Ethel White

List of Publications by Year
in descending order

93 papers	10,294 citations	53751 45 h-index	42364 92 g-index
95 all docs	95 docs citations	95 times ranked	6928 citing authors

#	Article	IF	Citations
1	Variation in Arsenic Speciation and Concentration in Paddy Rice Related to Dietary Exposure. Environmental Science & Technology, 2005, 39, 5531-5540.	4.6	706
2	Geographical Variation in Total and Inorganic Arsenic Content of Polished (White) Rice. Environmental Science & Technology, 2009, 43, 1612-1617.	4.6	673
3	Greatly Enhanced Arsenic Shoot Assimilation in Rice Leads to Elevated Grain Levels Compared to Wheat and Barley. Environmental Science & Technology, 2007, 41, 6854-6859.	4.6	653
4	Selenium in higher plants: understanding mechanisms for biofortification and phytoremediation. Trends in Plant Science, 2009, 14, 436-442.	4.3	486
5	Increase in Rice Grain Arsenic for Regions of Bangladesh Irrigating Paddies with Elevated Arsenic in Groundwaters. Environmental Science & Technology, 2006, 40, 4903-4908.	4.6	473
6	Occurrence and Partitioning of Cadmium, Arsenic and Lead in Mine Impacted Paddy Rice: Hunan, China. Environmental Science & Technology, 2009, 43, 637-642.	4.6	451
7	High Percentage Inorganic Arsenic Content of Mining Impacted and Nonimpacted Chinese Rice. Environmental Science & Technology, 2008, 42, 5008-5013.	4.6	390
8	Arsenic Sequestration in Iron Plaque, Its Accumulation and Speciation in Mature Rice Plants (Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.6	385
9	Variation in Rice Cadmium Related to Human Exposure. Environmental Science & Technology, 2013, 47, 5613-5618.	4.6	365
10	Exposure to inorganic arsenic from rice: A global health issue?. Environmental Pollution, 2008, 154, 169-171.	3.7	344
11	Inorganic arsenic in Chinese food and its cancer risk. Environment International, 2011, 37, 1219-1225.	4.8	328
12	Speciation and Localization of Arsenic in White and Brown Rice Grains. Environmental Science & Technology, 2008, 42, 1051-1057.	4.6	321
13	Inorganic Arsenic in Rice Bran and Its Products Are an Order of Magnitude Higher than in Bulk Grain. Environmental Science & Technology, 2008, 42, 7542-7546.	4.6	278
14	Uptake and translocation of inorganic and methylated arsenic species by plants. Environmental Chemistry, 2007, 4, 197.	0.7	257
15	Market Basket Survey Shows Elevated Levels of As in South Central U.S. Processed Rice Compared to California:Â Consequences for Human Dietary Exposure. Environmental Science & Technology, 2007, 41, 2178-2183.	4.6	253
16	In situ, high-resolution imaging of labile phosphorus in sediments of a large eutrophic lake. Water Research, 2015, 74, 100-109.	5.3	246
17	Selenium Characterization in the Global Rice Supply Chain. Environmental Science & Technology, 2009, 43, 6024-6030.	4.6	191
18	Organic Matterâ€"Solid Phase Interactions Are Critical for Predicting Arsenic Release and Plant Uptake in Bangladesh Paddy Soils. Environmental Science & Technology, 2011, 45, 6080-6087.	4.6	181

