Jorge Gardea-Torresdey

List of Publications by Year in Descending Order

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	Reply to the Comment on Foliar application of nanoparticles: mechanisms of absorption, transfer, and multiple impacts by S. Husted, P. M, S. Le Tougaard, A. Pinna and F. Minutello, Environ Sci.: Nano, DOI: 10.1039/D1EN00630D. *Environmental Science: Nano*, **2022**, 9, 1185-1186	7.1	
324	Green synthesized superparamagnetic iron oxide nanoparticles for water treatment with alternative recyclability. *Journal of Molecular Liquids*, **2022**, 356, 118983	6	0
323	Outlining Key Perspectives for the Advancement of Electrocatalytic Remediation of Nitrate from Polluted Waters. *ACS ES&T Engineering*, **2022**, 2, 746-768		1
322	Soil and foliar exposure of soybean (Glycine max) to Cu: Nanoparticle coating-dependent plant responses.. *NanoImpact*, **2022**, 26, 100406	5.6	3
321	Mechanistic insights into phenanthrene acropetal translocation via wheat xylem: Separation and identification of transfer proteins.. *Science of the Total Environment*, **2022**, 155919	10.2	
320	Copper oxide (CuO) nanoparticles affect yield, nutritional quality, and auxin associated gene expression in weedy and cultivated rice (Oryza sativa L.) grains.. *Science of the Total Environment*, **2021**, 810, 152260	10.2	4
319	Impact of engineered nanomaterials on rice (Oryza sativa L.): A critical review of current knowledge.. *Environmental Pollution*, **2021**, 118738	9.3	4
318	Evaluation of the Effects of Nanomaterials on Rice (Oryza sativa L.) Responses: Underlining the Benefits of Nanotechnology for Agricultural Applications. *ACS Agricultural Science and Technology*, **2021**, 1, 44-54		12
317	Engineered Nanomaterials Fate Assessment in Biological Matrices: Recent Milestones in Electron Microscopy. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 4341-4356	8.3	1
316	COVID-19 and Nanoscience in the Developing World: Rapid Detection and Remediation in Wastewater. *Nanomaterials*, **2021**, 11,	5.4	4
315	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	10.2	6
314	Superparamagnetic nanoadsorbents for the removal of trace As(III) in drinking water. *Environmental Advances*, **2021**, 4, 100046	3.5	4
313	Metabolomic analysis reveals dose-dependent alteration of maize (Zea mays L.) metabolites and mineral nutrient profiles upon exposure to zerovalent iron nanoparticles.. *NanoImpact*, **2021**, 23, 100336	5.6	4
312	Effects of different surface-coated nTiO on full-grown carrot plants: Impacts on root splitting, essential elements, and Ti uptake. *Journal of Hazardous Materials*, **2021**, 402, 123768	12.8	11
311	Influence of Single and Combined Mixtures of Metal Oxide Nanoparticles on Eggplant Growth, Yield, and Verticillium Wilt Severity. *Plant Disease*, **2021**, 105, 1153-1161	1.5	6
310	Environmental applications and recent innovations in single particle inductively coupled plasma mass spectrometry (SP-ICP-MS). *Applied Spectroscopy Reviews*, **2021**, 56, 1-26	4.5	20
309	Effects of Engineered Nanoparticles at Various Growth Stages of Crop Plants. *Nanotechnology in the Life Sciences*, **2021**, 209-229	1.1	

308	Soil-Weathered CuO Nanoparticles Compromise Foliar Health and Pigment Production in Spinach (). *Environmental Science & Technology*, **2021**, 55, 13504-13512	10.3	4
307	From mouse to mouse-ear cress: Nanomaterials as vehicles in plant biotechnology. *Exploration*, **2021**, 1, 9-20		13
306	Role of Charge and Size in the Translocation and Distribution of Zinc Oxide Particles in Wheat Cells. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 11556-11564	8.3	5
305	MoS Nanosheets-Cyanobacteria Interaction: Reprogrammed Carbon and Nitrogen Metabolism. *ACS Nano*, **2021**, 15, 16344-16356	16.7	3
