Georg Reifferscheid

List of Publications by Year
in descending order

78	4,617	159585 30	102487 66
papers	citations	h-index	g-index

81	81	81	5233
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microplastics in freshwater ecosystems: what we know and what we need to know. Environmental Sciences Europe, 2014, 26, 12.	5.5	914
2	Feeding type and development drive the ingestion of microplastics by freshwater invertebrates. Scientific Reports, 2017, 7, 17006.	3.3	282
3	Sampling techniques and preparation methods for microplastic analyses in the aquatic environment â€“ A review. TrAC - Trends in Analytical Chemistry, 2019, 113, 84-92.	11.4	248
4	Comparative assessment of microplastics in water and sediment of a large European river. Science of the Total Environment, 2020, 738, 139866.	8.0	215
5	The European technical report on aquatic effect-based monitoring tools under the water framework directive. Environmental Sciences Europe, 2015, 27, .	11.0	196
6	Genotoxicity of dental materials. Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure, 1996, 368, 181-194.	1.2	182
7	PET microplastics do not negatively affect the survival, development, metabolism and feeding activity of the freshwater invertebrate Gammarus pulex. Environmental Pollution, 2018, 234, 181-189.	7.5	173
8	Validation of the SOS/umu test using test results of 486 chemicals and comparison with the Ames test and carcinogenicity data. Mutation Research - Genetic Toxicology Testing and Biomonitoring of Environmental Or Occupational Exposure, 1996, 369, 129-145.	1.2	163
9	A new approach in separating microplastics from environmental samples based on their electrostatic behavior. Environmental Pollution, 2018, 234, 20-28.	7.5	163
10	A NOVEL CONTACT ASSAY FOR TESTING GENOTOXICITY OF CHEMICALS AND WHOLE SEDIMENTS IN ZEBRAFISH EMBRYOS. Environmental Toxicology and Chemistry, 2006, 25, 2097.	4.3	109
11	Polar Compounds Dominate in Vitro Effects of Sediment Extracts. Environmental Science & Technology, 2011, 45, 2384-2390.	10.0	90
12	A whole cell electrochemical biosensor for water genotoxicity bio-detection. Electrochimica Acta, 2009, 54, 6113-6118.	5.2	84
13	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.	8.0	82
14	Effect-based and chemical analytical methods to monitor estrogens under the European Water Framework Directive. TrAC - Trends in Analytical Chemistry, 2018, 102, 225-235.	11.4	82
15	Comparison of in vitro and in situ genotoxicity in the Danube River by means of the comet assay and the micronucleus test. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2010, 700, 11-17.	1.7	75
16	Genotoxicity and cytotoxicity of the epoxy resin-based root canal sealer AH plus. Journal of Endodontics, 1999, 25, 109-113.	3.1	70
17	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.	6.5	70
18	Gene expression profiling to characterize sediment toxicity â€“ a pilot study using Caenorhabditis elegans whole genome microarrays. BMC Genomics, 2009, 10, 160.	2.8	68

