Sebastian Buchinger

List of Publications by Year
in descending order

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60 papers	2,915 citations	236833 25 h-index	168321 53 g-index
60 all docs	60 docs citations	60 times ranked	3802 citing authors

#	Article	IF	Citations
1	Bioavailability and impacts of estrogenic compounds from suspended sediment on rainbow trout (Oncorhynchus mykiss). Aquatic Toxicology, 2021, 231, 105719.	1.9	15
2	Combined sediment desorption and bioconcentration model to predict levels of dioxin-like chemicals in fish. Science of the Total Environment, 2021, 758, 143891.	3.9	4
3	Coupling high-performance thin-layer chromatography with a battery of cell-based assays reveals bioactive components in wastewater and landfill leachates. Ecotoxicology and Environmental Safety, 2021, 214, 112092.	2.9	12
4	UV aged epoxy coatings Ì¶ Ecotoxicological effects and released compounds. Water Research X, 2021, 12, 100105.	2.8	11
5	Estrogenicity of chemical mixtures revealed by a panel of bioassays. Science of the Total Environment, 2021, 785, 147284.	3.9	19
6	Yeast-Based Fluorescent Sensors for the Simultaneous Detection of Estrogenic and Androgenic Compounds, Coupled with High-Performance Thin Layer Chromatography. Biosensors, 2020, 10, 169.	2.3	12
7	Validation of the micro-EROD assay with H4IIE cells for assessing sediment contamination with dioxin-like chemicals. Environmental Pollution, 2020, 265, 114984.	3.7	3
8	Ecotoxicological characterization of emissions from steel coatings in contact with water. Water Research, 2020, 173, 115525.	5.3	9
9	Does galvanic cathodic protection by aluminum anodes impact marine organisms?. Environmental Sciences Europe, 2020, 32, .	2.6	15
10	Combination of yeast-based inÂvitro screens with high-performance thin-layer chromatography as a novel tool for the detection of hormonal and dioxin-like compounds. Analytica Chimica Acta, 2019, 1081, 218-230.	2.6	22
11	Detection and Quantification of Photosystem II Inhibitors Using the Freshwater Alga Desmodesmus subspicatus in Combination with High-Performance Thin-Layer Chromatography. Environmental Science & Technology, 2019, 53, 13458-13467.	4.6	12
12	Bioavailability of estrogenic compounds from sediment in the context of flood events evaluated by passive sampling. Water Research, 2019, 161, 540-548.	5.3	29
13	Monitoring estrogenic activities of waste and surface waters using a novel in vivo zebrafish embryonic (EASZY) assay: Comparison with in vitro cell-based assays and determination of effect-based trigger values. Environment International, 2019, 130, 104896.	4.8	43
14	Coupling High-Performance Thin-Layer Chromatography with Bacterial Genotoxicity Bioreporters. Environmental Science & Technology, 2019, 53, 6410-6419.	4.6	13
15	Effect-based and chemical analytical methods to monitor estrogens under the European Water Framework Directive. TrAC - Trends in Analytical Chemistry, 2018, 102, 225-235.	5.8	82
16	Effect-based trigger values for in vitro and in vivo bioassays performed on surface water extracts supporting the environmental quality standards (EQS) of the European Water Framework Directive. Science of the Total Environment, 2018, 628-629, 748-765.	3.9	176
17	A new approach in separating microplastics from environmental samples based on their electrostatic behavior. Environmental Pollution, 2018, 234, 20-28.	3.7	163
18	Screening and risk management solutions for steroidal estrogens in surface and wastewater. TrAC - Trends in Analytical Chemistry, 2018, 102, 343-358.	5.8	68

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19	In vitro tools for the toxicological evaluation of sediments and dredged materials: intra- and inter-laboratory comparisons of chemical and bioanalytical methods. Environmental Science and Pollution Research, 2018, 25, 4037-4050.	2.7	7
20	Transcriptional changes measured in rice roots after exposure to arsenite-contaminated sediments. Environmental Science and Pollution Research, 2018, 25, 2707-2717.	2.7	8
21	Unprecedented sensitivity of the planar yeast estrogen screen by using a spray-on technology. Journal of Chromatography A, 2017, 1530, 185-191.	1.8	28
22	Bioanalytical and instrumental screening of the uptake of sediment-borne, dioxin-like compounds in roach (Rutilus rutilus). Environmental Science and Pollution Research, 2016, 23, 12060-12074.	2.7	11
23	Cross-Species Extrapolation of Uptake and Disposition of Neutral Organic Chemicals in Fish Using a Multispecies Physiologically-Based Toxicokinetic Model Framework. Environmental Science & Technology, 2016, 50, 1914-1923.	4.6	38
24	Bioassay battery interlaboratory investigation of emerging contaminants in spiked water extracts â€“ Towards the implementation of bioanalytical monitoring tools in water quality assessment and monitoring. Water Research, 2016, 104, 473-484.	5.3	71
25	SOS gene induction and possible mutagenic effects of freeze-drying in Escherichia coli and Salmonella typhimurium. Applied Microbiology and Biotechnology, 2016, 100, 9255-9264.	1.7	6
26	Toxicogenomics in Environmental Science. Advances in Biochemical Engineering/Biotechnology, 2016, 157, 159-186.	0.6	9
27	Toward understanding the impacts of sediment contamination on a native fish species: transcriptional effects, EROD activity, and biliary PAH metabolites. Environmental Sciences Europe, 2016, 28, 28.	2.6	13
28	Characterisation of transcriptional responses to dioxins and dioxin-like contaminants in roach () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38 412-423.	3.9	29
29	Development of a sediment-contact test with rice for the assessment of sediment-bound pollutants. Environmental Science and Pollution Research, 2015, 22, 12664-12675.	2.7	4
30	Towards science-based sediment quality standardsâ€"Effects of field-collected sediments in rainbow trout (Oncorhynchus mykiss). Aquatic Toxicology, 2015, 166, 50-62.	1.9	20
31	A physiologically based toxicokinetic (PBTK) model for moderately hydrophobic organic chemicals in the European eel (Anguilla anguilla). Science of the Total Environment, 2015, 536, 279-287.	3.9	19
32	The European technical report on aquatic effect-based monitoring tools under the water framework directive. Environmental Sciences Europe, 2015, 27, .	11.0	196
33	Determination of the CYP1A-inducing potential of single substances, mixtures and extracts of samples in the micro-EROD assay with H4IIE cells. Nature Protocols, 2015, 10, 1728-1741.	5.5	39
34	Physiologically-based toxicokinetic models help identifying the key factors affecting contaminant uptake during flood events. Aquatic Toxicology, 2014, 152, 38-46.	1.9	30
35	Understanding Receptor-Mediated Effects in Rainbow Trout: In Vitroâ€“in Vivo Extrapolation Using Physiologically Based Toxicokinetic Models. Environmental Science & Technology, 2014, 48, 3303-3309.	4.6	25
36	Microplastics in freshwater ecosystems: what we know and what we need to know. Environmental Sciences Europe, 2014, 26, 12.	2.6	914