304	Responses of Terrestrial Plants to Metallic Nanomaterial Exposure: Mechanistic Insights, Emerging Technologies, and New Research Avenues. *Nanotechnology in the Life Sciences*, **2021**, 165-191	1.1	1
303	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	12.8	24
302	Effect of copper oxide nanoparticles on two varieties of sweetpotato plants. *Plant Physiology and Biochemistry*, **2020**, 154, 277-286	5.4	8
301	Interactive effects of drought, organic fertilizer, and zinc oxide nanoscale and bulk particles on wheat performance and grain nutrient accumulation. *Science of the Total Environment*, **2020**, 722, 137808	10.2	53
300	Sustainable synthesis of zinc oxide nanoparticles for photocatalytic degradation of organic pollutant and generation of hydroxyl radical. *Journal of Molecular Liquids*, **2020**, 307, 112931	6	31
299	Insights into the Biogeochemical Cycling of Cobalt: Precipitation and Transformation of Cobalt Sulfide Nanoparticles under Low-Temperature Aqueous Conditions. *Environmental Science & Technology*, **2020**, 54, 5598-5607	10.3	9
298	Copper nanowires as nanofertilizers for alfalfa plants: Understanding nano-bio systems interactions from microbial genomics, plant molecular responses and spectroscopic studies. *Science of the Total Environment*, **2020**, 742, 140572	10.2	40
297	Silver Nanoparticles Alter Soil Microbial Community Compositions and Metabolite Profiles in Unplanted and Cucumber-Planted Soils. *Environmental Science & Technology*, **2020**, 54, 3334-3342	10.3	44
296	High-Throughput Screening for Engineered Nanoparticles That Enhance Photosynthesis Using Mesophyll Protoplasts. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 3382-3389	5.7	16
295	Facile Coating of Urea With Low-Dose ZnO Nanoparticles Promotes Wheat Performance and Enhances Zn Uptake Under Drought Stress. *Frontiers in Plant Science*, **2020**, 11, 168	6.2	65
294	Long-term assessment of nano and bulk copper compound exposure in sugarcane (Saccharum officinarum). *Science of the Total Environment*, **2020**, 718, 137318	10.2	4
293	Nutritional Status of Tomato () Fruit Grown in -Infested Soil: Impact of Cerium Oxide Nanoparticles. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 1986-1997	5.7	34
292	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	10.2	38
291	Superparamagnetic MOF@GO Ni and Co based hybrid nanocomposites as efficient water pollutant adsorbents. *Science of the Total Environment*, **2020**, 738, 139213	10.2	19

290	Manganese Nanoparticles Control Salinity-Modulated Molecular Responses in Capsicum annuum L. through Priming: A Sustainable Approach for Agriculture. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1427-1436	8.3	52
289	Soybeans Grown with Carbonaceous Nanomaterials Maintain Nitrogen Stoichiometry by Assimilating Soil Nitrogen to Offset Impaired Dinitrogen Fixation. *ACS Nano*, **2020**, 14, 585-594	16.7	5
288	Development of photocatalytic paint based on TiO and photopolymer resin for the degradation of organic pollutants in water. *Science of the Total Environment*, **2020**, 704, 135406	10.2	38
287	Seed Biofortification by Engineered Nanomaterials: A Pathway To Alleviate Malnutrition?. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 12189-12202	5.7	14
286	Antioxidant and defense genetic expressions in corn at early-developmental stage are differentially modulated by copper form exposure (nano, bulk, ionic): Nutrient and physiological effects. *Ecotoxicology and Environmental Safety*, **2020**, 206, 111197	7	8
285	Doing nano-enabled water treatment right: sustainability considerations from design and research through development and implementation. *Environmental Science: Nano*, **2020**, 7, 3255-3278	7.1	5
