

# Sebastian Primpke

## List of Publications by Year in Descending Order

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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	Human footprints at hadal depths: interlayer and intralayer comparison of sediment cores from the Kuril Kamchatka trench. <i>Science of the Total Environment</i> , <b>2022</b> , 838, 156035	10.2	0
40	Microplastics in two German wastewater treatment plants: Year-long effluent analysis with FTIR and Py-GC/MS.. <i>Science of the Total Environment</i> , <b>2021</b> , 817, 152619	10.2	1
39	Microplastics in the Weddell Sea (Antarctica): A Forensic Approach for Discrimination between Environmental and Vessel-Induced Microplastics. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 15900-15911	10.3	6
38	Microplastic Spectral Classification Needs an Open Source Community: Open Specy to the Rescue!. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 7543-7548	7.8	40
37	Paraffin and other petroleum waxes in the southern North Sea. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 162, 111807	10.7	3
36	Systematic identification of microplastics in abyssal and hadal sediments of the Kuril Kamchatka trench. <i>Environmental Pollution</i> , <b>2021</b> , 269, 116095	9.3	22
35	Comparison and uncertainty evaluation of two centrifugal separators for microplastic sampling. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 414, 125482	12.8	6
34	Characterizing the multidimensionality of microplastics across environmental compartments. <i>Water Research</i> , <b>2021</b> , 202, 117429	12.5	11
33	Microplastic pollution in the Weser estuary and the German North Sea. <i>Environmental Pollution</i> , <b>2021</b> , 288, 117681	9.3	8
32	Reporting Guidelines to Increase the Reproducibility and Comparability of Research on Microplastics. <i>Applied Spectroscopy</i> , <b>2020</b> , 74, 1066-1077	3.1	77
31	Critical Review of Processing and Classification Techniques for Images and Spectra in Microplastic Research. <i>Applied Spectroscopy</i> , <b>2020</b> , 74, 989-1010	3.1	57
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 &amp; Technology</i> , <b>2020</b> , 54, 4079-4090	10.3	91
29	A systems approach to understand microplastic occurrence and variability in Dutch riverine surface waters. <i>Water Research</i> , <b>2020</b> , 176, 115723	12.5	66
28	Toward the Systematic Identification of Microplastics in the Environment: Evaluation of a New Independent Software Tool (siMPle) for Spectroscopic Analysis. <i>Applied Spectroscopy</i> , <b>2020</b> , 74, 1127-1138	3.1	62
27	Critical Assessment of Analytical Methods for the Harmonized and Cost-Efficient Analysis of Microplastics. <i>Applied Spectroscopy</i> , <b>2020</b> , 74, 1012-1047	3.1	97
26	Rapid Identification and Quantification of Microplastics in the Environment by Quantum Cascade Laser-Based Hyperspectral Infrared Chemical Imaging. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 15893-15903	10.3	16
25	Comparison of pyrolysis gas chromatography/mass spectrometry and hyperspectral FTIR imaging spectroscopy for the analysis of microplastics. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 8283-8298	10.4	44

24	Bacterial biofilms colonizing plastics in estuarine waters, with an emphasis on <i>Vibrio</i> spp. and their antibacterial resistance. <i>PLoS ONE</i> , <b>2020</b> , 15, e0237704	3.7	22
23	Spatial distribution of microplastics in sediments and surface waters of the southern North Sea. <i>Environmental Pollution</i> , <b>2019</b> , 252, 1719-1729	9.3	121
22	Microplastic Pollution in Benthic Midstream Sediments of the Rhine River. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 6053-6062	10.3	90
21	Automated identification and quantification of microfibrils and microplastics. <i>Analytical Methods</i> , <b>2019</b> , 11, 2138-2147	3.2	66
20	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> , <b>2019</b> , 141, 501-513	6.7	83
19	Low numbers of microplastics detected in drinking water from ground water sources. <i>Science of the Total Environment</i> , <b>2019</b> , 648, 631-635	10.2	324
18	White and wonderful? Microplastics prevail in snow from the Alps to the Arctic. <i>Science Advances</i> , <b>2019</b> , 5, eaax1157	14.3	440
17	Library based identification and characterisation of polymers with nano-FTIR and IR-sSNOM imaging. <i>Analytical Methods</i> , <b>2019</b> , 11, 5195-5202	3.2	32
16	Arctic sea ice is an important temporal sink and means of transport for microplastic. <i>Nature Communications</i> , <b>2018</b> , 9, 1505	17.4	431
15	Reference database design for the automated analysis of microplastic samples based on Fourier transform infrared (FTIR) spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 5131-5141	4.4	159
14	Comparison of Raman and Fourier Transform Infrared Spectroscopy for the Quantification of Microplastics in the Aquatic Environment. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 13279-13288	10.3	143
13	An automated approach for microplastics analysis using focal plane array (FPA) FTIR microscopy and image analysis. <i>Analytical Methods</i> , <b>2017</b> , 9, 1499-1511	3.2	224
12	Automated Analysis of $\mu$ FTIR Imaging Data for Microplastic Samples <b>2017</b> , 90-91		
11	High Quantities of Microplastic in Arctic Deep-Sea Sediments from the HAUSGARTEN Observatory. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 11000-11010	10.3	434
10	Vast Quantities of Microplastics in Arctic Sea Ice: A Prime Temporary Sink for Plastic Litter and a Medium of Transport <b>2017</b> , 75-76		9
9	Enzymatic Purification of Microplastics in Environmental Samples. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 14283-14292	10.3	225
8	Identification of microplastic in effluents of waste water treatment plants using focal plane array-based micro-Fourier-transform infrared imaging. <i>Water Research</i> , <b>2017</b> , 108, 365-372	12.5	652
7	Mikroplastik in der Umwelt. <i>Chemie in Unserer Zeit</i> , <b>2017</b> , 51, 402-412	0.2	17

6	Mikroplastik in Binnengewässern <b>2017</b> , 1-35		3
5	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> , <b>2016</b> , 7, 4100-4105	4.9	16
4	Modeling of Catalyzed Chain Growth (CCG) Polymerization of Styrene-d8 using Cp*2ZrCl2 and Dibenzylmagnesium. <i>Macromolecular Theory and Simulations</i> , <b>2015</b> , 24, 232-247	1.5	3
3	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> , <b>2014</b> , 215, 544-554	2.6	1
2	7-Azacinnolin-4(1H)-one preparation and NMR studies of tautomerism. <i>Journal of Heterocyclic Chemistry</i> , <b>2011</b> , 48, 737-741	1.9	3
1	Flexible Microdomain Specific Staining of Block Copolymers for 3D Optical Nanoscopy. <i>Macromolecules</i> , <b>2011</b> , 44, 7508-7510	5.5	20