Elizabeth Bailey

List of Publications by Year
in descending order

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83 papers	2,015 citations	257101 24 h-index	301761 39 g-index
88 all docs	88 docs citations	88 times ranked	2169 citing authors

#	Article	IF	Citations
1	Soil and plant contamination by potentially toxic and emerging elements and the associated human health risk in some Egyptian environments. Environmental Geochemistry and Health, 2023, 45, 359-379.	1.8	4
2	Mineral micronutrient status and spatial distribution among the Ethiopian population. British Journal of Nutrition, 2022, , 1-30.	1.2	1
3	The Impact of Consuming Zinc-Biofortified Wheat Flour on Haematological Indices of Zinc and Iron Status in Adolescent Girls in Rural Pakistan: A Cluster-Randomised, Double-Blind, Controlled Effectiveness Trial. Nutrients, 2022, 14, 1657.	1.7	9
4	Assessing the Lability and Environmental Mobility of Organically Bound Copper by Stable Isotope Dilution. Environmental Science & Technology, 2022, 56, 5580-5589.	4.6	2
5	Soil and landscape factors influence geospatial variation in maize grain zinc concentration in Malawi. Scientific Reports, 2022, 12, 7986.	1.6	10
6	Sub-sampling a large physical soil archive for additional analyses to support spatial mapping; a pre-registered experiment in the Southern Nations, Nationalities, and Peoples Region (SNNPR) of Ethiopia. Geoderma, 2022, 424, 116013.	2.3	0
7	Effect of soil properties on time-dependent fixation (ageing) of selenate. Geoderma, 2021, 383, 114741.	2.3	9
8	A stable isotope approach to accurately determine iron and zinc bioaccessibility in cereals and legumes based on a modified INFOGEST static in vitro digestion method. Food Research International, 2021, 139, 109948.	2.9	14
9	Agronomic iodine biofortification of leafy vegetables grown in Vertisols, Oxisols and Alfisols. Environmental Geochemistry and Health, 2021, 43, 361-374.	1.8	15
10	Online Microdialysis-High-Performance Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry (MD-HPLC-ICP-MS) as a Novel Tool for Sampling Hexavalent Chromium in Soil Solution. Environmental Science & Technology, 2021, 55, 2422-2429.	4.6	15
11	Fate of selenium in biofortification of wheat on calcareous soil: an isotopic study. Environmental Geochemistry and Health, 2021, 43, 3643-3657.	1.8	3
12	Zinc deficiency is highly prevalent and spatially dependent over short distances in Ethiopia. Scientific Reports, 2021, 11, 6510.	1.6	27
13	Multiple geochemical factors may cause iodine and selenium deficiency in Gilgit-Baltistan, Pakistan. Environmental Geochemistry and Health, 2021, 43, 4493-4513.	1.8	11
14	Selenium speciation and bioaccessibility in Se-fertilised crops of dietary importance in Malawi. Journal of Food Composition and Analysis, 2021, 98, 103841.	1.9	15
15	Environmental and human iodine and selenium status: lessons from Gilgit-Baltistan, North-East Pakistan. Environmental Geochemistry and Health, 2021, 43, 4665-4686.	1.8	7
16	The nutritional quality of cereals varies geospatially in Ethiopia and Malawi. Nature, 2021, 594, 71-76.	13.7	104
17	The effect of soil properties on zinc lability and solubility in soils of Ethiopia â€“ an isotopic dilution study. Soil, 2021, 7, 255-268.	2.2	12
18	Using 77Se-Labelled Foliar Fertilisers to Determine How Se Transfers Within Wheat Over Time. Frontiers in Nutrition, 2021, 8, 732409.	1.6	1

