

Christian Zwiener

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.

62

papers

2,973

citations

27

h-index

54

g-index

69

ext. papers

3,466

ext. citations

7.4

avg, IF

5.5

L-index

#	Paper	IF	Citations
62	Oxidative treatment of pharmaceuticals in water. <i>Water Research</i> , 2000 , 34, 1881-1885	12.5	409
61	Non-target screening with high-resolution mass spectrometry: critical review using a collaborative trial on water analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 6237-55	4.4	358
60	Drowning in disinfection byproducts? Assessing swimming pool water. <i>Environmental Science & Technology</i> , 2007 , 41, 363-72	10.3	264
59	Short-term tests with a pilot sewage plant and biofilm reactors for the biological degradation of the pharmaceutical compounds clofibric acid, ibuprofen, and diclofenac. <i>Science of the Total Environment</i> , 2003 , 309, 201-11	10.2	213
58	Tracking artificial sweeteners and pharmaceuticals introduced into urban groundwater by leaking sewer networks. <i>Science of the Total Environment</i> , 2012 , 430, 8-19	10.2	137
57	Metabolites from the biodegradation of pharmaceutical residues of ibuprofen in biofilm reactors and batch experiments. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 372, 569-75	4.4	137
56	Occurrence and analysis of pharmaceuticals and their transformation products in drinking water treatment. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 1159-62	4.4	92
55	Is nontarget screening of emerging contaminants by LC-HRMS successful? A plea for compound libraries and computer tools. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 2493-502	4.4	89
54	LC-MS analysis in the aquatic environment and in water treatment technology--a critical review. Part II: Applications for emerging contaminants and related pollutants, microorganisms and humic acids. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 378, 862-74	4.4	86
53	LC-MS analysis in the aquatic environment and in water treatment--a critical review. Part I: Instrumentation and general aspects of analysis and detection. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 378, 851-61	4.4	82
52	Trichloramine in swimming pools--formation and mass transfer. <i>Water Research</i> , 2011 , 45, 2681-90	12.5	78
51	Effects of exposure to water disinfection by-products in a swimming pool: A metabolome-wide association study. <i>Environment International</i> , 2018 , 111, 60-70	12.9	49
50	Metabolites indicate hot spots of biodegradation and biogeochemical gradients in a high-resolution monitoring well. <i>Environmental Science & Technology</i> , 2011 , 45, 474-81	10.3	48
49	Identification and quantification of polar naphthalene derivatives in contaminated groundwater of a former gas plant site by liquid chromatography-electrospray ionization tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2002 , 967, 201-7	4.5	48
48	Swimming pool water--fractionation and genotoxicological characterization of organic constituents. <i>Water Research</i> , 2005 , 39, 4494-502	12.5	47
47	Photolysis of four β -lactam antibiotics under simulated environmental conditions: Degradation, transformation products and antibacterial activity. <i>Science of the Total Environment</i> , 2019 , 651, 1605-1612	10.2	47
46	Trihalomethanes in Drinking Water and Bladder Cancer Burden in the European Union. <i>Environmental Health Perspectives</i> , 2020 , 128, 17001	8.4	46

