Erica Donner

List of Publications by Year
in descending order

86 papers	4,689 citations	70961 41 h-index	102304 66 g-index
88 all docs	88 docs citations	88 times ranked	6752 citing authors

#	Article	IF	Citations
1	Wastewater-based epidemiology biomarkers: Past, present and future. TrAC - Trends in Analytical Chemistry, 2018, 105, 453-469.	5.8	327
2	Fate of Zinc Oxide Nanoparticles during Anaerobic Digestion of Wastewater and Post-Treatment Processing of Sewage Sludge. Environmental Science & Technology, 2012, 46, 9089-9096.	4.6	193
3	The COVID-19 pandemic: Considerations for the waste and wastewater services sector. Case Studies in Chemical and Environmental Engineering, 2020, 1, 100006.	2.9	187
4	Transformation of four silver/silver chloride nanoparticles during anaerobic treatment of wastewater and post-processing of sewage sludge. Environmental Pollution, 2013, 176, 193-197.	3.7	184
5	Ecotoxicity of carbamazepine and its UV photolysis transformation products. Science of the Total Environment, 2013, 443, 870-876.	3.9	159
6	Speciation of metal(loid)s in environmental samples by X-ray absorption spectroscopy: A critical review. Analytica Chimica Acta, 2014, 822, 1-22.	2.6	150
7	Microbial community and bioelectrochemical activities in MFC for degrading phenol and producing electricity: Microbial consortia could make differences. Chemical Engineering Journal, 2018, 332, 647-657.	6.6	137
8	Impact of Surface Charge on Cerium Oxide Nanoparticle Uptake and Translocation by Wheat (<i>Triticum aestivum</i>). Environmental Science & Technology, 2017, 51, 7361-7368.	4.6	133
9	In Situ Distribution and Speciation of Toxic Copper, Nickel, and Zinc in Hydrated Roots of Cowpea Â Â. Plant Physiology, 2011, 156, 663-673.	2.3	130
10	The effect of biochar feedstock, pyrolysis temperature, and application rate on the reduction of ammonia volatilisation from biochar-amended soil. Science of the Total Environment, 2018, 627, 942-950.	3.9	105
11	A One Health approach to managing the applications and implications of nanotechnologies in agriculture. Nature Nanotechnology, 2019, 14, 523-531.	15.6	102
12	Silver speciation and release in commercial antimicrobial textiles as influenced by washing. Chemosphere, 2014, 111, 352-358.	4.2	100
13	Speciation and Lability of Ag-, AgCl-, and Ag₂S-Nanoparticles in Soil Determined by X-ray Absorption Spectroscopy and Diffusive Gradients in Thin Films. Environmental Science & Technology, 2015, 49, 897-905.	4.6	99
14	Fate of zinc and silver engineered nanoparticles in sewerage networks. Water Research, 2015, 77, 72-84.	5.3	96
15	Foliar application of zinc sulphate and zinc EDTA to wheat leaves: differences in mobility, distribution, and speciation. Journal of Experimental Botany, 2018, 69, 4469-4481.	2.4	95
16	Trends in hard X-ray fluorescence mapping: environmental applications in the age of fast detectors. Analytical and Bioanalytical Chemistry, 2011, 400, 1637-1644.	1.9	93
17	Fast X-Ray Fluorescence Microtomography of Hydrated Biological Samples. PLoS ONE, 2011, 6, e20626.	1.1	89
18	Analytical characterisation of nanoscale zero-valent iron: A methodological review. Analytica Chimica Acta, 2016, 903, 13-35.	2.6	87

