Kirk G Scheckel, K G Scheckel, Kirk Scheckel, K Scheckel

List of Publications by Citations

184 papers	11,348 citations	54 h-index	102 g-index
187 ext. papers	12,718 ext. citations	7.6 avg, IF	6.33 L-index

#	Paper	IF	Citations
184	Remediation of heavy metal(loid)s contaminated soils--to mobilize or to immobilize?. *Journal of Hazardous Materials*, **2014**, 266, 141-66	12.8	1170
183	Impact of environmental conditions (pH, ionic strength, and electrolyte type) on the surface charge and aggregation of silver nanoparticles suspensions. *Environmental Science & Technology*, **2010**, 44, 1260-6	10.3	833
182	Surface charge-dependent toxicity of silver nanoparticles. *Environmental Science & Technology*, **2011**, 45, 283-7	10.3	637
181	An evidence-based environmental perspective of manufactured silver nanoparticle in syntheses and applications: a systematic review and critical appraisal of peer-reviewed scientific papers. *Science of the Total Environment*, **2010**, 408, 999-1006	10.2	582
180	Speciation and localization of arsenic in white and brown rice grains. *Environmental Science & Technology*, **2008**, 42, 1051-7	10.3	284
179	XAS and XPS characterization of mercury binding on brominated activated carbon. *Environmental Science & Technology*, **2007**, 41, 1747-52	10.3	232
178	Grain unloading of arsenic species in rice. *Plant Physiology*, **2010**, 152, 309-19	6.6	231
177	Speciation and distribution of arsenic and localization of nutrients in rice grains. *New Phytologist*, **2009**, 184, 193-201	9.8	202
176	Toxic Metals in the Environment: Thermodynamic Considerations for Possible Immobilization Strategies for Pb, Cd, As, and Hg. *Critical Reviews in Environmental Science and Technology*, **2004**, 34, 495-604	11.1	179
175	Methods for speciation of metals in soils: a review. *Journal of Environmental Quality*, **2005**, 34, 1707-45	3.4	176
174	Fate of zinc oxide nanoparticles during anaerobic digestion of wastewater and post-treatment processing of sewage sludge. *Environmental Science & Technology*, **2012**, 46, 9089-96	10.3	175
173	Transformation of four silver/silver chloride nanoparticles during anaerobic treatment of wastewater and post-processing of sewage sludge. *Environmental Pollution*, **2013**, 176, 193-7	9.3	169
172	Selenium characterization in the global rice supply chain. *Environmental Science & Technology*, **2009**, 43, 6024-30	10.3	162
171	Phloem transport of arsenic species from flag leaf to grain during grain filling. *New Phytologist*, **2011**, 192, 87-98	9.8	146
170	Reducing children's risk from lead in soil. *Environmental Science & Technology*, **2004**, 38, 18A-24A	10.3	142
169	Arsenic sorption on TiO2 nanoparticles: size and crystallinity effects. *Water Research*, **2010**, 44, 965-73	12.5	134
168	Understanding arsenic dynamics in agronomic systems to predict and prevent uptake by crop plants. *Science of the Total Environment*, **2017**, 581-582, 209-220	10.2	132

167	Temperature Effects on Nickel Sorption Kinetics at the Mineral Water Interface. *Soil Science Society of America Journal*, **2001**, 65, 719-728	2.5	132
166	The impact of stabilization mechanism on the aggregation kinetics of silver nanoparticles. *Science of the Total Environment*, **2012**, 429, 325-31	10.2	129
165	In situ analysis of metal(loid)s in plants: State of the art and artefacts. *Environmental and Experimental Botany*, **2011**, 72, 3-17	5.9	120
164	The Link between Clay Mineral Weathering and the Stabilization of Ni Surface Precipitates. *Environmental Science & Technology*, **1999**, 33, 3140-3144	10.3	120
163	In situ distribution and speciation of toxic copper, nickel, and zinc in hydrated roots of cowpea. *Plant Physiology*, **2011**, 156, 663-73	6.6	118
162	Relative bioavailability and bioaccessibility and speciation of arsenic in contaminated soils. *Environmental Health Perspectives*, **2011**, 119, 1629-34	8.4	116
161	The speciation of silver nanoparticles in antimicrobial fabric before and after exposure to a hypochlorite/detergent solution. *Journal of Environmental Quality*, **2009**, 38, 1528-30	3.4	109
