Jose R Peralta-Videa

List of Publications by Year
in descending order

197 papers	19,704 citations	9786 73 h-index	11607 135 g-index
200 all docs	200 docs citations	200 times ranked	13728 citing authors

#	Article	IF	Citations
1	Silica nanoparticles: the rising star in plant disease protection. Trends in Plant Science, 2022, 27, 7-9.	8.8	16
2	Nanoparticles as a potential protective agent for arsenic toxicity alleviation in plants. Environmental Pollution, 2022, 300, 118887.	7.5	23
3	A comprehensive study of selenium and cerium oxide nanoparticles on mung bean: Individual and synergistic effect on photosynthesis pigments, antioxidants, and dry matter accumulation. Science of the Total Environment, 2022, 830, 154837.	8.0	12
4	Nano-priming: Impression on the beginner of plant life. Plant Stress, 2022, 5, 100091.	5.5	16
5	Silicon nanoforms in crop improvement and stress management. Chemosphere, 2022, 305, 135165.	8.2	25
6	Do all Cu nanoparticles have similar applications in nano-enabled agriculture?. , 2022, 1, 100006.		10
7	Effects of nano-enabled agricultural strategies on food quality: Current knowledge and future research needs. Journal of Hazardous Materials, 2021, 401, 123385.	12.4	58
8	Effects of different surface-coated nTiO2 on full-grown carrot plants: Impacts on root splitting, essential elements, and Ti uptake. Journal of Hazardous Materials, 2021, 402, 123768.	12.4	25
9	Effects of Engineered Nanoparticles at Various Growth Stages of Crop Plants. Nanotechnology in the Life Sciences, 2021, , 209-229.	0.6	0
10	Soil-Weathered CuO Nanoparticles Compromise Foliar Health and Pigment Production in Spinach (<i>Spinacia oleracea</i>). Environmental Science & Technology, 2021, 55, 13504-13512.	10.0	14
11	Soil-aged nano titanium dioxide effects on full-grown carrot: Dose and surface-coating dependent improvements on growth and nutrient quality. Science of the Total Environment, 2021, 774, 145699.	8.0	15
12	Hydrogen sulfide (H2S) underpins the beneficial silicon effects against the copper oxide nanoparticles (CuO NPs) phytotoxicity in Oryza sativa seedlings. Journal of Hazardous Materials, 2021, 415, 124907.	12.4	29
13	Selenite bioreduction and biosynthesis of selenium nanoparticles by Bacillus paramycoides SP3 isolated from coal mine overburden leachate. Environmental Pollution, 2021, 285, 117519.	7.5	54
14	Recent insights into the impact, fate and transport of cerium oxide nanoparticles in the plant-soil continuum. Ecotoxicology and Environmental Safety, 2021, 221, 112403.	6.0	34
15	Responses of Terrestrial Plants to Metallic Nanomaterial Exposure: Mechanistic Insights, Emerging Technologies, and New Research Avenues. Nanotechnology in the Life Sciences, 2021, , 165-191.	0.6	2
16	Manganese Nanoparticles Control Salinity-Modulated Molecular Responses in <i>Capsicum annuum</i> L. through Priming: A Sustainable Approach for Agriculture. ACS Sustainable Chemistry and Engineering, 2020, 8, 1427-1436.	6.7	132
17	Influence of Carbon Quantum Dots on the Biome. Processes, 2020, 8, 445.	2.8	9
18	Bok choy (Brassica rapa) grown in copper oxide nanoparticles-amended soils exhibits toxicity in a phenotype-dependent manner: Translocation, biodistribution and nutritional disturbance. Journal of Hazardous Materials, 2020, 398, 122978.	12.4	45

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19	Nutritional Status of Tomato (<i>Solanum lycopersicum</i>) Fruit Grown in <i>Fusarium</i>-Infested Soil: Impact of Cerium Oxide Nanoparticles. Journal of Agricultural and Food Chemistry, 2020, 68, 1986-1997.	5.2	51
