

Sebastian Primpke

List of Publications by Citations

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Version: 2024-04-26

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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.

41
papers

4,126
citations

22
h-index

43
g-index

43
ext. papers

5,710
ext. citations

7.4
avg, IF

6.3
L-index

#	Paper	IF	Citations
41	Identification of microplastic in effluents of waste water treatment plants using focal plane array-based micro-Fourier-transform infrared imaging. <i>Water Research</i> , 2017 , 108, 365-372	12.5	652
40	White and wonderful? Microplastics prevail in snow from the Alps to the Arctic. <i>Science Advances</i> , 2019 , 5, eaax1157	14.3	440
39	High Quantities of Microplastic in Arctic Deep-Sea Sediments from the HAUSGARTEN Observatory. <i>Environmental Science & Technology</i> , 2017 , 51, 11000-11010	10.3	434
38	Arctic sea ice is an important temporal sink and means of transport for microplastic. <i>Nature Communications</i> , 2018 , 9, 1505	17.4	431
37	Low numbers of microplastics detected in drinking water from ground water sources. <i>Science of the Total Environment</i> , 2019 , 648, 631-635	10.2	324
36	Enzymatic Purification of Microplastics in Environmental Samples. <i>Environmental Science & Technology</i> , 2017 , 51, 14283-14292	10.3	225
35	An automated approach for microplastics analysis using focal plane array (FPA) FTIR microscopy and image analysis. <i>Analytical Methods</i> , 2017 , 9, 1499-1511	3.2	224
34	Reference database design for the automated analysis of microplastic samples based on Fourier transform infrared (FTIR) spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 5131-5141	4.4	159
33	Comparison of Raman and Fourier Transform Infrared Spectroscopy for the Quantification of Microplastics in the Aquatic Environment. <i>Environmental Science & Technology</i> , 2018 , 52, 13279-13288	10.3	143
32	Spatial distribution of microplastics in sediments and surface waters of the southern North Sea. <i>Environmental Pollution</i> , 2019 , 252, 1719-1729	9.3	121
31	Critical Assessment of Analytical Methods for the Harmonized and Cost-Efficient Analysis of Microplastics. <i>Applied Spectroscopy</i> , 2020 , 74, 1012-1047	3.1	97
30	Tying up Loose Ends of Microplastic Pollution in the Arctic: Distribution from the Sea Surface through the Water Column to Deep-Sea Sediments at the HAUSGARTEN Observatory. <i>Environmental Science & Technology</i> , 2020 , 54, 4079-4090	10.3	91
29	Microplastic Pollution in Benthic Midstream Sediments of the Rhine River. <i>Environmental Science & Technology</i> , 2019 , 53, 6053-6062	10.3	90
28	Different stories told by small and large microplastics in sediment - first report of microplastic concentrations in an urban recipient in Norway. <i>Marine Pollution Bulletin</i> , 2019 , 141, 501-513	6.7	83
27	Reporting Guidelines to Increase the Reproducibility and Comparability of Research on Microplastics. <i>Applied Spectroscopy</i> , 2020 , 74, 1066-1077	3.1	77
26	Automated identification and quantification of microfibrils and microplastics. <i>Analytical Methods</i> , 2019 , 11, 2138-2147	3.2	66
25	A systems approach to understand microplastic occurrence and variability in Dutch riverine surface waters. <i>Water Research</i> , 2020 , 176, 115723	12.5	66