160	Spectroscopic speciation and quantification of lead in phosphate-amended soils. *Journal of Environmental Quality*, **2004**, 33, 1288-95	3.4	107
159	Amending soils with phosphate as means to mitigate soil lead hazard: a critical review of the state of the science. *Journal of Toxicology and Environmental Health - Part B: Critical Reviews*, **2013**, 16, 337-80	8.6	99
158	Changes in silver nanoparticles exposed to human synthetic stomach fluid: effects of particle size and surface chemistry. *Science of the Total Environment*, **2013**, 447, 90-8	10.2	96
157	Synchrotron speciation of silver and zinc oxide nanoparticles aged in a kaolin suspension. *Environmental Science & Technology*, **2010**, 44, 1307-12	10.3	94
156	The New MRCAT (Sector 10) Bending Magnet Beamline at the Advanced Photon Source **2010**,		94
155	Effects of aging and pH on dissolution kinetics and stability of chloropyromorphite. *Environmental Science & Technology*, **2002**, 36, 2198-204	10.3	93
154	In vivo synchrotron study of thallium speciation and compartmentation in Iberis intermedia. *Environmental Science & Technology*, **2004**, 38, 5095-100	10.3	92
153	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	10.3	88
152	Silver speciation and release in commercial antimicrobial textiles as influenced by washing. *Chemosphere*, **2014**, 111, 352-8	8.4	87
151	Speciation and Distribution of Phosphorus in a Fertilized Soil. *Soil Science Society of America Journal* , **2006**, 70, 2038-2048	2.5	87
150	Stability of layered Ni hydroxide surface precipitates: dissolution kinetics study. *Geochimica Et Cosmochimica Acta*, **2000**, 64, 2727-2735	5.5	86

149	In vitro and in vivo approaches for the measurement of oral bioavailability of lead (Pb) in contaminated soils: a review. *Environmental Pollution*, **2011**, 159, 2320-7	9.3	85
148	Fate of zinc and silver engineered nanoparticles in sewerage networks. *Water Research*, **2015**, 77, 72-84	12.5	84
147	Determining speciation of Pb in phosphate-amended soils: method limitations. *Science of the Total Environment*, **2005**, 350, 261-72	10.2	82
146	Macroscopic and molecular investigations of copper sorption by a steam-activated biochar. *Journal of Environmental Quality*, **2012**, 41, 1150-6	3.4	81
145	Selenium adsorption to aluminum-based water treatment residuals. *Journal of Colloid and Interface Science*, **2009**, 338, 48-55	9.3	80
144	Speciation, characterization, and mobility of As, Se, and Hg in flue gas desulphurization residues. *Environmental Science & Technology*, **2008**, 42, 1693-8	10.3	80
143	Wheat straw biochar reduces environmental cadmium bioavailability. *Environment International*, **2019**, 126, 69-75	12.9	76
142	Bioavailability-Based In Situ Remediation To Meet Future Lead (Pb) Standards in Urban Soils and Gardens. *Environmental Science & Technology*, **2015**, 49, 8948-58	10.3	67
141	Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. *Environmental Science: Nano*, **2017**, 4, 448-460	7.1	66
140	Transformation of silver nanoparticles in fresh, aged, and incinerated biosolids. *Water Research*, **2013**, 47, 3878-86	12.5	66
139	Assessment of a sequential extraction procedure for perturbed lead-contaminated samples with and without phosphorus amendments. *Environmental Science & Technology*, **2003**, 37, 1892-8	10.3	66
138	Bioaccessibility of arsenic(V) bound to ferrihydrite using a simulated gastrointestinal system. *Environmental Science & Technology*, **2006**, 40, 1364-70	10.3	65
137	Analytical characterisation of nanoscale zero-valent iron: A methodological review. *Analytica Chimica Acta*, **2016**, 903, 13-35	6.6	63
136	Developing a robust geochemical and reactive transport model to evaluate possible sources of arsenic at the CO2 sequestration natural analog site in Chimayo, New Mexico. *International Journal of Greenhouse Gas Control*, **2012**, 10, 199-214	4.2	61
135	In vivo formation of natural HgSe nanoparticles in the liver and brain of pilot whales. *Scientific Reports*, **2016**, 6, 34361	4.9	59
134	Grain accumulation of selenium species in rice (Oryza sativa L.). *Environmental Science & Technology*, **2012**, 46, 5557-64	10.3	59