20	Improvement of nutrient elements and allicin content in green onion (Allium fistulosum) plants exposed to CuO nanoparticles. Science of the Total Environment, 2020, 725, 138387.	8.0	73
21	A comparative metagenomic and spectroscopic analysis of soils from an international point of entry between the US and Mexico. Environment International, 2019, 123, 558-566.	10.0	15
22	C60 Fullerols Enhance Copper Toxicity and Alter the Leaf Metabolite and Protein Profile in Cucumber. Environmental Science & Technology, 2019, 53, 2171-2180.	10.0	53
23	Fate of engineered nanomaterials in agroenvironments and impacts on agroecosystems. , 2019, , 105-142.		5
24	Interaction of nanomaterials in secondary metabolites accumulation, photosynthesis, and nitrogen fixation in plant systems. Comprehensive Analytical Chemistry, 2019, 84, 55-74.	1.3	7
25	Recent advances in nano-enabled fertilizers and pesticides: a critical review of mechanisms of action. Environmental Science: Nano, 2019, 6, 2002-2030.	4.3	314
26	Differential physiological and biochemical impacts of nano vs micron Cu at two phenological growth stages in bell pepper (Capsicum annuum) plant. NanoImpact, 2019, 14, 100161.	4.5	18
27	Biochemical and physiological effects of copper compounds/nanoparticles on sugarcane (Saccharum) Tj ETQq1 1 0.784314 rgBT /Overl	8.0	29
28	Copper oxide nanoparticles and bulk copper oxide, combined with indole-3-acetic acid, alter aluminum, boron, and iron in Pisum sativum seeds. Science of the Total Environment, 2018, 634, 1238-1245.	8.0	23
29	Environmental behavior of coated NMs: Physicochemical aspects and plant interactions. Journal of Hazardous Materials, 2018, 347, 196-217.	12.4	34
30	Interaction of titanium dioxide nanoparticles with soil components and plants: current knowledge and future research needs â€“ a critical review. Environmental Science: Nano, 2018, 5, 257-278.	4.3	134
31	Effects of the exposure of TiO2 nanoparticles on basil (Ocimum basilicum) for two generations. Science of the Total Environment, 2018, 636, 240-248.	8.0	38
32	Foliar Exposure of Cu(OH)₂ Nanopesticide to Basil (<i>Ocimum basilicum</i>): Variety-Dependent Copper Translocation and Biochemical Responses. Journal of Agricultural and Food Chemistry, 2018, 66, 3358-3366.	5.2	48
33	Impacts of copper oxide nanoparticles on bell pepper (<i>Capsicum annum</i>L.) plants: a full life cycle study. Environmental Science: Nano, 2018, 5, 83-95.	4.3	89
34	Differential effects of copper nanoparticles/microparticles in agronomic and physiological parameters of oregano (Origanum vulgare). Science of the Total Environment, 2018, 618, 306-312.	8.0	59
35	Toxicity of copper hydroxide nanoparticles, bulk copper hydroxide, and ionic copper to alfalfa plants: A spectroscopic and gene expression study. Environmental Pollution, 2018, 243, 703-712.	7.5	45
36	ZnO nanoparticles increase photosynthetic pigments and decrease lipid peroxidation in soil grown cilantro (Coriandrum sativum). Plant Physiology and Biochemistry, 2018, 132, 120-127.	5.8	94

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37	Plant uptake and translocation of contaminants of emerging concern in soil. Science of the Total Environment, 2018, 636, 1585-1596.	8.0	156
38	Role of Cerium Compounds in Fusarium Wilt Suppression and Growth Enhancement in Tomato (<i>Solanum lycopersicum</i>). Journal of Agricultural and Food Chemistry, 2018, 66, 5959-5970.	5.2	91