#	Article	IF	Citations
19	Inorganic arsenic levels in baby rice are of concern. Environmental Pollution, 2008, 152, 746-749.	3.7	168
20	Endoplasmic reticulum-tethered transcription factor cAMP responsive element-binding protein, hepatocyte specific, regulates hepatic lipogenesis, fatty acid oxidation, and lipolysis upon metabolic stress in mice. Hepatology, 2012, 55, 1070-1082.	3.6	163
21	Survey of arsenic and its speciation in rice products such as breakfast cereals, rice crackers and Japanese rice condiments. Environment International, 2009, 35, 473-475.	4.8	138
22	Localized Flux Maxima of Arsenic, Lead, and Iron around Root Apices in Flooded Lowland Rice. Environmental Science & Technology, 2014, 48, 8498-8506.	4.6	124
23	Spatial distribution of arsenic and temporal variation of its concentration in rice. New Phytologist, 2011, 189, 200-209.	3.5	121
24	Arsenic uptake and speciation in the rootless duckweed <i>Wolffia globosa</i>. New Phytologist, 2009, 182, 421-428.	3.5	111
25	Distribution and Translocation of Selenium from Soil to Grain and Its Speciation in Paddy Rice (<i>Oryza sativa</i> L.). Environmental Science & Technology, 2010, 44, 6706-6711.	4.6	105
26	Novel Precipitated Zirconia-Based DGT Technique for High-Resolution Imaging of Oxyanions in Waters and Sediments. Environmental Science & Technology, 2015, 49, 3653-3661.	4.6	105
27	Codeposition of Organic Carbon and Arsenic in Bengal Delta Aquifers. Environmental Science & Technology, 2006, 40, 4928-4935.	4.6	100
28	Arsenic Limits Trace Mineral Nutrition (Selenium, Zinc, and Nickel) in Bangladesh Rice Grain. Environmental Science & Technology, 2009, 43, 8430-8436.	4.6	99
29	Availability and transfer to grain of As, Cd, Cu, Ni, Pb and Zn in a barley agri-system: Impact of biochar, organic and mineral fertilizers. Agriculture, Ecosystems and Environment, 2016, 219, 171-178.	2.5	84
30	Inorganic arsenic and trace elements in Ghanaian grain staples. Environmental Pollution, 2011, 159, 2435-2442.	3.7	82
31	Use of diffusive gradient in thin films for in situ measurements: A review on the progress in chemical fractionation, speciation and bioavailability of metals in waters. Analytica Chimica Acta, 2017, 983, 54-66.	2.6	82
32	Improved Diffusive Gradients in Thin Films (DGT) Measurement of Total Dissolved Inorganic Arsenic in Waters and Soils Using a Hydrous Zirconium Oxide Binding Layer. Analytical Chemistry, 2014, 86, 3060-3067.	3.2	79
33	Lead in rice: Analysis of baseline lead levels in market and field collected rice grains. Science of the Total Environment, 2014, 485-486, 428-434.	3.9	78
34	Baseline Soil Variation Is a Major Factor in Arsenic Accumulation in Bengal Delta Paddy Rice. Environmental Science & Technology, 2009, 43, 1724-1729.	4.6	74
35	Evaluation of in Situ DGT Measurements for Predicting the Concentration of Cd in Chinese Field-Cultivated Rice: Impact of Soil Cd:Zn Ratios. Environmental Science & Technology, 2012, 46, 8009-8016.	4.6	73
36	Inorganic arsenic levels in rice milk exceed EU and US drinking water standards. Journal of Environmental Monitoring, 2008, 10, 428.	2.1	68

#	Article	IF	Citations
37	Microbial mediated arsenic biotransformation in wetlands. Frontiers of Environmental Science and Engineering, 2017, 11, 1.	3.3	67
38	Enhanced transfer of arsenic to grain for Bangladesh grown rice compared to US and EU. Environment International, 2009, 35, 476-479.	4.8	64
39	Rice Grain Cadmium Concentrations in the Global Supply-Chain. Exposure and Health, 2020, 12, 869-876.	2.8	63
40	Two-dimensional images of dissolved sulfide and metals in anoxic sediments by a novel diffusive gradients in thin film probe and optical scanning techniques. TrAC - Trends in Analytical Chemistry, 2015, 66, 63-71.	5.8	57
41	Mitigating arsenic accumulation in rice (Oryza sativa L.) from typical arsenic contaminated paddy soil of southern China using nanostructured Î±-MnO2: Pot experiment and field application. Science of the Total Environment, 2019, 650, 546-556.	3.9	53
42	Accumulation or production of arsenobetaine in humans?. Journal of Environmental Monitoring, 2010, 12, 832.	2.1	51
43	Accumulation, Subcellular Distribution and Toxicity of Copper in Earthworm (<i>Eisenia fetida)</i> in the Presence of Ciprofloxacin. Environmental Science & Technology, 2009, 43, 3688-3693.	4.6	50
44	Arsenate Causes Differential Acute Toxicity to Two P-deprived Genotypes of Rice Seedlings (Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	49
45	High-resolution measurement and mapping of tungstate in waters, soils and sediments using the low-disturbance DGT sampling technique. Journal of Hazardous Materials, 2016, 316, 69-76.	6.5	48
46	Sediment metal bioavailability in Lake Taihu, China: evaluation of sequential extraction, DGT, and PBET techniques. Environmental Science and Pollution Research, 2015, 22, 12919-12928.	2.7	45
47	Profiling the ionome of rice and its use in discriminating geographical origins at the regional scale, China. Journal of Environmental Sciences, 2013, 25, 144-154.	3.2	44
48	Global Sourcing of Low-Inorganic Arsenic Rice Grain. Exposure and Health, 2020, 12, 711-719.	2.8	43
49	Arsenic, cadmium, and lead pollution and uptake by rice (Oryza sativa L.) grown in greenhouse. Journal of Soils and Sediments, 2011, 11, 115-123.	1.5	40
50	Urinary excretion of arsenic following rice consumption. Environmental Pollution, 2014, 194, 181-187.	3.7	38
51	Arsenic speciation in Chinese Herbal Medicines and human health implication for inorganic arsenic. Environmental Pollution, 2013, 172, 149-154.	3.7	36
52	Riceâ€"arsenate interactions in hydroponics: a three-gene model for tolerance. Journal of Experimental Botany, 2008, 59, 2277-2284.	2.4	34
53	Phosphorus speciation and fertiliser performance characteristics: A comparison of waste recovered struvites from global sources. Geoderma, 2020, 362, 114096.	2.3	34
54	Localized Intensification of Arsenic Release within the Emergent Rice Rhizosphere. Environmental Science & Technology, 2020, 54, 3138-3147.	4.6	34

