Martin G J LÃ¶der

List of Publications by Year
in descending order

28	4,270	430442 18	552369 26
papers	citations	h-index	g-index

28	28	28	3432
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification of microplastic in effluents of waste water treatment plants using focal plane array-based micro-Fourier-transform infrared imaging. Water Research, 2017, 108, 365-372.	5.3	1,002
2	Organic fertilizer as a vehicle for the entry of microplastic into the environment. Science Advances, 2018, 4, eaap8060.	4.7	617
3	Identification and quantification of macro- and microplastics on an agricultural farmland. Scientific Reports, 2018, 8, 17950.	1.6	470
4	Enzymatic Purification of Microplastics in Environmental Samples. Environmental Science & Technology, 2017, 51, 14283-14292.	4.6	338
5	Finding Microplastics in Soils: A Review of Analytical Methods. Environmental Science & Technology, 2020, 54, 2078-2090.	4.6	288
6	Methodology Used for the Detection and Identification of Microplasticsâ€"A Critical Appraisal. , 2015, , 201-227.		278
7	Identification of microplastics by FTIR and Raman microscopy: a novel silicon filter substrate opens the important spectral range below 1300Âcmâ^'1 for FTIR transmission measurements. Analytical and Bioanalytical Chemistry, 2015, 407, 6791-6801.	1.9	215
8	Spatial distribution of microplastics in sediments and surface waters of the southern North Sea. Environmental Pollution, 2019, 252, 1719-1729.	3.7	190
9	Effects of microplastic particles and leaching additive on the life history and morphology of Daphnia magna. Environmental Pollution, 2019, 255, 113233.	3.7	138
10	Occurence of microplastics in the hyporheic zone of rivers. Scientific Reports, 2019, 9, 15256.	1.6	136
11	Reconstructing the Environmental Degradation of Polystyrene by Accelerated Weathering. Environmental Science & Technology, 2021, 55, 7930-7938.	4.6	94
12	A methodology for the fast identification and monitoring of microplastics in environmental samples using random decision forest classifiers. Analytical Methods, 2019, 11, 2277-2285.	1.3	83
13	Analysis of microplastics of a broad size range in commercially important mussels by combining FTIR and Raman spectroscopy approaches. Environmental Pollution, 2021, 269, 116147.	3.7	64
14	Tackling the Challenge of Extracting Microplastics from Soils: A Protocol to Purify Soil Samples for Spectroscopic Analysis. Environmental Toxicology and Chemistry, 2022, 41, 844-857.	2.2	49
15	Airborne microplastic concentrations and deposition across the Weser River catchment. Science of the Total Environment, 2022, 818, 151812.	3.9	47
16	Computer-Assisted Analysis of Microplastics in Environmental Samples Based on Î¼FTIR Imaging in Combination with Machine Learning. Environmental Science and Technology Letters, 2022, 9, 90-95.	3.9	41
17	Microplastic sample purification methods - Assessing detrimental effects of purification procedures on specific plastic types. Science of the Total Environment, 2022, 833, 154824.	3.9	33
18	Structural Diversity in Early-Stage Biofilm Formation on Microplastics Depends on Environmental Medium and Polymer Properties. Water (Switzerland), 2020, 12, 3216.	1.2	29

#	Article	IF	Citations
19	Microplastic Contamination in Freshwater Systems: Methodological Challenges, Occurrence and Sources. , 2018, , 51-93.		23
20	Low CO2 Sensitivity of Microzooplankton Communities in the Gullmar Fjord, Skagerrak: Evidence from a Long-Term Mesocosm Study. PLoS ONE, 2016, 11, e0165800.	1.1	20
21	Flooding frequency and floodplain topography determine abundance of microplastics in an alluvial Rhine soil. Science of the Total Environment, 2022, 836, 155141.	3.9	19
22	Municipal biowaste treatment plants contribute to the contamination of the environment with residues of biodegradable plastics with putative higher persistence potential. Scientific Reports, 2022, 12, .	1.6	18
23	Microplastic contamination of the drilling bivalve Hiatella arctica in Arctic rhodolith beds. Scientific Reports, 2021, 11, 14574.	1.6	16
24	Tracing the horizontal transport of microplastics on rough surfaces. Microplastics and Nanoplastics, 2021, 1, .	4.1	16
25	From sieve to microscope: An efficient technique for sample transfer in the process of microplasticsâ€™ quantification. MethodsX, 2021, 8, 101341.	0.7	15
26	Pitfalls and Limitations in Microplastic Analyses. Handbook of Environmental Chemistry, 2020, , 13-42.	0.2	13
27	In situ Prokaryotic and Eukaryotic Communities on Microplastic Particles in a Small Headwater Stream in Germany. Frontiers in Microbiology, 2021, 12, 660024.	1.5	12
28	Classification of target tissues of Eisenia fetida using sequential multimodal chemical analysis and machine learning. Histochemistry and Cell Biology, 2022, 157, 127-137.	0.8	6