45	Robust trace analysis of polar (C-C) perfluorinated carboxylic acids by liquid chromatography-tandem mass spectrometry: method development and application to surface water, groundwater and drinking water. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 7326-7336	5.1	46
44	Assessment of N-Oxide Formation during Wastewater Ozonation. <i>Environmental Science & Technology</i> , 2017 , 51, 410-417	10.3	44
43	Analysis of disinfection by-products in drinking water by LCMS and related MS techniques. <i>TrAC - Trends in Analytical Chemistry</i> , 2005 , 24, 613-621	14.6	41
42	Occurrence and overlooked sources of the biocide carbendazim in wastewater and surface water. <i>Environmental Pollution</i> , 2018 , 239, 512-521	9.3	39
41	Application and characterization of electroactive membranes based on carbon nanotubes and zerovalent iron nanoparticles. <i>Water Research</i> , 2017 , 108, 78-85	12.5	39
40	New developments in the trace analysis of organic water pollutants. <i>Applied Microbiology and Biotechnology</i> , 2012 , 94, 11-28	5.7	39
39	An insight of disinfection by-product (DBP) formation by alternative disinfectants for swimming pool disinfection under tropical conditions. <i>Water Research</i> , 2016 , 101, 535-546	12.5	39
38	Formation and occurrence of transformation products of metformin in wastewater and surface water. <i>Science of the Total Environment</i> , 2018 , 628-629, 1121-1129	10.2	34
37	Environmental and personal determinants of the uptake of disinfection by-products during swimming. <i>Environmental Research</i> , 2016 , 149, 206-215	7.9	32
36	Possible links between groundwater geochemistry and chronic kidney disease of unknown etiology (CKDu): an investigation from the Ginnoruwa region in Sri Lanka. <i>Exposure and Health</i> , 2020 , 12, 823-834	8.8	28
35	Electrochemical reduction of the iodinated contrast medium iomeprol: iodine mass balance and identification of transformation products. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 395, 1885-92	4.4	26
34	Fate of wastewater contaminants in rivers: Using conservative-tracer based transfer functions to assess reactive transport. <i>Science of the Total Environment</i> , 2019 , 656, 1250-1260	10.2	26
33	Elimination of Swimming Pool Water Disinfection By-products with Advanced Oxidation Processes (AOPs). <i>Clean - Soil, Air, Water</i> , 2005 , 33, 585-594		25
32	Closing the gap - inclusion of ultrashort-chain perfluoroalkyl carboxylic acids in the total oxidizable precursor (TOP) assay protocol. <i>Environmental Sciences: Processes and Impacts</i> , 2019 , 21, 1926-1935	4.3	23
31	Acute changes in serum immune markers due to swimming in a chlorinated pool. <i>Environment International</i> , 2017 , 105, 1-11	12.9	22
30	Norfluoxetine Is the Only Metabolite of Fluoxetine in Zebrafish (<i>Danio rerio</i>) Embryos That Accumulates at Environmentally Relevant Exposure Scenarios. <i>Environmental Science & Technology</i> , 2020 , 54, 4200-4209	10.3	19
29	LC-MS screening of poly- and perfluoroalkyl substances in contaminated soil by Kendrick mass analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 4797-4805	4.4	18
28	Aerobic and anaerobic formation and biodegradation of guanlyl urea and other transformation products of metformin. <i>Water Research</i> , 2019 , 149, 130-135	12.5	18