#	Article	IF	Citations
55	Spatial Heterogeneity and Kinetic Regulation of Arsenic Dynamics in Mangrove Sediments: The Sundarbans, Bangladesh. Environmental Science & Technology, 2012, 46, 8645-8652.	4.6	31
56	Inoculating chlamydospores of Trichoderma asperellum SM-12F1 changes arsenic availability and enzyme activity in soils and improves water spinach growth. Chemosphere, 2017, 175, 497-504.	4.2	31
57	New Training to Meet the Global Phosphorus Challenge. Environmental Science & Technology, 2019, 53, 8479-8481.	4.6	29
58	An arsenic-contaminated field trial to assess the uptake and translocation of arsenic by genotypes of rice. Environmental Geochemistry and Health, 2013, 35, 379-390.	1.8	26
59	Arsenic in Bangladeshi soils related to physiographic region, paddy management, and mirco- and macro-elemental status. Science of the Total Environment, 2017, 590-591, 406-415.	3.9	26
60	Novel DGT method with tri-metal oxide adsorbent for in situ spatiotemporal flux measurement of fluoride in waters and sediments. Water Research, 2016, 99, 200-208.	5.3	25
61	Biovolatilization of Arsenic as Arsines from Seawater. Environmental Science & Technology, 2018, 52, 3968-3974.	4.6	23
62	Research agendas for the sustainable management of tropical peatland in Malaysia. Environmental Conservation, 2015, 42, 73-83.	0.7	22
63	In situ sampling and speciation method for measuring dissolved phosphite at ultratrace concentrations in the natural environment. Water Research, 2018, 137, 281-289.	5.3	22
64	Field-Scale Heterogeneity and Geochemical Regulation of Arsenic, Iron, Lead, and Sulfur Bioavailability in Paddy Soil. Environmental Science & Technology, 2018, 52, 12098-12107.	4.6	22
65	Rice Rhizospheric Effects on the Bioavailability of Toxic Trace Elements during Land Application of Biochar. Environmental Science & Technology, 2021, 55, 7344-7354.	4.6	22
66	The role of polarity in antonym and synonym conceptual knowledge: Evidence from stroke aphasia and multidimensional ratings of abstract words. Neuropsychologia, 2012, 50, 2636-2644.	0.7	21
67	Inorganic species of arsenic in soil solution determined by microcartridges and ferrihydrite-based diffusive gradient in thin films (DGT). Talanta, 2013, 104, 83-89.	2.9	20
68	<i>In Vitro</i> Model To Assess Arsenic Bioaccessibility and Speciation in Cooked Shrimp. Journal of Agricultural and Food Chemistry, 2018, 66, 4710-4715.	2.4	20
69	Development and Application of the Diffusive Gradients in Thin Films Technique for the Measurement of Nitrate in Soils. Analytical Chemistry, 2017, 89, 1178-1184.	3.2	19
70	Assessment of the solubility and bioaccessibility of arsenic in realgar wine using a simulated gastrointestinal system. Science of the Total Environment, 2011, 409, 2357-2360.	3.9	18
71	Extending the functionality of the slurry ferrihydrite-DGT method: Performance evaluation for the measurement of vanadate, arsenate, antimonate and molybdate in water. Chemosphere, 2017, 184, 812-819.	4.2	18
72	Physiographical variability in arsenic dynamics in Bangladeshi soils. Science of the Total Environment, 2018, 612, 1365-1372.	3.9	18

