

Arturo A Keller

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

198
papers

12,819
citations

60
h-index

109
g-index

206
ext. papers

14,548
ext. citations

7.8
avg, IF

7.03
L-index

| # | Paper | IF | Citations |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 198 | Stability and aggregation of metal oxide nanoparticles in natural aqueous matrices. <i>Environmental Science & Technology</i> , 2010 , 44, 1962-7 | 10.3 | 1040 |
| 197 | Global life cycle releases of engineered nanomaterials. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1 | 2.3 | 910 |
| 196 | Predicted Releases of Engineered Nanomaterials: From Global to Regional to Local. <i>Environmental Science and Technology Letters</i> , 2014 , 1, 65-70 | 11 | 564 |
| 195 | Engineered nanomaterials for water treatment and remediation: Costs, benefits, and applicability. <i>Chemical Engineering Journal</i> , 2016 , 286, 640-662 | 14.7 | 456 |
| 194 | Impacts of metal oxide nanoparticles on marine phytoplankton. <i>Environmental Science & Technology</i> , 2010 , 44, 7329-34 | 10.3 | 248 |
| 193 | Emerging patterns for engineered nanomaterials in the environment: a review of fate and toxicity studies. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1 | 2.3 | 219 |
| 192 | Comparative environmental fate and toxicity of copper nanomaterials. <i>NanoImpact</i> , 2017 , 7, 28-40 | 5.6 | 208 |
| 191 | Influence of natural organic matter on the aggregation and deposition of titanium dioxide nanoparticles. <i>Journal of Hazardous Materials</i> , 2011 , 189, 556-63 | 12.8 | 205 |
| 190 | Role of morphology in the aggregation kinetics of ZnO nanoparticles. <i>Water Research</i> , 2010 , 44, 2948-56 | 12.5 | 200 |
| 189 | TiO ₂ nanoparticles are phototoxic to marine phytoplankton. <i>PLoS ONE</i> , 2012 , 7, e30321 | 3.7 | 197 |
| 188 | Clay particles destabilize engineered nanoparticles in aqueous environments. <i>Environmental Science & Technology</i> , 2012 , 46, 7520-6 | 10.3 | 191 |
| 187 | Magnetic sulfide-modified nanoscale zerovalent iron (S-nZVI) for dissolved metal ion removal. <i>Water Research</i> , 2015 , 74, 47-57 | 12.5 | 189 |
| 186 | Aggregation, dissolution, and transformation of copper nanoparticles in natural waters. <i>Environmental Science & Technology</i> , 2015 , 49, 2749-56 | 10.3 | 189 |
| 185 | Influence of extracellular polymeric substances on the long-term fate, dissolution, and speciation of copper-based nanoparticles. <i>Environmental Science & Technology</i> , 2014 , 48, 12561-8 | 10.3 | 186 |
| 184 | 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> , 2015 , 17, 177-85 | 4.3 | 173 |
| 183 | Effect of surface coating and organic matter on the uptake of CeO ₂ NPs by corn plants grown in soil: Insight into the uptake mechanism. <i>Journal of Hazardous Materials</i> , 2012 , 225-226, 131-8 | 12.8 | 170 |
| 182 | Considerations of Environmentally Relevant Test Conditions for Improved Evaluation of Ecological Hazards of Engineered Nanomaterials. <i>Environmental Science & Technology</i> , 2016 , 50, 6124-45 | 10.3 | 165 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 181 | Assessing the Risk of Engineered Nanomaterials in the Environment: Development and Application of the nanoFate Model. <i>Environmental Science & Technology</i> , 2017 , 51, 5541-5551 | 10.3 | 160 |
