

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
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88
all docs

88
docs citations

88
times ranked

2169
citing authors

#	ARTICLE	IF	CITATIONS
1	Iodine dynamics in soils. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 77, 457-473.	1.6	128
2	The nutritional quality of cereals varies geospatially in Ethiopia and Malawi. <i>Nature</i> , 2021, 594, 71-76.	13.7	104
3	Chromium speciation in foodstuffs: A review. <i>Food Chemistry</i> , 2018, 250, 105-112.	4.2	101
4	Uranium and thorium solubilities in subduction zone fluids. <i>Earth and Planetary Science Letters</i> , 1994, 124, 119-129.	1.8	86
5	The risk of selenium deficiency in Malawi is large and varies over multiple spatial scales. <i>Scientific Reports</i> , 2019, 9, 6566.	1.6	67
6	The geochemistry of fluids from an active shallow submarine hydrothermal system: Milos island, Hellenic Volcanic Arc. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 148, 130-151.	0.8	65
7	Role for lichen melanins in uranium remediation. <i>Nature</i> , 1998, 391, 649-650.	13.7	58
8	Bioaccumulation of metals by lichens; uptake of aqueous uranium by <i>Peltigera membranacea</i> as a function of time and pH. <i>American Mineralogist</i> , 1998, 83, 1494-1502.	0.9	58
9	Improving the efficacy of selenium fertilizers for wheat biofortification. <i>Scientific Reports</i> , 2019, 9, 19520.	1.6	52
10	Impact of Environmental Radiation on the Health and Reproductive Status of Fish from Chernobyl. <i>Environmental Science & Technology</i> , 2018, 52, 9442-9450.	4.6	47
11	Uranyl-citrate speciation in acidic aqueous solutions – an XAS study between 25 and 200 °C. <i>Chemical Geology</i> , 2005, 216, 1-16.	1.4	46
12	Uranium Biosorption by the Lichen <i>Trapelia involuta</i> at a Uranium Mine. <i>Geomicrobiology Journal</i> , 2004, 21, 159-167.	1.0	44
13	Fractionation of lead in soil by isotopic dilution and sequential extraction. <i>Environmental Chemistry</i> , 2011, 8, 493.	0.7	44
14	Population exposure to trace elements in the Kilembe copper mine area, Western Uganda: A pilot study. <i>Science of the Total Environment</i> , 2016, 573, 366-375.	3.9	40
15	Natural and waste materials as metal sorbents in permeable reactive barriers (PRBs). <i>Environmental Chemistry Letters</i> , 2005, 3, 19-23.	8.3	38
16	Urine selenium concentration is a useful biomarker for assessing population level selenium status. <i>Environment International</i> , 2020, 134, 105218.	4.8	37
17	Selenium deficiency risks in sub-Saharan African food systems and their geospatial linkages. <i>Proceedings of the Nutrition Society</i> , 2020, 79, 457-467.	0.4	37
18	Predicting Arsenic Solubility in Contaminated Soils Using Isotopic Dilution Techniques. <i>Environmental Science & Technology</i> , 2002, 36, 982-988.	4.6	36

#	ARTICLE	IF	CITATIONS
19	Uranyl acetate speciation in aqueous solutions an XAS study between 25°C and 250°C. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1711-1722.	1.6	35
20	Site-Specific Factors Influence the Field Performance of a Zn-Biofortified Wheat Variety. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	1.8	33
21	Determination of uranium and thorium in basalts and uranium in aqueous solution by inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1993, 8, 551.	1.6	32
22	Iodine binding to humic acid. <i>Chemosphere</i> , 2016, 157, 208-214.	4.2	30
23	Zinc deficiency is highly prevalent and spatially dependent over short distances in Ethiopia. <i>Scientific Reports</i> , 2021, 11, 6510.	1.6	27
24	Lability of Pb in soil: effects of soil properties and contaminant source. <i>Environmental Chemistry</i> , 2014, 11, 690.	0.7	26
25	Iodine uptake, storage and translocation mechanisms in spinach (<i>Spinacia oleracea</i> L.). <i>Environmental Geochemistry and Health</i> , 2019, 41, 2145-2156.	1.8	26
26	Using isotopic dilution to assess chemical extraction of labile Ni, Cu, Zn, Cd and Pb in soils. <i>Chemosphere</i> , 2016, 155, 534-541.	4.2	25
27	Biofortification of wheat with zinc for eliminating deficiency in Pakistan: study protocol for a cluster-randomised, double-blind, controlled effectiveness study (BIZIFED2). <i>BMJ Open</i> , 2020, 10, e039231.	0.8	25
28	Coordination of Cd ²⁺ ions in the internal pore system of zeolite-X: A combined EXAFS and isotopic exchange study. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1577-1587.	1.6	24
29	Quantification of changes in zero valent iron morphology using X-ray computed tomography. <i>Journal of Environmental Sciences</i> , 2013, 25, 2344-2351.	3.2	24
30	Determining the fate of selenium in wheat biofortification: an isotopically labelled field trial study. <i>Plant and Soil</i> , 2017, 420, 61-77.	1.8	24
31	Spatial prediction of the concentration of selenium (Se) in grain across part of Amhara Region, Ethiopia. <i>Science of the Total Environment</i> , 2020, 733, 139231.	3.9	24
32	Selenium Deficiency Is Widespread and Spatially Dependent in Ethiopia. <i>Nutrients</i> , 2020, 12, 1565.	1.7	22
33	Kinetic study of time-dependent fixation of LVI on biochar. <i>Journal of Hazardous Materials</i> , 2016, 320, 55-66.	6.5	21
34	Selenium biofortification of crops on a Malawi Alfisol under conservation agriculture. <i>Geoderma</i> , 2020, 369, 114315.	2.3	21
35	Can selenium deficiency in Malawi be alleviated through consumption of agro-biofortified maize flour? Study protocol for a randomised, double-blind, controlled trial. <i>Trials</i> , 2019, 20, 795.	0.7	20
36	Quantification of pore clogging characteristics in potential permeable reactive barrier (PRB) substrates using image analysis. <i>Journal of Contaminant Hydrology</i> , 2006, 86, 299-320.	1.6	18

