

# Jose R Peralta-Videa

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5948657/jose-r-peralta-vidia-publications-by-year.pdf>

**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.

195  
papers

15,802  
citations

68  
h-index

122  
g-index

200  
ext. papers

17,409  
ext. citations

7  
avg, IF

6.67  
L-index

#	Paper	IF	Citations
195	Nanoparticles as a potential protective agent for arsenic toxicity alleviation in plants.. <i>Environmental Pollution</i> , <b>2022</b> , 118887	9.3	5
194	A comprehensive study of selenium and cerium oxide nanoparticles on mung bean: Individual and synergistic effect on photosynthesis pigments, antioxidants, and dry matter accumulation.. <i>Science of the Total Environment</i> , <b>2022</b> , 154837	10.2	2
193	Nano-priming: the impression on the hidden half. <i>Plant Stress</i> , <b>2022</b> , 100091		2
192	Silicon nano forms in crop improvement and stress management. <i>Chemosphere</i> , <b>2022</b> , 135165	8.4	1
191	Silica nanoparticles: the rising star in plant disease protection. <i>Trends in Plant Science</i> , <b>2021</b> ,	13.1	7
190	Soil-aged nano titanium dioxide effects on full-grown carrot: Dose and surface-coating dependent improvements on growth and nutrient quality. <i>Science of the Total Environment</i> , <b>2021</b> , 774, 145699	10.2	6
189	Effects of nano-enabled agricultural strategies on food quality: Current knowledge and future research needs. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 401, 123385	12.8	33
188	Effects of different surface-coated nTiO on full-grown carrot plants: Impacts on root splitting, essential elements, and Ti uptake. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123768	12.8	11
187	Effects of Engineered Nanoparticles at Various Growth Stages of Crop Plants. <i>Nanotechnology in the Life Sciences</i> , <b>2021</b> , 209-229	1.1	
186	Soil-Weathered CuO Nanoparticles Compromise Foliar Health and Pigment Production in Spinach (). <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 13504-13512	10.3	4
185	Hydrogen sulfide (HS) underpins the beneficial silicon effects against the copper oxide nanoparticles (CuO NPs) phytotoxicity in <i>Oryza sativa</i> seedlings. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 415, 124907	12.8	13
184	Selenite bioreduction and biosynthesis of selenium nanoparticles by <i>Bacillus paramycoides</i> SP3 isolated from coal mine overburden leachate. <i>Environmental Pollution</i> , <b>2021</b> , 285, 117519	9.3	12
183	Recent insights into the impact, fate and transport of cerium oxide nanoparticles in the plant-soil continuum. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 221, 112403	7	8
182	Responses of Terrestrial Plants to Metallic Nanomaterial Exposure: Mechanistic Insights, Emerging Technologies, and New Research Avenues. <i>Nanotechnology in the Life Sciences</i> , <b>2021</b> , 165-191	1.1	1
181	Bok choy ( <i>Brassica rapa</i> ) grown in copper oxide nanoparticles-amended soils exhibits toxicity in a phenotype-dependent manner: Translocation, biodistribution and nutritional disturbance. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 398, 122978	12.8	24
180	Nutritional Status of Tomato () Fruit Grown in -Infested Soil: Impact of Cerium Oxide Nanoparticles. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 1986-1997	5.7	34
179	Improvement of nutrient elements and allicin content in green onion ( <i>Allium fistulosum</i> ) plants exposed to CuO nanoparticles. <i>Science of the Total Environment</i> , <b>2020</b> , 725, 138387	10.2	38

178	Manganese Nanoparticles Control Salinity-Modulated Molecular Responses in Capsicum annum L. through Priming: A Sustainable Approach for Agriculture. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1427-1436	8.3	52
177	A comparative metagenomic and spectroscopic analysis of soils from an international point of entry between the US and Mexico. <i>Environment International</i> , <b>2019</b> , 123, 558-566	12.9	11
176	C60 Fullerenols Enhance Copper Toxicity and Alter the Leaf Metabolite and Protein Profile in Cucumber. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 2171-2180	10.3	33
175	Fate of engineered nanomaterials in agroenvironments and impacts on agroecosystems <b>2019</b> , 105-142		5
174	Interaction of nanomaterials in secondary metabolites accumulation, photosynthesis, and nitrogen fixation in plant systems. <i>Comprehensive Analytical Chemistry</i> , <b>2019</b> , 84, 55-74	1.9	4
173	Recent advances in nano-enabled fertilizers and pesticides: a critical review of mechanisms of action. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 2002-2030	7.1	177
172	Differential physiological and biochemical impacts of nano vs micron Cu at two phenological growth stages in bell pepper ( <i>Capsicum annum</i> ) plant. <i>NanoImpact</i> , <b>2019</b> , 14, 100161	5.6	14
171	Biochemical and physiological effects of copper compounds/nanoparticles on sugarcane ( <i>Saccharum officinarum</i> ). <i>Science of the Total Environment</i> , <b>2019</b> , 649, 554-562	10.2	19
170	Copper oxide nanoparticles and bulk copper oxide, combined with indole-3-acetic acid, alter aluminum, boron, and iron in <i>Pisum sativum</i> seeds. <i>Science of the Total Environment</i> , <b>2018</b> , 634, 1238-1245	10.2	16
169	Environmental behavior of coated NMs: Physicochemical aspects and plant interactions. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 347, 196-217	12.8	28
168	Interaction of titanium dioxide nanoparticles with soil components and plants: current knowledge and future research needs a critical review. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 257-278	7.1	107
167	Effects of the exposure of TiO nanoparticles on basil ( <i>Ocimum basilicum</i> ) for two generations. <i>Science of the Total Environment</i> , <b>2018</b> , 636, 240-248	10.2	27
166	Foliar Exposure of Cu(OH) Nanopesticide to Basil ( <i>Ocimum basilicum</i> ): Variety-Dependent Copper Translocation and Biochemical Responses. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 3358-3366	5.7	34
165	Impacts of copper oxide nanoparticles on bell pepper ( <i>Capsicum annum L.</i> ) plants: a full life cycle study. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 83-95	7.1	67
164	Two-Photon Microscopy and Spectroscopy Studies to Determine the Mechanism of Copper Oxide Nanoparticle Uptake by Sweetpotato Roots during Postharvest Treatment. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 9954-9963	10.3	17
163	Different forms of copper and kinetin impacted element accumulation and macromolecule contents in kidney bean ( <i>Phaseolus vulgaris</i> ) seeds. <i>Science of the Total Environment</i> , <b>2018</b> , 636, 1534-1540	10.2	12
162	Factors affecting fate and transport of engineered nanomaterials in terrestrial environments. <i>Current Opinion in Environmental Science and Health</i> , <b>2018</b> , 6, 47-53	8.1	18
161	Availability and Risk Assessment of Nanoparticles in Living Systems <b>2018</b> , 1-31		7

