

Erica Donner

List of Publications by Year in descending order

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Version: 2024-02-01

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	Unraveling microbiomes and functions associated with strategic tillage, stubble, and fertilizer management. <i>Agriculture, Ecosystems and Environment</i> , 2022, 323, 107686.	2.5	8
2	Pesticide effects on nitrogen cycle related microbial functions and community composition. <i>Science of the Total Environment</i> , 2022, 807, 150734.	3.9	25
3	Assessing the Lability and Environmental Mobility of Organically Bound Copper by Stable Isotope Dilution. <i>Environmental Science & Technology</i> , 2022, 56, 5580-5589.	4.6	2
4	Genomic Analysis of Carbapenem-Resistant <i>Comamonas</i> in Water Matrices: Implications for Public Health and Wastewater Treatments. <i>Applied and Environmental Microbiology</i> , 2022, 88, .	1.4	10
5	Neutral electrolyzed oxidizing water is effective for pre-harvest decontamination of fresh produce. <i>Food Microbiology</i> , 2021, 93, 103610.	2.1	7
6	Dose-related changes in respiration and enzymatic activities in soils amended with mobile platinum and gold. <i>Applied Soil Ecology</i> , 2021, 157, 103727.	2.1	3
7	Antibiotic Resistance and Sewage-Associated Marker Genes in Untreated Sewage and a River Characterized During Baseflow and Stormflow. <i>Frontiers in Microbiology</i> , 2021, 12, 632850.	1.5	12
8	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. <i>Water Research</i> , 2021, 199, 117167.	5.3	48
9	Inactivation, removal, and regrowth potential of opportunistic pathogens and antimicrobial resistance genes in recycled water systems. <i>Water Research</i> , 2021, 201, 117324.	5.3	17
10	Wastewater monitoring for SARS-CoV-2. <i>Microbiology Australia</i> , 2021, 42, 18.	0.1	5
11	Progressing Antimicrobial Resistance Sensing Technologies across Human, Animal, and Environmental Health Domains. <i>ACS Sensors</i> , 2021, 6, 4283-4296.	4.0	5
12	Disinfection options for irrigation water: Reducing the risk of fresh produce contamination with human pathogens. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 2144-2174.	6.6	22
13	A global multinational survey of cefotaxime-resistant coliforms in urban wastewater treatment plants. <i>Environment International</i> , 2020, 144, 106035.	4.8	55
14	Optimising the foliar uptake of zinc oxide nanoparticles: Do leaf surface properties and particle coating affect absorption?. <i>Physiologia Plantarum</i> , 2020, 170, 384-397.	2.6	31
15	The COVID-19 pandemic: Considerations for the waste and wastewater services sector. <i>Case Studies in Chemical and Environmental Engineering</i> , 2020, 1, 100006.	2.9	187
16	Chemical characterisation, antibacterial activity, and (nano)silver transformation of commercial personal care products exposed to household greywater. <i>Environmental Science: Nano</i> , 2019, 6, 3027-3038.	2.2	10
17	Biochar with near-neutral pH reduces ammonia volatilization and improves plant growth in a soil-plant system: A closed chamber experiment. <i>Science of the Total Environment</i> , 2019, 697, 134114.	3.9	40
18	Investigating the foliar uptake of zinc from conventional and nano-formulations: a methodological study. <i>Environmental Chemistry</i> , 2019, 16, 459.	0.7	19