39	Minimal Transgenerational Effect of ZnO Nanomaterials on the Physiology and Nutrient Profile of <i>Phaseolus vulgaris</i>. ACS Sustainable Chemistry and Engineering, 2018, 6, 7924-7930.	6.7	27
40	Two-Photon Microscopy and Spectroscopy Studies to Determine the Mechanism of Copper Oxide Nanoparticle Uptake by Sweetpotato Roots during Postharvest Treatment. Environmental Science & Technology, 2018, 52, 9954-9963.	10.0	22
41	Different forms of copper and kinetin impacted element accumulation and macromolecule contents in kidney bean (Phaseolus vulgaris) seeds. Science of the Total Environment, 2018, 636, 1534-1540.	8.0	16
42	Factors affecting fate and transport of engineered nanomaterials in terrestrial environments. Current Opinion in Environmental Science and Health, 2018, 6, 47-53.	4.1	26
43	Availability and Risk Assessment of Nanoparticles in Living Systems. , 2018, , 1-31.		8
44	Metabolomics Reveals How Cucumber (<i>Cucumis sativus</i>) Reprograms Metabolites To Cope with Silver Ions and Silver Nanoparticle-Induced Oxidative Stress. Environmental Science & Technology, 2018, 52, 8016-8026.	10.0	165
45	Finding the conditions for the beneficial use of ZnO nanoparticles towards plants-A review. Environmental Pollution, 2018, 241, 1175-1181.	7.5	105
46	Exposure of engineered nanomaterials to plants: Insights into the physiological and biochemical responses-A review. Plant Physiology and Biochemistry, 2017, 110, 236-264.	5.8	312
47	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. Plant Physiology and Biochemistry, 2017, 110, 100-107.	5.8	53
48	Interaction of metal oxide nanoparticles with higher terrestrial plants: Physiological and biochemical aspects. Plant Physiology and Biochemistry, 2017, 110, 210-225.	5.8	230
49	Surface coating changes the physiological and biochemical impacts of nano-TiO2 in basil (Ocimum) Tj ETQq1 1 0.784314 rgBT /Overl	7.5	74
50	Comparison of the effects of commercial coated and uncoated ZnO nanomaterials and Zn compounds in kidney bean (Phaseolus vulgaris) plants. Journal of Hazardous Materials, 2017, 332, 214-222.	12.4	57
51	Modulation of CuO nanoparticles toxicity to green pea (Pisum sativum Fabaceae) by the phytohormone indole-3-acetic acid. Science of the Total Environment, 2017, 598, 513-524.	8.0	44
52	Assessing plant uptake and transport mechanisms of engineered nanomaterials from soil. MRS Bulletin, 2017, 42, 379-384.	3.5	31
53	Effect of ZnO nanoparticles on corn seedlings at different temperatures; X-ray absorption spectroscopy and ICP/OES studies. Microchemical Journal, 2017, 134, 54-61.	4.5	39
54	Comparative environmental fate and toxicity of copper nanomaterials. NanoImpact, 2017, 7, 28-40.	4.5	277

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55	Physiological and biochemical effects of nanoparticulate copper, bulk copper, copper chloride, and kinetin in kidney bean (Phaseolus vulgaris) plants. Science of the Total Environment, 2017, 599-600, 2085-2094.	8.0	58
56	Editorial. Plant Physiology and Biochemistry, 2017, 110, 1.	5.8	3
57	Nutritional quality of bean seeds harvested from plants grown in different soils amended with coated and uncoated zinc oxide nanomaterials. Environmental Science: Nano, 2017, 4, 2336-2347.	4.3	27
58	Terrestrial Nanotoxicology: Evaluating the Nano-Biointeractions in Vascular Plants. Nanomedicine and Nanotoxicology, 2017, , 21-42.	0.2	2