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37	In vitro bioassays for detecting dioxin-like activity â€" Application potentials and limits of detection, a review. Science of the Total Environment, 2014, 487, 37-48.	3.9	82
38	The dioRAMA project: assessment of dioxin-like activity in sediments and fish (Rutilus rutilus) in support of the ecotoxicological characterization of sediments. Journal of Soils and Sediments, 2013, 13, 770-774.	1.5	7
39	Direct Coupling of Thin-Layer Chromatography with a Bioassay for the Detection of Estrogenic Compounds: Applications for Effect-Directed Analysis. Analytical Chemistry, 2013, 85, 7248-7256.	3.2	70
40	Integrated biologicalâ€"chemical approach for the isolation and selection of polyaromatic mutagens in surface waters. Analytical and Bioanalytical Chemistry, 2013, 405, 9101-9112.	1.9	21
41	Combination of high-performance thin-layer chromatography with a specific bioassay - A tool for effect-directed analysis. Journal of Planar Chromatography - Modern TLC, 2013, 26, 395-401.	0.6	28
42	Estrogenic effects along the river saale. Environmental Toxicology and Chemistry, 2013, 32, 526-534.	2.2	14
43	Deriving bioâ€equivalents from in vitro bioassays: Assessment of existing uncertainties and strategies to improve accuracy and reporting. Environmental Toxicology and Chemistry, 2013, 32, 1906-1917.	2.2	27
44	Analysis of in vivo Function of Predicted Isoenzymesâ€"A Metabolomic Approach. OMICS A Journal of Integrative Biology, 2012, 16, 668-680.	1.0	4
45	Effect directed analysis and mixture effects of estrogenic compounds in a sediment of the river Elbe. Environmental Science and Pollution Research, 2012, 19, 3350-3361.	2.7	49
46	Roles of human sulfotransferases in genotoxicity of carcinogens using genetically engineered umu test strains. Environmental and Molecular Mutagenesis, 2012, 53, 152-164.	0.9	21
47	Microbial genotoxicity bioreporters based on sulA activation. Analytical and Bioanalytical Chemistry, 2011, 400, 3013-3024.	1.9	30
48	Identification of mutagens in freshwater sediments by the Amesâ€fluctuation assay using nitroreductase and acetyltransferase overproducing test strains. Environmental and Molecular Mutagenesis, 2011, 52, 397-408.	0.9	24
49	Evaluation of chrono-amperometric signal detection for the analysis of genotoxicity by a whole cell biosensor. Analytica Chimica Acta, 2010, 659, 122-128.	2.6	16
50	Bacterial genotoxicity bioreporters. Microbial Biotechnology, 2010, 3, 412-427.	2.0	51
51	Impact of adenylyltransferase GlnE on nitrogen starvation response in Corynebacterium glutamicum. Journal of Biotechnology, 2010, 145, 244-252.	1.9	11
52	Cell-Based Genotoxicity Testing. , 2009, 118, 85-111.		10
53	A whole cell electrochemical biosensor for water genotoxicity bio-detection. Electrochimica Acta, 2009, 54, 6113-6118.	2.6	84
54	A combination of metabolome and transcriptome analyses reveals new targets of the Corynebacterium glutamicum nitrogen regulator AmtR. Journal of Biotechnology, 2009, 140, 68-74.	1.9	39

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55	A method for enzyme quenching in microbial metabolome analysis successfully applied to gram-positive and gram-negative bacteria and yeast. Analytical Biochemistry, 2009, 394, 192-201.	1.1	61
56	Development of a freeze-drying protocol for the long-term storage of S9-fraction at ambient temperatures. Cryobiology, 2009, 58, 139-144.	0.3	3
57	Genetically Engineered Bacteria for Genotoxicity Assessment. Handbook of Environmental Chemistry, 2009, , 161-186.	0.2	16
58	Crystal structure and stereochemical studies of KD(P)G aldolase from Thermoproteus tenax. Proteins: Structure, Function and Bioinformatics, 2008, 72, 35-43.	1.5	14
59	A high-throughput method for microbial metabolome analysis using gas chromatography/mass spectrometry. Analytical Biochemistry, 2007, 367, 143-151.	1.1	38
60	Mutation-induced metabolite pool alterations in Corynebacterium glutamicum: Towards the identification of nitrogen control signals. Journal of Biotechnology, 2006, 126, 440-453.	1.9	20