Gregory V. Lowry

List of Publications by Citations

Source: https://exaly.com/author-pdf/1724450/gregory-v-lowry-publications-by-citations.pdf

Version: 2024-04-09

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.

160 18,666 67 136 h-index g-index citations papers 20,897 7.07 170 9.4 avg, IF L-index ext. papers ext. citations

#	Paper	IF	Citations
160	Towards a definition of inorganic nanoparticles from an environmental, health and safety perspective. <i>Nature Nanotechnology</i> , 2009 , 4, 634-41	28.7	1306
159	Environmental transformations of silver nanoparticles: impact on stability and toxicity. <i>Environmental Science & Environmental Science & Environmenta</i>	10.3	1096
158	Transformations of nanomaterials in the environment. <i>Environmental Science & Environmental Science & </i>	10.3	835
157	Aggregation and sedimentation of aqueous nanoscale zerovalent iron dispersions. <i>Environmental Science & Environmental Science</i>	10.3	814
156	Nanoparticle aggregation: challenges to understanding transport and reactivity in the environment. <i>Journal of Environmental Quality</i> , 2010 , 39, 1909-24	3.4	791
155	Titanium dioxide (P25) produces reactive oxygen species in immortalized brain microglia (BV2): implications for nanoparticle neurotoxicity. <i>Environmental Science & Environmental Science & Environme</i>	10.3	722
154	TCE dechlorination rates, pathways, and efficiency of nanoscale iron particles with different properties. <i>Environmental Science & Environmental & Env</i>	10.3	644
153	Stabilization of aqueous nanoscale zerovalent iron dispersions by anionic polyelectrolytes: adsorbed anionic polyelectrolyte layer properties and their effect on aggregation and sedimentation. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 795-814	2.3	419
152	Sulfidation processes of PVP-coated silver nanoparticles in aqueous solution: impact on dissolution rate. <i>Environmental Science & Environmental & Environment</i>	10.3	395
151	Effect of particle age (Fe0 content) and solution pH on NZVI reactivity: H2 evolution and TCE dechlorination. <i>Environmental Science & Environmental S</i>	10.3	380
150	Surface Modifications Enhance Nanoiron Transport and NAPL Targeting in Saturated Porous Media. <i>Environmental Engineering Science</i> , 2007 , 24, 45-57	2	368
149	Size-controlled dissolution of organic-coated silver nanoparticles. <i>Environmental Science & Environmental Science & Technology</i> , 2012 , 46, 752-9	10.3	338
148	Long-term transformation and fate of manufactured ag nanoparticles in a simulated large scale freshwater emergent wetland. <i>Environmental Science & Environmental Science & En</i>	10.3	321
147	Congener-specific dechlorination of dissolved PCBs by microscale and nanoscale zerovalent iron in a water/methanol solution. <i>Environmental Science & Environmental Science & </i>	10.3	314
146	Sulfidation of silver nanoparticles: natural antidote to their toxicity. <i>Environmental Science & Environmental Science & Technology</i> , 2013 , 47, 13440-8	10.3	309
145	Effect of chloride on the dissolution rate of silver nanoparticles and toxicity to E. coli. <i>Environmental Science & Environmental Science & Environme</i>	10.3	304
144	Fate of zinc oxide and silver nanoparticles in a pilot wastewater treatment plant and in processed biosolids. <i>Environmental Science & Environmental S</i>	10.3	288

(2009-2005)