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19	Screening and risk management solutions for steroidal estrogens in surface and wastewater. TrAC - Trends in Analytical Chemistry, 2018, 102, 343-358.	11.4	68
20	Toxicity of microplastics and natural particles in the freshwater dipteran Chironomus riparius: Same same but different?. Science of the Total Environment, 2020, 711, 134604.	8.0	61
21	Bacterial genotoxicity bioreporters. Microbial Biotechnology, 2010, 3, 412-427.	4.2	51
22	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.	5.3	49
23	Bioaccumulation in aquatic systems: methodological approaches, monitoring and assessment. Environmental Sciences Europe, 2015, 27, 5.	5.5	48
24	Measurement of genotoxicity in wastewater samples with the in vitro micronucleus testâ€"Results of a round-robin study in the context of standardisation according to ISO. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2008, 649, 15-27.	1.7	43
25	Detection of mammalian carcinogens with an immunological DNA synthesis-inhibition test. Carcinogenesis, 1992, 13, 2389-2394.	2.8	39
26	Evaluation of the SOS/umu-test post-treatment assay for the detection of genotoxic activities of pure compounds and complex environmental mixtures. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2000, 466, 161-171.	1.7	39
27	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.	12.0	39
28	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.	10.0	38
29	HAZARD CHARACTERIZATION AND IDENTIFICATION OF A FORMER AMMUNITION SITE USING MICROARRAYS, BIOASSAYS, AND CHEMICAL ANALYSIS. Environmental Toxicology and Chemistry, 2007, 26, 634.	4.3	37
30	Impact of contaminants bound to suspended particulate matter in the context of flood events. Journal of Soils and Sediments, 2010, 10, 1174-1185.	3.0	36
31	Quantitative and qualitative evaluation of plastic particles in surface waters of the Western Black Sea. Environmental Pollution, 2021, 268, 115724.	7.5	33
32	A combined DNA-microarray and mechanism-specific toxicity approach with zebrafish embryos to investigate the pollution of river sediments. Reproductive Toxicology, 2012, 33, 245-253.	2.9	31
33	Microbial genotoxicity bioreporters based on sulA activation. Analytical and Bioanalytical Chemistry, 2011, 400, 3013-3024.	3.7	30
34	Physiologically-based toxicokinetic models help identifying the key factors affecting contaminant uptake during flood events. Aquatic Toxicology, 2014, 152, 38-46.	4.0	30
35	Equilibrium sampling of polychlorinated biphenyls in River Elbe sediments â€“ Linking bioaccumulation in fish to sediment contamination. Chemosphere, 2015, 138, 856-862.	8.2	30
36	Characterisation of transcriptional responses to dioxins and dioxin-like contaminants in roach () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 412-423.	8.0	29

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37	ASSESSMENT OF THE MUTAGENIC POTENCY OF SEWAGE SLUDGES CONTAMINATED WITH POLYCYCLIC AROMATIC HYDROCARBONS BY AN AMES FLUCTUATION ASSAY. Environmental Toxicology and Chemistry, 2003, 22, 2576.	4.3	28
38	Investigation on soil contamination at recently inundated and non-inundated sites. Journal of Soils and Sediments, 2011, 11, 82-92.	3.0	28
39	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.	1.2	28
40	Unprecedented sensitivity of the planar yeast estrogen screen by using a spray-on technology. Journal of Chromatography A, 2017, 1530, 185-191.	3.7	28
41	Freshwater Microplastics: Challenges for Regulation and Management. Handbook of Environmental Chemistry, 2018, , 239-272.	0.4	28
42	DanToxâ€"a novel joint research project using zebrafish (Danio rerio) to identify specific toxicity and molecular modes of action of sediment-bound pollutants. Journal of Soils and Sediments, 2010, 10, 714-717.	3.0	26
43	Understanding Receptor-Mediated Effects in Rainbow Trout: In Vitroâ€“in Vivo Extrapolation Using Physiologically Based Toxicokinetic Models. Environmental Science & Technology, 2014, 48, 3303-3309.	10.0	25
44	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.	2.2	24
45	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.	5.4	22
46	Roles of human sulfotransferases in genotoxicity of carcinogens using genetically engineered umu test strains. Environmental and Molecular Mutagenesis, 2012, 53, 152-164.	2.2	21
47	Integrated biologicalâ€"chemical approach for the isolation and selection of polyaromatic mutagens in surface waters. Analytical and Bioanalytical Chemistry, 2013, 405, 9101-9112.	3.7	21
48	Microplastic in Water and Sediments at the Confluence of the Elbe and Mulde Rivers in Germany. Frontiers in Environmental Science, 2021, 9, .	3.3	21
49	Towards science-based sediment quality standardsâ€"Effects of field-collected sediments in rainbow trout (Oncorhynchus mykiss). Aquatic Toxicology, 2015, 166, 50-62.	4.0	20
50	Molecular Composition of Glutamine Synthetase of Sinapis alba L.. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1988, 43, 194-198.	1.4	19
51	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.	8.0	19
52	Increase of sensitivity and validity of the SOS/umu-test after replacement of the Î²-galactosidase reporter gene with luciferase. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 1997, 394, 9-16.	1.7	18
53	Further development of the Î²-lactamase MutaGen assay and evaluation by comparison with Ames fluctuation tests and theumu test. Environmental and Molecular Mutagenesis, 2005, 46, 126-139.	2.2	17
54	Integral assessment of estrogenic potentials of sediment-associated samples. Environmental Science and Pollution Research, 2008, 15, 75-83.	5.3	17