133	Key factors controlling the transport of silver nanoparticles in porous media. *Environmental Science & Technology*, **2013**, 47, 4039-45	10.3	59
132	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	7	56

131	Chapter 1 Advances in Assessing Bioavailability of Metal(Loid)s in Contaminated Soils. *Advances in Agronomy*, **2009**, 104, 1-52	7.7	54
130	Remediation of poly- and perfluoroalkyl substances (PFAS) contaminated soils - To mobilize or to immobilize or to degrade?. *Journal of Hazardous Materials*, **2021**, 401, 123892	12.8	54
129	Fate and lability of silver in soils: effect of ageing. *Environmental Pollution*, **2014**, 191, 151-7	9.3	53
128	Toxicity, bioaccumulation, and biotransformation of silver nanoparticles in marine organisms. *Environmental Science & Technology*, **2014**, 48, 13711-7	10.3	50
127	Aging of Dissolved Copper and Copper-based Nanoparticles in Five Different Soils: Short-term Kinetics vs. Long-term Fate. *Journal of Environmental Quality*, **2017**, 46, 1198-1205	3.4	49
126	A multi-technique investigation of copper and zinc distribution, speciation and potential bioavailability in biosolids. *Environmental Pollution*, **2012**, 166, 57-64	9.3	48
125	micro-XANES and micro-XRF investigations of metal binding mechanisms in biosolids. *Journal of Environmental Quality*, **2006**, 35, 342-51	3.4	48
124	Dissolution Kinetics of Nickel Surface Precipitates on Clay Mineral and Oxide Surfaces. *Soil Science Society of America Journal*, **2001**, 65, 685-694	2.5	48
123	Changes in soil bacterial communities and diversity in response to long-term silver exposure. *FEMS Microbiology Ecology*, **2015**, 91,	4.3	47
122	Kinetics of the Formation and Dissolution of Ni Precipitates in a Gibbsite/Amorphous Silica Mixture. *Journal of Colloid and Interface Science*, **2000**, 229, 222-229	9.3	47
121	The impact of silver nanoparticles on the composting of municipal solid waste. *Environmental Science & Technology*, **2013**, 47, 14385-93	10.3	46
120	Speciation mapping of environmental samples using XANES imaging. *Environmental Chemistry*, **2014**, 11, 341	3.2	45
119	In situ formation of pyromorphite is not required for the reduction of in vivo pb relative bioavailability in contaminated soils. *Environmental Science & Technology*, **2014**, 48, 7002-9	10.3	44
118	Identification and distribution of vanadinite (Pb5(V5+O4)3Cl) in lead pipe corrosion by-products. *Environmental Science & Technology*, **2009**, 43, 4412-8	10.3	44
117	Importance of pipe deposits to Lead and Copper Rule compliance. *Journal - American Water Works Association*, **2014**, 106, E336	0.5	43
116	Synchrotron X-ray absorption-edge computed microtomography imaging of thallium compartmentalization in Iberis intermedia. *Plant and Soil*, **2007**, 290, 51-60	4.2	43
115	Influence of in vitro assay pH and extractant composition on As bioaccessibility in contaminated soils. *Science of the Total Environment*, **2014**, 473-474, 171-7	10.2	42
114	A comprehensive framework for evaluating the environmental health and safety implications of engineered nanomaterials. *Critical Reviews in Toxicology*, **2017**, 47, 767-810	5.7	42

113	In vitro formation of pyromorphite via reaction of Pb sources with soft-drink phosphoric acid. *Science of the Total Environment*, **2003**, 302, 253-65	10.2	42
112	Linking solid phase speciation of Pb sequestered to birnessite to oral Pb bioaccessibility: implications for soil remediation. *Environmental Science & Technology*, **2008**, 42, 779-85	10.3	40
111	Synchrotron-Based Techniques Shed Light on Mechanisms of Plant Sensitivity and Tolerance to High Manganese in the Root Environment. *Plant Physiology*, **2015**, 169, 2006-20	6.6	39
110	Non-labile silver species in biosolids remain stable throughout 50 years of weathering and ageing. *Environmental Pollution*, **2015**, 205, 78-86	9.3	38
109	Speciation and distribution of vanadium in drinking water iron pipe corrosion by-products. *Science of the Total Environment*, **2010**, 408, 5845-53	10.2	35