| 180 | (1)H NMR and GC-MS Based Metabolomics Reveal Defense and Detoxification Mechanism of Cucumber Plant under Nano-Cu Stress. <i>Environmental Science & Technology</i> , 2016 , 50, 2000-10 | 10.3 | 158 |
| 179 | Estimating Potential Life Cycle Releases of Engineered Nanomaterials from Wastewater Treatment Plants. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1656-1665 | 8.3 | 156 |
| 178 | The effect of humic acid on the aggregation of titanium dioxide nanoparticles under different pH and ionic strengths. <i>Science of the Total Environment</i> , 2014 , 487, 375-80 | 10.2 | 150 |
| 177 | Water-energy nexus for urban water systems: A comparative review on energy intensity and environmental impacts in relation to global water risks. <i>Applied Energy</i> , 2017 , 205, 589-601 | 10.7 | 137 |
| 176 | Toxicity of nano-zero valent iron to freshwater and marine organisms. <i>PLoS ONE</i> , 2012 , 7, e43983 | 3.7 | 136 |
| 175 | Simultaneous removal of cadmium and nitrate in aqueous media by nanoscale zerovalent iron (nZVI) and Au doped nZVI particles. <i>Water Research</i> , 2014 , 63, 102-11 | 12.5 | 134 |
| 174 | EDTA functionalized magnetic nanoparticle sorbents for cadmium and lead contaminated water treatment. <i>Water Research</i> , 2015 , 80, 159-68 | 12.5 | 129 |
| 173 | Micromodel Observation of the Role of Oil Layers in Three-Phase Flow. <i>Transport in Porous Media</i> , 1997 , 26, 277-297 | 3.1 | 123 |
| 172 | Transport of colloids in saturated porous media: A pore-scale observation of the size exclusion effect and colloid acceleration. <i>Water Resources Research</i> , 2003 , 39, | 5.4 | 119 |
| 171 | Metabolomics to Detect Response of Lettuce (<i>Lactuca sativa</i>) to Cu(OH) ₂ Nanopesticides: Oxidative Stress Response and Detoxification Mechanisms. <i>Environmental Science & Technology</i> , 2016 , 50, 9697-707 | 10.3 | 119 |
| 170 | Heteroaggregation of nanoparticles with biocolloids and geocolloids. <i>Advances in Colloid and Interface Science</i> , 2015 , 226, 24-36 | 14.3 | 116 |
| 169 | Pore-scale processes that control dispersion of colloids in saturated porous media. <i>Water Resources Research</i> , 2004 , 40, | 5.4 | 115 |
| 168 | A new insight on the core-shell structure of zerovalent iron nanoparticles and its application for Pb(II) sequestration. <i>Journal of Hazardous Materials</i> , 2013 , 263 Pt 2, 685-93 | 12.8 | 112 |
| 167 | Comparative analysis of energy intensity and carbon emissions in wastewater treatment in USA, Germany, China and South Africa. <i>Applied Energy</i> , 2016 , 184, 873-881 | 10.7 | 110 |
| 166 | Metabolomics Reveals How Cucumber (<i>Cucumis sativus</i>) Reprograms Metabolites To Cope with Silver Ions and Silver Nanoparticle-Induced Oxidative Stress. <i>Environmental Science & Technology</i> , 2018 , 52, 8016-8026 | 10.3 | 108 |
| 165 | Magnetic permanently confined micelle arrays for treating hydrophobic organic compound contamination. <i>Journal of the American Chemical Society</i> , 2009 , 131, 182-8 | 16.4 | 107 |
| 164 | Heteroaggregation of engineered nanoparticles and kaolin clays in aqueous environments. <i>Water Research</i> , 2015 , 80, 130-8 | 12.5 | 104 |

