

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

List of Publications by Year in Descending Order

Source:

<https://exaly.com/author-pdf/2072736/kirk-g-scheckel-k-g-scheckel-kirk-scheckel-k-scheckel-publications-by-year.p>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Ingestion of remediated lead-contaminated soils affects the fecal microbiome of mice.. <i>Science of the Total Environment</i> , 2022 , 155797	10.2	0
183	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. <i>Environmental Health Perspectives</i> , 2021 , 129, 117004	8.4	4
182	Plumbojarosite Remediation of Soil Affects Lead Speciation and Elemental Interactions in Soil and in Mice Tissues. <i>Environmental Science & Technology</i> , 2021 , 55, 15950-15960	10.3	2
181	High Lead Bioavailability of Indoor Dust Contaminated with Paint Lead Species. <i>Environmental Science & Technology</i> , 2021 , 55, 402-411	10.3	8
180	Bioavailable soil Pb minimized by in situ transformation to plumbojarosite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
179	Insights into the fate of antimony (Sb) in contaminated soils: Ageing influence on Sb mobility, bioavailability, bioaccessibility and speciation. <i>Science of the Total Environment</i> , 2021 , 770, 145354	10.2	14
178	Nutrient alterations following biochar application to a Cd-contaminated solution and soil.. <i>Biochar</i> , 2021 , 3, 457-468	10	0
177	Graphene-modified graphite paper cathode for the efficient bioelectrochemical removal of chromium. <i>Chemical Engineering Journal</i> , 2021 , 405, 126545-126545	14.7	6
176	Remediation of poly- and perfluoroalkyl substances (PFAS) contaminated soils - To mobilize or to immobilize or to degrade?. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123892	12.8	54
175	Bioaccessibility of potentially toxic elements in mine residue particles. <i>Environmental Sciences: Processes and Impacts</i> , 2021 , 23, 367-380	4.3	4
174	Plumbojarosite formation in contaminated soil to mitigate childhood exposure to lead, arsenic and antimony. <i>Journal of Hazardous Materials</i> , 2021 , 418, 126312	12.8	2
173	Metal(loid) bioaccessibility of atmospheric particulate matter from mine tailings at Zimapan, Mexico. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 19458-19472	5.1	6
172	Soil accumulation and chemical fractions of Cu in a large and long-term coastal apple orchard, North China.. <i>Journal of Soils and Sediments</i> , 2020 , 20, 3712-3721	3.4	4
171	Response to Comment on "Thioarsenite Detection and Implications for Arsenic Transport in Groundwater". <i>Environmental Science & Technology</i> , 2020 , 54, 7732-7733	10.3	
170	Correlation between lead speciation and inhalation bioaccessibility using two different simulated lung fluids. <i>Environmental Pollution</i> , 2020 , 263,	9.3	4
169	Lead source and bioaccessibility in windowsill dusts within a Pb smelting-affected area. <i>Environmental Pollution</i> , 2020 , 266, 115110	9.3	8
168	Novel franklinite-like synthetic zinc-ferrite redox nanomaterial: synthesis, and evaluation for degradation of diclofenac in water. <i>Applied Catalysis B: Environmental</i> , 2020 , 275, 119098-119098	21.8	18

167	Lead speciation, bioaccessibility and source attribution in Missouri's Big River watershed. <i>Applied Geochemistry</i> , 2020 , 123,	3.5	4
166	Comparison of Zn accumulation and speciation in kernels of sweetcorn and maize differing in maturity. <i>Annals of Botany</i> , 2020 , 125, 185-193	4.1	7
165	Atmospheric deposition of arsenic, cadmium, copper, lead, and zinc near an operating and an abandoned lead smelter. <i>Journal of Environmental Quality</i> , 2020 , 49, 1667-1678	3.4	6
164	Dynamics of Lead Bioavailability and Speciation in Indoor Dust and X-ray Spectroscopic Investigation of the Link between Ingestion and Inhalation Pathways. <i>Environmental Science & Technology</i> , 2019 , 53, 11486-11495	10.3	11
