Jacobus P Gerber

List of Publications by Year
in descending order

69 papers	2,908 citations	201575 27 h-index	175177 52 g-index
69 all docs	69 docs citations	69 times ranked	3447 citing authors

#	Article	IF	Citations
1	Low Relative Abundances of the Mucolytic Bacterium Akkermansia muciniphila and Bifidobacterium spp. in Feces of Children with Autism. Applied and Environmental Microbiology, 2011, 77, 6718-6721.	1.4	356
2	Increased abundance of Sutterella spp. and Ruminococcus torques in feces of children with autism spectrum disorder. Molecular Autism, 2013, 4, 42.	2.6	330
3	Elevated Fecal Short Chain Fatty Acid and Ammonia Concentrations in Children with Autism Spectrum Disorder. Digestive Diseases and Sciences, 2012, 57, 2096-2102.	1.1	323
4	Spatioâ€temporal assessment of illicit drug use at large scale: evidence from 7 years of international wastewater monitoring. Addiction, 2020, 115, 109-120.	1.7	154
5	Towards finding a population biomarker for wastewater epidemiology studies. Science of the Total Environment, 2014, 487, 621-628.	3.9	141
6	Temporal trends in drug use in Adelaide, South Australia by wastewater analysis. Science of the Total Environment, 2016, 565, 384-391.	3.9	115
7	Multi-year inter-laboratory exercises for the analysis of illicit drugs and metabolites in wastewater: Development of a quality control system. TrAC - Trends in Analytical Chemistry, 2018, 103, 34-43.	5.8	85
8	Occurrence of illicit drugs in water and wastewater and their removal during wastewater treatment. Water Research, 2017, 124, 713-727.	5.3	82
9	Harnessing the Power of the Census: Characterizing Wastewater Treatment Plant Catchment Populations for Wastewater-Based Epidemiology. Environmental Science & Technology, 2019, 53, 10303-10311.	4.6	69
10	Measuring spatial and temporal trends of nicotine and alcohol consumption in Australia using wastewaterâ€based epidemiology. Addiction, 2018, 113, 1127-1136.	1.7	62
11	LC-HRMS suspect screening to show spatial patterns of New Psychoactive Substances use in Australia. Science of the Total Environment, 2019, 650, 2181-2187.	3.9	58
12	Chloroquine and hydroxychloroquine binding to melanin: Some possible consequences for pathologies. Toxicology Reports, 2014, 1, 963-968.	1.6	56
13	Changes in alcohol consumption associated with social distancing and selfâ€isolation policies triggered by COVIDâ€19 in South Australia: a wastewater analysis study. Addiction, 2021, 116, 1600-1605.	1.7	55
14	Determination of colistin in human plasma, urine and other biological samples using LCâ€“MS/MS. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 862, 205-212.	1.2	54
15	Determination of 21 synthetic cathinones, phenethylamines, amphetamines and opioids in influent wastewater using liquid chromatography coupled to tandem mass spectrometry. Talanta, 2020, 208, 120479.	2.9	53
16	An optimized and robust PEG precipitation method for detection of SARS-CoV-2 in wastewater. Science of the Total Environment, 2021, 785, 147270.	3.9	43
17	Using Sepia melanin as a PD model to describe the binding characteristics of neuromelanin â€“ A critical review. Journal of Chemical Neuroanatomy, 2015, 64-65, 20-32.	1.0	42
18	Qualitative and quantitative temporal analysis of licit and illicit drugs in wastewater in Australia using liquid chromatography coupled to mass spectrometry. Analytical and Bioanalytical Chemistry, 2018, 410, 529-542.	1.9	39