143	Adsorbed triblock copolymers deliver reactive iron nanoparticles to the oil/water interface. <i>Nano Letters</i> , 2005 , 5, 2489-94	11.5	282
142	Opportunities and challenges for nanotechnology in the agri-tech revolution. <i>Nature Nanotechnology</i> , 2019 , 14, 517-522	28.7	281
141	Effect of TCE concentration and dissolved groundwater solutes on NZVI-promoted TCE dechlorination and H2 evolution. <i>Environmental Science & amp; Technology</i> , 2007 , 41, 7881-7	10.3	271
140	Low concentrations of silver nanoparticles in biosolids cause adverse ecosystem responses under realistic field scenario. <i>PLoS ONE</i> , 2013 , 8, e57189	3.7	258
139	Modeling nanomaterial environmental fate in aquatic systems. <i>Environmental Science & Environmental Sc</i>	10.3	209
138	Effects of nano-scale zero-valent iron particles on a mixed culture dechlorinating trichloroethylene. <i>Bioresource Technology</i> , 2010 , 101, 1141-6	11	206
137	Adsorbed polyelectrolyte coatings decrease Fe(0) nanoparticle reactivity with TCE in water: conceptual model and mechanisms. <i>Environmental Science & Environmental Science & </i>	10.3	199
136	Trichloroethene Hydrodechlorination in Water by Highly Disordered Monometallic Nanoiron. <i>Chemistry of Materials</i> , 2005 , 17, 5315-5322	9.6	193
135	Cysteine-induced modifications of zero-valent silver nanomaterials: implications for particle surface chemistry, aggregation, dissolution, and silver speciation. <i>Environmental Science & Environmental Science & Environment</i>	10.3	192
134	Chemical transformations during aging of zerovalent iron nanoparticles in the presence of common groundwater dissolved constituents. <i>Environmental Science & Environmental Sc</i>	10.3	192
133	Guidance to improve the scientific value of zeta-potential measurements in nanoEHS. <i>Environmental Science: Nano</i> , 2016 , 3, 953-965	7.1	173
132	Methylation of mercury by bacteria exposed to dissolved, nanoparticulate, and microparticulate mercuric sulfides. <i>Environmental Science & Environmental Science & Environment</i>	10.3	164
131	Field-scale transport and transformation of carboxymethylcellulose-stabilized nano zero-valent iron. <i>Environmental Science & Environmental Science & </i>	10.3	164
130	Removal of Antibiotic Florfenicol by Sulfide-Modified Nanoscale Zero-Valent Iron. <i>Environmental Science & Environmental Scien</i>	10.3	163
129	Effect of kaolinite, silica fines and pH on transport of polymer-modified zero valent iron nano-particles in heterogeneous porous media. <i>Journal of Colloid and Interface Science</i> , 2012 , 370, 1-10	9.3	156
128	Nanoparticle Size and Coating Chemistry Control Foliar Uptake Pathways, Translocation, and Leaf-to-Rhizosphere Transport in Wheat. <i>ACS Nano</i> , 2019 , 13, 5291-5305	16.7	151
127	Nanotechnology for sustainable food production: promising opportunities and scientific challenges. <i>Environmental Science: Nano</i> , 2017 , 4, 767-781	7.1	148
126	Fe0 nanoparticles remain mobile in porous media after aging due to slow desorption of polymeric surface modifiers. <i>Environmental Science & Environmental Science & Environmen</i>	10.3	140