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| 163 | Release of engineered nanomaterials from personal care products throughout their life cycle. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1 | 2.3 | 104 |
| 162 | Mobility of capped silver nanoparticles under environmentally relevant conditions. <i>Environmental Science & Technology</i> , 2012 , 46, 6985-91 | 10.3 | 104 |
| 161 | The Role of Scale and Technology Maturity in Life Cycle Assessment of Emerging Technologies: A Case Study on Carbon Nanotubes. <i>Journal of Industrial Ecology</i> , 2015 , 19, 51-60 | 7.2 | 103 |
| 160 | Metal oxide nanomaterials in seawater: linking physicochemical characteristics with biological response in sea urchin development. <i>Journal of Hazardous Materials</i> , 2011 , 192, 1565-71 | 12.8 | 102 |
| 159 | Pore-scale visualization of colloid straining and filtration in saturated porous media using micromodels. <i>Water Resources Research</i> , 2006 , 42, | 5.4 | 96 |
| 158 | A review of visualization techniques of biocolloid transport processes at the pore scale under saturated and unsaturated conditions. <i>Advances in Water Resources</i> , 2007 , 30, 1392-1407 | 4.7 | 95 |
| 157 | Uptake, accumulation, and biotransformation of metal oxide nanoparticles by a marine suspension-feeder. <i>Journal of Hazardous Materials</i> , 2012 , 225-226, 139-45 | 12.8 | 93 |
| 156 | Environmental release, fate and ecotoxicological effects of manufactured ceria nanomaterials. <i>Environmental Science: Nano</i> , 2014 , 1, 533-548 | 7.1 | 92 |
| 155 | Release and detection of nanosized copper from a commercial antifouling paint. <i>Water Research</i> , 2016 , 102, 374-382 | 12.5 | 92 |
| 154 | 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> , 2013 , 15, 260-6 | 4.3 | 88 |
| 153 | Species sensitivity distributions for engineered nanomaterials. <i>Environmental Science & Technology</i> , 2015 , 49, 5753-9 | 10.3 | 85 |
| 152 | Interactions between Algal Extracellular Polymeric Substances and Commercial TiO Nanoparticles in Aqueous Media. <i>Environmental Science & Technology</i> , 2016 , 50, 12258-12265 | 10.3 | 84 |
| 151 | Long-term colloidal stability and metal leaching of single wall carbon nanotubes: effect of temperature and extracellular polymeric substances. <i>Water Research</i> , 2014 , 49, 236-50 | 12.5 | 80 |
| 150 | Persistence of commercial nanoscaled zero-valent iron (nZVI) and by-products. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1 | 2.3 | 78 |
| 149 | Calculation of water footprint of the iron and steel industry: a case study in Eastern China. <i>Journal of Cleaner Production</i> , 2015 , 92, 274-281 | 10.3 | 77 |
| 148 | Environmental Stresses Increase Photosynthetic Disruption by Metal Oxide Nanomaterials in a Soil-Grown Plant. <i>ACS Nano</i> , 2015 , 9, 11737-49 | 16.7 | 77 |
| 147 | Transport of colloids in unsaturated porous media: A pore-scale observation of processes during the dissolution of air-water interface. <i>Water Resources Research</i> , 2003 , 39, | 5.4 | 77 |
| 146 | Free riding in voluntary environmental programs: The case of the U.S. EPA WasteWise program. <i>Policy Sciences</i> , 2005 , 38, 91-106 | 4.3 | 77 |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 145 | Metabolomics Reveals Cu(OH) Nanopesticide-Activated Anti-oxidative Pathways and Decreased Beneficial Antioxidants in Spinach Leaves. <i>Environmental Science & Technology</i> , 2017 , 51, 10184-10194 | 10.3 | 76 |
| 144 | Early breakthrough of colloids and bacteriophage MS2 in a water-saturated sand column. <i>Water Resources Research</i> , 2004 , 40, | 5.4 | 75 |
| 143 | Influence of material properties on TiO ₂ nanoparticle agglomeration. <i>PLoS ONE</i> , 2013 , 8, e81239 | 3.7 | 70 |
| 142 | Magnetic Nanoparticle Adsorbents for Emerging Organic Contaminants. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 731-736 | 8.3 | 65 |
| 141 | Interactions, Transformations, and Bioavailability of Nano-Copper Exposed to Root Exudates. <i>Environmental Science & Technology</i> , 2017 , 51, 9774-9783 | 10.3 | 63 |
| 140 | Accumulation and toxicity of metal oxide nanoparticles in a soft-sediment estuarine amphipod. <i>Aquatic Toxicology</i> , 2013 , 142-143, 441-6 | 5.1 | 61 |
| 139 | The University of California Center for the Environmental Implications of Nanotechnology. <i>Environmental Science & Technology</i> , 2009 , 43, 6453-7 | 10.3 | 61 |
| 138 | Detection of nanoparticles in edible plant tissues exposed to nano-copper using single-particle ICP-MS. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1 | 2.3 | 60 |
| 137 | Stability, metal leaching, photoactivity and toxicity in freshwater systems of commercial single wall carbon nanotubes. <i>Water Research</i> , 2013 , 47, 4074-85 | 12.5 | 60 |
| 136 | Particle-size dependent sorption and desorption of pesticides within a water-soil-nonionic surfactant system. <i>Environmental Science & Technology</i> , 2008 , 42, 3381-7 | 10.3 | 60 |
| 135 | Competitive removal of Pb and malachite green from water by magnetic phosphate nanocomposites. <i>Water Research</i> , 2019 , 150, 442-451 | 12.5 | 58 |
| 134 | Effects and implications of trophic transfer and accumulation of CeO ₂ nanoparticles in a marine mussel. <i>Environmental Science & Technology</i> , 2014 , 48, 1517-24 | 10.3 | 56 |
| 133 | H NMR and GC-MS based metabolomics reveal nano-Cu altered cucumber (<i>Cucumis sativus</i>) fruit nutritional supply. <i>Plant Physiology and Biochemistry</i> , 2017 , 110, 138-146 | 5.4 | 55 |
| 132 | Comparative Metabolic Response between Cucumber (<i>Cucumis sativus</i>) and Corn (<i>Zea mays</i>) to a Cu(OH) Nanopesticide. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 6628-6636 | 5.7 | 55 |
| 131 | Simultaneous removal of PAHs and metal contaminants from water using magnetic nanoparticle adsorbents. <i>Science of the Total Environment</i> , 2016 , 571, 1029-36 | 10.2 | 54 |
| 130 | Removal of Arsenic and Phosphate from Aqueous Solution by Metal (Hydr-)oxide Coated Sand. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1128-1138 | 8.3 | 53 |
| 129 | Intermittent filtration of bacteria and colloids in porous media. <i>Water Resources Research</i> , 2005 , 41, | 5.4 | 53 |
| 128 | Rapid Life-Cycle Impact Screening Using Artificial Neural Networks. <i>Environmental Science & Technology</i> , 2017 , 51, 10777-10785 | 10.3 | 49 |