284	Tracing gypsiferous White Sands aerosols in the shallow critical zone in the northern Sacramento Mountains, New Mexico using Sr/Ca and 87Sr/86Sr ratios. *Geoderma*, **2020**, 372, 114387	6.7	3
283	Mechanism of zinc oxide nanoparticle entry into wheat seedling leaves. *Environmental Science: Nano*, **2020**, 7, 3901-3913	7.1	25
282	Can abiotic stresses in plants be alleviated by manganese nanoparticles or compounds?. *Ecotoxicology and Environmental Safety*, **2019**, 184, 109671	7	28
281	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	12.9	11
280	Antagonistic toxicity of carbon nanotubes and pentachlorophenol to Escherichia coli: Physiological and transcriptional responses. *Carbon*, **2019**, 145, 658-667	10.4	13
279	C60 Fullerols Enhance Copper Toxicity and Alter the Leaf Metabolite and Protein Profile in Cucumber. *Environmental Science & Technology*, **2019**, 53, 2171-2180	10.3	33
278	Fate of engineered nanomaterials in agroenvironments and impacts on agroecosystems **2019**, 105-142		5
277	Interaction of nanomaterials in secondary metabolites accumulation, photosynthesis, and nitrogen fixation in plant systems. *Comprehensive Analytical Chemistry*, **2019**, 84, 55-74	1.9	4
276	Recent advances in nano-enabled fertilizers and pesticides: a critical review of mechanisms of action. *Environmental Science: Nano*, **2019**, 6, 2002-2030	7.1	177
275	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	5.6	14
274	Sustainable synthesis and remarkable adsorption capacity of MOF/graphene oxide and MOF/CNT based hybrid nanocomposites for the removal of Bisphenol A from water. *Science of the Total Environment*, **2019**, 673, 306-317	10.2	89
273	Addition-omission of zinc, copper, and boron nano and bulk oxide particles demonstrate element and size -specific response of soybean to micronutrients exposure. *Science of the Total Environment* , **2019**, 665, 606-616	10.2	40

272	Zinc oxide nanoparticles alleviate drought-induced alterations in sorghum performance, nutrient acquisition, and grain fortification. *Science of the Total Environment*, **2019**, 688, 926-934	10.2	100
271	Joint Nanotoxicology Assessment Provides a New Strategy for Developing Nanoenabled Bioremediation Technologies. *Environmental Science & Technology*, **2019**, 53, 7927-7929	10.3	12
270	Effects of carbonaceous nanomaterials on soil-grown soybeans under combined heat and insect stresses. *Environmental Chemistry*, **2019**, 16, 482-493	3.2	5
269	Study of organochlorine pesticides and heavy metals in soils of the Juarez valley: an important agricultural region between Mexico and the USA. *Environmental Science and Pollution Research*, **2019**, 26, 36401-36409	5.1	7
268	Growth, Gas Exchange, and Mineral Nutrients of Ornamental Grasses Irrigated with Saline Water. *Hortscience: A Publication of the American Society for Hortcultural Science*, **2019**, 54, 1840-1846	2.4	6
267	Uptake, transport, and effects of nano-copper exposure in zucchini (Cucurbita pepo). *Science of the Total Environment*, **2019**, 665, 100-106	10.2	17
266	Biochemical and physiological effects of copper compounds/nanoparticles on sugarcane (Saccharum officinarum). *Science of the Total Environment*, **2019**, 649, 554-562	10.2	19
265	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	10.2	16
264	Effect of Metalloid and Metal Oxide Nanoparticles on Fusarium Wilt of Watermelon. *Plant Disease*, **2018**, 102, 1394-1401	1.5	72
263	Environmental behavior of coated NMs: Physicochemical aspects and plant interactions. *Journal of Hazardous Materials*, **2018**, 347, 196-217	12.8	28
262	Bioaccumulation of CeO Nanoparticles by Earthworms in Biochar-Amended Soil: A Synchrotron Microspectroscopy Study. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 6609-6618	5.7	18