108	Phosphorus-Rich Biochars Can Transform Lead in an Urban Contaminated Soil. *Journal of Environmental Quality*, **2019**, 48, 1091-1099	3.4	34
107	Retention and chemical speciation of uranium in an oxidized wetland sediment from the Savannah River Site. *Journal of Environmental Radioactivity*, **2014**, 131, 40-6	2.4	34
106	Root uptake of lipophilic zinc-rhamnolipid complexes. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 2112-7	5.7	34
105	Spectroscopic evidence of uranium immobilization in acidic wetlands by natural organic matter and plant roots. *Environmental Science & Technology*, **2015**, 49, 2823-32	10.3	33
104	An inhalation-ingestion bioaccessibility assay (IIBA) for the assessment of exposure to metal(loid)s in PM. *Science of the Total Environment*, **2018**, 631-632, 92-104	10.2	32
103	Uranium immobilization in an iron-rich rhizosphere of a native wetland plant from the Savannah River Site under reducing conditions. *Environmental Science & Technology*, **2014**, 48, 9270-8	10.3	31
102	Mouse assay for determination of arsenic bioavailability in contaminated soils. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2013**, 76, 815-26	3.2	31
101	Heavy metal and metalloid concentrations in components of 25 wheat (Triticum aestivum) varieties in the vicinity of lead smelters in Henan province, China. *Environmental Monitoring and Assessment*, **2016**, 188, 23	3.1	30
100	Independent data validation of an in vitro method for the prediction of the relative bioavailability of arsenic in contaminated soils. *Environmental Science & Technology*, **2015**, 49, 6312-8	10.3	29
99	High-iron biosolids compost-induced changes in lead and arsenic speciation and bioaccessibility in co-contaminated soils. *Journal of Environmental Quality*, **2012**, 41, 1612-22	3.4	29
98	The inhibition of Pb(IV) oxide formation in chlorinated water by orthophosphate. *Environmental Science & Technology*, **2009**, 43, 6624-31	10.3	29
97	Temporal and seasonal variations of As, Cd and Pb atmospheric deposition flux in the vicinity of lead smelters in Jiyuan, China. *Atmospheric Pollution Research*, **2016**, 7, 170-179	4.5	29
96	In Situ Fixation of Metal(loid)s in Contaminated Soils: A Comparison of Conventional, Opportunistic, and Engineered Soil Amendments. *Environmental Science & Technology*, **2015**, 49, 13501-9	10.3	28

95	In vivo and in vitro methods for evaluating soil arsenic bioavailability: relevant to human health risk assessment. *Journal of Toxicology and Environmental Health - Part B: Critical Reviews*, **2018**, 21, 83-114	8.6	28
94	Using the mehlich-3 soil test as an inexpensive screening tool to estimate total and bioaccessible lead in urban soils. *Journal of Environmental Quality*, **2013**, 42, 1518-26	3.4	28
93	Surface immobilization of engineered nanomaterials for in situ study of their environmental transformations and fate. *Environmental Science & Technology*, **2013**, 47, 9308-16	10.3	26
92	Predicting oral relative bioavailability of arsenic in soil from in vitro bioaccessibility. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2016**, 79, 165-73	3.2	26
91	Methodological factors influencing inhalation bioaccessibility of metal(loid)s in PM using simulated lung fluid. *Environmental Pollution*, **2018**, 241, 930-937	9.3	25
90	Localization and speciation of arsenic in Glomus intraradices by synchrotron radiation spectroscopic analysis. *Fungal Biology*, **2014**, 118, 444-52	2.8	25
89	Long-Term in Situ Reduction in Soil Lead Bioavailability Measured in a Mouse Model. *Environmental Science & Technology*, **2018**, 52, 13908-13913	10.3	25
88	Anaerobic toxicity of cationic silver nanoparticles. *Science of the Total Environment*, **2016**, 557-558, 363-8	10.2	24
87	Sequestration of U(VI) from Acidic, Alkaline, and High Ionic-Strength Aqueous Media by Functionalized Magnetic Mesoporous Silica Nanoparticles: Capacity and Binding Mechanisms. *Environmental Science & Technology*, **2017**, 51, 14330-14341	10.3	24
86	Characterization and dissolution properties of ruthenium oxides. *Journal of Colloid and Interface Science*, **2011**, 359, 30-9	9.3	24