59	Effects of Surface Coating on the Bioactivity of Metal-Based Engineered Nanoparticles: Lessons Learned from Higher Plants. Nanomedicine and Nanotoxicology, 2017, , 43-61.	0.2	3
60	Elevated CO2 levels modify TiO2 nanoparticle effects on rice and soil microbial communities. Science of the Total Environment, 2017, 578, 408-416.	8.0	58
61	Physiological and biochemical responses of sunflower (Helianthus annuus L.) exposed to nano-CeO2 and excess boron: Modulation of boron phytotoxicity. Plant Physiology and Biochemistry, 2017, 110, 50-58.	5.8	60
62	Effects of Silver Nanoparticles on Radish Sprouts: Root Growth Reduction and Modifications in the Nutritional Value. Frontiers in Plant Science, 2016, 7, 90.	3.6	170
63	Plant-based green synthesis of metallic nanoparticles: scientific curiosity or a realistic alternative to chemical synthesis?. Nanotechnology for Environmental Engineering, 2016, 1, 1.	3.3	182
64	Biophysical Methods of Detection and Quantification of Uptake, Translocation, and Accumulation of Nanoparticles. , 2016, , 29-63.		0
65	Lessons learned: Are engineered nanomaterials toxic to terrestrial plants?. Science of the Total Environment, 2016, 568, 470-479.	8.0	144
66	Soil organic matter influences cerium translocation and physiological processes in kidney bean plants exposed to cerium oxide nanoparticles. Science of the Total Environment, 2016, 569-570, 201-211.	8.0	69
67	Interactions between CeO₂ Nanoparticles and the Desert Plant Mesquite: A Spectroscopy Approach. ACS Sustainable Chemistry and Engineering, 2016, 4, 1187-1192.	6.7	49
68	Cerium Biomagnification in a Terrestrial Food Chain: Influence of Particle Size and Growth Stage. Environmental Science & Technology, 2016, 50, 6782-6792.	10.0	85
69	Effects of uncoated and citric acid coated cerium oxide nanoparticles, bulk cerium oxide, cerium acetate, and citric acid on tomato plants. Science of the Total Environment, 2016, 563-564, 956-964.	8.0	123
70	Foliar applied nanoscale and microscale CeO2 and CuO alter cucumber (Cucumis sativus) fruit quality. Science of the Total Environment, 2016, 563-564, 904-911.	8.0	138
71	Differential Effects of Cerium Oxide Nanoparticles on Rice, Wheat, and Barley Roots: A Fourier Transform Infrared (FT-IR) Microspectroscopy Study. Applied Spectroscopy, 2015, 69, 287-295.	2.2	50
72	Comparative phytotoxicity of ZnO NPs, bulk ZnO, and ionic zinc onto the alfalfa plants symbiotically associated with Sinorhizobium meliloti in soil. Science of the Total Environment, 2015, 515-516, 60-69.	8.0	171

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73	Monitoring the Environmental Effects of CeO₂ and ZnO Nanoparticles Through the Life Cycle of Corn (<i>Zea mays</i>) Plants and in Situ Î¼-XRF Mapping of Nutrients in Kernels. Environmental Science & Technology, 2015, 49, 2921-2928.	10.0	175
74	Adsorption of arsenic(V) oxyanion from aqueous solutions by using protonated chitosan flakes. Separation Science and Technology, 2015, , 150615133810006.	2.5	2
75	Physiological and biochemical response of soil-grown barley (Hordeum vulgare L.) to cerium oxide nanoparticles. Environmental Science and Pollution Research, 2015, 22, 10551-10558.	5.3	146
76	Environmental Effects of Nanoceria on Seed Production of Common Bean (<i>Phaseolus vulgaris</i>): A Proteomic Analysis. Environmental Science & Technology, 2015, 49, 13283-13293.	10.0	95
77	Copper nanoparticles/compounds impact agronomic and physiological parameters in cilantro (Coriandrum sativum). Environmental Sciences: Processes and Impacts, 2015, 17, 1783-1793.	3.5	125