261	Interaction of titanium dioxide nanoparticles with soil components and plants: current knowledge and future research needs – a critical review. *Environmental Science: Nano*, **2018**, 5, 257-278	7.1	107
260	Carbonaceous Nanomaterials Have Higher Effects on Soybean Rhizosphere Prokaryotic Communities During the Reproductive Growth Phase than During Vegetative Growth. *Environmental Science & Technology*, **2018**, 52, 6636-6646	10.3	38
259	Effects of the exposure of TiO nanoparticles on basil (Ocimum basilicum) for two generations. *Science of the Total Environment*, **2018**, 636, 240-248	10.2	27
258	Foliar Exposure of Cu(OH) Nanopesticide to Basil (Ocimum basilicum): Variety-Dependent Copper Translocation and Biochemical Responses. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 3358-3366	5.7	34
257	Insights on ligand interactions with titanium dioxide nanoparticles via dynamic light scattering and electrophoretic light scattering. *Microchemical Journal*, **2018**, 139, 333-338	4.8	
256	Impacts of copper oxide nanoparticles on bell pepper (Capsicum annum L.) plants: a full life cycle study. *Environmental Science: Nano*, **2018**, 5, 83-95	7.1	67
255	Current findings on terrestrial plants – Engineered nanomaterial interactions: Are plants capable of phytoremediating nanomaterials from soil?. *Current Opinion in Environmental Science and Health*, **2018**, 6, 9-15	8.1	25

254	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	10.3	17
253	Low risk posed by engineered and incidental nanoparticles in drinking water. *Nature Nanotechnology*, **2018**, 13, 661-669	28.7	73
252	Achieving food security through the very small. *Nature Nanotechnology*, **2018**, 13, 627-629	28.7	104
251	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	10.2	12
250	Factors affecting fate and transport of engineered nanomaterials in terrestrial environments. *Current Opinion in Environmental Science and Health*, **2018**, 6, 47-53	8.1	18
249	Effects of Manganese Nanoparticle Exposure on Nutrient Acquisition in Wheat (Triticum aestivum L.). *Agronomy*, **2018**, 8, 158	3.6	52
248	Adsorptive Removal of Sulfamethoxazole and Bisphenol A from Contaminated Water using Functionalized Carbonaceous Material Derived from Tea Leaves. *Journal of Environmental Chemical Engineering*, **2018**, 6, 4215-4225	6.8	42
247	Metabolomics Reveals How Cucumber (Cucumis sativus) Reprograms Metabolites To Cope with Silver Ions and Silver Nanoparticle-Induced Oxidative Stress. *Environmental Science & Technology*, **2018**, 52, 8016-8026	10.3	108
246	Finding the conditions for the beneficial use of ZnO nanoparticles towards plants-A review. *Environmental Pollution*, **2018**, 241, 1175-1181	9.3	75
245	Apoplastic and symplastic uptake of phenanthrene in wheat roots. *Environmental Pollution*, **2018**, 233, 331-339	9.3	33
244	Differential effects of copper nanoparticles/microparticles in agronomic and physiological parameters of oregano (Origanum vulgare). *Science of the Total Environment*, **2018**, 618, 306-312	10.2	48
243	Green synthesis of a highly efficient biosorbent for organic, pharmaceutical, and heavy metal pollutants removal: Engineering surface chemistry of polymeric biomass of spent coffee waste. *Journal of Water Process Engineering*, **2018**, 25, 309-319	6.7	41
242	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	9.3	34
241	ZnO nanoparticles increase photosynthetic pigments and decrease lipid peroxidation in soil grown cilantro (Coriandrum sativum). *Plant Physiology and Biochemistry*, **2018**, 132, 120-127	5.4	58
240	Exposure to Weathered and Fresh Nanoparticle and Ionic Zn in Soil Promotes Grain Yield and Modulates Nutrient Acquisition in Wheat (Triticum aestivum L.). *Journal of Agricultural and Food Chemistry*, **2018**, 66, 9645-9656	5.7	41