85	Bioaccessibility of lead sequestered to corundum and ferrihydrite in a simulated gastrointestinal system. *Journal of Environmental Quality*, **2006**, 35, 2075-83	3.4	23
84	Inhalation bioaccessibility of Cd, Cu, Pb and Zn and speciation of Pb in particulate matter fractions from areas with different pollution characteristics in Henan Province, China. *Ecotoxicology and Environmental Safety*, **2019**, 175, 192-200	7	22
83	Iron amendments to reduce bioaccessible arsenic. *Journal of Hazardous Materials*, **2014**, 279, 554-61	12.8	22
82	Phosphorus Amendment Efficacy for In Situ Remediation of Soil Lead Depends on the Bioaccessible Method. *Journal of Environmental Quality*, **2016**, 45, 37-44	3.4	22
81	Predictive Capabilities of in Vitro Assays for Estimating Pb Relative Bioavailability in Phosphate Amended Soils. *Environmental Science & Technology*, **2016**, 50, 13086-13094	10.3	21
80	Mechanisms of Phosphorus Removal by Phosphorus Sorbing Materials. *Journal of Environmental Quality*, **2018**, 47, 1232-1241	3.4	21
79	Advanced in situ spectroscopic techniques and their applications in environmental biogeochemistry: introduction to the special section. *Journal of Environmental Quality*, **2011**, 40, 659-66	3.4	21
78	Complete transformation of ZnO and CuO nanoparticles in culture medium and lymphocyte cells during toxicity testing. *Nanotoxicology*, **2017**, 11, 150-156	5.3	20

77	Lead and Arsenic Bioaccessibility and Speciation as a Function of Soil Particle Size. *Journal of Environmental Quality*, **2017**, 46, 1225-1235	3.4	20
76	Characterization and mechanism of copper biosorption by a highly copper-resistant fungal strain isolated from copper-polluted acidic orchard soil. *Environmental Science and Pollution Research*, **2018**, 25, 24965-24974	5.1	20
75	Strontium concentrations in corrosion products from residential drinking water distribution systems. *Environmental Science & Technology*, **2013**, 47, 5171-7	10.3	20
74	Assessment of arsenic speciation and bioaccessibility in mine-impacted materials. *Journal of Hazardous Materials*, **2016**, 313, 130-7	12.8	20
73	Opportunities and Challenges for Dietary Arsenic Intervention. *Environmental Health Perspectives*, **2018**, 126, 84503	8.4	20
72	Zinc speciation in proximity to phosphate application points in a lead/zinc smelter-contaminated soil. *Journal of Environmental Quality*, **2012**, 41, 1865-73	3.4	19
71	Evidence for Different Reaction Pathways for Liquid and Granular Micronutrients in a Calcareous Soil. *Soil Science Society of America Journal*, **2008**, 72, 98-110	2.5	19
70	Micro-x-ray fluorescence, micro-x-ray absorption spectroscopy, and micro-x-ray diffraction investigation of lead speciation after the addition of different phosphorus amendments to a smelter-contaminated soil. *Journal of Environmental Quality*, **2014**, 43, 488-97	3.4	18
69	The distribution, solid-phase speciation, and desorption/dissolution of As in waste iron-based drinking water treatment residuals. *Chemosphere*, **2006**, 64, 875-80	8.4	18
68	Novel franklinite-like synthetic zinc-ferrite redox nanomaterial: synthesis, and evaluation for degradation of diclofenac in water. *Applied Catalysis B: Environmental*, **2020**, 275, 119098-119098	21.8	18
67	Influence of phosphate amendment and zinc foliar application on heavy metal accumulation in wheat and on soil extractability impacted by a lead smelter near Jiyuan, China. *Environmental Science and Pollution Research*, **2018**, 25, 31396-31406	5.1	18
66	Spatial distribution of smelter emission heavy metals on farmland soil. *Environmental Monitoring and Assessment*, **2019**, 191, 115	3.1	17
65	Arsenic Speciation of Contaminated Soils / Solid Wastes and Relative Oral Bioavailability in Swine and Mice. *Soil Systems*, **2018**, 2, 1-27	3.5	17
64	A one-step delamination procedure to form single sheet iron(III)-(oxy)hydroxides. *Journal of Materials Chemistry A*, **2013**, 1, 13664	13	17
63	Kinetics and Mechanisms of Metal Sorption at the Mineral-Water Interface. *ACS Symposium Series*, **1999**, 108-135	0.4	17