163	Chemical characterisation, antibacterial activity, and (nano)silver transformation of commercial personal care products exposed to household greywater. <i>Environmental Science: Nano</i> , 2019 , 6, 3027-3028	7.1	7
162	Thioarsenite Detection and Implications for Arsenic Transport in Groundwater. <i>Environmental Science & Technology</i> , 2019 , 53, 11684-11693	10.3	11
161	Spatial distribution of smelter emission heavy metals on farmland soil. <i>Environmental Monitoring and Assessment</i> , 2019 , 191, 115	3.1	17
160	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. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 175, 192-200	7	22
159	Wheat straw biochar reduces environmental cadmium bioavailability. <i>Environment International</i> , 2019 , 126, 69-75	12.9	76
158	, and Spectroscopic Assessment of Lead Exposure Reduction via Ingestion and Inhalation Pathways Using Phosphate and Iron Amendments. <i>Environmental Science & Technology</i> , 2019 , 53, 10329-10341	10.3	15
157	Phosphorus-Rich Biochars Can Transform Lead in an Urban Contaminated Soil. <i>Journal of Environmental Quality</i> , 2019 , 48, 1091-1099	3.4	34
156	Relationship between Pb relative bioavailability and bioaccessibility in phosphate amended soil: Uncertainty associated with predicting Pb immobilization efficacy using in vitro assays. <i>Environment International</i> , 2019 , 131, 104967	12.9	14
155	Dietary Lead and Phosphate Interactions Affect Oral Bioavailability of Soil Lead in the Mouse. <i>Environmental Science & Technology</i> , 2019 , 53, 12556-12564	10.3	12
154	Evaluating effects of iron on manganese toxicity in soybean and sunflower using synchrotron-based X-ray fluorescence microscopy and X-ray absorption spectroscopy. <i>Metallomics</i> , 2019 , 11, 2097-2110	4.5	6
153	An inhalation-ingestion bioaccessibility assay (IIBA) for the assessment of exposure to metal(loid)s in PM. <i>Science of the Total Environment</i> , 2018 , 631-632, 92-104	10.2	32
152	Relating soil geochemical properties to arsenic bioaccessibility through hierarchical modeling. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2018 , 81, 160-172	3.2	4
151	In vivo and in vitro methods for evaluating soil arsenic bioavailability: relevant to human health risk assessment. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2018 , 21, 83-114	8.6	28
150	Characterization and mechanism of copper biosorption by a highly copper-resistant fungal strain isolated from copper-polluted acidic orchard soil. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 24965-24974	5.1	20

149	Arsenic Speciation of Contaminated Soils / Solid Wastes and Relative Oral Bioavailability in Swine and Mice. <i>Soil Systems</i> , 2018 , 2, 1-27	3.5	17
148	Stabilizing Effects on a Cd Polluted Coastal Wetland Soil using Calcium Polysulphide. <i>Geoderma</i> , 2018 , 332, 190-197	6.7	12
147	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	4.9	7
146	Mechanisms of Phosphorus Removal by Phosphorus Sorbing Materials. <i>Journal of Environmental Quality</i> , 2018 , 47, 1232-1241	3.4	21
145	Methodological factors influencing inhalation bioaccessibility of metal(loid)s in PM using simulated lung fluid. <i>Environmental Pollution</i> , 2018 , 241, 930-937	9.3	25
144	Biogeochemistry of Nickel in Soils, Plants, and the Rhizosphere 2018 , 51-86		1
143	Point of zero charge: Role in pyromorphite formation and bioaccessibility of lead and arsenic in phosphate amended soils. <i>Soil Systems</i> , 2018 , 2, 22	3.5	12
142	Opportunities and Challenges for Dietary Arsenic Intervention. <i>Environmental Health Perspectives</i> , 2018 , 126, 84503	8.4	20
141	Long-Term in Situ Reduction in Soil Lead Bioavailability Measured in a Mouse Model. <i>Environmental Science & Technology</i> , 2018 , 52, 13908-13913	10.3	25