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37	Iodine soil dynamics and methods of measurement: a review. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 288-310.	1.7	18
38	Micronutrient Status and Dietary Diversity of Women of Reproductive Age in Rural Pakistan. <i>Nutrients</i> , 2020, 12, 3407.	1.7	18
39	Selenium in commercial beer and losses in the brewing process from wheat to beer. <i>Food Chemistry</i> , 2015, 182, 9-13.	4.2	17
40	Predicting trace metal solubility and fractionation in Urban soils from isotopic exchangeability. <i>Environmental Pollution</i> , 2017, 231, 1529-1542.	3.7	17
41	Lead in Egyptian soils: Origin, reactivity and bioavailability measured by stable isotope dilution. <i>Science of the Total Environment</i> , 2018, 618, 460-468.	3.9	17
42	The impact of long-term biosolids application (>100 years) on soil metal dynamics. <i>Science of the Total Environment</i> , 2020, 720, 137441.	3.9	17
43	Lability of copper bound to humic acid. <i>Chemosphere</i> , 2015, 131, 201-208.	4.2	16
44	Time-dependent surface reactivity of Cd sorbed on calcite, hydroxylapatite and humic acid. <i>Mineralogical Magazine</i> , 2005, 69, 563-575.	0.6	15
45	Historical trends in iodine and selenium in soil and herbage at the Park Grass Experiment, Rothamsted Research, UK. <i>Soil Use and Management</i> , 2017, 33, 252-262.	2.6	15
46	Agronomic iodine biofortification of leafy vegetables grown in Vertisols, Oxisols and Alfisols. <i>Environmental Geochemistry and Health</i> , 2021, 43, 361-374.	1.8	15
47	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. <i>Environmental Science & Technology</i> , 2021, 55, 2422-2429.	4.6	15
48	Selenium speciation and bioaccessibility in Se-fertilised crops of dietary importance in Malawi. <i>Journal of Food Composition and Analysis</i> , 2021, 98, 103841.	1.9	15
49	Agronomic biofortification of leafy vegetables grown in an Oxisol, Alfisol and Vertisol with isotopically labelled selenium (⁷⁷ Se). <i>Geoderma</i> , 2020, 361, 114106.	2.3	14
50	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. <i>Food Research International</i> , 2021, 139, 109948.	2.9	14
51	Biofortified Wheat Increases Dietary Zinc Intake: A Randomised Controlled Efficacy Study of Zincol-2016 in Rural Pakistan. <i>Frontiers in Nutrition</i> , 2021, 8, 809783.	1.6	14
52	Iodine bioavailability in acidic soils of Northern Ireland. <i>Geoderma</i> , 2019, 348, 97-106.	2.3	13
53	Chemical and isotopic fractionation of lead in the surface soils of Egypt. <i>Applied Geochemistry</i> , 2019, 106, 7-16.	1.4	13
54	Geographical and seasonal variation in iodine content of cow's milk in the UK and consequences for the consumer's supply. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020, 59, 126453.	1.5	13