62	Lead Relative Bioavailability in Lip Products and Their Potential Health Risk to Women. *Environmental Science & Technology*, **2016**, 50, 6036-43	10.3	17
61	State of the science review: Potential for beneficial use of waste by-products for remediation of metal-contaminated soil and sediment. *Critical Reviews in Environmental Science and Technology*, **2017**, 47, 65-129	11.1	16
60	Nanosilver as a disinfectant in dental unit waterlines: Assessment of the physicochemical transformations of the AgNPs. *Chemosphere*, **2017**, 173, 245-252	8.4	16

59	Modification of an existing in vitro method to predict relative bioavailable arsenic in soils. *Chemosphere*, **2017**, 180, 545-552	8.4	16
58	Iron mineralogy and uranium-binding environment in the rhizosphere of a wetland soil. *Science of the Total Environment*, **2016**, 569-570, 53-64	10.2	15
57	, and Spectroscopic Assessment of Lead Exposure Reduction via Ingestion and Inhalation Pathways Using Phosphate and Iron Amendments. *Environmental Science & Technology*, **2019**, 53, 10329-10341	10.3	15
56	Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. *Environmental Science: Nano*, **2017**, 4, 448-460	7.1	15
55	Relationship between Pb relative bioavailability and bioaccessibility in phosphate amended soil: Uncertainty associated with predicting Pb immobilization efficacy using in vitro assays. *Environment International*, **2019**, 131, 104967	12.9	14
54	Immobilization of lead in soil influenced by soluble phosphate and calcium: lead speciation evidence. *Journal of Environmental Quality*, **2014**, 43, 468-74	3.4	14
53	Mineralogy and characterization of arsenic, iron, and lead in a mine waste-derived fertilizer. *Environmental Science & Technology*, **2006**, 40, 4874-9	10.3	14
52	Insights into the fate of antimony (Sb) in contaminated soils: Ageing influence on Sb mobility, bioavailability, bioaccessibility and speciation. *Science of the Total Environment*, **2021**, 770, 145354	10.2	14
51	Alterations of lead speciation by sulfate from addition of flue gas desulfurization gypsum (FGDG) in two contaminated soils. *Science of the Total Environment*, **2017**, 575, 1522-1529	10.2	13
50	Marine microbial community response to inorganic and organic sediment amendments in laboratory mesocosms. *Ecotoxicology and Environmental Safety*, **2011**, 74, 1931-41	7	13
49	Stabilizing Effects on a Cd Polluted Coastal Wetland Soil using Calcium Polysulphide. *Geoderma*, **2018**, 332, 190-197	6.7	12
48	Dietary Lead and Phosphate Interactions Affect Oral Bioavailability of Soil Lead in the Mouse. *Environmental Science & Technology*, **2019**, 53, 12556-12564	10.3	12
47	Point of zero charge: Role in pyromorphite formation and bioaccessibility of lead and arsenic in phosphate amended soils. *Soil Systems*, **2018**, 2, 22	3.5	12
46	Dynamics of Lead Bioavailability and Speciation in Indoor Dust and X-ray Spectroscopic Investigation of the Link between Ingestion and Inhalation Pathways. *Environmental Science & Technology*, **2019**, 53, 11486-11495	10.3	11
45	Thioarsenite Detection and Implications for Arsenic Transport in Groundwater. *Environmental Science & Technology*, **2019**, 53, 11684-11693	10.3	11
44	Soil solution interactions may limit Pb remediation using P amendments in an urban soil. *Environmental Pollution*, **2017**, 220, 549-556	9.3	11
43	Pyromorphite formation and stability after quick lime neutralisation in the presence of soil and clay sorbents. *Environmental Chemistry*, **2007**, 4, 109	3.2	11
42	Uranium Redistribution Due to Water Table Fluctuations in Sandy Wetland Mesocosms. *Environmental Science & Technology*, **2015**, 49, 12214-22	10.3	10

41	Delineating landfill leachate discharge to an arsenic contaminated waterway. *Chemosphere*, **2011**, 85, 1525-37	8.4	10
40	Bioaccessibility tests accurately estimate bioavailability of lead to quail. *Environmental Toxicology and Chemistry*, **2016**, 35, 2311-9	3.8	10
39	Can Dynamic Bubble Templating Play a Role in Corrosion Product Morphology?. *Corrosion*, **2012**, 68, 025004-1-025004-9	1.4	9
38	Bioavailable soil Pb minimized by in situ transformation to plumbojarosite. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	9