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| 127 | Environmental feedbacks and engineered nanoparticles: mitigation of silver nanoparticle toxicity to <i>Chlamydomonas reinhardtii</i> by algal-produced organic compounds. <i>PLoS ONE</i> , 2013 , 8, e74456 | 3.7 | 48 |
| 126 | GC-TOF-MS based metabolomics and ICP-MS based metallomics of cucumber (<i>Cucumis sativus</i>) fruits reveal alteration of metabolites profile and biological pathway disruption induced by nano copper. <i>Environmental Science: Nano</i> , 2016 , 3, 1114-1123 | 7.1 | 47 |
| 125 | Comparative photoactivity of CeO ₂ , Fe ₂ O ₃ , TiO ₂ and ZnO in various aqueous systems. <i>Applied Catalysis B: Environmental</i> , 2011 , 102, 600-607 | 21.8 | 46 |
| 124 | Dynamic Model for the Stocks and Release Flows of Engineered Nanomaterials. <i>Environmental Science & Technology</i> , 2017 , 51, 12424-12433 | 10.3 | 45 |
| 123 | Response at Genetic, Metabolic, and Physiological Levels of Maize (<i>Zea mays</i>) Exposed to a Cu(OH) ₂ Nanopesticide. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8294-8301 | 8.3 | 45 |
| 122 | How do stream organisms respond to, and influence, the concentration of titanium dioxide nanoparticles? A mesocosm study with algae and herbivores. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 2414-22 | 3.8 | 45 |
| 121 | DNAPL Characterization Methods and Approaches, Part 1: Performance Comparisons. <i>Ground Water Monitoring and Remediation</i> , 2001 , 21, 109-123 | 1.4 | 45 |
| 120 | Heteroaggregation of CeO ₂ and TiO ₂ engineered nanoparticles in the aqueous phase: Application of turbiscan stability index and fluorescence excitation-emission matrix (EEM) spectra. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 533, 9-19 | 5.1 | 43 |
| 119 | Dispersion stability and electrokinetic properties of intrinsic plutonium colloids: implications for subsurface transport. <i>Environmental Science & Technology</i> , 2013 , 47, 5626-34 | 10.3 | 43 |
| 118 | Metabolomics Reveals the Molecular Mechanisms of Copper Induced Cucumber Leaf (<i>Cucumis sativus</i>) Senescence. <i>Environmental Science & Technology</i> , 2018 , 52, 7092-7100 | 10.3 | 43 |
| 117 | Occurrence and risk assessment of emerging contaminants in a water reclamation and ecological reuse project. <i>Science of the Total Environment</i> , 2020 , 744, 140977 | 10.2 | 41 |
| 116 | Direct Synthesis of Novel and Reactive Sulfide-modified Nano Iron through Nanoparticle Seeding for Improved Cadmium-Contaminated Water Treatment. <i>Scientific Reports</i> , 2016 , 6, 24358 | 4.9 | 40 |
| 115 | Natural organic matter removal by adsorption onto magnetic permanently confined micelle arrays. <i>Journal of Hazardous Materials</i> , 2011 , 194, 156-61 | 12.8 | 40 |
| 114 | Increased mobility of metal oxide nanoparticles due to photo and thermal induced disagglomeration. <i>PLoS ONE</i> , 2012 , 7, e37363 | 3.7 | 38 |
| 113 | Developmental effects of two different copper oxide nanomaterials in sea urchin (<i>Lytechinus pictus</i>) embryos. <i>Nanotoxicology</i> , 2016 , 10, 671-9 | 5.3 | 37 |
| 112 | Activation of antioxidant and detoxification gene expression in cucumber plants exposed to a Cu(OH) ₂ nanopesticide. <i>Environmental Science: Nano</i> , 2017 , 4, 1750-1760 | 7.1 | 37 |
| 111 | Partitioning of hydrophobic organic compounds within soil-water-surfactant systems. <i>Water Research</i> , 2008 , 42, 2093-101 | 12.5 | 37 |
| 110 | Antioxidant response of cucumber (<i>Cucumis sativus</i>) exposed to nano copper pesticide: Quantitative determination via LC-MS/MS. <i>Food Chemistry</i> , 2019 , 270, 47-52 | 8.5 | 36 |