125	Using CaO- and MgO-rich industrial waste streams for carbon sequestration. <i>Energy Conversion and Management</i> , 2005 , 46, 687-699	10.6	139
124	Estimating attachment of nano- and submicrometer-particles coated with organic macromolecules in porous media: development of an empirical model. <i>Environmental Science & amp; Technology</i> , 2010 , 44, 4531-8	10.3	137
123	Sulfidation mechanism for zinc oxide nanoparticles and the effect of sulfidation on their solubility. <i>Environmental Science & Environmental &</i>	10.3	132
122	Effects of molecular weight distribution and chemical properties of natural organic matter on gold nanoparticle aggregation. <i>Environmental Science & Environmental Science & </i>	10.3	128
121	Emerging contaminant or an old toxin in disguise? Silver nanoparticle impacts on ecosystems. <i>Environmental Science & Environmental Science & Environm</i>	10.3	125
120	Transport and deposition of polymer-modified Fe0 nanoparticles in 2-D heterogeneous porous media: effects of particle concentration, Fe0 content, and coatings. <i>Environmental Science & Technology</i> , 2010 , 44, 9086-93	10.3	122
119	Natural organic matter alters biofilm tolerance to silver nanoparticles and dissolved silver. <i>Environmental Science & Environmental &</i>	10.3	121
118	Critical review: impacts of macromolecular coatings on critical physicochemical processes controlling environmental fate of nanomaterials. <i>Environmental Science: Nano</i> , 2016 , 3, 283-310	7.1	117
117	Hydrophobic interactions increase attachment of gum Arabic- and PVP-coated Ag nanoparticles to hydrophobic surfaces. <i>Environmental Science & Environmental Science & Environm</i>	10.3	117
116	CuO Nanoparticle Dissolution and Toxicity to Wheat (Triticum aestivum) in Rhizosphere Soil. <i>Environmental Science & Environmental Science & Environme</i>	10.3	108
115	Dechlorination Mechanism of 2,4-Dichlorophenol by Magnetic MWCNTs Supported Pd/Fe Nanohybrids: Rapid Adsorption, Gradual Dechlorination, and Desorption of Phenol. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 7333-42	9.5	107
114	Impact of sulfidation on the bioavailability and toxicity of silver nanoparticles to Caenorhabditis elegans. <i>Environmental Pollution</i> , 2015 , 196, 239-46	9.3	106
113	Reactivity, Selectivity, and Long-Term Performance of Sulfidized Nanoscale Zerovalent Iron with Different Properties. <i>Environmental Science & Environmental Science & Environ</i>	10.3	100
112	Impact of Surface Charge on Cerium Oxide Nanoparticle Uptake and Translocation by Wheat (Triticum aestivum). <i>Environmental Science & Environmental Sc</i>	10.3	97
111	Empirical correlations to estimate agglomerate size and deposition during injection of a polyelectrolyte-modified Fe0 nanoparticle at high particle concentration in saturated sand. <i>Journal of Contaminant Hydrology</i> , 2010 , 118, 152-64	3.9	94
110	Technology readiness and overcoming barriers to sustainably implement nanotechnology-enabled plant agriculture. <i>Nature Food</i> , 2020 , 1, 416-425	14.4	90
109	Environmental occurrences, behavior, fate, and ecological effects of nanomaterials: an introduction to the special series. <i>Journal of Environmental Quality</i> , 2010 , 39, 1867-74	3.4	89
108	Current status and future direction for examining engineered nanoparticles in natural systems. <i>Environmental Chemistry</i> , 2014 , 11, 351	3.2	88

(2016-2020)

