

# Ulrike Braun

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

3,433  
citations

279487

23  
h-index

315357

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

2716  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flame retardancy mechanisms of aluminium phosphinate in combination with melamine polyphosphate and zinc borate in glass-fibre reinforced polyamide 6,6. <i>Polymer Degradation and Stability</i> , 2007, 92, 1528-1545.	2.7	454
2	Fast identification of microplastics in complex environmental samples by a thermal degradation method. <i>Chemosphere</i> , 2017, 174, 572-584.	4.2	421
3	Analysis of polyethylene microplastics in environmental samples, using a thermal decomposition method. <i>Water Research</i> , 2015, 85, 451-457.	5.3	323
4	Comparison of different methods for MP detection: What can we learn from them, and why asking the right question before measurements matters?. <i>Environmental Pollution</i> , 2017, 231, 1256-1264.	3.7	254
5	The effect of polymer aging on the uptake of fuel aromatics and ethers by microplastics. <i>Environmental Pollution</i> , 2018, 240, 639-646.	3.7	203
6	Flame Retardancy Mechanisms of Aluminium Phosphinate in Combination with Melamine Cyanurate in Glass-Fibre-Reinforced Poly(1,4-butylene terephthalate). <i>Macromolecular Materials and Engineering</i> , 2008, 293, 206-217.	1.7	198
7	Flame Retardant Mechanisms of Red Phosphorus and Magnesium Hydroxide in High Impact Polystyrene. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 2185-2196.	1.1	185
8	Flame retardancy mechanisms of metal phosphinates and metal phosphinates in combination with melamine cyanurate in glass-fiber reinforced poly(1,4-butylene terephthalate): the influence of metal cation. <i>Polymers for Advanced Technologies</i> , 2008, 19, 680-692.	1.6	171
9	Two Birds with One Stone – Fast and Simultaneous Analysis of Microplastics: Microparticles Derived from Thermoplastics and Tire Wear. <i>Environmental Science and Technology Letters</i> , 2018, 5, 608-613.	3.9	165
10	Tire and road wear particles in road environment – Quantification and assessment of particle dynamics by Zn determination after density separation. <i>Chemosphere</i> , 2019, 222, 714-721.	4.2	149
11	High-throughput NIR spectroscopic (NIRS) detection of microplastics in soil. <i>Environmental Science and Pollution Research</i> , 2019, 26, 7364-7374.	2.7	101
12	Effect of Red Phosphorus and Melamine Polyphosphate on the Fire Behavior of HIPS. <i>Journal of Fire Sciences</i> , 2005, 23, 5-30.	0.9	74
13	Characterization of tire and road wear particles from road runoff indicates highly dynamic particle properties. <i>Water Research</i> , 2020, 185, 116262.	5.3	68
14	Development and testing of a fractionated filtration for sampling of microplastics in water. <i>Water Research</i> , 2019, 149, 650-658.	5.3	65
15	Residue Stabilization in the Fire Retardancy of Wood-Plastic Composites: Combination of Ammonium Polyphosphate, Expandable Graphite, and Red Phosphorus. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 2370-2377.	1.1	64
16	Polyurethane versus silicone catheters for central venous port devices implanted at the forearm. <i>European Journal of Cancer</i> , 2016, 59, 113-124.	1.3	62
17	Quantification of microplastics in a freshwater suspended organic matter using different thermoanalytical methods – outcome of an interlaboratory comparison. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 148, 104829.	2.6	57
18	Polyglycerol coated polypropylene surfaces for protein and bacteria resistance. <i>Polymer Chemistry</i> , 2015, 6, 1350-1359.	1.9	45

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19	A New Flame Retardant for Wood Materials Tested in Wood-Plastic Composites. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 814-820.	1.7	43
20	Mechanic and surface properties of central-venous port catheters after removal: A comparison of polyurethane and silicon rubber materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 64, 281-291.	1.5	38
21	Exploratory analysis of hyperspectral FTIR data obtained from environmental microplastics samples. <i>Analytical Methods</i> , 2020, 12, 781-791.	1.3	38
22	Microplastic analysis using chemical extraction followed by LC-UV analysis: a straightforward approach to determine PET content in environmental samples. <i>Environmental Sciences Europe</i> , 2020, 32, .	2.6	33
23	Determination of tire wear markers in soil samples and their distribution in a roadside soil. <i>Chemosphere</i> , 2022, 294, 133653.	4.2	30
24	Comprehensive Characterization of APTES Surface Modifications of Hydrous Boehmite Nanoparticles. <i>Langmuir</i> , 2021, 37, 171-179.	1.6	25
25	Flame retardancy of glass fiber reinforced high temperature polyamide by use of aluminum diethylphosphinate: thermal and thermo-oxidative effects. <i>Polymer International</i> , 2013, 62, n/a-n/a.	1.6	20
26	Cure conversion of structural epoxies by cure state analysis and in situ cure kinetics using nondestructive NIR spectroscopy. <i>Thermochimica Acta</i> , 2017, 650, 8-17.	1.2	20
27	Microplastics in the Danube River Basin: A First Comprehensive Screening with a Harmonized Analytical Approach. <i>ACS ES&amp;T Water</i> , 2022, 2, 1174-1181.	2.3	20
28	Quantification and characterisation of activated carbon in activated sludge by thermogravimetric and evolved gas analyses. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 2222-2231.	3.3	16
29	Burning behavior of wood-plastic composite decking boards in end-use conditions: the effects of geometry, material composition, and moisture. <i>Journal of Fire Sciences</i> , 2012, 30, 41-54.	0.9	15
30	Cure monitoring of epoxy films by heatable <i>in situ</i> FTIR analysis: correlation to composite parts. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	12
31	Different aspects of the accelerated oxidation of polypropylene at increased pressure in an autoclave with regard to temperature, pretreatment and exposure media. <i>Polymer Testing</i> , 2014, 37, 102-111.	2.3	11
32	Specific adsorption sites and conditions derived by thermal decomposition of activated carbons and adsorbed carbamazepine. <i>Scientific Reports</i> , 2020, 10, 6695.	1.6	11
33	Smart filters for the analysis of microplastic in beverages filled in plastic bottles. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2021, 38, 691-700.	1.1	9
34	Investigation of the Durability of Poly(Ether Urethane) in Water and Air. <i>International Journal of Artificial Organs</i> , 2011, 34, 129-133.	0.7	8
35	Sulphurous additives for polystyrene: Influencing decomposition behavior in the condensed phase. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	8
36	Development of a Routine Screening Method for the Microplastic Mass Content in a Wastewater Treatment Plant Effluent. <i>Frontiers in Environmental Chemistry</i> , 2022, 3, .	0.7	8

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37	Boehmite Nanofillers in Epoxy Oligosiloxane Resins: Influencing the Curing Process by Complex Physical and Chemical Interactions. <i>Materials</i> , 2019, 12, 1513.	1.3	6
38	The impact of water released from boehmite nanoparticles during curing in epoxy-based nanocomposites. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51006.	1.3	3
39	Macromol. Chem. Phys. 22/2012. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 2436-2436.	1.1	0