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19	A review of recent developments in the speciation and location of arsenic and selenium in rice grain. Analytical and Bioanalytical Chemistry, 2012, 402, 3275-3286.	1.9	79
20	X-ray Absorption and Micro X-ray Fluorescence Spectroscopy Investigation of Copper and Zinc Speciation in Biosolids. Environmental Science & Technology, 2011, 45, 7249-7257.	4.6	75
21	The implications of household greywater treatment and reuse for municipal wastewater flows and micropollutant loads. Water Research, 2011, 45, 1549-1560.	5.3	74
22	Probabilistic modelling of engineered nanomaterial emissions to the environment: a spatio-temporal approach. Environmental Science: Nano, 2015, 2, 340-351.	2.2	73
23	Element distribution and iron speciation in mature wheat grains (<i>Triticum aestivum</i> L.) using synchrotron Xâ€ray fluorescence microscopy mapping and Xâ€ray absorption nearâ€edge structure (XANES) imaging. Plant, Cell and Environment, 2016, 39, 1835-1847.	2.8	72
24	Presence and fate of priority substances in domestic greywater treatment and reuse systems. Science of the Total Environment, 2010, 408, 2444-2451.	3.9	70
25	Measurement of Inorganic Arsenic Species in Rice after Nitric Acid Extraction by HPLC-ICPMS: Verification Using XANES. Environmental Science & Technology, 2013, 47, 5821-5827.	4.6	68
26	Changes in soil bacterial communities and diversity in response to long-term silver exposure. FEMS Microbiology Ecology, 2015, 91, fiv114.	1.3	67
27	Functional characterisation of metal(loid) processes in planta through the integration of synchrotron techniques and plant molecular biology. Analytical and Bioanalytical Chemistry, 2012, 402, 3287-3298.	1.9	60
28	Aggregation behaviour of engineered nanoparticles in natural waters: Characterising aggregate structure using on-line laser light scattering. Journal of Hazardous Materials, 2015, 284, 190-200.	6.5	59
29	Fate and lability of silver in soils: Effect of ageing. Environmental Pollution, 2014, 191, 151-157.	3.7	56
30	Distribution of Minerals in Wheat Grains (<i>Triticum aestivum</i> L.) and in Roller Milling Fractions Affected by Pearling. Journal of Agricultural and Food Chemistry, 2015, 63, 1276-1285.	2.4	56
31	Speciation mapping of environmental samples using XANES imaging. Environmental Chemistry, 2014, 11, 341.	0.7	55
32	Aging of Dissolved Copper and Copperâ€based Nanoparticles in Five Different Soils: Shortâ€term Kinetics vs. Longâ€term Fate. Journal of Environmental Quality, 2017, 46, 1198-1205.	1.0	55
33	A global multinational survey of cefotaxime-resistant coliforms in urban wastewater treatment plants. Environment International, 2020, 144, 106035.	4.8	55
34	Complementary Imaging of Silver Nanoparticle Interactions with Green Algae: Dark-Field Microscopy, Electron Microscopy, and Nanoscale Secondary Ion Mass Spectrometry. ACS Nano, 2017, 11, 10894-10902.	7.3	54
35	A multi-technique investigation of copper and zinc distribution, speciation and potential bioavailability in biosolids. Environmental Pollution, 2012, 166, 57-64.	3.7	52
36	Metals in greywater: Sources, presence and removal efficiencies. Desalination, 2009, 248, 271-278.	4.0	51