78	Physiological and Biochemical Changes Imposed by CeO₂ Nanoparticles on Wheat: A Life Cycle Field Study. Environmental Science & Technology, 2015, 49, 11884-11893.	10.0	164
79	Toxic effects of copper-based nanoparticles or compounds to lettuce (Lactuca sativa) and alfalfa (Medicago sativa). Environmental Sciences: Processes and Impacts, 2015, 17, 177-185.	3.5	208
80	Synthesis of protonated chitosan flakes for the removal of vanadium(III, IV and V) oxyanions from aqueous solutions. Microchemical Journal, 2015, 118, 1-11.	4.5	67
81	Differential Toxicity of Bare and Hybrid ZnO Nanoparticles in Green Pea (Pisum sativum L.): A Life Cycle Study. Frontiers in Plant Science, 2015, 6, 1242.	3.6	82
82	Effects of Copper Sulfate on Seedlings of<i>Prosopis pubescens</i>(Screwbean Mesquite). International Journal of Phytoremediation, 2014, 16, 1031-1041.	3.1	14
83	Alginate modifies the physiological impact of CeO2 nanoparticles in corn seedlings cultivated in soil. Journal of Environmental Sciences, 2014, 26, 382-389.	6.1	29
84	Evidence of Translocation and Physiological Impacts of Foliar Applied CeO₂ Nanoparticles on Cucumber (<i>Cucumis sativus</i>) Plants. Environmental Science & Technology, 2014, 48, 4376-4385.	10.0	257
85	Exposure studies of coreâ€"shell Fe/Fe3O4 and Cu/CuO NPs to lettuce (Lactuca sativa) plants: Are they a potential physiological and nutritional hazard?. Journal of Hazardous Materials, 2014, 267, 255-263.	12.4	207
86	Cerium oxide nanoparticles alter the antioxidant capacity but do not impact tuber ionome in Raphanus sativus (L). Plant Physiology and Biochemistry, 2014, 84, 277-285.	5.8	107
87	A soil mediated phyto-toxicological study of iron doped zinc oxide nanoparticles (Fe@ZnO) in green peas (Pisum sativum L.). Chemical Engineering Journal, 2014, 258, 394-401.	12.7	55
88	Cerium Oxide Nanoparticles Impact Yield and Modify Nutritional Parameters in Wheat (<i>Triticum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	5.2	197
89	Supported and unsupported nanomaterials for water and soil remediation: Are they a useful solution for worldwide pollution?. Journal of Hazardous Materials, 2014, 280, 487-503.	12.4	160
90	Random amplified polymorphic DNA reveals that TiO2 nanoparticles are genotoxic to Cucurbita pepo. Journal of Zhejiang University: Science A, 2014, 15, 618-623.	2.4	40

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91	Cerium dioxide and zinc oxide nanoparticles alter the nutritional value of soil cultivated soybean plants. Plant Physiology and Biochemistry, 2014, 80, 128-135.	5.8	166
92	CeO₂ and ZnO Nanoparticles Change the Nutritional Qualities of Cucumber (<i>Cucumis) Tj ETQq0 0 0 rgBT /Overlock 10	5.2	269
93	Physiological effects of nanoparticulate ZnO in green peas (Pisum sativum L.) cultivated in soil. Metallomics, 2014, 6, 132-138.	2.4	220
94	Exposure of cerium oxide nanoparticles to kidney bean shows disturbance in the plant defense mechanisms. Journal of Hazardous Materials, 2014, 278, 279-287.	12.4	153
95	Prosopis pubescens (Screw Bean Mesquite) Seedlings are Hyperaccumulators of Copper. Archives of Environmental Contamination and Toxicology, 2013, 65, 212-223.	4.1	8
96	Effect of Cerium Oxide Nanoparticles on the Quality of Rice (Oryza sativa L.) Grains. Journal of Agricultural and Food Chemistry, 2013, 61, 11278-11285.	5.2	212