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| 109 | Photoinduced disaggregation of TiO ₂ nanoparticles enables transdermal penetration. <i>PLoS ONE</i> , 2012 , 7, e48719 | 3.7 | 36 |
| 108 | Application of metabolomics to assess the impact of Cu(OH) ₂ nanopesticide on the nutritional value of lettuce (<i>Lactuca sativa</i>): Enhanced Cu intake and reduced antioxidants. <i>NanoImpact</i> , 2016 , 3-4, 58-66 | 5.6 | 36 |
| 107 | Influence of Phytoplankton on Fate and Effects of Modified Zerovalent Iron Nanoparticles. <i>Environmental Science & Technology</i> , 2016 , 50, 5597-605 | 10.3 | 36 |
| 106 | Effects of nitrate on the treatment of lead contaminated groundwater by nanoscale zerovalent iron. <i>Journal of Hazardous Materials</i> , 2014 , 280, 504-13 | 12.8 | 35 |
| 105 | Effects of dominant material properties on the stability and transport of TiO ₂ nanoparticles and carbon nanotubes in aquatic environments: from synthesis to fate. <i>Environmental Sciences: Processes and Impacts</i> , 2013 , 15, 169-89 | 4.3 | 35 |
| 104 | Photochlorination-induced transformation of graphene oxide: Mechanism and environmental fate. <i>Water Research</i> , 2017 , 124, 372-380 | 12.5 | 35 |
| 103 | Magnetic pollen grains as sorbents for facile removal of organic pollutants in aqueous media. <i>Journal of Hazardous Materials</i> , 2011 , 194, 53-61 | 12.8 | 35 |
| 102 | C60 Fullerenols Enhance Copper Toxicity and Alter the Leaf Metabolite and Protein Profile in Cucumber. <i>Environmental Science & Technology</i> , 2019 , 53, 2171-2180 | 10.3 | 33 |
| 101 | Understanding parameter sensitivity and its management implications in watershed-scale water quality modeling. <i>Water Resources Research</i> , 2006 , 42, | 5.4 | 32 |
| 100 | Minimizing impacts of land use change on ecosystem services using multi-criteria heuristic analysis. <i>Journal of Environmental Management</i> , 2015 , 156, 23-30 | 7.9 | 31 |
| 99 | Effects of pH, ionic strength and humic acid on the removal of TiO ₂ nanoparticles from aqueous phase by coagulation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 450, 161-165 | 5.1 | 31 |
| 98 | Incidence and persistence of silver nanoparticles throughout the wastewater treatment process. <i>Water Research</i> , 2019 , 156, 188-198 | 12.5 | 30 |
| 97 | Removal of heavy metals from aqueous solution using a novel composite of recycled materials. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 425, 6-14 | 5.1 | 30 |
| 96 | Natural Organic Matter Removal by Adsorption onto Carbonaceous Nanoparticles and Coagulation. <i>Journal of Environmental Engineering, ASCE</i> , 2010 , 136, 1075-1081 | 2 | 30 |
| 95 | Adsorption of perchlorate and other oxyanions onto magnetic permanently confined micelle arrays (Mag-PCMAS). <i>Water Research</i> , 2012 , 46, 635-44 | 12.5 | 29 |
| 94 | Microscopic and Spectroscopic Methods Applied to the Measurements of Nanoparticles in the Environment. <i>Applied Spectroscopy Reviews</i> , 2012 , 47, 180-206 | 4.5 | 29 |
| 93 | Implementation of a multidisciplinary approach to solve complex nano EHS problems by the UC Center for the Environmental Implications of Nanotechnology. <i>Small</i> , 2013 , 9, 1428-43 | 11 | 29 |
| 92 | Measurement of Henry's law constant for methyl tert-butyl ether using solid-phase microextraction. <i>Environmental Toxicology and Chemistry</i> , 2001 , 20, 1625-1629 | 3.8 | 29 |