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37	Quantifying the adsorption of ionic silver and functionalized nanoparticles during ecotoxicity testing: Test container effects and recommendations. Nanotoxicology, 2015, 9, 1005-1012.	1.6	48
38	Making Waves: Collaboration in the time of SARS-CoV-2 - rapid development of an international co-operation and wastewater surveillance database to support public health decision-making. Water Research, 2021, 199, 117167.	5.3	48
39	Assessing the aggregation behaviour of iron oxide nanoparticles under relevant environmental conditions using a multi-method approach. Water Research, 2013, 47, 4585-4599.	5.3	47
40	Use of municipal solid wastes for chemical and microbiological recovery of soils contaminated with metal(loid)s. Soil Biology and Biochemistry, 2017, 111, 25-35.	4.2	47
41	Synchrotronâ€based Xâ€Ray Approaches for Examining Toxic Trace Metal(loid)s in Soilâ€"Plant Systems. Journal of Environmental Quality, 2017, 46, 1175-1189.	1.0	46
42	Temporal Evolution of Copper Distribution and Speciation in Roots of <i>Triticum aestivum</i> Exposed to CuO, Cu(OH)₂, and CuS Nanoparticles. Environmental Science & Technology, 2018, 52, 9777-9784.	4.6	44
43	Examination of the Distribution of Arsenic in Hydrated and Fresh Cowpea Roots Using Two- and Three-Dimensional Techniques Â Â. Plant Physiology, 2012, 159, 1149-1158.	2.3	43
44	Non-labile silver species in biosolids remain stable throughout 50 years of weathering and ageing. Environmental Pollution, 2015, 205, 78-86.	3.7	41
45	Biochar with near-neutral pH reduces ammonia volatilization and improves plant growth in a soil-plant system: A closed chamber experiment. Science of the Total Environment, 2019, 697, 134114.	3.9	40
46	Quantitative determination of metal and metalloid spatial distribution in hydrated and fresh roots of cowpea using synchrotron-based X-ray fluorescence microscopy. Science of the Total Environment, 2013, 463-464, 131-139.	3.9	38
47	In Situ Chemical Transformations of Silver Nanoparticles along the Waterâ€"Sediment Continuum. Environmental Science & Technology, 2015, 49, 318-325.	4.6	37
48	<i>In Situ</i> Fixation of Metal(loid)s in Contaminated Soils: A Comparison of Conventional, Opportunistic, and Engineered Soil Amendments. Environmental Science & Technology, 2015, 49, 13501-13509.	4.6	35
49	Optimising the foliar uptake of zinc oxide nanoparticles: Do leaf surface properties and particle coating affect absorption?. Physiologia Plantarum, 2020, 170, 384-397.	2.6	31
50	Characterization of Leached Phosphorus from Soil, Manure, and Manure-Amended Soil by Physical and Chemical Fractionation and Diffusive Gradients in Thin Films (DGT). Environmental Science & Technology, 2012, 46, 10564-10571.	4.6	29
51	Biological and chemical assessments of zinc ageing in field soils. Environmental Pollution, 2010, 158, 339-345.	3.7	28
52	Surface Immobilization of Engineered Nanomaterials for in Situ Study of their Environmental Transformations and Fate. Environmental Science & Technology, 2013, 47, 9308-9316.	4.6	28
53	Assessing the contributions of lateral roots to element uptake in rice using an auxin-related lateral root mutant. Plant and Soil, 2013, 372, 125-136.	1.8	26
54	Evaluating the mobility of polymer-stabilised zero-valent iron nanoparticles and their potential to co-transport contaminants in intact soil cores. Environmental Pollution, 2016, 216, 636-645.	3.7	26

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55	Pesticide effects on nitrogen cycle related microbial functions and community composition. Science of the Total Environment, 2022, 807, 150734.	3.9	25
56	Application of MicroRespâ„¢ for soil ecotoxicology. Environmental Pollution, 2013, 179, 177-184.	3.7	22
57	Disinfection options for irrigation water: Reducing the risk of fresh produce contamination with human pathogens. Critical Reviews in Environmental Science and Technology, 2020, 50, 2144-2174.	6.6	22
58	Distribution and speciation of Mn in hydrated roots of cowpea at levels inhibiting root growth. Physiologia Plantarum, 2013, 147, 453-464.	2.6	21
59	Can earthworm-secreted calcium carbonate immobilise Zn in contaminated soils?. Soil Biology and Biochemistry, 2014, 74, 1-10.	4.2	21
60	Effects of Chemical Amendments on the Lability and Speciation of Metals in Anaerobically Digested Biosolids. Environmental Science & Technology, 2013, 47, 11157-11165.	4.6	20
61	Silver Toxicity Thresholds for Multiple Soil Microbial Biomarkers. Environmental Science & Technology, 2018, 52, 8745-8755.	4.6	19
62	Investigating the foliar uptake of zinc from conventional and nano-formulations: a methodological study. Environmental Chemistry, 2019, 16, 459.	0.7	19
63	Comparative antibacterial activities of neutral electrolyzed oxidizing water and other chlorine-based sanitizers. Scientific Reports, 2019, 9, 19955.	1.6	19
64	Inactivation, removal, and regrowth potential of opportunistic pathogens and antimicrobial resistance genes in recycled water systems. Water Research, 2021, 201, 117324.	5.3	17
65	Ageing of zinc in highly-weathered iron-rich soils. Plant and Soil, 2012, 361, 83-95.	1.8	16
66	Application of Synchrotron Radiationâ€based Methods for Environmental Biogeochemistry: Introduction to the Special Section. Journal of Environmental Quality, 2017, 46, 1139-1145.	1.0	15
67	Presence of selected priority and personal care substances in an onsite bathroom greywater treatment facility. Water Science and Technology, 2010, 62, 2889-2898.	1.2	14
68	Novel application of X-ray fluorescence microscopy (XFM) for the non-destructive micro-elemental analysis of natural mineral pigments on Aboriginal Australian objects. Analyst, The, 2016, 141, 3657-3667.	1.7	13
69	A source classification framework supporting pollutant source mapping, pollutant release prediction, transport and load forecasting, and source control planning for urban environments. Environmental Science and Pollution Research, 2012, 19, 1119-1130.	2.7	12
70	Antibiotic Resistance and Sewage-Associated Marker Genes in Untreated Sewage and a River Characterized During Baseflow and Stormflow. Frontiers in Microbiology, 2021, 12, 632850.	1.5	12
71	Agglomeration behaviour of titanium dioxide nanoparticles in river waters: A multi-method approach combining light scattering and field-flow fractionation techniques. Journal of Environmental Management, 2015, 159, 135-142.	3.8	11
72	Reactive gaseous mercury is generated from chloralkali factories resulting in extreme concentrations of mercury in hair of workers. Scientific Reports, 2018, 8, 3675.	1.6	11