107	Sulfur Loading and Speciation Control the Hydrophobicity, Electron Transfer, Reactivity, and Selectivity of Sulfidized Nanoscale Zerovalent Iron. <i>Advanced Materials</i> , 2020 , 32, e1906910	24	83	
106	Progress towards standardized and validated characterizations for measuring physicochemical properties of manufactured nanomaterials relevant to nano health and safety risks. <i>NanoImpact</i> , 2018 , 9, 14-30	5.6	83	
105	Macroscopic and microscopic observations of particle-facilitated mercury transport from New Idria and Sulphur Bank mercury mine tailings. <i>Environmental Science & Environmental Science & Environment</i>	10.3	83	
104	Speciation Matters: Bioavailability of Silver and Silver Sulfide Nanoparticles to Alfalfa (Medicago sativa). <i>Environmental Science & Environmental Sc</i>	10.3	81	
103	Correlation of the physicochemical properties of natural organic matter samples from different sources to their effects on gold nanoparticle aggregation in monovalent electrolyte. <i>Environmental Science & Environmental & E</i>	10.3	79	
102	Nanomaterials in Biosolids Inhibit Nodulation, Shift Microbial Community Composition, and Result in Increased Metal Uptake Relative to Bulk/Dissolved Metals. <i>Environmental Science & Emp; Technology</i> , 2015 , 49, 8751-8	10.3	77	
101	Polymer-modified Fe0 nanoparticles target entrapped NAPL in two dimensional porous media: effect of particle concentration, NAPL saturation, and injection strategy. <i>Environmental Science & Environmental Science</i>	10.3	77	
100	Microbial bioavailability of covalently bound polymer coatings on model engineered nanomaterials. <i>Environmental Science & Environmental Science & Env</i>	10.3	76	
99	Stream dynamics and chemical transformations control the environmental fate of silver and zinc oxide nanoparticles in a watershed-scale model. <i>Environmental Science & Environmental Science & Enviro</i>	85 ⁻⁹ 3	75	
98	Sulfidation of copper oxide nanoparticles and properties of resulting copper sulfide. <i>Environmental Science: Nano</i> , 2014 , 1, 347-357	7.1	73	
97	A functional assay-based strategy for nanomaterial risk forecasting. <i>Science of the Total Environment</i> , 2015 , 536, 1029-1037	10.2	70	
96	Meditations on the ubiquity and mutability of nano-sized materials in the environment. <i>ACS Nano</i> , 2011 , 5, 8466-70	16.7	70	
95	Modeling nanosilver transformations in freshwater sediments. <i>Environmental Science & Environmental Sc</i>	10.3	69	
94	Adsorption of polychlorinated biphenyls to activated carbon: equilibrium isotherms and a preliminary assessment of the effect of dissolved organic matter and biofilm loadings. <i>Water Research</i> , 2008 , 42, 575-84	12.5	68	
93	Mechanisms of Neutralization of Bauxite Residue by Carbon Dioxide. <i>Journal of Environmental Engineering, ASCE</i> , 2009 , 135, 433-438	2	67	
92	Distributing sulfidized nanoscale zerovalent iron onto phosphorus-functionalized biochar for enhanced removal of antibiotic florfenicol. <i>Chemical Engineering Journal</i> , 2019 , 359, 713-722	14.7	67	
91	Time and Nanoparticle Concentration Affect the Extractability of Cu from CuO NP-Amended Soil. <i>Environmental Science & Environmental &</i>	10.3	64	
90	Bacterial Nanocellulose Aerogel Membranes: Novel High-Porosity Materials for Membrane Distillation. <i>Environmental Science and Technology Letters</i> , 2016 , 3, 85-91	11	61	