160	Metabolomics Reveals How Cucumber ( <i>Cucumis sativus</i> ) Reprograms Metabolites To Cope with Silver Ions and Silver Nanoparticle-Induced Oxidative Stress. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 8016-8026	10.3	108
159	Finding the conditions for the beneficial use of ZnO nanoparticles towards plants-A review. <i>Environmental Pollution</i> , <b>2018</b> , 241, 1175-1181	9.3	75
158	Differential effects of copper nanoparticles/microparticles in agronomic and physiological parameters of oregano ( <i>Origanum vulgare</i> ). <i>Science of the Total Environment</i> , <b>2018</b> , 618, 306-312	10.2	48
157	Toxicity of copper hydroxide nanoparticles, bulk copper hydroxide, and ionic copper to alfalfa plants: A spectroscopic and gene expression study. <i>Environmental Pollution</i> , <b>2018</b> , 243, 703-712	9.3	34
156	ZnO nanoparticles increase photosynthetic pigments and decrease lipid peroxidation in soil grown cilantro ( <i>Coriandrum sativum</i> ). <i>Plant Physiology and Biochemistry</i> , <b>2018</b> , 132, 120-127	5.4	58
155	Plant uptake and translocation of contaminants of emerging concern in soil. <i>Science of the Total Environment</i> , <b>2018</b> , 636, 1585-1596	10.2	100
154	Role of Cerium Compounds in Fusarium Wilt Suppression and Growth Enhancement in Tomato ( <i>Solanum lycopersicum</i> ). <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 5959-5970	5.7	65
153	Minimal Transgenerational Effect of ZnO Nanomaterials on the Physiology and Nutrient Profile of <i>Phaseolus vulgaris</i> . <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 7924-7930	8.3	22
152	Exposure of engineered nanomaterials to plants: Insights into the physiological and biochemical responses-A review. <i>Plant Physiology and Biochemistry</i> , <b>2017</b> , 110, 236-264	5.4	240
151	Nutritional quality assessment of tomato fruits after exposure to uncoated and citric acid coated cerium oxide nanoparticles, bulk cerium oxide, cerium acetate and citric acid. <i>Plant Physiology and Biochemistry</i> , <b>2017</b> , 110, 100-107	5.4	43
150	Interaction of metal oxide nanoparticles with higher terrestrial plants: Physiological and biochemical aspects. <i>Plant Physiology and Biochemistry</i> , <b>2017</b> , 110, 210-225	5.4	183
149	Surface coating changes the physiological and biochemical impacts of nano-TiO in basil ( <i>Ocimum basilicum</i> ) plants. <i>Environmental Pollution</i> , <b>2017</b> , 222, 64-72	9.3	49
148	Comparison of the effects of commercial coated and uncoated ZnO nanomaterials and Zn compounds in kidney bean ( <i>Phaseolus vulgaris</i> ) plants. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 332, 214-222 <sup>12.8</sup>	12.8	47
147	Modulation of CuO nanoparticles toxicity to green pea ( <i>Pisum sativum</i> Fabaceae) by the phytohormone indole-3-acetic acid. <i>Science of the Total Environment</i> , <b>2017</b> , 598, 513-524	10.2	37
146	Assessing plant uptake and transport mechanisms of engineered nanomaterials from soil. <i>MRS Bulletin</i> , <b>2017</b> , 42, 379-384	3.2	26
145	Effect of ZnO nanoparticles on corn seedlings at different temperatures; X-ray absorption spectroscopy and ICP/OES studies. <i>Microchemical Journal</i> , <b>2017</b> , 134, 54-61	4.8	26
144	Comparative environmental fate and toxicity of copper nanomaterials. <i>NanoImpact</i> , <b>2017</b> , 7, 28-40	5.6	208
143	Physiological and biochemical effects of nanoparticulate copper, bulk copper, copper chloride, and kinetin in kidney bean ( <i>Phaseolus vulgaris</i> ) plants. <i>Science of the Total Environment</i> , <b>2017</b> , 599-600, 2085-2094 <sup>10.2</sup>	10.2	43