140	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. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 31396-31406	5.1	18
139	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	7	56
138	State of the science review: Potential for beneficial use of waste by-products for remediation of metal-contaminated soil and sediment. <i>Critical Reviews in Environmental Science and Technology</i> , 2017 , 47, 65-129	11.1	16
137	Nanosilver as a disinfectant in dental unit waterlines: Assessment of the physicochemical transformations of the AgNPs. <i>Chemosphere</i> , 2017 , 173, 245-252	8.4	16
136	Understanding arsenic dynamics in agronomic systems to predict and prevent uptake by crop plants. <i>Science of the Total Environment</i> , 2017 , 581-582, 209-220	10.2	132
135	Complete transformation of ZnO and CuO nanoparticles in culture medium and lymphocyte cells during toxicity testing. <i>Nanotoxicology</i> , 2017 , 11, 150-156	5.3	20
134	Lead and Arsenic Bioaccessibility and Speciation as a Function of Soil Particle Size. <i>Journal of Environmental Quality</i> , 2017 , 46, 1225-1235	3.4	20
133	Modification of an existing in vitro method to predict relative bioavailable arsenic in soils. <i>Chemosphere</i> , 2017 , 180, 545-552	8.4	16
132	Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. <i>Environmental Science: Nano</i> , 2017 , 4, 448-460	7.1	66

131	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	3.4	49
130	Sequestration of U(VI) from Acidic, Alkaline, and High Ionic-Strength Aqueous Media by Functionalized Magnetic Mesoporous Silica Nanoparticles: Capacity and Binding Mechanisms. <i>Environmental Science & Technology</i> , 2017 , 51, 14330-14341	10.3	24
129	A comprehensive framework for evaluating the environmental health and safety implications of engineered nanomaterials. <i>Critical Reviews in Toxicology</i> , 2017 , 47, 767-810	5.7	42
128	Alterations of lead speciation by sulfate from addition of flue gas desulfurization gypsum (FGDG) in two contaminated soils. <i>Science of the Total Environment</i> , 2017 , 575, 1522-1529	10.2	13
127	Soil solution interactions may limit Pb remediation using P amendments in an urban soil. <i>Environmental Pollution</i> , 2017 , 220, 549-556	9.3	11
126	Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. <i>Environmental Science: Nano</i> , 2017 , 4, 448-460	7.1	15
125	Uranium fate in wetland mesocosms: Effects of plants at two iron loadings with different pH values. <i>Chemosphere</i> , 2016 , 163, 116-124	8.4	7
124	Cobalamin Concentrations in Fetal Liver Show Gender Differences: A Result from Using a High-Pressure Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry as an Ultratrace Cobalt Speciation Method. <i>Analytical Chemistry</i> , 2016 , 88, 12419-12426	7.8	2
123	Predictive Capabilities of in Vitro Assays for Estimating Pb Relative Bioavailability in Phosphate Amended Soils. <i>Environmental Science & Technology</i> , 2016 , 50, 13086-13094	10.3	21
122	In vivo formation of natural HgSe nanoparticles in the liver and brain of pilot whales. <i>Scientific Reports</i> , 2016 , 6, 34361	4.9	59
121	Iron mineralogy and uranium-binding environment in the rhizosphere of a wetland soil. <i>Science of the Total Environment</i> , 2016 , 569-570, 53-64	10.2	15
120	Analytical characterisation of nanoscale zero-valent iron: A methodological review. <i>Analytica Chimica Acta</i> , 2016 , 903, 13-35	6.6	63
119	Heavy metal and metalloid concentrations in components of 25 wheat (<i>Triticum aestivum</i>) varieties in the vicinity of lead smelters in Henan province, China. <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 23	3.1	30
118	Anaerobic toxicity of cationic silver nanoparticles. <i>Science of the Total Environment</i> , 2016 , 557-558, 363-8	10.2	24