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19	A One Health approach to managing the applications and implications of nanotechnologies in agriculture. <i>Nature Nanotechnology</i> , 2019, 14, 523-531.	15.6	102
20	Comparative antibacterial activities of neutral electrolyzed oxidizing water and other chlorine-based sanitizers. <i>Scientific Reports</i> , 2019, 9, 19955.	1.6	19
21	The effect of biochar feedstock, pyrolysis temperature, and application rate on the reduction of ammonia volatilisation from biochar-amended soil. <i>Science of the Total Environment</i> , 2018, 627, 942-950.	3.9	105
22	Microbial community and bioelectrochemical activities in MFC for degrading phenol and producing electricity: Microbial consortia could make differences. <i>Chemical Engineering Journal</i> , 2018, 332, 647-657.	6.6	137
23	Silver Toxicity Thresholds for Multiple Soil Microbial Biomarkers. <i>Environmental Science & Technology</i> , 2018, 52, 8745-8755.	4.6	19
24	Foliar application of zinc sulphate and zinc EDTA to wheat leaves: differences in mobility, distribution, and speciation. <i>Journal of Experimental Botany</i> , 2018, 69, 4469-4481.	2.4	95
25	Wastewater-based epidemiology biomarkers: Past, present and future. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 105, 453-469.	5.8	327
26	Temporal Evolution of Copper Distribution and Speciation in Roots of <i>Triticum aestivum</i> Exposed to CuO, Cu(OH) ₂ , and CuS Nanoparticles. <i>Environmental Science & Technology</i> , 2018, 52, 9777-9784.	4.6	44
27	Reactive gaseous mercury is generated from chloralkali factories resulting in extreme concentrations of mercury in hair of workers. <i>Scientific Reports</i> , 2018, 8, 3675.	1.6	11
28	Synchrotron-based X-ray Approaches for Examining Toxic Trace Metal(loid)s in Soil-Plant Systems. <i>Journal of Environmental Quality</i> , 2017, 46, 1175-1189.	1.0	46
29	Impact of Surface Charge on Cerium Oxide Nanoparticle Uptake and Translocation by Wheat (<i>Triticum aestivum</i>). <i>Environmental Science & Technology</i> , 2017, 51, 7361-7368.	4.6	133
30	Use of municipal solid wastes for chemical and microbiological recovery of soils contaminated with metal(loid)s. <i>Soil Biology and Biochemistry</i> , 2017, 111, 25-35.	4.2	47
31	Complementary Imaging of Silver Nanoparticle Interactions with Green Algae: Dark-Field Microscopy, Electron Microscopy, and Nanoscale Secondary Ion Mass Spectrometry. <i>ACS Nano</i> , 2017, 11, 10894-10902.	7.3	54
32	Aging of Dissolved Copper and Copper-based Nanoparticles in Five Different Soils: Short-term Kinetics vs. Long-term Fate. <i>Journal of Environmental Quality</i> , 2017, 46, 1198-1205.	1.0	55
33	Application of Synchrotron Radiation-based Methods for Environmental Biogeochemistry: Introduction to the Special Section. <i>Journal of Environmental Quality</i> , 2017, 46, 1139-1145.	1.0	15
34	Evaluating the mobility of polymer-stabilised zero-valent iron nanoparticles and their potential to co-transport contaminants in intact soil cores. <i>Environmental Pollution</i> , 2016, 216, 636-645.	3.7	26
35	Element distribution and iron speciation in mature wheat grains (<i>Triticum aestivum</i> L.) using synchrotron X-ray fluorescence microscopy mapping and X-ray absorption near-edge structure (XANES) imaging. <i>Plant, Cell and Environment</i> , 2016, 39, 1835-1847.	2.8	72
36	Novel application of X-ray fluorescence microscopy (XFM) for the non-destructive micro-elemental analysis of natural mineral pigments on Aboriginal Australian objects. <i>Analyst, The</i> , 2016, 141, 3657-3667.	1.7	13