#	Article	IF	Citations
19	A review of candidate urinary biomarkers for autism spectrum disorder. Biomarkers, 2011, 16, 537-552.	0.9	37
20	Towards an efficient method for the extraction and analysis of cannabinoids in wastewater. Talanta, 2020, 217, 121034.	2.9	37
21	Trends in stimulant use in Australia: A comparison of wastewater analysis and population surveys. Science of the Total Environment, 2015, 536, 331-337.	3.9	35
22	Estimates of tobacco use by wastewater analysis of anabasine and anatabine. Drug Testing and Analysis, 2016, 8, 702-707.	1.6	35
23	Simultaneous determination of 24 opioids, stimulants and new psychoactive substances in wastewater. MethodsX, 2019, 6, 953-960.	0.7	34
24	International snapshot of new psychoactive substance use: Case study of eight countries over the 2019/2020 new year period. Water Research, 2021, 193, 116891.	5.3	34
25	Determining changes in new psychoactive substance use in Australia by wastewater analysis. Science of the Total Environment, 2020, 731, 139209.	3.9	33
26	Removal of emerging drugs of addiction by wastewater treatment and water recycling processes and impacts on effluent-associated environmental risk. Science of the Total Environment, 2019, 680, 13-22.	3.9	29
27	In Vivo Activity of Benzoyl Ester Clerodane Diterpenoid Derivatives from Dodonaea polyandra. Journal of Natural Products, 2011, 74, 650-657.	1.5	27
28	Investigating the appearance of new psychoactive substances in South Australia using wastewater and forensic data. Drug Testing and Analysis, 2019, 11, 250-256.	1.6	27
29	Uncertainties in estimating alcohol and tobacco consumption by wastewater-based epidemiology. Current Opinion in Environmental Science and Health, 2019, 9, 13-18.	2.1	27
30	A Taste for New Psychoactive Substances: Wastewater Analysis Study of 10 Countries. Environmental Science and Technology Letters, 2022, 9, 57-63.	3.9	27
31	Flavonoids from the leaves and stems of Dodonaea polyandra: A Northern Kaanju medicinal plant. Phytochemistry, 2011, 72, 1883-1888.	1.4	26
32	Determination of prescribed and designer benzodiazepines and metabolites in influent wastewater. Analytical Methods, 2020, 12, 3637-3644.	1.3	26
33	Impact of COVID-19 Controls on the Use of Illicit Drugs and Alcohol in Australia. Environmental Science and Technology Letters, 2021, 8, 799-804.	3.9	22
34	Is urinary indolyl-3-acryloylglycine a biomarker for autism with gastrointestinal symptoms?. Biomarkers, 2009, 14, 596-603.	0.9	20
35	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.	3.9	17
36	Occurrence, removal and environmental risk of markers of five drugs of abuse in urban wastewater systems in South Australia. Environmental Science and Pollution Research, 2019, 26, 33816-33826.	2.7	16

#	Article	IF	Citations
37	A sensitive analytical method for the measurement of neurotransmitter metabolites as potential population biomarkers in wastewater. Journal of Chromatography A, 2020, 1612, 460623.	1.8	16
38	Physical factors affecting chloroquine binding to melanin. Colloids and Surfaces B: Biointerfaces, 2015, 134, 8-16.	2.5	15
39	Investigating the correlation between wastewater analysis and roadside drug testing in South Australia. Drug and Alcohol Dependence, 2018, 187, 123-126.	1.6	14
40	A wastewaterâ€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.	1.7	14
41	Understanding the Removal and Fate of Selected Drugs of Abuse in Sludge and Biosolids from Australian Wastewater Treatment Operations. Engineering, 2019, 5, 872-879.	3.2	13
42	A new LCâ€“MS/MS bioanalytical method for atenolol in human plasma and milk. Bioanalysis, 2017, 9, 517-530.	0.6	12
43	Is there a role for routinely screening children with autism spectrum disorder for creatine deficiency syndrome?. Autism Research, 2010, 3, 268-272.	2.1	11
44	What is the drug of choice of young festivalgoers?. Drug and Alcohol Dependence, 2020, 216, 108315.	1.6	11
45	Anabasineâ€based measurement of cigarette consumption using wastewater analysis. Drug Testing and Analysis, 2020, 12, 1393-1398.	1.6	11
46	Application of catecholamine metabolites as endogenous population biomarkers for wastewater-based epidemiology. Science of the Total Environment, 2021, 763, 142992.	3.9	11
47	How the recreational stimulant market has changed: Case study in Adelaide, Australia 2016â€“2019. Science of the Total Environment, 2021, 757, 143728.	3.9	11
48	Delivering harm reduction to the community and frontline medical practitioners through the South Australian Drug Early Warning System (SADEWS). Forensic Science, Medicine, and Pathology, 2021, 17, 388-394.	0.6	11
49	Wastewater analysis for psychoactive substances at music festivals across New South Wales, Australia in 2019â€“2020. Clinical Toxicology, 2022, 60, 440-445.	0.8	11
50	Oral and i.v. pharmacokinetics of isosteviol in rats as assessed by a new sensitive LCâ€“MS/MS method. Journal of Pharmaceutical and Biomedical Analysis, 2008, 48, 986-990.	1.4	10
51	Is the tissue persistence of O6-methyl-2â€²-deoxyguanosine an indicator of tumour formation in the gastrointestinal tract?. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2011, 721, 119-126.	0.9	10
52	Synthesis and evaluation of 2â€²H-spiro[cyclohexane-1,3â€²-imidazo[1,5-a]pyridine]-1â€²,5â€²-dione derivatives as Mnk inhibitors. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 2650-2654.	1.0	10
53	Injectable Dielsâ€“Alder cycloaddition hydrogels with tuneable gelation, stiffness and degradation for the sustained release of T-lymphocytes. Journal of Materials Chemistry B, 2022, 10, 3329-3343.	2.9	10
54	Transfer of rosuvastatin into breast milk: liquid chromatography–mass spectrometry methodology and clinical recommendations. Drug Design, Development and Therapy, 2018, Volume 12, 3645-3651.	2.0	9