117	Phosphorus Amendment Efficacy for In Situ Remediation of Soil Lead Depends on the Bioaccessible Method. <i>Journal of Environmental Quality</i> , 2016 , 45, 37-44	3.4	22
116	Bioaccessibility tests accurately estimate bioavailability of lead to quail. <i>Environmental Toxicology and Chemistry</i> , 2016 , 35, 2311-9	3.8	10
115	Temporal and seasonal variations of As, Cd and Pb atmospheric deposition flux in the vicinity of lead smelters in Jiyuan, China. <i>Atmospheric Pollution Research</i> , 2016 , 7, 170-179	4.5	29
114	Assessment of arsenic speciation and bioaccessibility in mine-impacted materials. <i>Journal of Hazardous Materials</i> , 2016 , 313, 130-7	12.8	20

113	Lead Relative Bioavailability in Lip Products and Their Potential Health Risk to Women. <i>Environmental Science & Technology</i> , 2016 , 50, 6036-43	10.3	17
112	Predicting oral relative bioavailability of arsenic in soil from in vitro bioaccessibility. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2016 , 79, 165-73	3.2	26
111	Arsenic concentrations and species in three hydrothermal vent worms, <i>Ridgeia piscesae</i> , <i>Paralvinella sulficola</i> and <i>Paralvinella palmiformis</i> . <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016 , 116, 41-48	2.5	3
110	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	10.3	88
109	Bioavailability-Based In Situ Remediation To Meet Future Lead (Pb) Standards in Urban Soils and Gardens. <i>Environmental Science & Technology</i> , 2015 , 49, 8948-58	10.3	67
108	Fate of zinc and silver engineered nanoparticles in sewerage networks. <i>Water Research</i> , 2015 , 77, 72-84	12.5	84
107	Changes in soil bacterial communities and diversity in response to long-term silver exposure. <i>FEMS Microbiology Ecology</i> , 2015 , 91,	4.3	47
106	Uranium Redistribution Due to Water Table Fluctuations in Sandy Wetland Mesocosms. <i>Environmental Science & Technology</i> , 2015 , 49, 12214-22	10.3	10
105	In Situ Fixation of Metal(loid)s in Contaminated Soils: A Comparison of Conventional, Opportunistic, and Engineered Soil Amendments. <i>Environmental Science & Technology</i> , 2015 , 49, 13501-9	10.3	28
104	Independent data validation of an in vitro method for the prediction of the relative bioavailability of arsenic in contaminated soils. <i>Environmental Science & Technology</i> , 2015 , 49, 6312-8	10.3	29
103	Non-labile silver species in biosolids remain stable throughout 50 years of weathering and ageing. <i>Environmental Pollution</i> , 2015 , 205, 78-86	9.3	38
102	Synchrotron-Based Techniques Shed Light on Mechanisms of Plant Sensitivity and Tolerance to High Manganese in the Root Environment. <i>Plant Physiology</i> , 2015 , 169, 2006-20	6.6	39
101	Spectroscopic evidence of uranium immobilization in acidic wetlands by natural organic matter and plant roots. <i>Environmental Science & Technology</i> , 2015 , 49, 2823-32	10.3	33
100	Remediation of heavy metal(loid)s contaminated soils--to mobilize or to immobilize?. <i>Journal of Hazardous Materials</i> , 2014 , 266, 141-66	12.8	1170
99	Toxicity, bioaccumulation, and biotransformation of silver nanoparticles in marine organisms. <i>Environmental Science & Technology</i> , 2014 , 48, 13711-7	10.3	50
98	In situ formation of pyromorphite is not required for the reduction of in vivo pb relative bioavailability in contaminated soils. <i>Environmental Science & Technology</i> , 2014 , 48, 7002-9	10.3	44
97	Uranium immobilization in an iron-rich rhizosphere of a native wetland plant from the Savannah River Site under reducing conditions. <i>Environmental Science & Technology</i> , 2014 , 48, 9270-8	10.3	31
96	Iron amendments to reduce bioaccessible arsenic. <i>Journal of Hazardous Materials</i> , 2014 , 279, 554-61	12.8	22

