Stephan Wagner

List of Publications by Year
in descending order

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	Aging of tire and road wear particles in terrestrial and freshwater environments â€“ A review on processes, testing, analysis and impact. Chemosphere, 2022, 288, 132467.	8.2	55
2	Zebrafish Oatp1d1 Acts as a Cellular Efflux Transporter of the Anionic Herbicide Bromoxynil. Chemical Research in Toxicology, 2022, , .	3.3	0
3	Characterization of membrane-bound metalloproteins in the anaerobic ammonium-oxidizing bacterium â€œCandidatus Kuenenia stuttgartiensisâ€•strain CSTR1. Talanta, 2021, 223, 121711.	5.5	5
4	The diverse metal composition of plastic items and its implications. Science of the Total Environment, 2021, 764, 142870.	8.0	22
5	Direct analysis of fulvic acids adsorbed onto capped gold nanoparticles by laser desorption ionization Fourier-transform ion cyclotron resonance mass spectrometry. Environmental Science: Nano, 2021, 8, 2336-2346.	4.3	6
6	An investigation into LA-spICP-ToF-MS uses for <i>in situ</i> measurement of environmental multi-elemental nanoparticles. Journal of Analytical Atomic Spectrometry, 2021, 36, 2107-2115.	3.0	12
7	Effective processing and evaluation of chemical imaging data with respect to morphological features of the zebrafish embryo. Analytical and Bioanalytical Chemistry, 2021, 413, 1675-1687.	3.7	4
8	Determination of elemental distribution and evaluation of elemental concentration in single <i>Saccharomyces cerevisiae</i> cells using single cell-inductively coupled plasma mass spectrometry. Metallomics, 2021, 13, .	2.4	8
9	Organic Markers of Tire and Road Wear Particles in Sediments and Soils: Transformation Products of Major Antiozonants as Promising Candidates. Environmental Science & Technology, 2021, 55, 11723-11732.	10.0	50
10	Conditioning Film and Early Biofilm Succession on Plastic Surfaces. Environmental Science & Technology, 2021, 55, 11006-11018.	10.0	45
11	Comprehensive characterization of tire and road wear particles in highway tunnel road dust by use of size and density fractionation. Chemosphere, 2021, 279, 130530.	8.2	77
12	Challenges and current approaches toward environmental monitoring of nanomaterials. , 2021, , 73-108.		2
13	Machine learning: our future spotlight into single-particle ICP-ToF-MS analysis. Journal of Analytical Atomic Spectrometry, 2021, 36, 2684-2694.	3.0	10
14	Characterization of Individual Tire and Road Wear Particles in Environmental Road Dust, Tunnel Dust, and Sediment. Environmental Science and Technology Letters, 2021, 8, 1057-1064.	8.7	39
15	Surfactant assisted extraction of incidental nanoparticles from road runoff sediment and their characterization by single particle-ICP-MS. Chemosphere, 2020, 246, 125765.	8.2	13
16	Characterization of tire and road wear particles from road runoff indicates highly dynamic particle properties. Water Research, 2020, 185, 116262.	11.3	68
17	Measurement of number concentrations and sizes of Au nano-particles spiked into soil by laser ablation single particle ICPMS. Journal of Analytical Atomic Spectrometry, 2020, 35, 1678-1686.	3.0	11
18	Surface cleaning and sample carrier for complementary high-resolution imaging techniques. Biointerphases, 2020, 15, 021005.	1.6	0