142	Nutritional quality of bean seeds harvested from plants grown in different soils amended with coated and uncoated zinc oxide nanomaterials. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 2336-2347	7.1	21
141	Terrestrial Nanotoxicology: Evaluating the Nano-Biointeractions in Vascular Plants. <i>Nanomedicine and Nanotoxicology</i> , <b>2017</b> , 21-42	0.3	2
140	Effects of Surface Coating on the Bioactivity of Metal-Based Engineered Nanoparticles: Lessons Learned from Higher Plants. <i>Nanomedicine and Nanotoxicology</i> , <b>2017</b> , 43-61	0.3	3
139	Elevated CO levels modify TiO nanoparticle effects on rice and soil microbial communities. <i>Science of the Total Environment</i> , <b>2017</b> , 578, 408-416	10.2	46
138	Physiological and biochemical responses of sunflower ( <i>Helianthus annuus</i> L.) exposed to nano-CeO and excess boron: Modulation of boron phytotoxicity. <i>Plant Physiology and Biochemistry</i> , <b>2017</b> , 110, 50-58	5.4	48
137	Foliar applied nanoscale and microscale CeO <sub>2</sub> and CuO alter cucumber ( <i>Cucumis sativus</i> ) fruit quality. <i>Science of the Total Environment</i> , <b>2016</b> , 563-564, 904-11	10.2	100
136	Biophysical Methods of Detection and Quantification of Uptake, Translocation, and Accumulation of Nanoparticles <b>2016</b> , 29-63		
135	Lessons learned: Are engineered nanomaterials toxic to terrestrial plants?. <i>Science of the Total Environment</i> , <b>2016</b> , 568, 470-479	10.2	110
134	Soil organic matter influences cerium translocation and physiological processes in kidney bean plants exposed to cerium oxide nanoparticles. <i>Science of the Total Environment</i> , <b>2016</b> , 569-570, 201-211	10.2	56
133	Interactions between CeO <sub>2</sub> Nanoparticles and the Desert Plant Mesquite: A Spectroscopy Approach. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 1187-1192	8.3	45
132	Cerium Biomagnification in a Terrestrial Food Chain: Influence of Particle Size and Growth Stage. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 6782-92	10.3	73
131	Effects of uncoated and citric acid coated cerium oxide nanoparticles, bulk cerium oxide, cerium acetate, and citric acid on tomato plants. <i>Science of the Total Environment</i> , <b>2016</b> , 563-564, 956-64	10.2	97
130	Effects of Silver Nanoparticles on Radish Sprouts: Root Growth Reduction and Modifications in the Nutritional Value. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 90	6.2	128
129	Effects and Uptake of Nanoparticles in Plants <b>2016</b> , 386-408		2
128	Plant-based green synthesis of metallic nanoparticles: scientific curiosity or a realistic alternative to chemical synthesis?. <i>Nanotechnology for Environmental Engineering</i> , <b>2016</b> , 1, 1	5.1	112
127	Adsorption of Arsenic(V) Oxyanion from Aqueous Solutions by Using Protonated Chitosan Flakes. <i>Separation Science and Technology</i> , <b>2015</b> , 150615133810006	2.5	2
126	Physiological and biochemical response of soil-grown barley ( <i>Hordeum vulgare</i> L.) to cerium oxide nanoparticles. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 10551-8	5.1	125
125	Environmental Effects of Nanoceria on Seed Production of Common Bean ( <i>Phaseolus vulgaris</i> ): A Proteomic Analysis. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 13283-93	10.3	77

