnessing the Power of the Census: Characterizing Wastewater Treatment Plant Catchment Populations for Wastewater-Based Epidemiology. *Environmental Science & Technology*, **2019**, 53, 10303-10311	10.3	35
14	Social, demographic, and economic correlates of food and chemical consumption measured by wastewater-based epidemiology. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 21864-21873	11.5	47
13	Assessment of drugs of abuse in a wastewater treatment plant with parallel secondary wastewater treatment train. *Science of the Total Environment*, **2019**, 658, 947-957	10.2	22
12	A National Wastewater Monitoring Program for a better understanding of public health: A case study using the Australian Census. *Environment International*, **2019**, 122, 400-411	12.9	40

List of Publications

11	Analyzing Wastewater Samples Collected during Census To Determine the Correction Factors of Drugs for Wastewater-Based Epidemiology: The Case of Codeine and Methadone. *Environmental Science and Technology Letters*, **2019**, 6, 265-269	11	15
10	LC-HRMS suspect screening to show spatial patterns of New Psychoactive Substances use in Australia. *Science of the Total Environment*, **2019**, 650, 2181-2187	10.2	42
9	Investigating the correlation between wastewater analysis and roadside drug testing in South Australia. *Drug and Alcohol Dependence*, **2018**, 187, 123-126	4.9	9
8	Measuring spatial and temporal trends of nicotine and alcohol consumption in Australia using wastewater-based epidemiology. *Addiction*, **2018**, 113, 1127-1136	4.6	40
7	Enantiomeric profiling of amphetamine and methamphetamine in wastewater: A 7-year study in regional and urban Queensland, Australia. *Science of the Total Environment*, **2018**, 643, 827-834	10.2	27
6	Wastewater-based epidemiology biomarkers: Past, present and future. *TrAC - Trends in Analytical Chemistry*, **2018**, 105, 453-469	14.6	194
5	Wastewater analysis shows a large decrease in oxycodone use in Adelaide. *Medical Journal of Australia*, **2017**, 207, 88	4	1
4	Estimates of tobacco use by wastewater analysis of anabasine and anatabine. *Drug Testing and Analysis*, **2016**, 8, 702-7	3.5	26
3	Temporal trends in drug use in Adelaide, South Australia by wastewater analysis. *Science of the Total Environment*, **2016**, 565, 384-391	10.2	85
2	Trends in stimulant use in Australia: A comparison of wastewater analysis and population surveys. *Science of the Total Environment*, **2015**, 536, 331-337	10.2	29
1	Towards finding a population biomarker for wastewater epidemiology studies. *Science of the Total Environment*, **2014**, 487, 621-8	10.2	97