239	Plant uptake and translocation of contaminants of emerging concern in soil. *Science of the Total Environment*, **2018**, 636, 1585-1596	10.2	100
238	Role of Cerium Compounds in Fusarium Wilt Suppression and Growth Enhancement in Tomato (Solanum lycopersicum). *Journal of Agricultural and Food Chemistry*, **2018**, 66, 5959-5970	5.7	65
237	Minimal Transgenerational Effect of ZnO Nanomaterials on the Physiology and Nutrient Profile of Phaseolus vulgaris. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 7924-7930	8.3	22

236	Biomass conversion of saw dust to a functionalized carbonaceous materials for the removal of Tetracycline, Sulfamethoxazole and Bisphenol A from water. *Journal of Environmental Chemical Engineering*, **2018**, 6, 4329-4338	6.8	45
235	Exposure of engineered nanomaterials to plants: Insights into the physiological and biochemical responses-A review. *Plant Physiology and Biochemistry*, **2017**, 110, 236-264	5.4	240
234	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	5.4	43
233	Interaction of metal oxide nanoparticles with higher terrestrial plants: Physiological and biochemical aspects. *Plant Physiology and Biochemistry*, **2017**, 110, 210-225	5.4	183
232	Surface coating changes the physiological and biochemical impacts of nano-TiO in basil (Ocimum basilicum) plants. *Environmental Pollution*, **2017**, 222, 64-72	9.3	49
231	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	12.8	47
230	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	10.2	37
229	Assessing plant uptake and transport mechanisms of engineered nanomaterials from soil. *MRS Bulletin*, **2017**, 42, 379-384	3.2	26
228	Effect of ZnO nanoparticles on corn seedlings at different temperatures; X-ray absorption spectroscopy and ICP/OES studies. *Microchemical Journal*, **2017**, 134, 54-61	4.8	26
227	Nanoparticle interactions with co-existing contaminants: joint toxicity, bioaccumulation and risk. *Nanotoxicology*, **2017**, 11, 591-612	5.3	172
226	Comparative environmental fate and toxicity of copper nanomaterials. *NanoImpact*, **2017**, 7, 28-40	5.6	208
225	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	10.2	43
224	Agglomeration Determines Effects of Carbonaceous Nanomaterials on Soybean Nodulation, Dinitrogen Fixation Potential, and Growth in Soil. *ACS Nano*, **2017**, 11, 5753-5765	16.7	53
223	Elevated CO levels increase the toxicity of ZnO nanoparticles to goldfish (Carassius auratus) in a water-sediment ecosystem. *Journal of Hazardous Materials*, **2017**, 327, 64-70	12.8	24
222	Damage assessment for soybean cultivated in soil with either CeO or ZnO manufactured nanomaterials. *Science of the Total Environment*, **2017**, 579, 1756-1768	10.2	69
221	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	7.1	21
220	Terrestrial Nanotoxicology: Evaluating the Nano-Biointeractions in Vascular Plants. *Nanomedicine and Nanotoxicology*, **2017**, 21-42	0.3	2
219	Effects of Surface Coating on the Bioactivity of Metal-Based Engineered Nanoparticles: Lessons Learned from Higher Plants. *Nanomedicine and Nanotoxicology*, **2017**, 43-61	0.3	3

218	Nanoparticle and Ionic Zn Promote Nutrient Loading of Sorghum Grain under Low NPK Fertilization. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 8552-8559	5.7	115
217	Elevated CO levels modify TiO nanoparticle effects on rice and soil microbial communities. *Science of the Total Environment*, **2017**, 578, 408-416	10.2	46
216	Physiological and biochemical responses of sunflower (Helianthus annuus L.) exposed to nano-CeO and excess boron: Modulation of boron phytotoxicity. *Plant Physiology and Biochemistry*, **2017**, 110, 50-58	5.4	48