124	Copper nanoparticles/compounds impact agronomic and physiological parameters in cilantro ( <i>Coriandrum sativum</i> ). <i>Environmental Sciences: Processes and Impacts</i> , <b>2015</b> , 17, 1783-93	4.3	101
123	Physiological and Biochemical Changes Imposed by CeO <sub>2</sub> Nanoparticles on Wheat: A Life Cycle Field Study. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 11884-93	10.3	134
122	Toxic effects of copper-based nanoparticles or compounds to lettuce ( <i>Lactuca sativa</i> ) and alfalfa ( <i>Medicago sativa</i> ). <i>Environmental Sciences: Processes and Impacts</i> , <b>2015</b> , 17, 177-85	4.3	173
121	Synthesis of protonated chitosan flakes for the removal of vanadium(III, IV and V) oxyanions from aqueous solutions. <i>Microchemical Journal</i> , <b>2015</b> , 118, 1-11	4.8	56
120	Differential effects of cerium oxide nanoparticles on rice, wheat, and barley roots: a fourier transform infrared (FT-IR) microspectroscopy study. <i>Applied Spectroscopy</i> , <b>2015</b> , 69, 287-95	3.1	44
119	Comparative phytotoxicity of ZnO NPs, bulk ZnO, and ionic zinc onto the alfalfa plants symbiotically associated with <i>Sinorhizobium meliloti</i> in soil. <i>Science of the Total Environment</i> , <b>2015</b> , 515-516, 60-9	10.2	132
118	Monitoring the environmental effects of CeO <sub>2</sub> and ZnO nanoparticles through the life cycle of corn ( <i>Zea mays</i> ) plants and in situ EXRF mapping of nutrients in kernels. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 2921-8	10.3	148
117	Differential Toxicity of Bare and Hybrid ZnO Nanoparticles in Green Pea ( <i>Pisum sativum</i> L.): A Life Cycle Study. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 1242	6.2	59
116	Evidence of translocation and physiological impacts of foliar applied CeO <sub>2</sub> nanoparticles on cucumber ( <i>Cucumis sativus</i> ) plants. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 4376-85	10.3	215
115	Exposure studies of core-shell Fe/Fe <sub>3</sub> O <sub>4</sub> and Cu/CuO NPs to lettuce ( <i>Lactuca sativa</i> ) plants: Are they a potential physiological and nutritional hazard?. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 267, 255-63	12.8	173
114	Cerium oxide nanoparticles alter the antioxidant capacity but do not impact tuber ionome in <i>Raphanus sativus</i> (L). <i>Plant Physiology and Biochemistry</i> , <b>2014</b> , 84, 277-285	5.4	91
113	A soil mediated phyto-toxicological study of iron doped zinc oxide nanoparticles (Fe@ZnO) in green peas ( <i>Pisum sativum</i> L.). <i>Chemical Engineering Journal</i> , <b>2014</b> , 258, 394-401	14.7	45
112	Cerium oxide nanoparticles impact yield and modify nutritional parameters in wheat ( <i>Triticum aestivum</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 9669-75	5.7	159
111	Supported and unsupported nanomaterials for water and soil remediation: are they a useful solution for worldwide pollution?. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 280, 487-503	12.8	143
110	Random amplified polymorphic DNA reveals that TiO <sub>2</sub> nanoparticles are genotoxic to <i>Cucurbita pepo</i> . <i>Journal of Zhejiang University: Science A</i> , <b>2014</b> , 15, 618-623	2.1	33
109	Cerium dioxide and zinc oxide nanoparticles alter the nutritional value of soil cultivated soybean plants. <i>Plant Physiology and Biochemistry</i> , <b>2014</b> , 80, 128-35	5.4	144
108	CeO <sub>2</sub> and ZnO nanoparticles change the nutritional qualities of cucumber ( <i>Cucumis sativus</i> ). <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 2752-9	5.7	216
107	Physiological effects of nanoparticulate ZnO in green peas ( <i>Pisum sativum</i> L.) cultivated in soil. <i>Metallomics</i> , <b>2014</b> , 6, 132-8	4.5	178

106	Exposure of cerium oxide nanoparticles to kidney bean shows disturbance in the plant defense mechanisms. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 278, 279-87	12.8	134
105	Effects of copper sulfate on seedlings of <i>Prosopis pubescens</i> (screwbean mesquite). <i>International Journal of Phytoremediation</i> , <b>2014</b> , 16, 1031-41	3.9	10
104	Alginate modifies the physiological impact of CeO <sub>2</sub> nanoparticles in corn seedlings cultivated in soil. <i>Journal of Environmental Sciences</i> , <b>2014</b> , 26, 382-9	6.4	24
103	<i>Prosopis pubescens</i> (screw bean mesquite) seedlings are hyperaccumulators of copper. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2013</b> , 65, 212-23	3.2	8
102	Effect of cerium oxide nanoparticles on the quality of rice ( <i>Oryza sativa</i> L.) grains. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 11278-85	5.7	175
101	Cerium oxide nanoparticles modify the antioxidative stress enzyme activities and macromolecule composition in rice seedlings. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 14110-8	10.3	168
100	Influence of CeO <sub>2</sub> and ZnO nanoparticles on cucumber physiological markers and bioaccumulation of Ce and Zn: a life cycle study. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 11945-51	5.7	220
99	Synchrotron verification of TiO <sub>2</sub> accumulation in cucumber fruit: a possible pathway of TiO <sub>2</sub> nanoparticle transfer from soil into the food chain. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11592-8	10.3	281
98	Seedling emergence, growth, and leaf mineral nutrition of <i>Ricinus communis</i> L. cultivars irrigated with saline solution. <i>Industrial Crops and Products</i> , <b>2013</b> , 49, 75-80	5.9	18
97	ZnO nanoparticle fate in soil and zinc bioaccumulation in corn plants ( <i>Zea mays</i> ) influenced by alginate. <i>Environmental Sciences: Processes and Impacts</i> , <b>2013</b> , 15, 260-6	4.3	88
96	Nanomaterials in Agricultural Production: Benefits and Possible Threats?. <i>ACS Symposium Series</i> , <b>2013</b> , 73-90	0.4	23
95	In situ synchrotron X-ray fluorescence mapping and speciation of CeO <sub>2</sub> and ZnO nanoparticles in soil cultivated soybean ( <i>Glycine max</i> ). <i>ACS Nano</i> , <b>2013</b> , 7, 1415-23	16.7	277
94	Advanced Analytical Techniques for the Measurement of Nanomaterials in Food and Agricultural Samples: A Review. <i>Environmental Engineering Science</i> , <b>2013</b> , 30, 118-125	2	73
93	Toxicity assessment of cerium oxide nanoparticles in cilantro ( <i>Coriandrum sativum</i> L.) plants grown in organic soil. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 6224-30	5.7	141
92	Effect of cerium oxide nanoparticles on rice: a study involving the antioxidant defense system and in vivo fluorescence imaging. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 5635-42	10.3	244
91	Spectroscopic determination of the toxicity, absorption, reduction, and translocation of Cr(VI) in two Magnoliopsida species. <i>International Journal of Phytoremediation</i> , <b>2013</b> , 15, 168-87	3.9	9
90	Effects of ZnO nanoparticles in alfalfa, tomato, and cucumber at the germination stage: Root development and X-ray absorption spectroscopy studies. <i>Pure and Applied Chemistry</i> , <b>2013</b> , 85, 2161-2174 <sup>1</sup>	2.1	117
89	Sorption kinetic study of selenite and selenate onto a high and low pressure aged iron oxide nanomaterial. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 211-212, 138-45	12.8	52

