

Stephan Wagner

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

4,340
citations

218677

26
h-index

206112

48
g-index

54
all docs

54
docs citations

54
times ranked

5149
citing authors

#	ARTICLE	IF	CITATIONS
1	Export of Plastic Debris by Rivers into the Sea. <i>Environmental Science & Technology</i> , 2017, 51, 12246-12253.	10.0	881
2	Nanoparticles in the environment: where do we come from, where do we go to?. <i>Environmental Sciences Europe</i> , 2018, 30, 6.	5.5	595
3	Tire wear particles in the aquatic environment - A review on generation, analysis, occurrence, fate and effects. <i>Water Research</i> , 2018, 139, 83-100.	11.3	506
4	Release of TiO ₂ Nanoparticles from Sunscreens into Surface Waters: A One-Year Survey at the Old Danube Recreational Lake. <i>Environmental Science & Technology</i> , 2014, 48, 5415-5422.	10.0	344
5	Spot the Difference: Engineered and Natural Nanoparticles in the Environment—Release, Behavior, and Fate. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12398-12419.	13.8	210
6	Detection and characterization of silver nanoparticles in chicken meat by asymmetric flow field flow fractionation with detection by conventional or single particle ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 8185-8195.	3.7	178
7	Things we know and don't know about nanoplastic in the environment. <i>Nature Nanotechnology</i> , 2019, 14, 300-301.	31.5	172
8	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.	8.2	149
9	Microplastic Exposure Assessment in Aquatic Environments: Learning from Similarities and Differences to Engineered Nanoparticles. <i>Environmental Science & Technology</i> , 2017, 51, 2499-2507.	10.0	146
10	Optimization and evaluation of asymmetric flow field-flow fractionation of silver nanoparticles. <i>Journal of Chromatography A</i> , 2013, 1272, 116-125.	3.7	84
11	Relationship between Discharge and River Plastic Concentrations in a Rural and an Urban Catchment. <i>Environmental Science & Technology</i> , 2019, 53, 10082-10091.	10.0	82
12	Comprehensive characterization of tire and road wear particles in highway tunnel road dust by use of size and density fractionation. <i>Chemosphere</i> , 2021, 279, 130530.	8.2	77
13	Characterization of tire and road wear particles from road runoff indicates highly dynamic particle properties. <i>Water Research</i> , 2020, 185, 116262.	11.3	68
14	First steps towards a generic sample preparation scheme for inorganic engineered nanoparticles in a complex matrix for detection, characterization, and quantification by asymmetric flow-field flow fractionation coupled to multi-angle light scattering and ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1286-1296.	3.0	66
15	Sorption of organic substances to tire wear materials: Similarities and differences with other types of microplastic. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 113, 392-401.	11.4	65
16	Source-related smart suspect screening in the aqueous environment: search for tire-derived persistent and mobile trace organic contaminants in surface waters. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4909-4919.	3.7	62
17	Aging of tire and road wear particles in terrestrial and freshwater environments – A review on processes, testing, analysis and impact. <i>Chemosphere</i> , 2022, 288, 132467.	8.2	55
18	Organic Markers of Tire and Road Wear Particles in Sediments and Soils: Transformation Products of Major Antiozonants as Promising Candidates. <i>Environmental Science & Technology</i> , 2021, 55, 11723-11732.	10.0	50