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| 91 | Impacts of Silver Nanoparticles on a Natural Estuarine Plankton Community. <i>Environmental Science & Technology</i> , 2015 , 49, 12968-74 | 10.3 | 28 |
| 90 | Influence of nanoparticle doping on the colloidal stability and toxicity of copper oxide nanoparticles in synthetic and natural waters. <i>Water Research</i> , 2018 , 132, 12-22 | 12.5 | 28 |
| 89 | Simulation tool for assessing the release and environmental distribution of nanomaterials. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 938-51 | 3 | 28 |
| 88 | Transport of colloids in unsaturated porous media: Explaining large-scale behavior based on pore-scale mechanisms. <i>Water Resources Research</i> , 2004 , 40, | 5.4 | 25 |
| 87 | Photosynthetic efficiency predicts toxic effects of metal nanomaterials in phytoplankton. <i>Aquatic Toxicology</i> , 2017 , 183, 85-93 | 5.1 | 24 |
| 86 | Gravity-driven transport of three engineered nanomaterials in unsaturated soils and their effects on soil pH and nutrient release. <i>Water Research</i> , 2016 , 98, 250-60 | 12.5 | 24 |
| 85 | Alginate modifies the physiological impact of CeO ₂ nanoparticles in corn seedlings cultivated in soil. <i>Journal of Environmental Sciences</i> , 2014 , 26, 382-9 | 6.4 | 24 |
| 84 | Proteomic, gene and metabolite characterization reveal the uptake and toxicity mechanisms of cadmium sulfide quantum dots in soybean plants. <i>Environmental Science: Nano</i> , 2019 , 6, 3010-3026 | 7.1 | 23 |
| 83 | Hydrophobic hollow fiber membranes for treating MTBE-contaminated water. <i>Environmental Science & Technology</i> , 2001 , 35, 1875-9 | 10.3 | 23 |
| 82 | Quantitative analysis of changes in amino acids levels for cucumber (<i>Cucumis sativus</i>) exposed to nano copper. <i>NanoImpact</i> , 2018 , 12, 9-17 | 5.6 | 23 |
| 81 | Omics to address the opportunities and challenges of nanotechnology in agriculture. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-42 | 11.1 | 22 |
| 80 | Uncertainty assessment in watershed-scale water quality modeling and management: 1. Framework and application of generalized likelihood uncertainty estimation (GLUE) approach. <i>Water Resources Research</i> , 2007 , 43, | 5.4 | 22 |
| 79 | Influence of light wavelength on the photoactivity, physicochemical transformation, and fate of graphene oxide in aqueous media. <i>Environmental Science: Nano</i> , 2018 , 5, 2590-2603 | 7.1 | 22 |
| 78 | Surface coating determines the response of soybean plants to cadmium sulfide quantum dots. <i>NanoImpact</i> , 2019 , 14, 100151 | 5.6 | 21 |
| 77 | Attenuation coefficients for water quality trading. <i>Environmental Science & Technology</i> , 2014 , 48, 6788-94 | 10.3 | 21 |
| 76 | Impact of Carbon Storage Through Restoration of Drylands on the Global Carbon Cycle. <i>Environmental Management</i> , 1998 , 22, 757-66 | 3.1 | 21 |
| 75 | Soil particle-size dependent partitioning behavior of pesticides within water-soil-cationic surfactant systems. <i>Water Research</i> , 2008 , 42, 3781-8 | 12.5 | 21 |
| 74 | Mass Transfer of Ozone Using a Microporous Diffuser Reactor System. <i>Ozone: Science and Engineering</i> , 2005 , 27, 45-51 | 2.4 | 21 |