95	Retention and chemical speciation of uranium in an oxidized wetland sediment from the Savannah River Site. <i>Journal of Environmental Radioactivity</i> , 2014 , 131, 40-6	2.4	34
94	Influence of in vitro assay pH and extractant composition on As bioaccessibility in contaminated soils. <i>Science of the Total Environment</i> , 2014 , 473-474, 171-7	10.2	42
93	Fate and lability of silver in soils: effect of ageing. <i>Environmental Pollution</i> , 2014 , 191, 151-7	9.3	53
92	Silver speciation and release in commercial antimicrobial textiles as influenced by washing. <i>Chemosphere</i> , 2014 , 111, 352-8	8.4	87
91	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. <i>Journal of Environmental Quality</i> , 2014 , 43, 488-97	3.4	18
90	Immobilization of lead in soil influenced by soluble phosphate and calcium: lead speciation evidence. <i>Journal of Environmental Quality</i> , 2014 , 43, 468-74	3.4	14
89	Importance of pipe deposits to Lead and Copper Rule compliance. <i>Journal - American Water Works Association</i> , 2014 , 106, E336	0.5	43
88	Strontium adsorption and desorption reactions in model drinking water distribution systems 2014 , 63, 449-460		5
87	Speciation mapping of environmental samples using XANES imaging. <i>Environmental Chemistry</i> , 2014 , 11, 341	3.2	45
86	Localization and speciation of arsenic in <i>Glomus</i> intraradices by synchrotron radiation spectroscopic analysis. <i>Fungal Biology</i> , 2014 , 118, 444-52	2.8	25
85	Surface immobilization of engineered nanomaterials for in situ study of their environmental transformations and fate. <i>Environmental Science & Technology</i> , 2013 , 47, 9308-16	10.3	26
84	The impact of silver nanoparticles on the composting of municipal solid waste. <i>Environmental Science & Technology</i> , 2013 , 47, 14385-93	10.3	46
83	Changes in silver nanoparticles exposed to human synthetic stomach fluid: effects of particle size and surface chemistry. <i>Science of the Total Environment</i> , 2013 , 447, 90-8	10.2	96
82	Transformation of four silver/silver chloride nanoparticles during anaerobic treatment of wastewater and post-processing of sewage sludge. <i>Environmental Pollution</i> , 2013 , 176, 193-7	9.3	169
81	Evaluation of a low-cost commercially available extraction device for assessing lead bioaccessibility in contaminated soils. <i>Environmental Sciences: Processes and Impacts</i> , 2013 , 15, 573-8	4.3	2
80	A one-step delamination procedure to form single sheet iron(III)-(oxy)hydroxides. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13664	13	17
79	Lead retention in a calcareous soil influenced by calcium and phosphate amendments. <i>Journal of Hazardous Materials</i> , 2013 , 262, 250-5	12.8	7
78	Transformation of silver nanoparticles in fresh, aged, and incinerated biosolids. <i>Water Research</i> , 2013 , 47, 3878-86	12.5	66

77	Mouse assay for determination of arsenic bioavailability in contaminated soils. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2013 , 76, 815-26	3.2	31
76	Key factors controlling the transport of silver nanoparticles in porous media. <i>Environmental Science & Technology</i> , 2013 , 47, 4039-45	10.3	59
75	Strontium concentrations in corrosion products from residential drinking water distribution systems. <i>Environmental Science & Technology</i> , 2013 , 47, 5171-7	10.3	20
74	Retention of Nickel in Soils. <i>Soil Science</i> , 2013 , 178, 215-221	0.9	6
73	Amending soils with phosphate as means to mitigate soil lead hazard: a critical review of the state of the science. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2013 , 16, 337-80	8.6	99
72	Investigation of copper sorption by sugar beet processing lime waste. <i>Journal of Environmental Quality</i> , 2013 , 42, 919-24	3.4	7