24	Toward the Systematic Identification of Microplastics in the Environment: Evaluation of a New Independent Software Tool (siMPle) for Spectroscopic Analysis. <i>Applied Spectroscopy</i> , 2020 , 74, 1127-1138	3.1	62
23	Critical Review of Processing and Classification Techniques for Images and Spectra in Microplastic Research. <i>Applied Spectroscopy</i> , 2020 , 74, 989-1010	3.1	57
22	Comparison of pyrolysis gas chromatography/mass spectrometry and hyperspectral FTIR imaging spectroscopy for the analysis of microplastics. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 8283-8298	4.4	44
21	Microplastic Spectral Classification Needs an Open Source Community: Open Specy to the Rescue!. <i>Analytical Chemistry</i> , 2021 , 93, 7543-7548	7.8	40
20	Library based identification and characterisation of polymers with nano-FTIR and IR-sSNOM imaging. <i>Analytical Methods</i> , 2019 , 11, 5195-5202	3.2	32
19	Bacterial biofilms colonizing plastics in estuarine waters, with an emphasis on <i>Vibrio</i> spp. and their antibacterial resistance. <i>PLoS ONE</i> , 2020 , 15, e0237704	3.7	22
18	Systematic identification of microplastics in abyssal and hadal sediments of the Kuril Kamchatka trench. <i>Environmental Pollution</i> , 2021 , 269, 116095	9.3	22
17	Flexible Microdomain Specific Staining of Block Copolymers for 3D Optical Nanoscopy. <i>Macromolecules</i> , 2011 , 44, 7508-7510	5.5	20
16	Mikroplastik in der Umwelt. <i>Chemie in Unserer Zeit</i> , 2017 , 51, 402-412	0.2	17
15	Diffusion of single molecular and macromolecular probes during the free radical bulk polymerization of MMA ¶owards a better understanding of the Trommsdorff effect on a molecular level. <i>Polymer Chemistry</i> , 2016 , 7, 4100-4105	4.9	16
14	Rapid Identification and Quantification of Microplastics in the Environment by Quantum Cascade Laser-Based Hyperspectral Infrared Chemical Imaging. <i>Environmental Science & Technology</i> , 2020 , 54, 15893-15903	10.3	16
13	Characterizing the multidimensionality of microplastics across environmental compartments. <i>Water Research</i> , 2021 , 202, 117429	12.5	11
12	Vast Quantities of Microplastics in Arctic Sea Ice¶ Prime Temporary Sink for Plastic Litter and a Medium of Transport 2017 , 75-76		9
11	Microplastic pollution in the Weser estuary and the German North Sea. <i>Environmental Pollution</i> , 2021 , 288, 117681	9.3	8
10	Microplastics in the Weddell Sea (Antarctica): A Forensic Approach for Discrimination between Environmental and Vessel-Induced Microplastics. <i>Environmental Science & Technology</i> , 2021 , 55, 15900-15911	10.3	6
9	Comparison and uncertainty evaluation of two centrifugal separators for microplastic sampling. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125482	12.8	6
8	Mikroplastik in Binnengewässern 2017 , 1-35		3
7	Modeling of Catalyzed Chain Growth (CCG) Polymerization of Styrene-d8 using Cp*2ZrCl2 and Dibenzylmagnesium. <i>Macromolecular Theory and Simulations</i> , 2015 , 24, 232-247	1.5	3

6	7-Azacinnolin-4(1H)-one preparation and NMR studies of tautomerism. <i>Journal of Heterocyclic Chemistry</i> , 2011 , 48, 737-741	1.9	3
5	Paraffin and other petroleum waxes in the southern North Sea. <i>Marine Pollution Bulletin</i> , 2021 , 162, 111807	1.9	3
4	A Kinetic Investigation of the Initialization of Catalyzed Chain Growth of Styrene: The Reaction of Cp*2ZrCl2 with Dibenzylmagnesium. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 544-554	2.6	1
3	Microplastics in two German wastewater treatment plants: Year-long effluent analysis with FTIR and Py-GC/MS.. <i>Science of the Total Environment</i> , 2021 , 817, 152619	10.2	1
2	Human footprints at hadal depths: interlayer and intralayer comparison of sediment cores from the Kuril Kamchatka trench. <i>Science of the Total Environment</i> , 2022 , 838, 156035	10.2	0
1	Automated Analysis of μ FTIR Imaging Data for Microplastic Samples 2017 , 90-91		