89	Comparative study of polymeric stabilizers for magnetite nanoparticles using ATRP. <i>Langmuir</i> , 2010 , 26, 16890-900	4	58
88	Impacts of Pristine and Transformed Ag and Cu Engineered Nanomaterials on Surficial Sediment Microbial Communities Appear Short-Lived. <i>Environmental Science & Environmental </i>	10.3	56
87	Effect of Soil Organic Matter, Soil pH, and Moisture Content on Solubility and Dissolution Rate of CuO NPs in Soil. <i>Environmental Science & Environmental Science & Environme</i>	10.3	55
86	Electromagnetic Induction of Zerovalent Iron (ZVI) Powder and Nanoscale Zerovalent Iron (NZVI) Particles Enhances Dechlorination of Trichloroethylene in Contaminated Groundwater and Soil: Proof of Concept. <i>Environmental Science & Enhology</i> , 2016 , 50, 872-80	10.3	55
85	Sulfur Dose and Sulfidation Time Affect Reactivity and Selectivity of Post-Sulfidized Nanoscale Zerovalent Iron. <i>Environmental Science & Environmental Science</i> & 2019, 53, 13344-13352	10.3	55
84	Chemistry of the Acid Neutralization Capacity of Bauxite Residue. <i>Environmental Engineering Science</i> , 2009 , 26, 873-881	2	55
83	Uptake and Distribution of Silver in the Aquatic Plant Landoltia punctata (Duckweed) Exposed to Silver and Silver Sulfide Nanoparticles. <i>Environmental Science & Environmental Science & Environmenta</i>	10.3	51
82	Guiding the design space for nanotechnology to advance sustainable crop production. <i>Nature Nanotechnology</i> , 2020 , 15, 801-810	28.7	49
81	Aging of Dissolved Copper and Copper-based Nanoparticles in Five Different Soils: Short-term Kinetics vs. Long-term Fate. <i>Journal of Environmental Quality</i> , 2017 , 46, 1198-1205	3.4	49
80	Thermal decomposition of nano-enabled thermoplastics: Possible environmental health and safety implications. <i>Journal of Hazardous Materials</i> , 2016 , 305, 87-95	12.8	46
79	Nanoparticle surface charge influences translocation and leaf distribution in vascular plants with contrasting anatomy. <i>Environmental Science: Nano</i> , 2019 , 6, 2508-2519	7.1	46
78	Development and Placement of a Sorbent-Amended Thin Layer Sediment Cap in the Anacostia River. <i>Soil and Sediment Contamination</i> , 2007 , 16, 313-322	3.2	46
77	Comparative Persistence of Engineered Nanoparticles in a Complex Aquatic Ecosystem. <i>Environmental Science & Environmental Sci</i>	10.3	44
76	Size-Based Differential Transport, Uptake, and Mass Distribution of Ceria (CeO) Nanoparticles in Wetland Mesocosms. <i>Environmental Science & Environmental Science & Environme</i>	10.3	44
75	Gold nanoparticle biodissolution by a freshwater macrophyte and its associated microbiome. <i>Nature Nanotechnology</i> , 2018 , 13, 1072-1077	28.7	44
74	Parameter identifiability in application of soft particle electrokinetic theory to determine polymer and polyelectrolyte coating thicknesses on colloids. <i>Langmuir</i> , 2012 , 28, 10334-47	4	42
73	Iron and Sulfur Precursors Affect Crystalline Structure, Speciation, and Reactivity of Sulfidized Nanoscale Zerovalent Iron. <i>Environmental Science & Environmental Science & </i>	10.3	41
72	Much ado about #eframing the debate over appropriate fate descriptors in nanoparticle environmental risk modeling. <i>Environmental Science: Nano</i> , 2015 , 2, 27-32	7.1	39

(2021-2016)

71	In Situ Measurement of CuO and Cu(OH)2 Nanoparticle Dissolution Rates in Quiescent Freshwater Mesocosms. <i>Environmental Science and Technology Letters</i> , 2016 , 3, 375-380	11	39
70	In situ remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. <i>Environmental Science: Nano</i> , 2019 , 6, 1283-1302	7.1	38
69	Temperature- and pH-Responsive Star Polymers as Nanocarriers with Potential for Agrochemical Delivery. <i>ACS Nano</i> , 2020 , 14, 10954-10965	16.7	38
68	Physical and chemical characteristics of potential seal strata in regions considered for demonstrating geological saline CO2 sequestration. <i>Environmental Earth Sciences</i> , 2011 , 64, 925-948	2.9	38
67	A comparison of the effects of natural organic matter on sulfidated and nonsulfidated nanoscale zerovalent iron colloidal stability, toxicity, and reactivity to trichloroethylene. <i>Science of the Total Environment</i> , 2019 , 671, 254-261	10.2	37
66	Research strategy to determine when novel nanohybrids pose unique environmental risks. <i>Environmental Science: Nano</i> , 2015 , 2, 11-18	7.1	37
65	Mobility of Four Common Mercury Species in Model and Natural Unsaturated Soils. <i>Environmental Science & Environmental Science</i>	10.3	37
64	Partitioning behavior of organic contaminants in carbon storage environments: a critical review. <i>Environmental Science & Environmental Science & Envi</i>	10.3	35
63	Distinct transcriptomic responses of Caenorhabditis elegans to pristine and sulfidized silver nanoparticles. <i>Environmental Pollution</i> , 2016 , 213, 314-321	9.3	34
62	Quantifying the efficiency and selectivity of organohalide dechlorination by zerovalent iron. <i>Environmental Sciences: Processes and Impacts</i> , 2020 , 22, 528-542	4.3	32
61	Field Evaluation of Bauxite Residue Neutralization by Carbon Dioxide, Vegetation, and Organic Amendments. <i>Journal of Environmental Engineering, ASCE</i> , 2010 , 136, 1045-1053	2	32
60	Critical Review: Role of Inorganic Nanoparticle Properties on Their Foliar Uptake and Translocation. <i>Environmental Science & Technology</i> , 2021 , 55, 13417-13431	10.3	32
59	Comparative lifecycle inventory (LCI) of greenhouse gas (GHG) emissions of enhanced oil recovery (EOR) methods using different CO2 sources. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 16, 129-144	4.2	30
58	Temporal Evolution of Copper Distribution and Speciation in Roots of Triticum aestivum Exposed to CuO, Cu(OH), and CuS Nanoparticles. <i>Environmental Science & Environmental S</i>	10.3	27
57	CuO Nanoparticles Alter the Rhizospheric Bacterial Community and Local Nitrogen Cycling for Wheat Grown in a Calcareous Soil. <i>Environmental Science & Environmental Science &</i>	10.3	25
56	Protein coating composition targets nanoparticles to leaf stomata and trichomes. <i>Nanoscale</i> , 2020 , 12, 3630-3636	7.7	25
55	Life cycle considerations of nano-enabled agrochemicals: are today's tools up to the task?. <i>Environmental Science: Nano</i> , 2018 , 5, 1057-1069	7.1	25
54	Unveiling the Role of Sulfur in Rapid Defluorination of Florfenicol by Sulfidized Nanoscale Zero-Valent Iron in Water under Ambient Conditions. <i>Environmental Science & Environmental Science & Envir</i>	10.3	25