#	Article	IF	Citations
73	In Situ Selective Measurement of Se^{IV} in Waters and Soils: Diffusive Gradients in Thin-Films with Bi-Functionalized Silica Nanoparticles. Environmental Science & Technology, 2018, 52, 14140-14148.	4.6	18
74	Optimising Sample Preparation and Calibrations in EDXRF for Quantitative Soil Analysis. Agronomy, 2020, 10, 1309.	1.3	17
75	Predicting Trace Metal Exposure in Aquatic Ecosystems: Evaluating DGT as a Biomonitoring Tool. Exposure and Health, 2020, 12, 19-31.	2.8	16
76	Elevated Trimethylarsine Oxide and Inorganic Arsenic in Northern Hemisphere Summer Monsoonal Wet Deposition. Environmental Science & Technology, 2017, 51, 12210-12218.	4.6	14
77	In Situ Measurement of Thallium in Natural Waters by a Technique Based on Diffusive Gradients in Thin Films Containing a Î´-MnO₂ Gel Layer. Analytical Chemistry, 2019, 91, 1344-1352.	3.2	13
78	Maritime Deposition of Organic and Inorganic Arsenic. Environmental Science & Technology, 2019, 53, 7288-7295.	4.6	12
79	Rapid and nondestructive measurement of labile Mn, Cu, Zn, Pb and As in DGT by using field portable-XRF. Environmental Sciences: Processes and Impacts, 2013, 15, 1768.	1.7	11
80	The potential for kelp manufacture to lead to arsenic pollution of remote Scottish islands. Chemosphere, 2006, 65, 332-342.	4.2	10
81	A cultural practice of drinking realgar wine leading to elevated urinary arsenic and its potential health risk. Environment International, 2011, 37, 889-892.	4.8	9
82	Functionalized Mesoporous Silicon Nanomaterials in Inorganic Soil Pollution Research: Opportunities for Soil Protection and Advanced Chemical Imaging. Current Pollution Reports, 2020, 6, 264-280.	3.1	9
83	How Cover Crop Sowing Date Impacts upon Their Growth, Nutrient Assimilation and the Yield of the Subsequent Commercial Crop. Agronomy, 2022, 12, 369.	1.3	9
84	A Novel In Situ Method for Simultaneously and Selectively Measuring As^{III}, Sb^{III}, and Se^{IV} in Freshwater and Soils. Analytical Chemistry, 2022, 94, 4576-4583.	3.2	9
85	Influences of phosphorus starvation on OsACR2.1 expression and arsenic metabolism in rice seedlings. Plant and Soil, 2008, 313, 129-139.	1.8	8
86	Transforming phosphorus use on the island of Ireland: A model for a sustainable system. Science of the Total Environment, 2019, 656, 852-861.	3.9	8
87	<i>In Situ</i> Selective Measurement Based on Diffusive Gradients in Thin Films Technique with Mercapto-Functionalized Mesoporous Silica for High-Resolution Imaging of Sb^{III} in Soil. Analytical Chemistry, 2020, 92, 3581-3588.	3.2	8
88	Feed-derived iodine overrides environmental contribution to cow milk. Journal of Dairy Science, 2020, 103, 6930-6939.	1.4	7
89	Combining Multiple High-Resolution <i>In Situ</i> Techniques to Understand Phosphorous Availability Around Rice Roots. Environmental Science & Technology, 2021, 55, 13082-13092.	4.6	7
90	The Correct Cover Crop Species Integrated with Slurry Can Increase Biomass, Quality and Nitrogen Cycling to Positively Affect Yields in a Subsequent Spring Barley Rotation. Agronomy, 2020, 10, 1760.	1.3	5

#	Article	IF	Citations
91	The perception and use of cover crops within the island of Ireland. Annals of Applied Biology, 2021, 179, 34-47.	1.3	3
92	Pandemic or Environmental Socio-Economic Stressors Which Have Greater Impact on Food Security in the Barishal Division of Bangladesh: Initial Perspectives from Agricultural Officers and Farmers. Sustainability, 2021, 13, 5457.	1.6	3
93	Investigation of the Effect of Slurry, Combined with Inorganic N Rate and Timing, on the Yield of Spring Barley Post Cover Crop of Stubble Turnips. Agronomy, 2021, 11, 232.	1.3	0