71	Using the mehlich-3 soil test as an inexpensive screening tool to estimate total and bioaccessible lead in urban soils. <i>Journal of Environmental Quality</i> , 2013 , 42, 1518-26	3.4	28
70	A multi-technique investigation of copper and zinc distribution, speciation and potential bioavailability in biosolids. <i>Environmental Pollution</i> , 2012 , 166, 57-64	9.3	48
69	The impact of stabilization mechanism on the aggregation kinetics of silver nanoparticles. <i>Science of the Total Environment</i> , 2012 , 429, 325-31	10.2	129
68	Grain accumulation of selenium species in rice (<i>Oryza sativa</i> L.). <i>Environmental Science & Technology</i> , 2012 , 46, 5557-64	10.3	59
67	Developing a robust geochemical and reactive transport model to evaluate possible sources of arsenic at the CO ₂ sequestration natural analog site in Chimayo, New Mexico. <i>International Journal of Greenhouse Gas Control</i> , 2012 , 10, 199-214	4.2	61
66	Fate of zinc oxide nanoparticles during anaerobic digestion of wastewater and post-treatment processing of sewage sludge. <i>Environmental Science & Technology</i> , 2012 , 46, 9089-96	10.3	175
65	High-iron biosolids compost-induced changes in lead and arsenic speciation and bioaccessibility in co-contaminated soils. <i>Journal of Environmental Quality</i> , 2012 , 41, 1612-22	3.4	29
64	Macroscopic and molecular investigations of copper sorption by a steam-activated biochar. <i>Journal of Environmental Quality</i> , 2012 , 41, 1150-6	3.4	81
63	Zinc speciation in proximity to phosphate application points in a lead/zinc smelter-contaminated soil. <i>Journal of Environmental Quality</i> , 2012 , 41, 1865-73	3.4	19
62	Can Dynamic Bubble Templating Play a Role in Corrosion Product Morphology?. <i>Corrosion</i> , 2012 , 68, 025004-1-025004-9	10.4	9
61	Marine microbial community response to inorganic and organic sediment amendments in laboratory mesocosms. <i>Ecotoxicology and Environmental Safety</i> , 2011 , 74, 1931-41	7	13
60	Advanced in situ spectroscopic techniques and their applications in environmental biogeochemistry: introduction to the special section. <i>Journal of Environmental Quality</i> , 2011 , 40, 659-66	3.4	21

59	Relative bioavailability and bioaccessibility and speciation of arsenic in contaminated soils. <i>Environmental Health Perspectives</i> , 2011 , 119, 1629-34	8.4	116
58	Lead Speciation and Bioavailability in Apatite-Amended Sediments. <i>Applied and Environmental Soil Science</i> , 2011 , 2011, 1-8	3.8	7
57	Speciation and bioavailability of zinc in amended sediments. <i>Chemical Speciation and Bioavailability</i> , 2011 , 23, 143-154		6
56	Phloem transport of arsenic species from flag leaf to grain during grain filling. <i>New Phytologist</i> , 2011 , 192, 87-98	9.8	146
55	In situ analysis of metal(loid)s in plants: State of the art and artefacts. <i>Environmental and Experimental Botany</i> , 2011 , 72, 3-17	5.9	120
54	In vitro and in vivo approaches for the measurement of oral bioavailability of lead (Pb) in contaminated soils: a review. <i>Environmental Pollution</i> , 2011 , 159, 2320-7	9.3	85
53	Delineating landfill leachate discharge to an arsenic contaminated waterway. <i>Chemosphere</i> , 2011 , 85, 1525-37	8.4	10
52	Surface charge-dependent toxicity of silver nanoparticles. <i>Environmental Science & Technology</i> , 2011 , 45, 283-7	10.3	637
51	Characterization and dissolution properties of ruthenium oxides. <i>Journal of Colloid and Interface Science</i> , 2011 , 359, 30-9	9.3	24
50	In situ distribution and speciation of toxic copper, nickel, and zinc in hydrated roots of cowpea. <i>Plant Physiology</i> , 2011 , 156, 663-73	6.6	118
49	Environmental Research at the Advanced Photon Source. <i>Synchrotron Radiation News</i> , 2010 , 23, 20-27	0.6	1
48	Role of Synchrotron Techniques in USEPA Regulatory and Remediation Decisions. <i>Developments in Soil Science</i> , 2010 , 34, 147-169	1.3	2