53	Electromagnetic induction of foam-based nanoscale zerovalent iron (NZVI) particles to thermally enhance non-aqueous phase liquid (NAPL) volatilization in unsaturated porous media: Proof of concept. <i>Chemosphere</i> , 2017 , 183, 323-331	8.4	24
52	Effect of Initial Speciation of Copper- and Silver-Based Nanoparticles on Their Long-Term Fate and Phytoavailability in Freshwater Wetland Mesocosms. <i>Environmental Science & Environmental &</i>	10.3	24
51	Modified MODFLOW-based model for simulating the agglomeration and transport of polymer-modified Fe nanoparticles in saturated porous media. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 7180-7199	5.1	24
50	Effect of silver concentration and chemical transformations on release and antibacterial efficacy in silver-containing textiles. <i>NanoImpact</i> , 2018 , 11, 51-57	5.6	24
49	Biogenic Cyanide Production Promotes Dissolution of Gold Nanoparticles in Soil. <i>Environmental Science & Environmental Science</i>	10.3	24
48	Effect of emplaced nZVI mass and groundwater velocity on PCE dechlorination and hydrogen evolution in water-saturated sand. <i>Journal of Hazardous Materials</i> , 2017 , 322, 136-144	12.8	23
47	Effect of CeO2 nanomaterial surface functional groups on tissue and subcellular distribution of Ce in tomato (Solanum lycopersicum). <i>Environmental Science: Nano</i> , 2019 , 6, 273-285	7.1	23
46	Adsorbed poly(aspartate) coating limits the adverse effects of dissolved groundwater solutes on Fe nanoparticle reactivity with trichloroethylene. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 7157-7169	5.1	23
45	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. <i>Environmental Science: Nano</i> , 2020 , 7, 13-36	7.1	23
44	Inhibition of bacterial surface colonization by immobilized silver nanoparticles depends critically on the planktonic bacterial concentration. <i>Journal of Colloid and Interface Science</i> , 2016 , 467, 17-27	9.3	22
43	Partitioning of uranyl between ferrihydrite and humic substances at acidic and circum-neutral pH. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 215, 122-140	5.5	22
42	Engineered nanoparticles interact with nutrients to intensify eutrophication in a wetland ecosystem experiment. <i>Ecological Applications</i> , 2018 , 28, 1435-1449	4.9	22
41	Impact of mercury speciation on its removal from water by activated carbon and organoclay. <i>Water Research</i> , 2019 , 157, 600-609	12.5	21
40	High molecular weight components of natural organic matter preferentially adsorb onto nanoscale zero valent iron and magnetite. <i>Science of the Total Environment</i> , 2018 , 628-629, 177-185	10.2	21
39	Press or pulse exposures determine the environmental fate of cerium nanoparticles in stream mesocosms. <i>Environmental Toxicology and Chemistry</i> , 2016 , 35, 1213-23	3.8	21
38	Biogeochemical transformations of mercury in solid waste landfills and pathways for release. <i>Environmental Sciences: Processes and Impacts</i> , 2016 , 18, 176-89	4.3	21
37	Nanotechnology patenting trends through an environmental lens: analysis of materials and applications. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	21
36	Accurate and fast numerical algorithms for tracking particle size distributions during nanoparticle aggregation and dissolution. <i>Environmental Science: Nano</i> , 2017 , 4, 89-104	7.1	19