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55	Uptake of trace elements by food crops grown within the Kilembe copper mine catchment, Western Uganda. <i>Journal of Geochemical Exploration</i> , 2019, 207, 106377.	1.5	12
56	Short-Term Iodine Dynamics in Soil Solution. <i>Environmental Science & Technology</i> , 2020, 54, 1443-1450.	4.6	12
57	The effect of soil properties on zinc lability and solubility in soils of Ethiopia – an isotopic dilution study. <i>Soil</i> , 2021, 7, 255-268.	2.2	12
58	Multiple geochemical factors may cause iodine and selenium deficiency in Gilgit-Baltistan, Pakistan. <i>Environmental Geochemistry and Health</i> , 2021, 43, 4493-4513.	1.8	11
59	Assessment of chromium species dynamics in root solutions using isotope tracers. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020, 61, 126514.	1.5	10
60	Reconnaissance sampling and determination of hexavalent chromium in potentially-contaminated agricultural soils in Copperbelt Province, Zambia. <i>Chemosphere</i> , 2020, 247, 125984.	4.2	10
61	Soil and landscape factors influence geospatial variation in maize grain zinc concentration in Malawi. <i>Scientific Reports</i> , 2022, 12, 7986.	1.6	10
62	Analysis of ¹²⁹ I and ¹²⁷ I in soils of the Chernobyl Exclusion Zone, 29 years after the deposition of ¹²⁹ I. <i>Science of the Total Environment</i> , 2019, 692, 966-974.	3.9	9
63	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. <i>Plant Direct</i> , 2020, 4, e00277.	0.8	9
64	Effect of soil properties on time-dependent fixation (ageing) of selenate. <i>Geoderma</i> , 2021, 383, 114741.	2.3	9
65	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. <i>Nutrients</i> , 2022, 14, 1657.	1.7	9
66	A study of uranium speciation in acetate solutions at temperatures from 25 to 250°C. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 660-662.	1.0	8
67	Does returning sites of historic peri-urban waste disposal to vegetable production pose a risk to human health? – A case study near Manchester, UK. <i>Soil Use and Management</i> , 2012, 28, 559-570.	2.6	8
68	Investigating the use of microdialysis and SEC-UV-ICP-MS to assess iodine interactions in soil solution. <i>Chemosphere</i> , 2019, 229, 41-50.	4.2	8
69	Kinetics of uranium(VI) lability and solubility in aerobic soils. <i>Chemosphere</i> , 2020, 258, 127246.	4.2	8
70	Optimisation of a current generation ICP-QMS and benchmarking against MC-ICP-MS spectrometry for the determination of lead isotope ratios in environmental samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 2184-2194.	1.6	7
71	Environmental and human iodine and selenium status: lessons from Gilgit-Baltistan, North-East Pakistan. <i>Environmental Geochemistry and Health</i> , 2021, 43, 4665-4686.	1.8	7
72	Effects of incubation time and filtration method on K _d of indigenous selenium and iodine in temperate soils. <i>Journal of Environmental Radioactivity</i> , 2017, 177, 84-90.	0.9	6

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73	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. <i>Environmental Geochemistry and Health</i> , 2020, 42, 1359-1385.	1.8	6
74	Kinetics of ⁹⁹ Tc speciation in aerobic soils. <i>Journal of Hazardous Materials</i> , 2020, 388, 121762.	6.5	4
75	Soil and plant contamination by potentially toxic and emerging elements and the associated human health risk in some Egyptian environments. <i>Environmental Geochemistry and Health</i> , 2023, 45, 359-379.	1.8	4
76	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. <i>Frontiers in Nutrition</i> , 2021, 8, 788096.	1.6	4
77	Using chemical fractionation and speciation to describe uptake of technetium, iodine and selenium by <i>Agrostis capillaris</i> and <i>Lolium perenne</i> . <i>Journal of Environmental Radioactivity</i> , 2020, 212, 106131.	0.9	3
78	Fate of selenium in biofortification of wheat on calcareous soil: an isotopic study. <i>Environmental Geochemistry and Health</i> , 2021, 43, 3643-3657.	1.8	3
79	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
80	Hydrothermal sediments associated with a relict back-arc spreading center in the Shikoku Basin, recovered from the Nankai accretionary prism, Japan. <i>Island Arc</i> , 1999, 8, 281-292.	0.5	1
81	Using ⁷⁷ Se-Labelled Foliar Fertilisers to Determine How Se Transfers Within Wheat Over Time. <i>Frontiers in Nutrition</i> , 2021, 8, 732409.	1.6	1
82	Mineral micronutrient status and spatial distribution among the Ethiopian population. <i>British Journal of Nutrition</i> , 2022, , 1-30.	1.2	1
83	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. <i>Geoderma</i> , 2022, 424, 116013.	2.3	0