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19	Conditioning Film and Early Biofilm Succession on Plastic Surfaces. <i>Environmental Science & Technology</i> , 2021, 55, 11006-11018.	10.0	45
20	Characterization of Individual Tire and Road Wear Particles in Environmental Road Dust, Tunnel Dust, and Sediment. <i>Environmental Science and Technology Letters</i> , 2021, 8, 1057-1064.	8.7	39
21	Silver and gold nanoparticle separation using asymmetrical flow-field flow fractionation: Influence of run conditions and of particle and membrane charges. <i>Journal of Chromatography A</i> , 2016, 1440, 150-159.	3.7	38
22	Production of reference materials for the detection and size determination of silica nanoparticles in tomato soup. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3895-907.	3.7	36
23	Feasibility of the development of reference materials for the detection of Ag nanoparticles in food: neat dispersions and spiked chicken meat. <i>Accreditation and Quality Assurance</i> , 2015, 20, 3-16.	0.8	33
24	Yolk Sac of Zebrafish Embryos as Backpack for Chemicals?. <i>Environmental Science & Technology</i> , 2020, 54, 10159-10169.	10.0	33
25	Agar agar-stabilized milled zerovalent iron particles for in situ groundwater remediation. <i>Science of the Total Environment</i> , 2016, 563-564, 713-723.	8.0	29
26	Physicochemical characterization of titanium dioxide pigments using various techniques for size determination and asymmetric flow field flow fractionation hyphenated with inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6679-6691.	3.7	29
27	Identification of nanoparticles and their localization in algal biofilm by 3D-imaging secondary ion mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1098-1108.	3.0	22
28	The diverse metal composition of plastic items and its implications. <i>Science of the Total Environment</i> , 2021, 764, 142870.	8.0	22
29	Accurate quantification of TiO ₂ nanoparticles in commercial sunscreens using standard materials and orthogonal particle sizing methods for verification. <i>Talanta</i> , 2020, 215, 120921.	5.5	21
30	Effect of field site hydrogeochemical conditions on the corrosion of milled zerovalent iron particles and their dechlorination efficiency. <i>Science of the Total Environment</i> , 2018, 618, 1619-1627.	8.0	20
31	A Large-Scale 3D Study on Transport of Humic Acid-Coated Goethite Nanoparticles for Aquifer Remediation. <i>Water (Switzerland)</i> , 2020, 12, 1207.	2.7	20
32	Elemental imaging (LA-ICP-MS) of zebrafish embryos to study the toxicokinetics of the acetylcholinesterase inhibitor naled. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 617-627.	3.7	16
33	A uniform measurement expression for cross method comparison of nanoparticle aggregate size distributions. <i>Analyst, The</i> , 2015, 140, 5257-5267.	3.5	14
34	Long term performance of an AMD treatment bioreactor using chemolithoautotrophic sulfate reduction and ferrous iron precipitation under in situ groundwater conditions. <i>Bioresource Technology</i> , 2012, 104, 221-227.	9.6	13
35	Surfactant assisted extraction of incidental nanoparticles from road runoff sediment and their characterization by single particle-ICP-MS. <i>Chemosphere</i> , 2020, 246, 125765.	8.2	13
36	Accumulation of germanium (Ge) in plant tissues of grasses is not solely driven by its incorporation in phytoliths. <i>Biogeochemistry</i> , 2020, 148, 49-68.	3.5	12

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37	An investigation into LA-spICP-ToF-MS uses for <i>in situ</i> measurement of environmental multi-elemental nanoparticles. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2107-2115.	3.0	12
38	Measurement of number concentrations and sizes of Au nano-particles spiked into soil by laser ablation single particle ICPMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1678-1686.	3.0	11
39	Machine learning: our future spotlight into single-particle ICP-ToF-MS analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2684-2694.	3.0	10
40	The impact of species, respiration type, growth phase and genetic inventory on absolute metal content of intact bacterial cells. <i>Metallomics</i> , 2019, 11, 925-935.	2.4	9
41	Determination of elemental distribution and evaluation of elemental concentration in single <i>Saccharomyces cerevisiae</i> cells using single cell-inductively coupled plasma mass spectrometry. <i>Metallomics</i> , 2021, 13, .	2.4	8
42	Intra-laboratory assessment of a method for the detection of TiO ₂ nanoparticles present in sunscreens based on multi-detector asymmetrical flow field-flow fractionation. <i>NanoImpact</i> , 2020, 19, 100233.	4.5	6
43	Direct analysis of fulvic acids adsorbed onto capped gold nanoparticles by laser desorption ionization Fourier-transform ion cyclotron resonance mass spectrometry. <i>Environmental Science: Nano</i> , 2021, 8, 2336-2346.	4.3	6
44	Testing In Situ Sulfate Reduction by H ₂ injection in a Bench-Scale Column Experiment. <i>Water, Air, and Soil Pollution</i> , 2009, 203, 109-122.	2.4	5
45	Characterization of membrane-bound metalloproteins in the anaerobic ammonium-oxidizing bacterium <i>Candidatus Kuenenia stuttgartiensis</i> strain CSTR1. <i>Talanta</i> , 2021, 223, 121711.	5.5	5
46	Exploring the potential of laser desorption ionisation time-of-flight mass spectrometry to analyse organic capping agents on inorganic nanoparticle surfaces. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5261-5271.	3.7	4
47	Effective processing and evaluation of chemical imaging data with respect to morphological features of the zebrafish embryo. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 1675-1687.	3.7	4
48	Challenges and current approaches toward environmental monitoring of nanomaterials. , 2021, , 73-108.		2
49	Surface cleaning and sample carrier for complementary high-resolution imaging techniques. <i>Biointerphases</i> , 2020, 15, 021005.	1.6	0
50	Zebrafish Oatp1d1 Acts as a Cellular Efflux Transporter of the Anionic Herbicide Bromoxynil. <i>Chemical Research in Toxicology</i> , 2022, , .	3.3	0