(2020-2018)

35	Speciation of Mercury in Selected Areas of the Petroleum Value Chain. <i>Environmental Science & Technology</i> , 2018 , 52, 1655-1664	10.3	18
34	Characterization of engineered alumina nanofibers and their colloidal properties in water. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	17
33	Differential Reactivity of Copper- and Gold-Based Nanomaterials Controls Their Seasonal Biogeochemical Cycling and Fate in a Freshwater Wetland Mesocosm. <i>Environmental Science & Technology</i> , 2020 , 54, 1533-1544	10.3	17
32	Characterizing convective heat transfer coefficients in membrane distillation cassettes. <i>Journal of Membrane Science</i> , 2017 , 538, 108-121	9.6	14
31	Neutralization of Bauxite Residue with Acidic Fly Ash. <i>Environmental Engineering Science</i> , 2009 , 26, 431	-4 <u>-4</u> 0	14
30	Sulfidized Nanoscale Zero-Valent Iron: Tuning the Properties of This Complex Material for Efficient Groundwater Remediation. <i>Accounts of Materials Research</i> , 2021 , 2, 420-431	7.5	14
29	Persistence of copper-based nanoparticle-containing foliar sprays in Lactuca sativa (lettuce) characterized by spICP-MS. <i>Journal of Nanoparticle Research</i> , 2019 , 21, 1	2.3	13
28	From mouse to mouse-ear cress: Nanomaterials as vehicles in plant biotechnology. <i>Exploration</i> , 2021 , 1, 9-20		13
27	Measurement of Setschenow constants for six hydrophobic compounds in simulated brines and use in predictive modeling for oil and gas systems. <i>Chemosphere</i> , 2016 , 144, 2247-56	8.4	12
26	Nanoparticle core properties affect attachment of macromolecule-coated nanoparticles to silica surfaces. <i>Environmental Chemistry</i> , 2014 , 11, 257	3.2	12
25	Reduction in bacterial contamination of hospital textiles by a novel silver-based laundry treatment. American Journal of Infection Control, 2016 , 44, 1705-1708	3.8	11
24	Copper release and transformation following natural weathering of nano-enabled pressure-treated lumber. <i>Science of the Total Environment</i> , 2019 , 668, 234-244	10.2	10
23	Star Polymer Size, Charge Content, and Hydrophobicity Affect their Leaf Uptake and Translocation in Plants. <i>Environmental Science & Environmental Sci</i>	10.3	9
22	Comparative Study of Effects of CO2Concentration and pH on Microbial Communities from a Saline Aquifer, a Depleted Oil Reservoir, and a Freshwater Aquifer. <i>Environmental Engineering Science</i> , 2016 , 33, 806-816	2	9
21	Measurement and Modeling of Setschenow Constants for Selected Hydrophilic Compounds in NaCl and CaCl Simulated Carbon Storage Brines. <i>Accounts of Chemical Research</i> , 2017 , 50, 1332-1341	24.3	8
20	Graphite nanoparticle addition to fertilizers reduces nitrate leaching in growth of lettuce (Lactuca sativa). <i>Environmental Science: Nano</i> , 2020 , 7, 127-138	7.1	8
19	Time-dependent bacterial transcriptional response to CuO nanoparticles differs from that of Cu2+ and provides insights into CuO nanoparticle toxicity mechanisms. <i>Environmental Science: Nano</i> , 2017 , 4, 2321-2335	7.1	7
18	Multistep Method to Extract Moderately Soluble Copper Oxide Nanoparticles from Soil for Quantification and Characterization. <i>Analytical Chemistry</i> , 2020 , 92, 9620-9628	7.8	6