97	Cerium Oxide Nanoparticles Modify the Antioxidative Stress Enzyme Activities and Macromolecule Composition in Rice Seedlings. Environmental Science & Technology, 2013, 47, 14110-14118.	10.0	203
98	Influence of CeO₂ and ZnO Nanoparticles on Cucumber Physiological Markers and Bioaccumulation of Ce and Zn: A Life Cycle Study. Journal of Agricultural and Food Chemistry, 2013, 61, 11945-11951.	5.2	273
99	Synchrotron Verification of TiO₂ Accumulation in Cucumber Fruit: A Possible Pathway of TiO₂ Nanoparticle Transfer from Soil into the Food Chain. Environmental Science & Technology, 2013, 47, 11592-11598.	10.0	336
100	Seedling emergence, growth, and leaf mineral nutrition of Ricinus communis L. cultivars irrigated with saline solution. Industrial Crops and Products, 2013, 49, 75-80.	5.2	21
101	ZnO nanoparticle fate in soil and zinc bioaccumulation in corn plants (Zea mays) influenced by alginate. Environmental Sciences: Processes and Impacts, 2013, 15, 260-266.	3.5	99
102	Nanomaterials in Agricultural Production: Benefits and Possible Threats?. ACS Symposium Series, 2013, , 73-90.	0.5	26
103	<i>In Situ</i> Synchrotron X-ray Fluorescence Mapping and Speciation of CeO₂ and ZnO Nanoparticles in Soil Cultivated Soybean (Glycine max). ACS Nano, 2013, 7, 1415-1423.	14.6	327
104	Advanced Analytical Techniques for the Measurement of Nanomaterials in Food and Agricultural Samples: A Review. Environmental Engineering Science, 2013, 30, 118-125.	1.6	86
105	Toxicity Assessment of Cerium Oxide Nanoparticles in Cilantro (Coriandrum sativum L.) Plants Grown in Organic Soil. Journal of Agricultural and Food Chemistry, 2013, 61, 6224-6230.	5.2	162
106	Effect of Cerium Oxide Nanoparticles on Rice: A Study Involving the Antioxidant Defense System and In Vivo Fluorescence Imaging. Environmental Science & Technology, 2013, 47, 5635-5642.	10.0	289
107	SPECTROSCOPIC DETERMINATION OF THE TOXICITY, ABSORPTION, REDUCTION, AND TRANSLOCATION OFÂCr(VI) IN TWO<i>MAGNOLIOPSIDA</i>SPECIES. International Journal of Phytoremediation, 2013, 15, 168-187.	3.1	10
108	Effects of ZnO nanoparticles in alfalfa, tomato, and cucumber at the germination stage: Root development and X-ray absorption spectroscopy studies. Pure and Applied Chemistry, 2013, 85, 2161-2174.	1.9	157

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109	Arsenic Localization and Speciation in the Rootâ€"Soil Interface of the Desert Plant <i>Prosopis juliflora-velutina</i>. Applied Spectroscopy, 2012, 66, 719-727.	2.2	12
110	Synchrotron Micro-XRF and Micro-XANES Confirmation of the Uptake and Translocation of TiO₂ Nanoparticles in Cucumber (<i>Cucumis sativus</i>) Plants. Environmental Science & Technology, 2012, 46, 7637-7643.	10.0	236
111	Applications of synchrotron Î¼-XRF to study the distribution of biologically important elements in different environmental matrices: A review. Analytica Chimica Acta, 2012, 755, 1-16.	5.4	105
112	Stress Response and Tolerance of Zea mays to CeO₂ Nanoparticles: Cross Talk among H₂O₂, Heat Shock Protein, and Lipid Peroxidation. ACS Nano, 2012, 6, 9615-9622.	14.6	254
113	Effect of surface coating and organic matter on the uptake of CeO2 NPs by corn plants grown in soil: Insight into the uptake mechanism. Journal of Hazardous Materials, 2012, 225-226, 131-138.	12.4	207
114	Comparative toxicity assessment of CeO2 and ZnO nanoparticles towards Sinorhizobium meliloti, a symbiotic alfalfa associated bacterium: Use of advanced microscopic and spectroscopic techniques. Journal of Hazardous Materials, 2012, 241-242, 379-386.	12.4	80