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19	A Large-Scale 3D Study on Transport of Humic Acid-Coated Goethite Nanoparticles for Aquifer Remediation. Water (Switzerland), 2020, 12, 1207.	2.7	20
20	Intra-laboratory assessment of a method for the detection of TiO2 nanoparticles present in sunscreens based on multi-detector asymmetrical flow field-flow fractionation. NanoImpact, 2020, 19, 100233.	4.5	6
21	Exploring the potential of laser desorption ionisation time-of-flight mass spectrometry to analyse organic capping agents on inorganic nanoparticle surfaces. Analytical and Bioanalytical Chemistry, 2020, 412, 5261-5271.	3.7	4
22	Yolk Sac of Zebrafish Embryos as Backpack for Chemicals?. Environmental Science & Technology, 2020, 54, 10159-10169.	10.0	33
23	Source-related smart suspect screening in the aqueous environment: search for tire-derived persistent and mobile trace organic contaminants in surface waters. Analytical and Bioanalytical Chemistry, 2020, 412, 4909-4919.	3.7	62
24	Accumulation of germanium (Ge) in plant tissues of grasses is not solely driven by its incorporation in phytoliths. Biogeochemistry, 2020, 148, 49-68.	3.5	12
25	Accurate quantification of TiO2 nanoparticles in commercial sunscreens using standard materials and orthogonal particle sizing methods for verification. Talanta, 2020, 215, 120921.	5.5	21
26	Relationship between Discharge and River Plastic Concentrations in a Rural and an Urban Catchment. Environmental Science & Technology, 2019, 53, 10082-10091.	10.0	82
27	Tire and road wear particles in road environment â€" Quantification and assessment of particle dynamics by Zn determination after density separation. Chemosphere, 2019, 222, 714-721.	8.2	149
28	Identification of nanoparticles and their localization in algal biofilm by 3D-imaging secondary ion mass spectrometry. Journal of Analytical Atomic Spectrometry, 2019, 34, 1098-1108.	3.0	22
29	Things we know and donâ€™t know about nanoplastic in the environment. Nature Nanotechnology, 2019, 14, 300-301.	31.5	172
30	The impact of species, respiration type, growth phase and genetic inventory on absolute metal content of intact bacterial cells. Metallomics, 2019, 11, 925-935.	2.4	9
31	Elemental imaging (LA-ICP-MS) of zebrafish embryos to study the toxicokinetics of the acetylcholinesterase inhibitor naled. Analytical and Bioanalytical Chemistry, 2019, 411, 617-627.	3.7	16
32	Sorption of organic substances to tire wear materials: Similarities and differences with other types of microplastic. TrAC - Trends in Analytical Chemistry, 2019, 113, 392-401.	11.4	65
33	Nanoparticles in the environment: where do we come from, where do we go to?. Environmental Sciences Europe, 2018, 30, 6.	5.5	595
34	Tire wear particles in the aquatic environment - A review on generation, analysis, occurrence, fate and effects. Water Research, 2018, 139, 83-100.	11.3	506
35	Effect of field site hydrogeochemical conditions on the corrosion of milled zerovalent iron particles and their dechlorination efficiency. Science of the Total Environment, 2018, 618, 1619-1627.	8.0	20
36	Microplastic Exposure Assessment in Aquatic Environments: Learning from Similarities and Differences to Engineered Nanoparticles. Environmental Science & Technology, 2017, 51, 2499-2507.	10.0	146

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37	Export of Plastic Debris by Rivers into the Sea. Environmental Science & Technology, 2017, 51, 12246-12253.	10.0	881
38	Agar agar-stabilized milled zerovalent iron particles for in situ groundwater remediation. Science of the Total Environment, 2016, 563-564, 713-723.	8.0	29
39	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. Analytical and Bioanalytical Chemistry, 2016, 408, 6679-6691.	3.7	29
40	Silver and gold nanoparticle separation using asymmetrical flow-field flow fractionation: Influence of run conditions and of particle and membrane charges. Journal of Chromatography A, 2016, 1440, 150-159.	3.7	38
41	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. Journal of Analytical Atomic Spectrometry, 2015, 30, 1286-1296.	3.0	66
42	Feasibility of the development of reference materials for the detection of Ag nanoparticles in food: neat dispersions and spiked chicken meat. Accreditation and Quality Assurance, 2015, 20, 3-16.	0.8	33
43	A uniform measurement expression for cross method comparison of nanoparticle aggregate size distributions. Analyst, The, 2015, 140, 5257-5267.	3.5	14
44	Production of reference materials for the detection and size determination of silica nanoparticles in tomato soup. Analytical and Bioanalytical Chemistry, 2014, 406, 3895-907.	3.7	36
45	Spot the Difference: Engineered and Natural Nanoparticles in the Environmentâ€"Release, Behavior, and Fate. Angewandte Chemie - International Edition, 2014, 53, 12398-12419.	13.8	210
46	Release of TiO₂ Nanoparticles from Sunscreens into Surface Waters: A One-Year Survey at the Old Danube Recreational Lake. Environmental Science & Technology, 2014, 48, 5415-5422.	10.0	344
47	Detection and characterization of silver nanoparticles in chicken meat by asymmetric flow field flow fractionation with detection by conventional or single particle ICP-MS. Analytical and Bioanalytical Chemistry, 2013, 405, 8185-8195.	3.7	178
48	Optimization and evaluation of asymmetric flow field-flow fractionation of silver nanoparticles. Journal of Chromatography A, 2013, 1272, 116-125.	3.7	84
49	Long term performance of an AMD treatment bioreactor using chemolithoautotrophic sulfate reduction and ferrous iron precipitation under in situ groundwater conditions. Bioresource Technology, 2012, 104, 221-227.	9.6	13
50	Testing In Situ Sulfate Reduction by H2 injection in a Bench-Scale Column Experiment. Water, Air, and Soil Pollution, 2009, 203, 109-122.	2.4	5