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| 73 | Investigation of Two Magnetic Permanently Confined Micelle Array Sorbents Using Nonionic and Cationic Surfactants for the Removal of PAHs and Pesticides from Aqueous Media. <i>Water, Air, and Soil Pollution</i> , 2012 , 223, 3647-3655 | 2.6 | 20 |
| 72 | Stochastic Watershed Water Quality Simulation for TMDL Development A Case Study in the Newport Bay Watershed ¹ . <i>Journal of the American Water Resources Association</i> , 2008 , 44, 1397-1410 | 2.1 | 20 |
| 71 | Short Total Synthesis of [N]-Cylindrospermopsins from NHCl Enables Precise Quantification of Freshwater Cyanobacterial Contamination. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6027-6032 | 16.4 | 19 |
| 70 | DNAPL Characterization Methods and Approaches, Part 2: Cost Comparisons. <i>Ground Water Monitoring and Remediation</i> , 2002 , 22, 46-61 | 1.4 | 19 |
| 69 | Remediation of Cadmium Toxicity by Sulfidized Nano-Iron: The Importance of Organic Material. <i>ACS Nano</i> , 2017 , 11, 10558-10567 | 16.7 | 17 |
| 68 | A stochastic analysis of steady state two-phase flow in heterogeneous media. <i>Water Resources Research</i> , 2005 , 41, | 5.4 | 17 |
| 67 | Low Concentrations of Silver Nanoparticles and Silver Ions Perturb the Antioxidant Defense System and Nitrogen Metabolism in N-Fixing Cyanobacteria. <i>Environmental Science & Technology</i> , 2020 , 54, 15996-16005 | 10.3 | 17 |
| 66 | Highly efficient bacterial removal and disinfection by magnetic barium phosphate nanoflakes with embedded iron oxide nanoparticles. <i>Environmental Science: Nano</i> , 2018 , 5, 1341-1349 | 7.1 | 16 |
| 65 | Fast Multielement Quantification of Nanoparticles in Wastewater and Sludge Using Single-Particle ICP-MS. <i>ACS ES&T Water</i> , 2021 , 1, 205-213 | | 16 |
| 64 | Interactions between polybrominated diphenyl ethers (PBDEs) and TiO nanoparticle in artificial and natural waters. <i>Water Research</i> , 2018 , 146, 98-108 | 12.5 | 16 |
| 63 | Nano and traditional copper and zinc antifouling coatings: metal release and impact on marine sessile invertebrate communities. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1 | 2.3 | 15 |
| 62 | DETERMINING CRITICAL WATER QUALITY CONDITIONS FOR INORGANIC NITROGEN IN DRY, SEMI-URBANIZED WATERSHEDS ¹ . <i>Journal of the American Water Resources Association</i> , 2004 , 40, 721-735 | 2.1 | 15 |
| 61 | Ultra-High-Precision, Pharmacokinetic Measurements Highlight the Need for and a Route Toward More Highly Personalized Medicine. <i>Frontiers in Molecular Biosciences</i> , 2019 , 6, 69 | 5.6 | 14 |
| 60 | Isothermal titration microcalorimetry to determine the thermodynamics of metal ion removal by magnetic nanoparticle sorbents. <i>Environmental Science: Nano</i> , 2016 , 3, 1206-1214 | 7.1 | 14 |
| 59 | Adsorption of hydrophobic organic compounds onto a hydrophobic carbonaceous geosorbent in the presence of surfactants. <i>Environmental Toxicology and Chemistry</i> , 2008 , 27, 1237-43 | 3.8 | 14 |
| 58 | Variation in regional risk of engineered nanoparticles: nanoTiO ₂ as a case study. <i>Environmental Science: Nano</i> , 2019 , 6, 444-455 | 7.1 | 13 |
| 57 | Investigating the Energy-Water Usage Efficiency of the Reuse of Treated Municipal Wastewater for Artificial Groundwater Recharge. <i>Environmental Science & Technology</i> , 2016 , 50, 2044-53 | 10.3 | 13 |
| 56 | Dissolution and Aggregation of Metal Oxide Nanoparticles in Root Exudates and Soil Leachate: Implications for Nanoagrochemical Application. <i>Environmental Science & Technology</i> , 2021 , 55, 13443-13451 | 10.3 | 12 |

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