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55	Evaluation of chrono-amperometric signal detection for the analysis of genotoxicity by a whole cell biosensor. Analytica Chimica Acta, 2010, 659, 122-128.	5.4	16
56	Integral assessment of estrogenic potentials in sediment-associated samples. Environmental Science and Pollution Research, 2009, 16, 54-64.	5.3	14
57	Estrogenic effects along the river saale. Environmental Toxicology and Chemistry, 2013, 32, 526-534.	4.3	14
58	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.	5.5	13
59	Coupling High-Performance Thin-Layer Chromatography with Bacterial Genotoxicity Bioreporters. Environmental Science & Technology, 2019, 53, 6410-6419.	10.0	13
60	Pitfalls and Limitations in Microplastic Analyses. Handbook of Environmental Chemistry, 2020, , 13-42.	0.4	13
61	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.	10.0	12
62	Yeast-Based Fluorescent Sensors for the Simultaneous Detection of Estrogenic and Androgenic Compounds, Coupled with High-Performance Thin Layer Chromatography. Biosensors, 2020, 10, 169.	4.7	12
63	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.	6.0	12
64	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.	5.3	11
65	Cell-Based Genotoxicity Testing. , 2009, 118, 85-111.		10
66	Mutagenicity test system based on a reporter gene assay for short-term detection of mutagens (MutaGen assay). Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2003, 535, 55-72.	1.7	8
67	Transcriptional changes measured in rice roots after exposure to arsenite-contaminated sediments. Environmental Science and Pollution Research, 2018, 25, 2707-2717.	5.3	8
68	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.	3.0	7
69	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.	5.3	7
70	Plastics in aquatic environments â€“ Results of an international survey. Fundamental and Applied Limnology, 2020, 194, 67-76.	0.7	7
71	SOS gene induction and possible mutagenic effects of freeze-drying in Escherichia coli and Salmonella typhimurium. Applied Microbiology and Biotechnology, 2016, 100, 9255-9264.	3.6	6
72	Genotoxicity and Mutagenicity of Suspended Particulate Matter of River Water and Waste Water Samples. Scientific World Journal, The, 2002, 2, 1036-1039.	2.1	5

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73	Development of a sediment-contact test with rice for the assessment of sediment-bound pollutants. Environmental Science and Pollution Research, 2015, 22, 12664-12675.	5.3	4
74	Combined sediment desorption and bioconcentration model to predict levels of dioxin-like chemicals in fish. Science of the Total Environment, 2021, 758, 143891.	8.0	4
75	Development of a freeze-drying protocol for the long-term storage of S9-fraction at ambient temperatures. Cryobiology, 2009, 58, 139-144.	0.7	3
76	Validation of the micro-EROD assay with H4IIE cells for assessing sediment contamination with dioxin-like chemicals. Environmental Pollution, 2020, 265, 114984.	7.5	3
77	A Novel Microfluidic Whole Cell Biosensor Based on Electrochemical Detection for Water Toxicity Analysis. ECS Transactions, 2009, 16, 187-197.	0.5	2
78	The 2015 Annual Meeting of SETAC German Language Branch in Zurich (7â€“10 September, 2015): Ecotoxicology and environmental chemistryâ€”from research to application. Environmental Sciences Europe, 2016, 28, 20.	5.5	1