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37	Analytical characterisation of nanoscale zero-valent iron: A methodological review. <i>Analytica Chimica Acta</i> , 2016, 903, 13-35.	2.6	87
38	Probabilistic modelling of engineered nanomaterial emissions to the environment: a spatio-temporal approach. <i>Environmental Science: Nano</i> , 2015, 2, 340-351.	2.2	73
39	Agglomeration behaviour of titanium dioxide nanoparticles in river waters: A multi-method approach combining light scattering and field-flow fractionation techniques. <i>Journal of Environmental Management</i> , 2015, 159, 135-142.	3.8	11
40	Non-labile silver species in biosolids remain stable throughout 50 years of weathering and ageing. <i>Environmental Pollution</i> , 2015, 205, 78-86.	3.7	41
41	Characterising the exchangeability of phenanthrene associated with naturally occurring soil colloids using an isotopic dilution technique. <i>Environmental Pollution</i> , 2015, 199, 244-252.	3.7	5
42	Distribution of Minerals in Wheat Grains (<i>Triticum aestivum</i> L.) and in Roller Milling Fractions Affected by Pearling. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 1276-1285.	2.4	56
43	Speciation and Lability of Ag ⁺ , AgCl ⁻ , and Ag ₂ S-Nanoparticles in Soil Determined by X-ray Absorption Spectroscopy and Diffusive Gradients in Thin Films. <i>Environmental Science & Technology</i> , 2015, 49, 897-905.	4.6	99
44	Quantifying the adsorption of ionic silver and functionalized nanoparticles during ecotoxicity testing: Test container effects and recommendations. <i>Nanotoxicology</i> , 2015, 9, 1005-1012.	1.6	48
45	Microelemental characterisation of Aboriginal Australian natural Fe oxide pigments. <i>Analytical Methods</i> , 2015, 7, 7363-7380.	1.3	8
46	Fate of zinc and silver engineered nanoparticles in sewerage networks. <i>Water Research</i> , 2015, 77, 72-84.	5.3	96
47	Changes in soil bacterial communities and diversity in response to long-term silver exposure. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv114.	1.3	67
48	<i>In Situ</i> Fixation of Metal(loid)s in Contaminated Soils: A Comparison of Conventional, Opportunistic, and Engineered Soil Amendments. <i>Environmental Science & Technology</i> , 2015, 49, 13501-13509.	4.6	35
49	Aggregation behaviour of engineered nanoparticles in natural waters: Characterising aggregate structure using on-line laser light scattering. <i>Journal of Hazardous Materials</i> , 2015, 284, 190-200.	6.5	59
50	In Situ Chemical Transformations of Silver Nanoparticles along the Water-Sediment Continuum. <i>Environmental Science & Technology</i> , 2015, 49, 318-325.	4.6	37
51	Speciation mapping of environmental samples using XANES imaging. <i>Environmental Chemistry</i> , 2014, 11, 341.	0.7	55
52	Hard X-ray synchrotron biogeochemistry: piecing together the increasingly detailed puzzle. <i>Environmental Chemistry</i> , 2014, 11, 1.	0.7	4
53	Speciation of metal(loid)s in environmental samples by X-ray absorption spectroscopy: A critical review. <i>Analytica Chimica Acta</i> , 2014, 822, 1-22.	2.6	150
54	Can earthworm-secreted calcium carbonate immobilise Zn in contaminated soils?. <i>Soil Biology and Biochemistry</i> , 2014, 74, 1-10.	4.2	21

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55	Fate and lability of silver in soils: Effect of ageing. <i>Environmental Pollution</i> , 2014, 191, 151-157.	3.7	56
56	Silver speciation and release in commercial antimicrobial textiles as influenced by washing. <i>Chemosphere</i> , 2014, 111, 352-358.	4.2	100
57	Surface Immobilization of Engineered Nanomaterials for in Situ Study of their Environmental Transformations and Fate. <i>Environmental Science & Technology</i> , 2013, 47, 9308-9316.	4.6	28
58	Application of MicroResp [®] for soil ecotoxicology. <i>Environmental Pollution</i> , 2013, 179, 177-184.	3.7	22
59	Effects of Chemical Amendments on the Lability and Speciation of Metals in Anaerobically Digested Biosolids. <i>Environmental Science & Technology</i> , 2013, 47, 11157-11165.	4.6	20
60	Transformation of four silver/silver chloride nanoparticles during anaerobic treatment of wastewater and post-processing of sewage sludge. <i>Environmental Pollution</i> , 2013, 176, 193-197.	3.7	184
61	Distribution and speciation of Mn in hydrated roots of cowpea at levels inhibiting root growth. <i>Physiologia Plantarum</i> , 2013, 147, 453-464.	2.6	21
62	Ecotoxicity of carbamazepine and its UV photolysis transformation products. <i>Science of the Total Environment</i> , 2013, 443, 870-876.	3.9	159
63	Measurement of Inorganic Arsenic Species in Rice after Nitric Acid Extraction by HPLC-ICPMS: Verification Using XANES. <i>Environmental Science & Technology</i> , 2013, 47, 5821-5827.	4.6	68
64	Assessing the contributions of lateral roots to element uptake in rice using an auxin-related lateral root mutant. <i>Plant and Soil</i> , 2013, 372, 125-136.	1.8	26
65	Assessing the aggregation behaviour of iron oxide nanoparticles under relevant environmental conditions using a multi-method approach. <i>Water Research</i> , 2013, 47, 4585-4599.	5.3	47
66	Quantitative determination of metal and metalloid spatial distribution in hydrated and fresh roots of cowpea using synchrotron-based X-ray fluorescence microscopy. <i>Science of the Total Environment</i> , 2013, 463-464, 131-139.	3.9	38
67	A radio-isotopic dilution technique for functional characterisation of the associations between inorganic contaminants and water-dispersible naturally occurring soil colloids. <i>Environmental Chemistry</i> , 2013, 10, 341.	0.7	9
68	Mapping Element Distributions in Plant Tissues Using Synchrotron X-ray Fluorescence Techniques. <i>Methods in Molecular Biology</i> , 2013, 953, 143-159.	0.4	10
69	Examination of the Distribution of Arsenic in Hydrated and Fresh Cowpea Roots Using Two- and Three-Dimensional Techniques. <i>Plant Physiology</i> , 2012, 159, 1149-1158.	2.3	43
70	A review of recent developments in the speciation and location of arsenic and selenium in rice grain. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3275-3286.	1.9	79
71	Fate of Zinc Oxide Nanoparticles during Anaerobic Digestion of Wastewater and Post-Treatment Processing of Sewage Sludge. <i>Environmental Science & Technology</i> , 2012, 46, 9089-9096.	4.6	193
72	Characterization of Leached Phosphorus from Soil, Manure, and Manure-Amended Soil by Physical and Chemical Fractionation and Diffusive Gradients in Thin Films (DGT). <i>Environmental Science & Technology</i> , 2012, 46, 10564-10571.	4.6	29