215	Foliar applied nanoscale and microscale CeO2 and CuO alter cucumber (Cucumis sativus) fruit quality. *Science of the Total Environment*, **2016**, 563-564, 904-11	10.2	100
214	Biophysical Methods of Detection and Quantification of Uptake, Translocation, and Accumulation of Nanoparticles **2016**, 29-63		
213	Lessons learned: Are engineered nanomaterials toxic to terrestrial plants?. *Science of the Total Environment*, **2016**, 568, 470-479	10.2	110
212	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	10.2	56
211	Interactions between CeO2 Nanoparticles and the Desert Plant Mesquite: A Spectroscopy Approach. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 1187-1192	8.3	45
210	Cerium Biomagnification in a Terrestrial Food Chain: Influence of Particle Size and Growth Stage. *Environmental Science & Technology*, **2016**, 50, 6782-92	10.3	73
209	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, 956-64	10.2	97
208	Effects of Silver Nanoparticles on Radish Sprouts: Root Growth Reduction and Modifications in the Nutritional Value. *Frontiers in Plant Science*, **2016**, 7, 90	6.2	128
207	Considerations of Environmentally Relevant Test Conditions for Improved Evaluation of Ecological Hazards of Engineered Nanomaterials. *Environmental Science & Technology*, **2016**, 50, 6124-45	10.3	165
206	Effects and Uptake of Nanoparticles in Plants **2016**, 386-408		2
205	Overcoming implementation barriers for nanotechnology in drinking water treatment. *Environmental Science: Nano*, **2016**, 3, 1241-1253	7.1	87
204	Plant-based green synthesis of metallic nanoparticles: scientific curiosity or a realistic alternative to chemical synthesis?. *Nanotechnology for Environmental Engineering*, **2016**, 1, 1	5.1	112
203	Adsorption of Arsenic(V) Oxyanion from Aqueous Solutions by Using Protonated Chitosan Flakes. *Separation Science and Technology*, **2015**, 150615133810006	2.5	2
202	Physiological and biochemical response of soil-grown barley (Hordeum vulgare L.) to cerium oxide nanoparticles. *Environmental Science and Pollution Research*, **2015**, 22, 10551-8	5.1	125
201	Wastewater compounds in urban shallow groundwater wells correspond to exfiltration probabilities of nearby sewers. *Water Research*, **2015**, 85, 467-75	12.5	27

200	Environmental Effects of Nanoceria on Seed Production of Common Bean (Phaseolus vulgaris): A Proteomic Analysis. *Environmental Science & Technology*, **2015**, 49, 13283-93	10.3	77
199	Copper nanoparticles/compounds impact agronomic and physiological parameters in cilantro (Coriandrum sativum). *Environmental Sciences: Processes and Impacts*, **2015**, 17, 1783-93	4.3	101
198	Physiological and Biochemical Changes Imposed by CeO2 Nanoparticles on Wheat: A Life Cycle Field Study. *Environmental Science & Technology*, **2015**, 49, 11884-93	10.3	134
197	Toxic effects of copper-based nanoparticles or compounds to lettuce (Lactuca sativa) and alfalfa (Medicago sativa). *Environmental Sciences: Processes and Impacts*, **2015**, 17, 177-85	4.3	173
196	Synthesis of protonated chitosan flakes for the removal of vanadium(III, IV and V) oxyanions from aqueous solutions. *Microchemical Journal*, **2015**, 118, 1-11	4.8	56
195	Differential effects of cerium oxide nanoparticles on rice, wheat, and barley roots: a fourier transform infrared (FT-IR) microspectroscopy study. *Applied Spectroscopy*, **2015**, 69, 287-95	3.1	44
194	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, 60-9	10.2	132
193	Monitoring the environmental effects of CeO2 and ZnO nanoparticles through the life cycle of corn (Zea mays) plants and in situ EXRF mapping of nutrients in kernels. *Environmental Science & Technology*, **2015**, 49, 2921-8	10.3	148