47	Synchrotron speciation of silver and zinc oxide nanoparticles aged in a kaolin suspension. <i>Environmental Science & Technology</i> , 2010 , 44, 1307-12	10.3	94
46	Arsenic sorption on TiO ₂ nanoparticles: size and crystallinity effects. <i>Water Research</i> , 2010 , 44, 965-73	12.5	134
45	Grain unloading of arsenic species in rice. <i>Plant Physiology</i> , 2010 , 152, 309-19	6.6	231
44	The New MRCAT (Sector 10) Bending Magnet Beamline at the Advanced Photon Source 2010 ,		94
43	Impact of environmental conditions (pH, ionic strength, and electrolyte type) on the surface charge and aggregation of silver nanoparticles suspensions. <i>Environmental Science & Technology</i> , 2010 , 44, 1260-6	10.3	833
42	An evidence-based environmental perspective of manufactured silver nanoparticle in syntheses and applications: a systematic review and critical appraisal of peer-reviewed scientific papers. <i>Science of the Total Environment</i> , 2010 , 408, 999-1006	10.2	582

41	Speciation and distribution of vanadium in drinking water iron pipe corrosion by-products. <i>Science of the Total Environment</i> , 2010 , 408, 5845-53	10.2	35
40	Selenium characterization in the global rice supply chain. <i>Environmental Science & Technology</i> , 2009 , 43, 6024-30	10.3	162
39	Speciation and distribution of arsenic and localization of nutrients in rice grains. <i>New Phytologist</i> , 2009 , 184, 193-201	9.8	202
38	Selenium adsorption to aluminum-based water treatment residuals. <i>Journal of Colloid and Interface Science</i> , 2009 , 338, 48-55	9.3	80
37	Identification and distribution of vanadinite (Pb ₅ (V ₅ +O ₄) ₃ Cl) in lead pipe corrosion by-products. <i>Environmental Science & Technology</i> , 2009 , 43, 4412-8	10.3	44
36	The inhibition of Pb(IV) oxide formation in chlorinated water by orthophosphate. <i>Environmental Science & Technology</i> , 2009 , 43, 6624-31	10.3	29
35	Chapter 1 Advances in Assessing Bioavailability of Metal(Loid)s in Contaminated Soils. <i>Advances in Agronomy</i> , 2009 , 104, 1-52	7.7	54
34	The speciation of silver nanoparticles in antimicrobial fabric before and after exposure to a hypochlorite/detergent solution. <i>Journal of Environmental Quality</i> , 2009 , 38, 1528-30	3.4	109
33	Speciation and localization of arsenic in white and brown rice grains. <i>Environmental Science & Technology</i> , 2008 , 42, 1051-7	10.3	284
32	Speciation, characterization, and mobility of As, Se, and Hg in flue gas desulphurization residues. <i>Environmental Science & Technology</i> , 2008 , 42, 1693-8	10.3	80
31	Linking solid phase speciation of Pb sequestered to birnessite to oral Pb bioaccessibility: implications for soil remediation. <i>Environmental Science & Technology</i> , 2008 , 42, 779-85	10.3	40
30	Root uptake of lipophilic zinc-rhamnolipid complexes. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 2112-7	5.7	34
29	Evidence for Different Reaction Pathways for Liquid and Granular Micronutrients in a Calcareous Soil. <i>Soil Science Society of America Journal</i> , 2008 , 72, 98-110	2.5	19
28	Arsenate adsorption on ruthenium oxides: A spectroscopic and kinetic investigation. <i>Journal of Colloid and Interface Science</i> , 2008 , 325, 23-30	9.3	3
27	Synchrotron X-ray absorption-edge computed microtomography imaging of thallium compartmentalization in <i>Iberis intermedia</i> . <i>Plant and Soil</i> , 2007 , 290, 51-60	4.2	43
26	Pyromorphite formation and stability after quick lime neutralisation in the presence of soil and clay sorbents. <i>Environmental Chemistry</i> , 2007 , 4, 109	3.2	11
25	XAS and XPS characterization of mercury binding on brominated activated carbon. <i>Environmental Science & Technology</i> , 2007 , 41, 1747-52	10.3	232