88	Synchrotron micro-XRF and micro-XANES confirmation of the uptake and translocation of TiO <sub>2</sub> nanoparticles in cucumber ( <i>Cucumis sativus</i> ) plants. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 7637-43	10.3	192
87	Applications of synchrotron EXRF to study the distribution of biologically important elements in different environmental matrices: a review. <i>Analytica Chimica Acta</i> , <b>2012</b> , 755, 1-16	6.6	93
86	Stress response and tolerance of Zea mays to CeO <sub>2</sub> nanoparticles: cross talk among H <sub>2</sub> O <sub>2</sub> , heat shock protein, and lipid peroxidation. <i>ACS Nano</i> , <b>2012</b> , 6, 9615-22	16.7	214
85	Effect of surface coating and organic matter on the uptake of CeO <sub>2</sub> NPs by corn plants grown in soil: Insight into the uptake mechanism. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 225-226, 131-8	12.8	170
84	Comparative toxicity assessment of CeO <sub>2</sub> and ZnO nanoparticles towards <i>Sinorhizobium meliloti</i> , a symbiotic alfalfa associated bacterium: use of advanced microscopic and spectroscopic techniques. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 241-242, 379-86	12.8	71
83	Transport and Retention Behavior of ZnO Nanoparticles in Two Natural Soils: Effect of Surface Coating and Soil Composition. <i>Journal of Nano Research</i> , <b>2012</b> , 17, 229-242	1	36
82	Magnetic field effect on growth, arsenic uptake, and total amylolytic activity on mesquite ( <i>Prosopis juliflora</i> x <i>P. velutina</i> ) seeds. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07B321	2.5	3
81	Microscopic and Spectroscopic Methods Applied to the Measurements of Nanoparticles in the Environment. <i>Applied Spectroscopy Reviews</i> , <b>2012</b> , 47, 180-206	4.5	29
80	Transport of Zn in a sandy loam soil treated with ZnO NPs and uptake by corn plants: Electron microprobe and confocal microscopy studies. <i>Chemical Engineering Journal</i> , <b>2012</b> , 184, 1-8	14.7	178
79	Arsenic localization and speciation in the root-soil interface of the desert plant <i>Prosopis juliflora-velutina</i> . <i>Applied Spectroscopy</i> , <b>2012</b> , 66, 719-27	3.1	11
78	Nanomaterials in the environment: from materials to high-throughput screening to organisms. <i>ACS Nano</i> , <b>2011</b> , 5, 13-20	16.7	133
77	Interaction of nanoparticles with edible plants and their possible implications in the food chain. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 3485-98	5.7	841
76	Toxicity and biotransformation of ZnO nanoparticles in the desert plants <i>Prosopis juliflora-velutina</i> , <i>Salsola tragus</i> and <i>Parkinsonia florida</i> . <i>International Journal of Nanotechnology</i> , <b>2011</b> , 8, 492	1.5	53
75	Anisotropic gold nanoparticles and gold plates biosynthesis using alfalfa extracts. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 3113-3121	2.3	52
74	Localization and speciation of arsenic in soil and desert plant <i>Parkinsonia florida</i> using EXRF and XANES. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 7848-54	10.3	26
73	Kinetin increases chromium absorption, modulates its distribution, and changes the activity of catalase and ascorbate peroxidase in Mexican Palo Verde. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 1082-7	10.3	46
72	Nanomaterials and the environment: a review for the biennium 2008-2010. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 186, 1-15	12.8	413
71	Use of plasma-based spectroscopy and infrared microspectroscopy techniques to determine the uptake and effects of chromium(III) and chromium(VI) on <i>Parkinsonia aculeata</i> . <i>International Journal of Phytoremediation</i> , <b>2011</b> , 13 Suppl 1, 17-33	3.9	5