192	Aggregation, dissolution, and transformation of copper nanoparticles in natural waters. *Environmental Science & Technology*, **2015**, 49, 2749-56	10.3	189
191	Chemistry, Biochemistry of Nanoparticles, and Their Role in Antioxidant Defense System in Plants **2015**, 1-17		36
190	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	6.2	59
189	Organic-coated silver nanoparticles in biological and environmental conditions: fate, stability and toxicity. *Advances in Colloid and Interface Science*, **2014**, 204, 15-34	14.3	267
188	Evidence of translocation and physiological impacts of foliar applied CeO2 nanoparticles on cucumber (Cucumis sativus) plants. *Environmental Science & Technology*, **2014**, 48, 4376-85	10.3	215
187	Trophic transfer, transformation, and impact of engineered nanomaterials in terrestrial environments. *Environmental Science & Technology*, **2014**, 48, 2526-40	10.3	321
186	Exposure studies of core-shell Fe/Fe(3)O(4) and Cu/CuO NPs to lettuce (Lactuca sativa) plants: Are they a potential physiological and nutritional hazard?. *Journal of Hazardous Materials*, **2014**, 267, 255-63	12.8	173
185	Particle-size dependent accumulation and trophic transfer of cerium oxide through a terrestrial food chain. *Environmental Science & Technology*, **2014**, 48, 13102-9	10.3	120
184	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	5.4	91
183	Soybean plants modify metal oxide nanoparticle effects on soil bacterial communities. *Environmental Science & Technology*, **2014**, 48, 13489-96	10.3	77

182	Evaluation of exposure concentrations used in assessing manufactured nanomaterial environmental hazards: are they relevant?. *Environmental Science & Technology*, **2014**, 48, 10541-51	10.3	145
181	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	14.7	45
180	Cerium oxide nanoparticles impact yield and modify nutritional parameters in wheat (Triticum aestivum L.). *Journal of Agricultural and Food Chemistry*, **2014**, 62, 9669-75	5.7	159
179	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	12.8	143
178	Random amplified polymorphic DNA reveals that TiO2 nanoparticles are genotoxic to Cucurbita pepo. *Journal of Zhejiang University: Science A*, **2014**, 15, 618-623	2.1	33
177	Cerium dioxide and zinc oxide nanoparticles alter the nutritional value of soil cultivated soybean plants. *Plant Physiology and Biochemistry*, **2014**, 80, 128-35	5.4	144
176	CeO□and ZnO nanoparticles change the nutritional qualities of cucumber (Cucumis sativus). *Journal of Agricultural and Food Chemistry*, **2014**, 62, 2752-9	5.7	216
175	Physiological effects of nanoparticulate ZnO in green peas (Pisum sativum L.) cultivated in soil. *Metallomics*, **2014**, 6, 132-8	4.5	178
174	Enhanced formation of silver nanoparticles in Ag+-NOM-iron(II, III) systems and antibacterial activity studies. *Environmental Science & Technology*, **2014**, 48, 3228-35	10.3	56
173	Exposure of cerium oxide nanoparticles to kidney bean shows disturbance in the plant defense mechanisms. *Journal of Hazardous Materials*, **2014**, 278, 279-87	12.8	134
172	Sorption of Cr(III) and Cr(VI) to High and Low Pressure Synthetic Nano-Magnetite (FeO)Particles. *Chemical Engineering Journal*, **2014**, 254, 171-180	14.7	34
171	Effects of copper sulfate on seedlings of Prosopis pubescens (screwbean mesquite). *International Journal of Phytoremediation*, **2014**, 16, 1031-41	3.9	10
170	Alginate modifies the physiological impact of CeO2 nanoparticles in corn seedlings cultivated in soil. *Journal of Environmental Sciences*, **2014**, 26, 382-9	6.4	24
169	Prosopis pubescens (screw bean mesquite) seedlings are hyperaccumulators of copper. *Archives of Environmental Contamination and Toxicology*, **2013**, 65, 212-23	3.2	8
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