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73	Ageing of zinc in highly-weathered iron-rich soils. <i>Plant and Soil</i> , 2012, 361, 83-95.	1.8	16
74	A source classification framework supporting pollutant source mapping, pollutant release prediction, transport and load forecasting, and source control planning for urban environments. <i>Environmental Science and Pollution Research</i> , 2012, 19, 1119-1130.	2.7	12
75	Functional characterisation of metal(loid) processes in planta through the integration of synchrotron techniques and plant molecular biology. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3287-3298.	1.9	60
76	A multi-technique investigation of copper and zinc distribution, speciation and potential bioavailability in biosolids. <i>Environmental Pollution</i> , 2012, 166, 57-64.	3.7	52
77	X-ray Absorption and Micro X-ray Fluorescence Spectroscopy Investigation of Copper and Zinc Speciation in Biosolids. <i>Environmental Science & Technology</i> , 2011, 45, 7249-7257.	4.6	75
78	The implications of household greywater treatment and reuse for municipal wastewater flows and micropollutant loads. <i>Water Research</i> , 2011, 45, 1549-1560.	5.3	74
79	Trends in hard X-ray fluorescence mapping: environmental applications in the age of fast detectors. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 1637-1644.	1.9	93
80	In Situ Distribution and Speciation of Toxic Copper, Nickel, and Zinc in Hydrated Roots of Cowpea. <i>Plant Physiology</i> , 2011, 156, 663-673.	2.3	130
81	Fast X-Ray Fluorescence Microtomography of Hydrated Biological Samples. <i>PLoS ONE</i> , 2011, 6, e20626.	1.1	89
82	Presence of selected priority and personal care substances in an onsite bathroom greywater treatment facility. <i>Water Science and Technology</i> , 2010, 62, 2889-2898.	1.2	14
83	Presence and fate of priority substances in domestic greywater treatment and reuse systems. <i>Science of the Total Environment</i> , 2010, 408, 2444-2451.	3.9	70
84	Biological and chemical assessments of zinc ageing in field soils. <i>Environmental Pollution</i> , 2010, 158, 339-345.	3.7	28
85	Metals in greywater: Sources, presence and removal efficiencies. <i>Desalination</i> , 2009, 248, 271-278.	4.0	51
86	Quantifying Releases of Priority Pollutants from Urban Sources. <i>Proceedings of the Water Environment Federation</i> , 2009, 2009, 5873-5891.	0.0	6