#	Article	IF	Citations
55	Effect of Garlic, Gingko, and St. Johnâ€™s Wort Extracts on the Pharmacokinetics of Fexofenadine: A Mechanistic Study. Drug Metabolism and Disposition, 2017, 45, 569-575.	1.7	8
56	Methcathinone in wastewater: Drug of choice, or artefact?. Science of the Total Environment, 2022, 836, 155696.	3.9	8
57	A new LC-MS/MS bioanalytical method for perindopril and perindoprilat in human plasma and milk. Analytical and Bioanalytical Chemistry, 2017, 409, 6141-6148.	1.9	7
58	Estimation of Atenolol Transfer Into Milk and Infant Exposure During Its Use in Lactating Women. Journal of Human Lactation, 2018, 34, 592-599.	0.8	7
59	A method and its application to determine the amount of cannabinoids in sewage sludge and biosolids. Environmental Science and Pollution Research, 2021, 28, 59652-59664.	2.7	7
60	Discovery of N-Phenyl-4-(1H-pyrrol-3-yl)pyrimidin-2-amine Derivatives as Potent Mnk2 Inhibitors: Design, Synthesis, SAR Analysis, and Evaluation of in vitro Anti-leukaemic Activity. Medicinal Chemistry, 2019, 15, 602-623.	0.7	7
61	Disposition of isosteviol in the rat isolated perfused liver. Clinical and Experimental Pharmacology and Physiology, 2010, 37, 593-597.	0.9	6
62	Pholedrine is a marker of direct disposal of methamphetamine. Science of the Total Environment, 2021, 782, 146839.	3.9	6
63	The complexities associated with new psychoactive substances in influent wastewater: The case of 4â€ethylmethcathinone. Drug Testing and Analysis, 2020, 12, 1494-1500.	1.6	5
64	Partitioning of phytocannabinoids between faeces and water â€“ Implications for wastewater-based epidemiology. Science of the Total Environment, 2022, 805, 150269.	3.9	3
65	Wastewater analysis shows a large decrease in oxycodone use in Adelaide. Medical Journal of Australia, 2017, 207, 88-88.	0.8	2
66	Perindopril in Breast Milk and Determination of Breastfed Infant Exposure: A Prospective Observational Study . Drug Design, Development and Therapy, 2020, Volume 14, 961-967.	2.0	2
67	Role of saturated and unsaturated fatty acids on dicarbonylâ€“albumin derived advanced glycation end products in vitro. Amino Acids, 2021, , 1.	1.2	2
68	Amphetamine dependence in Australia. Lancet, The, 2020, 396, 957.	6.3	1
69	Multisite Calibration of a Microporous Polyethylene Tube Passive Sampler for Quantifying Drugs in Wastewater. Environmental Science & Technology, 2021, 55, 12922-12929.	4.6	1