24	Mineralogy and characterization of arsenic, iron, and lead in a mine waste-derived fertilizer. <i>Environmental Science & Technology</i> , 2006 , 40, 4874-9	10.3	14

23	Bioaccessibility of arsenic(V) bound to ferrihydrite using a simulated gastrointestinal system. <i>Environmental Science & Technology</i> , 2006 , 40, 1364-70	10.3	65
22	The distribution, solid-phase speciation, and desorption/dissolution of As in waste iron-based drinking water treatment residuals. <i>Chemosphere</i> , 2006 , 64, 875-80	8.4	18
21	Bioaccessibility of lead sequestered to corundum and ferrihydrite in a simulated gastrointestinal system. <i>Journal of Environmental Quality</i> , 2006 , 35, 2075-83	3.4	23
20	Bioaccessibility of Arsenic Bound to Corundum Using a Simulated Gastrointestinal System. <i>Environmental Chemistry</i> , 2006 , 3, 208	3.2	8
19	micro-XANES and micro-XRF investigations of metal binding mechanisms in biosolids. <i>Journal of Environmental Quality</i> , 2006 , 35, 342-51	3.4	48
18	Speciation and Distribution of Phosphorus in a Fertilized Soil. <i>Soil Science Society of America Journal</i> , 2006 , 70, 2038-2048	2.5	87
17	Methods for speciation of metals in soils: a review. <i>Journal of Environmental Quality</i> , 2005 , 34, 1707-45	3.4	176
16	Determining speciation of Pb in phosphate-amended soils: method limitations. <i>Science of the Total Environment</i> , 2005 , 350, 261-72	10.2	82
15	Spectroscopic speciation and quantification of lead in phosphate-amended soils. <i>Journal of Environmental Quality</i> , 2004 , 33, 1288-95	3.4	107
14	Toxic Metals in the Environment: Thermodynamic Considerations for Possible Immobilization Strategies for Pb, Cd, As, and Hg. <i>Critical Reviews in Environmental Science and Technology</i> , 2004 , 34, 495-604	11.1	179
13	Reducing children's risk from lead in soil. <i>Environmental Science & Technology</i> , 2004 , 38, 18A-24A	10.3	142
12	Lead sorption on ruthenium oxide: a macroscopic and spectroscopic study. <i>Environmental Science & Technology</i> , 2004 , 38, 2836-42	10.3	5
11	In vivo synchrotron study of thallium speciation and compartmentation in Iberis intermedia. <i>Environmental Science & Technology</i> , 2004 , 38, 5095-100	10.3	92
10	In vitro formation of pyromorphite via reaction of Pb sources with soft-drink phosphoric acid. <i>Science of the Total Environment</i> , 2003 , 302, 253-65	10.2	42
9	Assessment of a sequential extraction procedure for perturbed lead-contaminated samples with and without phosphorus amendments. <i>Environmental Science & Technology</i> , 2003 , 37, 1892-8	10.3	66
8	Sorption of arsenate and arsenite on RuO ₂ · xH ₂ O: a spectroscopic and macroscopic study. <i>Environmental Science & Technology</i> , 2003 , 37, 2936-40	10.3	8
7	Effects of aging and pH on dissolution kinetics and stability of chloropyromorphite. <i>Environmental Science & Technology</i> , 2002 , 36, 2198-204	10.3	93
6	Temperature Effects on Nickel Sorption Kinetics at the Mineral-Water Interface. <i>Soil Science Society of America Journal</i> , 2001 , 65, 719-728	2.5	132

5	Dissolution Kinetics of Nickel Surface Precipitates on Clay Mineral and Oxide Surfaces. <i>Soil Science Society of America Journal</i> , 2001 , 65, 685-694	2.5	48
4	Kinetics of the Formation and Dissolution of Ni Precipitates in a Gibbsite/Amorphous Silica Mixture. <i>Journal of Colloid and Interface Science</i> , 2000 , 229, 222-229	9.3	47
3	Stability of layered Ni hydroxide surface precipitates—dissolution kinetics study. <i>Geochimica Et Cosmochimica Acta</i> , 2000 , 64, 2727-2735	5.5	86
2	The Link between Clay Mineral Weathering and the Stabilization of Ni Surface Precipitates. <i>Environmental Science & Technology</i> , 1999 , 33, 3140-3144	10.3	120
1	Kinetics and Mechanisms of Metal Sorption at the Mineral-Water Interface. <i>ACS Symposium Series</i> , 1999 , 108-135	0.4	17