37	Lead source and bioaccessibility in windowsill dusts within a Pb smelting-affected area. *Environmental Pollution*, **2020**, 266, 115110	9.3	8
36	Bioaccessibility of Arsenic Bound to Corundum Using a Simulated Gastrointestinal System. *Environmental Chemistry*, **2006**, 3, 208	3.2	8
35	Sorption of arsenate and arsenite on RuO2 x xH2O: a spectroscopic and macroscopic study. *Environmental Science & Technology*, **2003**, 37, 2936-40	10.3	8
34	High Lead Bioavailability of Indoor Dust Contaminated with Paint Lead Species. *Environmental Science & Technology*, **2021**, 55, 402-411	10.3	8
33	Chemical characterisation, antibacterial activity, and (nano)silver transformation of commercial personal care products exposed to household greywater. *Environmental Science: Nano*, **2019**, 6, 3027-3038	7.1	7
32	Uranium fate in wetland mesocosms: Effects of plants at two iron loadings with different pH values. *Chemosphere*, **2016**, 163, 116-124	8.4	7
31	Reactive gaseous mercury is generated from chloralkali factories resulting in extreme concentrations of mercury in hair of workers. *Scientific Reports*, **2018**, 8, 3675	4.9	7
30	Lead retention in a calcareous soil influenced by calcium and phosphate amendments. *Journal of Hazardous Materials*, **2013**, 262, 250-5	12.8	7
29	Investigation of copper sorption by sugar beet processing lime waste. *Journal of Environmental Quality*, **2013**, 42, 919-24	3.4	7
28	Lead Speciation and Bioavailability in Apatite-Amended Sediments. *Applied and Environmental Soil Science*, **2011**, 2011, 1-8	3.8	7
27	Comparison of Zn accumulation and speciation in kernels of sweetcorn and maize differing in maturity. *Annals of Botany*, **2020**, 125, 185-193	4.1	7
26	Retention of Nickel in Soils. *Soil Science*, **2013**, 178, 215-221	0.9	6
25	Speciation and bioavailability of zinc in amended sediments. *Chemical Speciation and Bioavailability*, **2011**, 23, 143-154		6
24	Atmospheric deposition of arsenic, cadmium, copper, lead, and zinc near an operating and an abandoned lead smelter. *Journal of Environmental Quality*, **2020**, 49, 1667-1678	3.4	6

23	Evaluating effects of iron on manganese toxicity in soybean and sunflower using synchrotron-based X-ray fluorescence microscopy and X-ray absorption spectroscopy. *Metallomics*, **2019**, 11, 2097-2110	4.5	6
22	Graphene-modified graphite paper cathode for the efficient bioelectrochemical removal of chromium. *Chemical Engineering Journal*, **2021**, 405, 126545-126545	14.7	6
21	Metal(loid) bioaccessibility of atmospheric particulate matter from mine tailings at Zimapan, Mexico. *Environmental Science and Pollution Research*, **2021**, 28, 19458-19472	5.1	6
20	Strontium adsorption and desorption reactions in model drinking water distribution systems **2014**, 63, 449-460		5
19	Lead sorption on ruthenium oxide: a macroscopic and spectroscopic study. *Environmental Science & Technology*, **2004**, 38, 2836-42	10.3	5
18	Soil accumulation and chemical fractions of Cu in a large and long-term coastal apple orchard, North China.. *Journal of Soils and Sediments*, **2020**, 20, 3712-3721	3.4	4
17	Correlation between lead speciation and inhalation bioaccessibility using two different simulated lung fluids. *Environmental Pollution*, **2020**, 263,	9.3	4
16	Relating soil geochemical properties to arsenic bioaccessibility through hierarchical modeling. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2018**, 81, 160-172	3.2	4
15	The Safe Urban Harvests Study: A Community-Driven Cross-Sectional Assessment of Metals in Soil, Irrigation Water, and Produce from Urban Farms and Gardens in Baltimore, Maryland. *Environmental Health Perspectives*, **2021**, 129, 117004	8.4	4
14	Lead speciation, bioaccessibility and source attribution in Missouri's Big River watershed. *Applied Geochemistry*, **2020**, 123,	3.5	4
13	Bioaccessibility of potentially toxic elements in mine residue particles. *Environmental Sciences: Processes and Impacts*, **2021**, 23, 367-380	4.3	4
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