70	Plant growth and metal distribution in tissues of <i>Prosopis juliflora-velutina</i> grown on chromium contaminated soil in the presence of <i>Glomus deserticola</i> . <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 7272-9	10.3	30
69	From organometallics to water oxidation processes and beyond: the legacy of the environmentalist and philosopher William H. Glaze. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 7178-80	10.3	
68	Heavy Metal Toxicity in Plants <b>2010</b> , 71-97		38
67	Response of <i>Eucalyptus camaldulensis</i> to irrigation with the Hudiaara drain effluent. <i>International Journal of Phytoremediation</i> , <b>2010</b> , 12, 343-57	3.9	11
66	Evidence of the differential biotransformation and genotoxicity of ZnO and CeO <sub>2</sub> nanoparticles on soybean ( <i>Glycine max</i> ) plants. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 7315-20	10.3	453
65	X-ray absorption spectroscopy (XAS) corroboration of the uptake and storage of CeO <sub>2</sub> nanoparticles and assessment of their differential toxicity in four edible plant species. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 3689-93	5.7	294
64	Determination of the Hydrolysis Constants and Solubility Product of Chromium(III) from Reduction of Dichromate Solutions by ICP-OES and UV-Visible Spectroscopy. <i>Journal of Solution Chemistry</i> , <b>2010</b> , 39, 522-532	1.8	7
63	Effects of <i>Glomus deserticola</i> inoculation on <i>Prosopis</i> : Enhancing chromium and lead uptake and translocation as confirmed by X-ray mapping, ICP-OES and TEM techniques. <i>Environmental and Experimental Botany</i> , <b>2010</b> , 68, 139-148	5.9	96
62	Toxicity and biotransformation of uncoated and coated nickel hydroxide nanoparticles on mesquite plants. <i>Environmental Toxicology and Chemistry</i> , <b>2010</b> , 29, 1146-54	3.8	72
61	Effect of mercury and gold on growth, nutrient uptake, and anatomical changes in <i>Chilopsis linearis</i> . <i>Environmental and Experimental Botany</i> , <b>2009</b> , 65, 253-262	5.9	19
60	Coordination and speciation of cadmium in corn seedlings and its effects on macro- and micronutrients uptake. <i>Plant Physiology and Biochemistry</i> , <b>2009</b> , 47, 608-14	5.4	15
59	Arsenic tolerance in mesquite ( <i>Prosopis</i> sp.): low molecular weight thiols synthesis and glutathione activity in response to arsenic. <i>Plant Physiology and Biochemistry</i> , <b>2009</b> , 47, 822-6	5.4	37
58	Sorption of hazardous metals from single and multi-element solutions by saltbush biomass in batch and continuous mode: interference of calcium and magnesium in batch mode. <i>Journal of Environmental Management</i> , <b>2009</b> , 90, 1213-8	7.9	14
57	Modeling the adsorption of Cr(III) from aqueous solution onto <i>Agave lechuguilla</i> biomass: study of the advective and dispersive transport. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 161, 360-5	12.8	17
56	Determination of arsenic(III) and arsenic(V) binding to microwave assisted hydrothermal synthetically prepared Fe <sub>3</sub> O <sub>4</sub> , Mn <sub>3</sub> O <sub>4</sub> , and MnFe <sub>2</sub> O <sub>4</sub> nanoadsorbents. <i>Microchemical Journal</i> , <b>2009</b> , 91, 100-106	4.8	100
55	Accumulation, speciation, and coordination of arsenic in an inbred line and a wild type cultivar of the desert plant species <i>Chilopsis linearis</i> (Desert willow). <i>Phytochemistry</i> , <b>2009</b> , 70, 540-5	4	15
54	EFFECT OF INDOLE-3-ACETIC ACID, KINETIN, AND ETHYLENEDIAMINETETRAACETIC ACID ON PLANT GROWTH AND UPTAKE AND TRANSLOCATION OF LEAD, MICRONUTRIENTS, AND MACRONUTRIENTS IN ALFALFA PLANTS. <i>International Journal of Phytoremediation</i> , <b>2009</b> , 11, 131-149	3.9	22
53	The biochemistry of environmental heavy metal uptake by plants: implications for the food chain. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2009</b> , 41, 1665-77	5.6	535