17	New Linear Partitioning Models Based on Experimental Water: Supercritical CO2 Partitioning Data of Selected Organic Compounds. <i>Environmental Science & Environmental Science </i>	10.3	6
16	Preparation of palladized carbon nanotubes encapsulated iron composites: highly efficient dechlorination for trichloroethylene and low corrosion of nanoiron. <i>Royal Society Open Science</i> , 2018 , 5, 172242	3.3	5
15	Response to Comment on Bulfidation of Silver Nanoparticles: Natural Antidote to Their Toxicity Environmental Science & Technology, 2014 , 48, 6051-6052	10.3	5
14	Methanol-based extraction protocol for insoluble and moderately water-soluble nanoparticles in plants to enable characterization by single particle ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 299-314	4.4	5
13	Impacts of Sediment Particle Grain Size and Mercury Speciation on Mercury Bioavailability Potential. <i>Environmental Science & Environmental Science & </i>	10.3	5
12	Visualization tool for correlating nanomaterial properties and biological responses in zebrafish. <i>Environmental Science: Nano</i> , 2016 , 3, 1280-1292	7.1	4
11	Phosphate Polymer Nanogel for Selective and Efficient Rare Earth Element Recovery. <i>Environmental Science & Environmental Scie</i>	10.3	4
10	Copper and Gold Nanoparticles Increase Nutrient Excretion Rates of Primary Consumers. <i>Environmental Science & Environmental S</i>	10.3	3
9	Investigation of pore water and soil extraction tests for characterizing the fate of poorly soluble metal-oxide nanoparticles. <i>Chemosphere</i> , 2021 , 267, 128885	8.4	3
8	Amphiphilic Thiol Polymer Nanogel Removes Environmentally Relevant Mercury Species from Both Produced Water and Hydrocarbons. <i>Environmental Science & Environmental Science &</i>	10.3	3
7	Star Polymers with Designed Reactive Oxygen Species Scavenging and Agent Delivery Functionality Promote Plant Stress Tolerance <i>ACS Nano</i> , 2022 , 16, 4467-4478	16.7	3
6	Sulfide-Modified NZVI (S-NZVI): Synthesis, Characterization, and Reactivity 2019 , 359-386		2
5	Inching closer to realistic exposure models. <i>Nature Nanotechnology</i> , 2018 , 13, 983-985	28.7	2
4	Mechanistic, Mechanistic-Based Empirical, and Continuum-Based Concepts and Models for the Transport of Polyelectrolyte-Modified Nanoscale Zerovalent Iron (NZVI) in Saturated Porous Media 2019 , 235-291		1
3	Challenges Facing the Environmental Nanotechnology Research Enterprise 2016, 1-19		1
2	Sorption and transformation of biocides from hydraulic fracturing in the Marcellus Shale: a review. <i>Environmental Chemistry Letters</i> ,1	13.3	

Biological Barriers, Processes, and Transformations at the SoilPlantAtmosphere Interfaces
Driving the Uptake, Translocation, and Bioavailability of Inorganic Nanoparticles to Plants **2022**, 123-152