27	Combining in vitro reporter gene bioassays with chemical analysis to assess changes in the water quality along the Ammer River, Southwestern Germany. <i>Environmental Sciences Europe</i> , 2018 , 30, 20	5	17
26	Transformation Products of Fluoxetine Formed by Photodegradation in Water and Biodegradation in Zebrafish Embryos (<i>Danio rerio</i>). <i>Environmental Science & Technology</i> , 2019 , 53, 7400-7409	10.3	15
25	Simultaneous determination of multiclass antibiotics in sewage sludge based on QuEChERS extraction and liquid chromatography-tandem mass spectrometry. <i>Analytical Methods</i> , 2020 , 12, 576-586	3.2	13
24	Does the antidiabetic drug metformin affect embryo development and the health of brown trout (<i>f.</i>)?. <i>Environmental Sciences Europe</i> , 2018 , 30, 48	5	12
23	Denatonium - A so far unrecognized but ubiquitous water contaminant?. <i>Water Research</i> , 2017 , 112, 254-260	12.9	11
22	Impact of the antidepressant citalopram on the behaviour of two different life stages of brown trout. <i>PeerJ</i> , 2020 , 8, e8765	3.1	11
21	Exposure to disinfection by-products in swimming pools and biomarkers of genotoxicity and respiratory damage - The PISCINA2 Study. <i>Environment International</i> , 2019 , 131, 104988	12.9	10
20	Impact of the Antidiabetic Drug Metformin and Its Transformation Product Guanylurea on the Health of the Big Ramshorn Snail (<i>Planorbis corneus</i>). <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8	9
19	Influence of Emission Sources and Tributaries on the Spatial and Temporal Patterns of Micropollutant Mixtures and Associated Effects in a Small River. <i>Environmental Toxicology and Chemistry</i> , 2020 , 39, 1382-1391	3.8	9
18	Biodegradation of Pesticides at the Limit: Kinetics and Microbial Substrate Use at Low Concentrations. <i>Frontiers in Microbiology</i> , 2020 , 11, 2107	5.7	8
17	Temporal and spatial variable in-stream attenuation of selected pharmaceuticals. <i>Science of the Total Environment</i> , 2020 , 741, 139514	10.2	7
16	Interacting Effects of Polystyrene Microplastics and the Antidepressant Amitriptyline on Early Life Stages of Brown Trout (<i>Salmo trutta f. fario</i>). <i>Water (Switzerland)</i> , 2020 , 12, 2361	3	7
15	Mitochondrial Toxicity of Selected Micropollutants, Their Mixtures, and Surface Water Samples Measured by the Oxygen Consumption Rate in Cells. <i>Environmental Toxicology and Chemistry</i> , 2019 , 38, 1000-1011	3.8	7
14	Storm Event-Driven Occurrence and Transport of Dissolved and Sorbed Organic Micropollutants and Associated Effects in the Ammer River, Southwestern Germany. <i>Environmental Toxicology and Chemistry</i> , 2021 , 40, 88-99	3.8	6
13	Behavioral and Developmental Changes in Brown Trout After Exposure to the Antidepressant Venlafaxine. <i>Frontiers in Environmental Science</i> , 2021 , 8,	4.8	5
12	Identification of transformation products of denatonium - Occurrence in wastewater treatment plants and surface waters. <i>Science of the Total Environment</i> , 2019 , 686, 140-150	10.2	4
11	Mass spectrometric screening and identification of acidic metabolites in fulvic acid fractions of contaminated groundwater. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 3415-29	4.4	4
10	Zielvorgaben für Pflanzenschutzmittelwirkstoffe und andere Schadstoffe in Oberflächengewässern. <i>Clean - Soil, Air, Water</i> , 2001 , 29, 246		4

9	Separation of Photochemical and Non-Photochemical Diurnal In-Stream Attenuation of Micropollutants. <i>Environmental Science & Technology</i> , 2021 , 55, 8908-8917	10.3	4
8	Abiotic and biotic transformation of torasemide - Occurrence of degradation products in the aquatic environment. <i>Water Research</i> , 2020 , 177, 115753	12.5	4
7	Effects of guanlyurea, the transformation product of the antidiabetic drug metformin, on the health of brown trout (f.). <i>PeerJ</i> , 2019 , 7, e7289	3.1	3
6	Electrochemical Oxidation of 6:2 Polyfluoroalkyl Phosphate Diester-Simulation of Transformation Pathways and Reaction Kinetics with Hydroxyl Radicals. <i>Environmental Science & Technology</i> , 2021 ,	10.3	3
5	Ion Mobility Spectrometry To Monitor Trichloramine in Indoor Pool Air. <i>ACS Symposium Series</i> , 2015 , 431-446	11.6	2
4	Effects of the Antidepressants Citalopram and Venlafaxine on the Big Ramshorn Snail (<i>Planorbium corneus</i>). <i>Water (Switzerland)</i> , 2021 , 13, 1722	3	2
3	LC-HRMS screening of per- and polyfluorinated alkyl substances (PFAS) in impregnated paper samples and contaminated soils. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4	2
2	Gekoppelte Massenspektrometrie für die Wasseranalyse. <i>Nachrichten Aus Der Chemie</i> , 2004 , 52, 156-159	0.1	1
1	Comparison of environmental tracers including organic micropollutants as groundwater exfiltration indicators into a small river of a karstic catchment. <i>Hydrological Processes</i> , 2020 , 34, 4712-4726	3.3	1