52	Arsenic speciation in biological samples using XAS and mixed oxidation state calibration standards of inorganic arsenic. <i>Applied Spectroscopy</i> , <b>2009</b> , 63, 961-70	3.1	13
51	The extraction of gold nanoparticles from oat and wheat biomasses using sodium citrate and cetyltrimethylammonium bromide, studied by x-ray absorption spectroscopy, high-resolution transmission electron microscopy, and UV-visible spectroscopy. <i>Nanotechnology</i> , <b>2009</b> , 20, 105607	3.4	23
50	Use of synchrotron- and plasma-based spectroscopic techniques to determine the uptake and biotransformation of chromium(III) and chromium(VI) by <i>Parkinsonia aculeata</i> . <i>Metallomics</i> , <b>2009</b> , 1, 330-8	4.5	15
49	Production of Metal Nanoparticles by Plants and Plant-Derived Materials <b>2008</b> , 401-411		4
48	Screening the phytoremediation potential of desert broom ( <i>Baccharis sarothroides</i> Gray) growing on mine tailings in Arizona, USA. <i>Environmental Pollution</i> , <b>2008</b> , 153, 362-8	9.3	89
47	Toxicity of arsenic (III) and (V) on plant growth, element uptake, and total amylolytic activity of mesquite ( <i>Prosopis juliflora</i> x <i>P. velutina</i> ). <i>International Journal of Phytoremediation</i> , <b>2008</b> , 10, 47-60	3.9	51
46	Removal of cadmium from contaminated waters using saltbush ( <i>Atriplex canescens</i> ) biomass: identification of Cd binding sites. <i>International Journal of Environment and Pollution</i> , <b>2008</b> , 34, 28	0.7	2
45	Removal of copper, lead, and zinc from contaminated water by saltbush biomass: analysis of the optimum binding, stripping, and binding mechanism. <i>Bioresource Technology</i> , <b>2008</b> , 99, 4438-44	11	22
44	Concentration and biotransformation of arsenic by <i>Prosopis</i> sp. grown in soil treated with chelating agents and phytohormones. <i>Environmental Chemistry</i> , <b>2008</b> , 5, 320	3.2	12
43	Effects of Lead, EDTA, and IAA on Nutrient Uptake by Alfalfa Plants. <i>Journal of Plant Nutrition</i> , <b>2007</b> , 30, 1247-1261	2.3	21
42	Gibberellic acid, kinetin, and the mixture indole-3-acetic acid-kinetin assisted with EDTA-induced lead hyperaccumulation in alfalfa plants. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 8165-70	10.3	43
41	Potential of <i>Chilopsis linearis</i> for gold phytomining: using XAS to determine gold reduction and nanoparticle formation within plant tissues. <i>International Journal of Phytoremediation</i> , <b>2007</b> , 9, 133-47	3.9	49
40	Use of X-ray absorption spectroscopy and biochemical techniques to characterize arsenic uptake and reduction in pea ( <i>Pisum sativum</i> ) plants. <i>Plant Physiology and Biochemistry</i> , <b>2007</b> , 45, 457-63	5.4	21
39	Examination of arsenic(III) and (V) uptake by the desert plant species mesquite ( <i>Prosopis</i> spp.) using X-ray absorption spectroscopy. <i>Science of the Total Environment</i> , <b>2007</b> , 379, 249-55	10.2	44
38	Role of ethylenediaminetetraacetic acid on lead uptake and translocation by tumbleweed ( <i>Salsola kali</i> L.). <i>Environmental Toxicology and Chemistry</i> , <b>2007</b> , 26, 1033-9	3.8	24
37	Lead toxicity in alfalfa plants exposed to phytohormones and ethylenediaminetetraacetic acid monitored by peroxidase, catalase, and amylase activities. <i>Environmental Toxicology and Chemistry</i> , <b>2007</b> , 26, 2717-23	3.8	19
36	Thermodynamic and isotherm studies of the biosorption of Cu(II), Pb(II), and Zn(II) by leaves of saltbush ( <i>Atriplex canescens</i> ). <i>Journal of Chemical Thermodynamics</i> , <b>2007</b> , 39, 488-492	2.9	52
35	Improving gold phytoextraction in desert willow ( <i>Chilopsis linearis</i> ) using thiourea: a spectroscopic investigation. <i>Environmental Chemistry</i> , <b>2007</b> , 4, 98	3.2	11

34	Using FTIR to corroborate the identity of functional groups involved in the binding of Cd and Cr to saltbush ( <i>Atriplex canescens</i> ) biomass. <i>Chemosphere</i> , <b>2007</b> , 66, 1424-30	8.4	57
33	Biosorption of Cd(II), Cr(III), and Cr(VI) by saltbush ( <i>Atriplex canescens</i> ) biomass: thermodynamic and isotherm studies. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 300, 100-4	9.3	131
32	Spectroscopic study of the impact of arsenic speciation on arsenic/phosphorus uptake and plant growth in tumbleweed ( <i>Salsola kali</i> ). <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 1991-6	10.3	21
31	Sorption of uranyl cations onto inactivated cells of alfalfa biomass investigated using chemical modification, ICP-OES, and XAS. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 4181-8	10.3	17
30	Lead adsorption by silica-immobilized humin under flow and batch conditions: assessment of flow rate and calcium and magnesium interference. <i>Journal of Hazardous Materials</i> , <b>2006</b> , 133, 79-84	12.8	17
29	Biochemical and spectroscopic studies of the response of <i>Convolvulus arvensis</i> L. to chromium(III) and chromium(VI) stress. <i>Environmental Toxicology and Chemistry</i> , <b>2006</b> , 25, 220-6	3.8	31
28	Enhancement of lead uptake by alfalfa ( <i>Medicago sativa</i> ) using EDTA and a plant growth promoter. <i>Chemosphere</i> , <b>2005</b> , 61, 595-8	8.4	119
27	Use of chemical modification and spectroscopic techniques to determine the binding and coordination of gadolinium(III) and neodymium(III) ions by alfalfa biomass. <i>Talanta</i> , <b>2005</b> , 67, 34-45	6.2	17
26	Determination of thermodynamic parameters of Cr(VI) adsorption from aqueous solution onto <i>Agave lechuguilla</i> biomass. <i>Journal of Chemical Thermodynamics</i> , <b>2005</b> , 37, 343-347	2.9	151
25	Determination of adsorption and speciation of chromium species by saltbush ( <i>Atriplex canescens</i> ) biomass using a combination of XAS and ICP-OES. <i>Microchemical Journal</i> , <b>2005</b> , 81, 122-132	4.8	75
24	Applicability of microplate assay coupled to Fiske-Subbarow reducer for the determination of phosphorous produced by in vivo human lymphocytes: PKC is probably cross talking with ecto 5'-nucleotidase. <i>Microchemical Journal</i> , <b>2005</b> , 81, 92-97	4.8	
23	A spectrophotometric method to determine the siderophore production by strains of fluorescent <i>Pseudomonas</i> in the presence of copper and iron. <i>Microchemical Journal</i> , <b>2005</b> , 81, 35-40	4.8	15
22	Phytoremediation of heavy metals and study of the metal coordination by X-ray absorption spectroscopy. <i>Coordination Chemistry Reviews</i> , <b>2005</b> , 249, 1797-1810	23.2	187
21	Differential uptake and transport of trivalent and hexavalent chromium by tumbleweed ( <i>Salsola kali</i> ). <i>Archives of Environmental Contamination and Toxicology</i> , <b>2005</b> , 48, 225-32	3.2	94
20	Use of ICP and XAS to determine the enhancement of gold phytoextraction by <i>Chilopsis linearis</i> using thiocyanate as a complexing agent. <i>Analytical and Bioanalytical Chemistry</i> , <b>2005</b> , 382, 347-52	4.4	60
19	Production of low-molecular weight thiols as a response to cadmium uptake by tumbleweed ( <i>Salsola kali</i> ). <i>Plant Physiology and Biochemistry</i> , <b>2005</b> , 43, 491-8	5.4	29
18	Flow rate and interference studies for copper binding to a silica-immobilized humin polymer matrix: column and batch experiments. <i>Bioinorganic Chemistry and Applications</i> , <b>2005</b> , 3, 1-14	4.2	1
17	Determination of equilibrium and kinetic parameters of the adsorption of Cr(III) and Cr(VI) from aqueous solutions to <i>Agave Lechuguilla</i> biomass. <i>Bioinorganic Chemistry and Applications</i> , <b>2005</b> , 3, 55-68	4.2	15