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73	Chemical characterisation, antibacterial activity, and (nano)silver transformation of commercial personal care products exposed to household greywater. Environmental Science: Nano, 2019, 6, 3027-3038.	2.2	10
74	Mapping Element Distributions in Plant Tissues Using Synchrotron X-ray Fluorescence Techniques. Methods in Molecular Biology, 2013, 953, 143-159.	0.4	10
75	Genomic Analysis of Carbapenem-Resistant <i>Comamonas</i> in Water Matrices: Implications for Public Health and Wastewater Treatments. Applied and Environmental Microbiology, 2022, 88, .	1.4	10
76	A radio-isotopic dilution technique for functional characterisation of the associations between inorganic contaminants and water-dispersible naturally occurring soil colloids. Environmental Chemistry, 2013, 10, 341.	0.7	9
77	Microelemental characterisation of Aboriginal Australian natural Fe oxide pigments. Analytical Methods, 2015, 7, 7363-7380.	1.3	8
78	Unraveling microbiomes and functions associated with strategic tillage, stubble, and fertilizer management. Agriculture, Ecosystems and Environment, 2022, 323, 107686.	2.5	8
79	Neutral electrolyzed oxidizing water is effective for pre-harvest decontamination of fresh produce. Food Microbiology, 2021, 93, 103610.	2.1	7
80	Quantifying Releases of Priority Pollutants from Urban Sources. Proceedings of the Water Environment Federation, 2009, 2009, 5873-5891.	0.0	6
81	Characterising the exchangeability of phenanthrene associated with naturally occurring soil colloids using an isotopic dilution technique. Environmental Pollution, 2015, 199, 244-252.	3.7	5
82	Wastewater monitoring for SARS-CoV-2. Microbiology Australia, 2021, 42, 18.	0.1	5
83	Progressing Antimicrobial Resistance Sensing Technologies across Human, Animal, and Environmental Health Domains. ACS Sensors, 2021, 6, 4283-4296.	4.0	5
84	Hard X-ray synchrotron biogeochemistry: piecing together the increasingly detailed puzzle. Environmental Chemistry, 2014, 11, 1.	0.7	4
85	Dose-related changes in respiration and enzymatic activities in soils amended with mobile platinum and gold. Applied Soil Ecology, 2021, 157, 103727.	2.1	3
86	Assessing the Lability and Environmental Mobility of Organically Bound Copper by Stable Isotope Dilution. Environmental Science & Technology, 2022, 56, 5580-5589.	4.6	2