

# Jorge Gardea-Torresdey

## List of Publications by Citations

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325  
papers

22,731  
citations

85  
h-index

139  
g-index

342  
ext. papers

25,316  
ext. citations

7.5  
avg, IF

7.11  
L-index

#	Paper	IF	Citations
325	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
324	Alfalfa Sprouts: A Natural Source for the Synthesis of Silver Nanoparticles. <i>Langmuir</i> , <b>2003</b> , 19, 1357-1364		727
323	Formation and Growth of Au Nanoparticles inside Live Alfalfa Plants. <i>Nano Letters</i> , <b>2002</b> , 2, 397-401	11.5	696
322	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
321	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
320	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
319	Soybean susceptibility to manufactured nanomaterials with evidence for food quality and soil fertility interruption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E2451-6	11.5	377
318	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
317	Trophic transfer, transformation, and impact of engineered nanomaterials in terrestrial environments. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 2526-40	10.3	321
316	Synthesis of plant-mediated gold nanoparticles and catalytic role of biomatrix-embedded nanomaterials. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 5137-42	10.3	307
315	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
314	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
313	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
312	Organic-coated silver nanoparticles in biological and environmental conditions: fate, stability and toxicity. <i>Advances in Colloid and Interface Science</i> , <b>2014</b> , 204, 15-34	14.3	267
311	Effect of chemical modification of algal carboxyl groups on metal ion binding. <i>Environmental Science &amp; Technology</i> , <b>1990</b> , 24, 1372-1378	10.3	247
310	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
309	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

308	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
307	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
306	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
305	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
304	Comparative environmental fate and toxicity of copper nanomaterials. <i>NanoImpact</i> , <b>2017</b> , 7, 28-40	5.6	208
303	Characterization of Cr(VI) binding and reduction to Cr(III) by the agricultural byproducts of Avena monida (oat) biomass. <i>Journal of Hazardous Materials</i> , <b>2000</b> , 80, 175-88	12.8	206
302	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
301	Bioaccumulation of cadmium, chromium and copper by <i>Convolvulus arvensis</i> L.: impact on plant growth and uptake of nutritional elements. <i>Bioresource Technology</i> , <b>2004</b> , 92, 229-35	11	191
300	Aggregation, dissolution, and transformation of copper nanoparticles in natural waters. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 2749-56	10.3	189
299	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
298	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
297	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
296	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
295	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
294	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
293	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
292	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
291	Nanoparticle interactions with co-existing contaminants: joint toxicity, bioaccumulation and risk. <i>Nanotoxicology</i> , <b>2017</b> , 11, 591-612	5.3	172

290	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
289	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
288	Considerations of Environmentally Relevant Test Conditions for Improved Evaluation of Ecological Hazards of Engineered Nanomaterials. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 6124-45	10.3	165
287	Spectroscopic verification of zinc absorption and distribution in the desert plant <i>Prosopis juliflora-velutina</i> (velvet mesquite) treated with ZnO nanoparticles. <i>Chemical Engineering Journal</i> , <b>2011</b> , 170, 346-352	14.7	163
286	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
285	Uptake and effects of five heavy metals on seed germination and plant growth in alfalfa ( <i>Medicago sativa</i> L.). <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2001</b> , 66, 727-34	2.7	156
284	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
283	Evaluation of exposure concentrations used in assessing manufactured nanomaterial environmental hazards: are they relevant?. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 10541-51	10.3	145
282	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
281	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
280	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
279	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
278	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
277	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
276	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
275	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
274	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
273	Effect of mixed cadmium, copper, nickel and zinc at different pHs upon alfalfa growth and heavy metal uptake. <i>Environmental Pollution</i> , <b>2002</b> , 119, 291-301	9.3	130

272	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
271	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
270	Particle-size dependent accumulation and trophic transfer of cerium oxide through a terrestrial food chain. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 13102-9	10.3	120
269	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
268	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
267	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	7.1	117
266	Ecological nanotoxicology: integrating nanomaterial hazard considerations across the subcellular, population, community, and ecosystems levels. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 813-22	24.3	115
265	Nanoparticle and Ionic Zn Promote Nutrient Loading of Sorghum Grain under Low NPK Fertilization. <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 8552-8559	5.7	115
264	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
263	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
262	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
261	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
260	Achieving food security through the very small. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 627-629	28.7	104
259	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
258	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
257	Zinc oxide nanoparticles alleviate drought-induced alterations in sorghum performance, nutrient acquisition, and grain fortification. <i>Science of the Total Environment</i> , <b>2019</b> , 688, 926-934	10.2	100
256	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
255	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