16	Gold binding by native and chemically modified hops biomasses. <i>Bioinorganic Chemistry and Applications</i> , <b>2005</b> , 3, 29-41	4.2	11
15	Effect of Sulfate on Selenium Uptake and Chemical Speciation in <i>Convolvulus arvensis</i> L.. <i>Environmental Chemistry</i> , <b>2005</b> , 2, 100	3.2	14
14	Modulation of Uptake and Translocation of Iron and Copper from Root to Shoot in Common Bean by Siderophore-Producing Microorganisms. <i>Journal of Plant Nutrition</i> , <b>2005</b> , 28, 1853-1865	2.3	28
13	Use of phytofiltration technologies in the removal of heavy metals: A review. <i>Pure and Applied Chemistry</i> , <b>2004</b> , 76, 801-813	2.1	100
12	Study of Calcium(II), Copper(II), Magnesium(II), and Iron(III) Interference on Au(III) Binding to Native Hop Biomass Using ICP-OES. <i>Spectroscopy Letters</i> , <b>2004</b> , 37, 201-215	1.1	3
11	Size controlled gold nanoparticle formation by <i>Avena sativa</i> biomass: use of plants in nanobiotechnology. <i>Journal of Nanoparticle Research</i> , <b>2004</b> , 6, 377-382	2.3	339
10	Binding of erbium(III) and holmium(III) to native and chemically modified alfalfa biomass: a spectroscopic investigation. <i>Microchemical Journal</i> , <b>2004</b> , 76, 65-76	4.8	17
9	Lead uptake and the effects of EDTA on lead-tissue concentrations in the desert species mesquite ( <i>Prosopis</i> spp.). <i>International Journal of Phytoremediation</i> , <b>2004</b> , 6, 195-207	3.9	20
8	Cadmium uptake and translocation in tumbleweed ( <i>Salsola kali</i> ), a potential Cd-hyperaccumulator desert plant species: ICP/OES and XAS studies. <i>Chemosphere</i> , <b>2004</b> , 55, 1159-68	8.4	142
7	Effects of zinc upon tolerance and heavy metal uptake in alfalfa plants ( <i>Medicago sativa</i> ). <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2003</b> , 70, 1036-44	2.7	9
6	Utilization of ICP/OES for the determination of trace metal binding to different humic fractions. <i>Journal of Hazardous Materials</i> , <b>2003</b> , 97, 207-18	12.8	31
5	Alfalfa Sprouts: A Natural Source for the Synthesis of Silver Nanoparticles. <i>Langmuir</i> , <b>2003</b> , 19, 1357-1361		727
4	Uptake and reduction of Cr(VI) to Cr(III) by mesquite ( <i>Prosopis</i> spp.): chromate-plant interaction in hydroponics and solid media studied using XAS. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 1859-64	10.3	120
3	Potential of alfalfa plant to phytoremediate individually contaminated montmorillonite-soils with cadmium(II), chromium(VI), copper (II), nickel(II), and zinc(II). <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2002</b> , 69, 74-81	2.7	20
2	Absorption and emission spectroscopic investigation of the phyto-extraction of europium(III) nitrate from aqueous solutions by alfalfa biomass. <i>Microchemical Journal</i> , <b>2002</b> , 71, 175-183	4.8	12
1	Formation and Growth of Au Nanoparticles inside Live Alfalfa Plants. <i>Nano Letters</i> , <b>2002</b> , 2, 397-401	11.5	696