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19	Biofortified Maize Improves Selenium Status of Women and Children in a Rural Community in Malawi: Results of the Addressing Hidden Hunger With Agronomy Randomized Controlled Trial. Frontiers in Nutrition, 2021, 8, 788096.	1.6	4
20	Biofortified Wheat Increases Dietary Zinc Intake: A Randomised Controlled Efficacy Study of Zincol-2016 in Rural Pakistan. Frontiers in Nutrition, 2021, 8, 809783.	1.6	14
21	Assessment of potentially toxic elements in vegetables cultivated in urban and peri-urban sites in the Kurdistan region of Iraq and implications for human health. Environmental Geochemistry and Health, 2020, 42, 1359-1385.	1.8	6
22	Urine selenium concentration is a useful biomarker for assessing population level selenium status. Environment International, 2020, 134, 105218.	4.8	37
23	Geographical and seasonal variation in iodine content of cowâ€™s milk in the UK and consequences for the consumerÂ´s supply. Journal of Trace Elements in Medicine and Biology, 2020, 59, 126453.	1.5	13
24	Agronomic biofortification of leafy vegetables grown in an Oxisol, Alfisol and Vertisol with isotopically labelled selenium (77Se). Geoderma, 2020, 361, 114106.	2.3	14
25	Using chemical fractionation and speciation to describe uptake of technetium, iodine and selenium by Agrostis capillaris and Lolium perenne. Journal of Environmental Radioactivity, 2020, 212, 106131.	0.9	3
26	Kinetics of 99Tc speciation in aerobic soils. Journal of Hazardous Materials, 2020, 388, 121762.	6.5	4
27	Site-Specific Factors Influence the Field Performance of a Zn-Biofortified Wheat Variety. Frontiers in Sustainable Food Systems, 2020, 4, .	1.8	33
28	Increasing zinc concentration in maize grown under contrasting soil types in Malawi through agronomic biofortification: Trial protocol for a field experiment to detect small effect sizes. Plant Direct, 2020, 4, e00277.	0.8	9
29	Micronutrient Status and Dietary Diversity of Women of Reproductive Age in Rural Pakistan. Nutrients, 2020, 12, 3407.	1.7	18
30	Biofortification of wheat with zinc for eliminating deficiency in Pakistan: study protocol for a cluster-randomised, double-blind, controlled effectiveness study (BIZIFED2). BMJ Open, 2020, 10, e039231.	0.8	25
31	Spatial prediction of the concentration of selenium (Se) in grain across part of Amhara Region, Ethiopia. Science of the Total Environment, 2020, 733, 139231.	3.9	24
32	Selenium Deficiency Is Widespread and Spatially Dependent in Ethiopia. Nutrients, 2020, 12, 1565.	1.7	22
33	Assessment of chromium species dynamics in root solutions using isotope tracers. Journal of Trace Elements in Medicine and Biology, 2020, 61, 126514.	1.5	10
34	Kinetics of uranium(VI) lability and solubility in aerobic soils. Chemosphere, 2020, 258, 127246.	4.2	8
35	The impact of long-term biosolids application (>100Âyears) on soil metal dynamics. Science of the Total Environment, 2020, 720, 137441.	3.9	17
36	Short-Term Iodine Dynamics in Soil Solution. Environmental Science & Technology, 2020, 54, 1443-1450.	4.6	12

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37	Reconnaissance sampling and determination of hexavalent chromium in potentially-contaminated agricultural soils in Copperbelt Province, Zambia. Chemosphere, 2020, 247, 125984.	4.2	10
38	Selenium biofortification of crops on a Malawi Alfisol under conservation agriculture. Geoderma, 2020, 369, 114315.	2.3	21
39	Selenium deficiency risks in sub-Saharan African food systems and their geospatial linkages. Proceedings of the Nutrition Society, 2020, 79, 457-467.	0.4	37
40	Analysis of 129I and 127I in soils of the Chernobyl Exclusion Zone, 29â€¯years after the deposition of 129I. Science of the Total Environment, 2019, 692, 966-974.	3.9	9
41	Uptake of trace elements by food crops grown within the Kilembe copper mine catchment, Western Uganda. Journal of Geochemical Exploration, 2019, 207, 106377.	1.5	12
42	Iodine bioavailability in acidic soils of Northern Ireland. Geoderma, 2019, 348, 97-106.	2.3	13
43	Investigating the use of microdialysis and SEC-UV-ICP-MS to assess iodine interactions in soil solution. Chemosphere, 2019, 229, 41-50.	4.2	8
44	The risk of selenium deficiency in Malawi is large and varies over multiple spatial scales. Scientific Reports, 2019, 9, 6566.	1.6	67
45	Chemical and isotopic fractionation of lead in the surface soils of Egypt. Applied Geochemistry, 2019, 106, 7-16.	1.4	13
46	Iodine uptake, storage and translocation mechanisms in spinach (Spinacia oleracea L.). Environmental Geochemistry and Health, 2019, 41, 2145-2156.	1.8	26
47	Can selenium deficiency in Malawi be alleviated through consumption of agro-biofortified maize flour? Study protocol for a randomised, double-blind, controlled trial. Trials, 2019, 20, 795.	0.7	20
48	Improving the efficacy of selenium fertilizers for wheat biofortification. Scientific Reports, 2019, 9, 19520.	1.6	52
49	Iodine soil dynamics and methods of measurement: a review. Environmental Sciences: Processes and Impacts, 2018, 20, 288-310.	1.7	18
50	Chromium speciation in foodstuffs: A review. Food Chemistry, 2018, 250, 105-112.	4.2	101
51	Lead in Egyptian soils: Origin, reactivity and bioavailability measured by stable isotope dilution. Science of the Total Environment, 2018, 618, 460-468.	3.9	17
52	Optimisation of a current generation ICP-QMS and benchmarking against MC-ICP-MS spectrometry for the determination of lead isotope ratios in environmental samples. Journal of Analytical Atomic Spectrometry, 2018, 33, 2184-2194.	1.6	7
53	Impact of Environmental Radiation on the Health and Reproductive Status of Fish from Chernobyl. Environmental Science & Technology, 2018, 52, 9442-9450.	4.6	47
54	Historical trends in iodine and selenium in soil and herbage at the Park Grass Experiment, Rothamsted Research, UK. Soil Use and Management, 2017, 33, 252-262.	2.6	15