115	Magnetic field effect on growth, arsenic uptake, and total amylolytic activity on mesquite (Prosopis) Tj ETQq1 1 0.784314 rgBT /Over	2.5	4
116	Microscopic and Spectroscopic Methods Applied to the Measurements of Nanoparticles in the Environment. Applied Spectroscopy Reviews, 2012, 47, 180-206.	6.7	33
117	Transport of Zn in a sandy loam soil treated with ZnO NPs and uptake by corn plants: Electron microprobe and confocal microscopy studies. Chemical Engineering Journal, 2012, 184, 1-8.	12.7	213
118	Sorption kinetic study of selenite and selenate onto a high and low pressure aged iron oxide nanomaterial. Journal of Hazardous Materials, 2012, 211-212, 138-145.	12.4	70
119	Localization and Speciation of Arsenic in Soil and Desert Plant <i>Parkinsonia florida</i> Using Î¼XRF and Î¼XANES. Environmental Science & Technology, 2011, 45, 7848-7854.	10.0	28
120	Kinetin Increases Chromium Absorption, Modulates Its Distribution, and Changes the Activity of Catalase and Ascorbate Peroxidase in Mexican Palo Verde. Environmental Science & Technology, 2011, 45, 1082-1087.	10.0	47
121	Nanomaterials in the Environment: From Materials to High-Throughput Screening to Organisms. ACS Nano, 2011, 5, 13-20.	14.6	145
122	Interaction of Nanoparticles with Edible Plants and Their Possible Implications in the Food Chain. Journal of Agricultural and Food Chemistry, 2011, 59, 3485-3498.	5.2	1,037
123	Toxicity and biotransformation of ZnO nanoparticles in the desert plants Prosopis juliflora-velutina, Salsola tragus and Parkinsonia florida. International Journal of Nanotechnology, 2011, 8, 492.	0.2	59
124	Anisotropic gold nanoparticles and gold plates biosynthesis using alfalfa extracts. Journal of Nanoparticle Research, 2011, 13, 3113-3121.	1.9	61
125	Nanomaterials and the environment: A review for the biennium 2008â€"2010. Journal of Hazardous Materials, 2011, 186, 1-15.	12.4	495
126	Use of Plasma-Based Spectroscopy and Infrared Microspectroscopy Techniques to Determine the Uptake and Effects of Chromium(III) and Chromium(VI) onParkinsonia Aculeata. International Journal of Phytoremediation, 2011, 13, 17-33.	3.1	5

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127	X-ray Absorption Spectroscopy (XAS) Corroboration of the Uptake and Storage of CeO₂ Nanoparticles and Assessment of Their Differential Toxicity in Four Edible Plant Species. Journal of Agricultural and Food Chemistry, 2010, 58, 3689-3693.	5.2	329
128	Determination of the Hydrolysis Constants and Solubility Product of Chromium(III) from Reduction ofÂDichromate Solutions by ICP-OES and UVâ€"Visible Spectroscopy. Journal of Solution Chemistry, 2010, 39, 522-532.	1.2	7
129	Effects of Glomus deserticola inoculation on Prosopis: Enhancing chromium and lead uptake and translocation as confirmed by X-ray mapping, ICP-OES and TEM techniques. Environmental and Experimental Botany, 2010, 68, 139-148.	4.2	126
130	Toxicity and biotransformation of uncoated and coated nickel hydroxide nanoparticles on mesquite plants. Environmental Toxicology and Chemistry, 2010, 29, 1146-1154.	4.3	84
131	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>. Environmental Science & Technology, 2010, 44, 7272-7279.	10.0	39
132	From Organometallics to Water Oxidation Processes and Beyond: The Legacy of the Environmentalist and Philosopher William H. Glaze. Environmental Science & Technology, 2010, 44, 7178-7180.	10.0	0
