Phil M Choi

List of Publications by Year
in descending order

32 papers	3,051 citations	304743 22 h-index	434195 31 g-index
34 all docs	34 docs citations	34 times ranked	3491 citing authors

#	Article	IF	Citations
1	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.	8.0	1,393
2	Wastewater-based epidemiology biomarkers: Past, present and future. TrAC - Trends in Analytical Chemistry, 2018, 105, 453-469.	11.4	327
3	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.	8.0	218
4	Minimizing errors in RT-PCR detection and quantification of SARS-CoV-2 RNA for wastewater surveillance. Science of the Total Environment, 2022, 805, 149877.	8.0	153
5	Surveillance of SARS-CoV-2 RNA in wastewater: Methods optimization and quality control are crucial for generating reliable public health information. Current Opinion in Environmental Science and Health, 2020, 17, 82-93.	4.1	126
6	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.	7.1	104
7	Release of Plastics to Australian Land from Biosolids End-Use. Environmental Science & Technology, 2020, 54, 15132-15141.	10.0	62
8	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.	10.0	59
9	Comparison of RT-qPCR and RT-dPCR Platforms for the Trace Detection of SARS-CoV-2 RNA in Wastewater. ACS ES&T Water, 2022, 2, 1871-1880.	4.6	51
10	Current and future perspectives for wastewater-based epidemiology as a monitoring tool for pharmaceutical use. Science of the Total Environment, 2021, 789, 148047.	8.0	44
11	Considerations for assessing stability of wastewater-based epidemiology biomarkers using biofilm-free and sewer reactor tests. Science of the Total Environment, 2020, 709, 136228.	8.0	42
12	Trends in nicotine consumption between 2010 and 2017 in an Australian city using the wastewater-based epidemiology approach. Environment International, 2019, 125, 184-190.	10.0	39
13	Population histamine burden assessed using wastewater-based epidemiology: The association of 1,4â€′methylimidazole acetic acid and fexofenadine. Environment International, 2018, 120, 172-180.	10.0	38
14	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.	11.3	35
15	Evaluating the in-sewer stability of three potential population biomarkers for application in wastewater-based epidemiology. Science of the Total Environment, 2019, 671, 248-253.	8.0	32
16	Analysis of urinary metabolites of polycyclic aromatic hydrocarbons and cotinine in pooled urine samples to determine the exposure to PAHs in an Australian population.. Environmental Research, 2020, 182, 109048.	7.5	29
17	Trends in artificial sweetener consumption: A 7-year wastewater-based epidemiology study in Queensland, Australia. Science of the Total Environment, 2021, 754, 142438.	8.0	29
18	Systematic Evaluation of the In-Sample Stability of Selected Pharmaceuticals, Illicit Drugs, and Their Metabolites in Wastewater. Environmental Science & Technology, 2021, 55, 7418-7429.	10.0	29

#	Article	IF	Citations
19	Machine learning combined with non-targeted LC-HRMS analysis for a risk warning system of chemical hazards in drinking water: A proof of concept. Talanta, 2019, 195, 426-432.	5.5	28
20	Wastewater-based estimation of the prevalence of gout in Australia. Science of the Total Environment, 2020, 715, 136925.	8.0	26
21	National wastewater reconnaissance of artificial sweetener consumption and emission in Australia. Environment International, 2020, 143, 105963.	10.0	25
22	Do food and stress biomarkers work for wastewater-based epidemiology? A critical evaluation. Science of the Total Environment, 2020, 736, 139654.	8.0	24
23	Population Socioeconomics Predicted Using Wastewater. Environmental Science and Technology Letters, 2020, 7, 567-572.	8.7	23
24	Assessing the removal of organic micropollutants from wastewater by discharging drinking water sludge to sewers. Water Research, 2020, 181, 115945.	11.3	22
25	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.	10.0	19
26	A pilot wastewater-based epidemiology assessment of anabolic steroid use in Queensland, Australia. Drug Testing and Analysis, 2019, 11, 937-949.	2.6	17
27	In-Sewer Stability Assessment of Anabolic Steroids and Selective Androgen Receptor Modulators. Environmental Science & Technology, 2022, 56, 1627-1638.	10.0	10
28	From Centroided to Profile Mode: Machine Learning for Prediction of Peak Width in HRMS Data. Analytical Chemistry, 2021, 93, 16562-16570.	6.5	9
29	Naive Bayes classification model for isotopologue detection in LC-HRMS data. Chemometrics and Intelligent Laboratory Systems, 2022, 223, 104515.	3.5	9
30	Evaluation of Lipopeptides as Toll-like Receptor 2 Ligands. Current Drug Delivery, 2017, 14, 935-943.	1.6	6
31	Investigating the affinity of poly tert-butyl acrylate toward Toll-Like Receptor 2. AIMS Allergy and Immunology, 2018, 2, 141-147.	0.5	6
32	Mining Population Exposure and Community Health via Wastewater-Based Epidemiology. , 2020, , 99-114.		3