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55	Predicting trace metal solubility and fractionation in Urban soils from isotopic exchangeability. Environmental Pollution, 2017, 231, 1529-1542.	3.7	17
56	Determining the fate of selenium in wheat biofortification: an isotopically labelled field trial study. Plant and Soil, 2017, 420, 61-77.	1.8	24
57	Effects of incubation time and filtration method on K d of indigenous selenium and iodine in temperate soils. Journal of Environmental Radioactivity, 2017, 177, 84-90.	0.9	6
58	Iodine binding to humic acid. Chemosphere, 2016, 157, 208-214.	4.2	30
59	Using isotopic dilution to assess chemical extraction of labile Ni, Cu, Zn, Cd and Pb in soils. Chemosphere, 2016, 155, 534-541.	4.2	25
60	Population exposure to trace elements in the Kilembe copper mine area, Western Uganda: A pilot study. Science of the Total Environment, 2016, 573, 366-375.	3.9	40
61	Kinetic study of time-dependent fixation of UVI on biochar. Journal of Hazardous Materials, 2016, 320, 55-66.	6.5	21
62	Selenium in commercial beer and losses in the brewing process from wheat to beer. Food Chemistry, 2015, 182, 9-13.	4.2	17
63	Lability of copper bound to humic acid. Chemosphere, 2015, 131, 201-208.	4.2	16
64	Lability of Pb in soil: effects of soil properties and contaminant source. Environmental Chemistry, 2014, 11, 690.	0.7	26
65	Quantification of changes in zero valent iron morphology using X-ray computed tomography. Journal of Environmental Sciences, 2013, 25, 2344-2351.	3.2	24
66	Does returning sites of historic periâ€urban waste disposal to vegetable production pose a risk to human health? â€“ A case study near Manchester, UK. Soil Use and Management, 2012, 28, 559-570.	2.6	8
67	Iodine dynamics in soils. Geochimica Et Cosmochimica Acta, 2012, 77, 457-473.	1.6	128
68	Fractionation of lead in soil by isotopic dilution and sequential extraction. Environmental Chemistry, 2011, 8, 493.	0.7	44
69	Coordination of Cd2+ ions in the internal pore system of zeolite-X: A combined EXAFS and isotopic exchange study. Geochimica Et Cosmochimica Acta, 2009, 73, 1577-1587.	1.6	24
70	Quantification of pore clogging characteristics in potential permeable reactive barrier (PRB) substrates using image analysis. Journal of Contaminant Hydrology, 2006, 86, 299-320.	1.6	18
71	The geochemistry of fluids from an active shallow submarine hydrothermal system: Milos island, Hellenic Volcanic Arc. Journal of Volcanology and Geothermal Research, 2005, 148, 130-151.	0.8	65
72	Natural and waste materials as metal sorbents in permeable reactive barriers (PRBs). Environmental Chemistry Letters, 2005, 3, 19-23.	8.3	38

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73	Time-dependent surface reactivity of Cd sorbed on calcite, hydroxylapatite and humic acid. Mineralogical Magazine, 2005, 69, 563-575.	0.6	15
74	Uranyl-citrate speciation in acidic aqueous solutionsâ€"an XAS study between 25 and 200 Â°C. Chemical Geology, 2005, 216, 1-16.	1.4	46
75	Uranium Biosorption by the LichenTrapelia involutaat a Uranium Mine. Geomicrobiology Journal, 2004, 21, 159-167.	1.0	44
76	Uranyl acetate speciation in aqueous solutionsâ€"an XAS study between 25Â°C and 250Â°C. Geochimica Et Cosmochimica Acta, 2004, 68, 1711-1722.	1.6	35
77	Predicting Arsenic Solubility in Contaminated Soils Using Isotopic Dilution Techniques. Environmental Science & Technology, 2002, 36, 982-988.	4.6	36
78	A study of uranium speciation in acetate solutions at temperatures from 25 to 250Â°C. Journal of Synchrotron Radiation, 2001, 8, 660-662.	1.0	8
79	Hydrothermal sediments associated with a relict backâ€arc spreading center in the Shikoku Basin, recovered from the Nankai accretionary prism, Japan. Island Arc, 1999, 8, 281-292.	0.5	1
80	Role for lichen melanins in uranium remediation. Nature, 1998, 391, 649-650.	13.7	58
81	Bioaccumulation of metals by lichens; uptake of aqueous uranium by Peltigera membranancea as a function of time and pH. American Mineralogist, 1998, 83, 1494-1502.	0.9	58
82	Uranium and thorium solubilities in subduction zone fluids. Earth and Planetary Science Letters, 1994, 124, 119-129.	1.8	86
83	Determination of uranium and thorium in basalts and uranium in aqueous solution by inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 1993, 8, 551.	1.6	32