133	Heavy Metal Toxicity in Plants. , 2010, , 71-97.		65
134	Response of<i>Eucalyptus Camaldulensis</i>to Irrigation With the Hudiara Drain Effluent. International Journal of Phytoremediation, 2010, 12, 343-357.	3.1	14
135	Evidence of the Differential Biotransformation and Genotoxicity of ZnO and CeO₂ Nanoparticles on Soybean (<i>Glycine max</i>) Plants. Environmental Science & Technology, 2010, 44, 7315-7320.	10.0	521
136	Effect of mercury and gold on growth, nutrient uptake, and anatomical changes in Chilopsis linearis. Environmental and Experimental Botany, 2009, 65, 253-262.	4.2	23
137	Coordination and speciation of cadmium in corn seedlings and its effects on macro- and micronutrients uptake. Plant Physiology and Biochemistry, 2009, 47, 608-614.	5.8	18
138	Arsenic tolerance in mesquite (Prosopis sp.): Low molecular weight thiols synthesis and glutathione activity in response to arsenic. Plant Physiology and Biochemistry, 2009, 47, 822-826.	5.8	42
139	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. Journal of Environmental Management, 2009, 90, 1213-1218.	7.8	16
140	Modeling the adsorption of Cr(III) from aqueous solution onto Agave lechuguilla biomass: Study of the advective and dispersive transport. Journal of Hazardous Materials, 2009, 161, 360-365.	12.4	21
141	Determination of arsenic(III) and arsenic(V) binding to microwave assisted hydrothermal synthetically prepared Fe3O4, Mn3O4, and MnFe2O4 nanoadsorbents. Microchemical Journal, 2009, 91, 100-106.	4.5	112
142	Accumulation, speciation, and coordination of arsenic in an inbred line and a wild type cultivar of the desert plant species Chilopsis linearis (Desert willow). Phytochemistry, 2009, 70, 540-545.	2.9	15
143	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. International Journal of Phytoremediation, 2009, 11, 131-149.	3.1	24
144	The biochemistry of environmental heavy metal uptake by plants: Implications for the food chain. International Journal of Biochemistry and Cell Biology, 2009, 41, 1665-1677.	2.8	704

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145	Arsenic Speciation in Biological Samples Using XAS and Mixed Oxidation State Calibration Standards of Inorganic Arsenic. Applied Spectroscopy, 2009, 63, 961-970.	2.2	14
146	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 UVâ€"visible spectroscopy. Nanotechnology, 2009, 20, 105607.	2.6	24
147	Use of synchrotron- and plasma-based spectroscopic techniques to determine the uptake and biotransformation of chromium(iii) and chromium(vi) by Parkinsonia aculeata. Metallomics, 2009, 1, 330.	2.4	15
148	Removal of copper, lead, and zinc from contaminated water by saltbush biomass: Analysis of the optimum binding, stripping, and binding mechanism. Bioresource Technology, 2008, 99, 4438-4444.	9.6	23
149	Production of Metal Nanoparticles by Plants and Plant-Derived Materials. , 2008, , 401-411.		5
150	Screening the phytoremediation potential of desert broom (Baccharis sarothroides Gray) growing on mine tailings in Arizona, USA. Environmental Pollution, 2008, 153, 362-368.	7.5	102
151	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>). International Journal of Phytoremediation, 2008, 10, 47-60.	3.1	62
152	Removal of cadmium from contaminated waters using saltbush (Atriplex canescens) biomass: identification of Cd binding sites. International Journal of Environment and Pollution, 2008, 34, 28.	0.2	3
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