254	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
253	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
252	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
251	Use of X-ray Absorption Spectroscopy and Esterification to Investigate Cr(III) and Ni(II) Ligands in Alfalfa Biomass. <i>Environmental Science &amp; Technology</i> , <b>1999</b> , 33, 150-4	10.3	94
250	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
249	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
248	Citric acid modifies surface properties of commercial CeO <sub>2</sub> nanoparticles reducing their toxicity and cerium uptake in radish ( <i>Raphanus sativus</i> ) seedlings. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 263 Pt 2, 677-84	12.8	91
247	Bioaccumulation and measurement of copper at an alga-modified carbon paste electrode. <i>Analytical Chemistry</i> , <b>1988</b> , 60, 72-6	7.8	91
246	Accumulation of gold nanoparticles in <i>Brassic juncea</i> . <i>International Journal of Phytoremediation</i> , <b>2007</b> , 9, 197-206	3.9	90
245	ENVIRONMENTAL AND BIOLOGICAL APPLICATIONS OF EXTENDED X-RAY ABSORPTION FINE STRUCTURE (EXAFS) AND X-RAY ABSORPTION NEAR EDGE STRUCTURE (XANES) SPECTROSCOPIES. <i>Applied Spectroscopy Reviews</i> , <b>2002</b> , 37, 187-222	4.5	90
244	Sustainable synthesis and remarkable adsorption capacity of MOF/graphene oxide and MOF/CNT based hybrid nanocomposites for the removal of Bisphenol A from water. <i>Science of the Total Environment</i> , <b>2019</b> , 673, 306-317	10.2	89
243	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
242	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
241	Overcoming implementation barriers for nanotechnology in drinking water treatment. <i>Environmental Science: Nano</i> , <b>2016</b> , 3, 1241-1253	7.1	87
240	Laser Ablation Inductively Coupled Plasma Mass Spectrometry: Principles and Applications. <i>Applied Spectroscopy Reviews</i> , <b>2006</b> , 41, 131-150	4.5	80
239	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
238	Soybean plants modify metal oxide nanoparticle effects on soil bacterial communities. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 13489-96	10.3	77
237	Reduction and Accumulation of Gold(III) by Alfalfa Biomass: X-ray Absorption Spectroscopy, pH, and Temperature Dependence. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 4392-4396	10.3	77

236	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
235	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
234	Low risk posed by engineered and incidental nanoparticles in drinking water. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 661-669	28.7	73
233	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
232	Effect of Metalloid and Metal Oxide Nanoparticles on Fusarium Wilt of Watermelon. <i>Plant Disease</i> , <b>2018</b> , 102, 1394-1401	1.5	72
231	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
230	Comparative toxicity assessment of CeO <sub>2</sub> and ZnO nanoparticles towards Sinorhizobium meliloti, 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
229	Damage assessment for soybean cultivated in soil with either CeO or ZnO manufactured nanomaterials. <i>Science of the Total Environment</i> , <b>2017</b> , 579, 1756-1768	10.2	69
228	A study of the removal of selenite and selenate from aqueous solutions using a magnetic iron/manganese oxide nanomaterial and ICP-MS. <i>Microchemical Journal</i> , <b>2010</b> , 96, 324-329	4.8	68
227	Characteristics of arsenic adsorption to sorghum biomass. <i>Journal of Hazardous Materials</i> , <b>2007</b> , 145, 30-5	12.8	68
226	Impacts of copper oxide nanoparticles on bell pepper ( <i>Capsicum annum</i> L.) plants: a full life cycle study. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 83-95	7.1	67
225	Facile Coating of Urea With Low-Dose ZnO Nanoparticles Promotes Wheat Performance and Enhances Zn Uptake Under Drought Stress. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 168	6.2	65
224	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
223	Iron-modified light expanded clay aggregates for the removal of arsenic(V) from groundwater. <i>Microchemical Journal</i> , <b>2008</b> , 88, 7-13	4.8	62
222	Potential of Agave lechuguilla biomass for Cr(III) removal from aqueous solutions: thermodynamic studies. <i>Bioresource Technology</i> , <b>2006</b> , 97, 178-82	11	61
221	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
220	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
219	Chemistry and nanoparticulate compositions of a 10,000 year-old ice core melt water. <i>Water Research</i> , <b>2004</b> , 38, 4282-96	12.5	58

218	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
217	Synthesis and structural analysis of copper(II) cysteine complexes. <i>Inorganica Chimica Acta</i> , <b>2009</b> , 362, 395-401	2.7	57
216	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
215	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
214	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
213	Enhanced formation of silver nanoparticles in Ag <sup>+</sup> -NOM-iron(II, III) systems and antibacterial activity studies. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 3228-35	10.3	56
212	XAS investigations into the mechanism(s) of Au(III) binding and reduction by alfalfa biomass. <i>Microchemical Journal</i> , <b>2002</b> , 71, 193-204	4.8	54
211	Agglomeration Determines Effects of Carbonaceous Nanomaterials on Soybean Nodulation, Dinitrogen Fixation Potential, and Growth in Soil. <i>ACS Nano</i> , <b>2017</b> , 11, 5753-5765	16.7	53
210	Interactive effects of drought, organic fertilizer, and zinc oxide nanoscale and bulk particles on wheat performance and grain nutrient accumulation. <i>Science of the Total Environment</i> , <b>2020</b> , 722, 137808	10.2	53
209	Effects of Manganese Nanoparticle Exposure on Nutrient Acquisition in Wheat ( <i>Triticum aestivum</i> L.). <i>Agronomy</i> , <b>2018</b> , 8, 158	3.6	52
208	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
207	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
206	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
205	Manganese Nanoparticles Control Salinity-Modulated Molecular Responses in <i>Capsicum annum</i> L. through Priming: A Sustainable Approach for Agriculture. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1427-1436	8.3	52
204	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
203	Chemical modification and X-ray absorption studies for lead(II) binding by <i>Medicago sativa</i> (alfalfa) biomass. <i>Microchemical Journal</i> , <b>2002</b> , 71, 287-293	4.8	50
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