## Jason M Unrine

List of Publications by Year in descending order

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66343 71685 6,198 79 42 76 citations h-index g-index papers 79 79 79 6540 docs citations times ranked citing authors all docs

| #  | Article  | IF   | Citations |
|----|--|------|-----------|
| 1  | Responses of soil bacteria and fungal communities to pristine and sulfidized zinc oxide nanoparticles relative to Zn ions. Journal of Hazardous Materials, 2021, 405, 124258.  | 12.4 | 28        |
| 2  | Foreword to the research front on â€~Plastics in the Environment'. Environmental Chemistry, 2021, 18, 91.  | 1.5  | 0         |
| 3  | Effects of Soil pH and Coatings on the Efficacy of Polymer coated ZnO Nanoparticulate fertilizers in Wheat ( <i>Triticum aestivum</i> ). Environmental Science & Environmental S | 10.0 | 16        |
| 4  | Delivery of short hairpin RNA in the neotropical brown stink bug, Euschistus heros, using a composite nanomaterial. Pesticide Biochemistry and Physiology, 2021, 177, 104906.  | 3.6  | 5         |
| 5  | The preparation temperature influences the physicochemical nature and activity of nanoceria.<br>Beilstein Journal of Nanotechnology, 2021, 12, 525-540.  | 2.8  | O         |
| 6  | Bloodâ $€$ <sup>™</sup> s Concentration of Lead and Arsenic Associated with Anemia in Peruvian Children. Journal of Environmental and Public Health, 2021, 2021, 1-8.  | 0.9  | 3         |
| 7  | A comparison of blood and toenails as biomarkers of children's exposure to lead and their correlation with cognitive function. Science of the Total Environment, 2020, 700, 134519.  | 8.0  | 15        |
| 8  | Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. Environmental Science: Nano, 2020, 7, 13-36.   | 4.3  | 32        |
| 9  | Optimizing the dispersion of nanoparticulate TiO2-based UV filters in a non-polar medium used in sunscreen formulations – The roles of surfactants and particle coatings. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 599, 124792.   | 4.7  | 14        |
| 10 | RNAi in <i>Spodoptera frugiperda</i> Sf9 Cells via Nanomaterial Mediated Delivery of dsRNA: A Comparison of Poly- <scp>l</scp> -arginine Polyplexes and Poly- <scp>l</scp> -arginine-Functionalized Au Nanoparticles. ACS Applied Materials & Comparison 12, 25645-25657.  | 8.0  | 17        |
| 11 | Polymer-Coated Hydroxyapatite Nanocarrier for Double-Stranded RNA Delivery. Journal of Agricultural and Food Chemistry, 2020, 68, 6811-6818.   | 5.2  | 20        |
| 12 | Nanoceria distribution and effects are mouse-strain dependent. Nanotoxicology, 2020, 14, 827-846.  | 3.0  | 11        |
| 13 | Comparison of Nanomaterials for Delivery of Double-Stranded RNA inCaenorhabditis elegans. Journal of Agricultural and Food Chemistry, 2020, 68, 7926-7934.   | 5.2  | 10        |
| 14 | Differential Reactivity of Copper- and Gold-Based Nanomaterials Controls Their Seasonal Biogeochemical Cycling and Fate in a Freshwater Wetland Mesocosm. Environmental Science & Emp; Technology, 2020, 54, 1533-1544.  | 10.0 | 29        |
| 15 | Efficacy of chitosan/double-stranded RNA polyplex nanoparticles for gene silencing under variable environmental conditions. Environmental Science: Nano, 2020, 7, 1582-1592.   | 4.3  | 9         |
| 16 | Evidence of nickel and other trace elements and their relationship to clinical findings in acute Mesoamerican Nephropathy: A case-control analysis. PLoS ONE, 2020, 15, e0240988.  | 2.5  | 23        |
| 17 | Nanoparticle surface charge influences translocation and leaf distribution in vascular plants with contrasting anatomy. Environmental Science: Nano, 2019, 6, 2508-2519.   | 4.3  | 81        |
| 18 | Surface coating effects on the sorption and dissolution of ZnO nanoparticles in soil. Environmental Science: Nano, 2019, 6, 2495-2507.   | 4.3  | 15        |

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|----|---|--------------|-----------|
| 19 | Foreword to the Research Front on †Nanotechnology and Agriculture'. Environmental Chemistry, 2019, 16, 375.   | 1.5          | O         |
| 20 | Genomic mutations after multigenerational exposure of Caenorhabditis elegans to pristine and sulfidized silver nanoparticles. Environmental Pollution, 2019, 254, 113078.   | 7.5          | 31        |
| 21 | Effect of CeO <sub>2</sub> nanomaterial surface functional groups on tissue and subcellular distribution of Ce in tomato ( <i>Solanum lycopersicum</i> ). Environmental Science: Nano, 2019, 6, 273-285.  | <b>4.</b> 3  | 32        |
| 22 | Enhanced toxicity of environmentally transformed ZnO nanoparticles relative to Zn ions in the epibenthic amphipod <i>Hyalella azteca</i> . Environmental Science: Nano, 2019, 6, 325-340.   | 4.3          | 36        |
| 23 | Toxicogenomic responses of Caenorhabditis elegans to pristine and transformed zinc oxide nanoparticles. Environmental Pollution, 2019, 247, 917-926.  | 7.5          | 34        |
| 24 | Nanoparticle Size and Coating Chemistry Control Foliar Uptake Pathways, Translocation, and Leaf-to-Rhizosphere Transport in Wheat. ACS Nano, 2019, 13, 5291-5305.   | 14.6         | 303       |
| 25 | Strategies for robust and accurate experimental approaches to quantify nanomaterial bioaccumulation across a broad range of organisms. Environmental Science: Nano, 2019, 6, 1619-1656.   | 4.3          | 48        |
| 26 | A case-control study of trace-element status and lung cancer in Appalachian Kentucky. PLoS ONE, 2019, 14, e0212340.   | <b>2.</b> 5  | 12        |
| 27 | Uptake and Bioactivity of Chitosan/Double-Stranded RNA Polyplex Nanoparticles in <i>Caenorhabditis elegans</i> . Environmental Science & Environmental  | 10.0         | 26        |
| 28 | Surface-controlled dissolution rates: a case study of nanoceria in carboxylic acid solutions. Environmental Science: Nano, 2019, 6, 1478-1492.  | 4.3          | 14        |
| 29 | Carboxylic acids accelerate acidic environment-mediated nanoceria dissolution. Nanotoxicology, 2019, 13, 455-475.   | 3.0          | 19        |
| 30 | Comparing plant–insect trophic transfer of Cu from lab-synthesised nano-Cu(OH)2 with a commercial nano-Cu(OH)2 fungicide formulation. Environmental Chemistry, 2019, 16, 411.   | 1.5          | 21        |
| 31 | Functionalized-ZnO-Nanoparticle Seed Treatments to Enhance Growth and Zn Content of Wheat ( <i>Triticum aestivum</i> ) Seedlings. Journal of Agricultural and Food Chemistry, 2018, 66, 12166-12178.  | 5.2          | 47        |
| 32 | Engineered nanoparticles interact with nutrients to intensify eutrophication in a wetland ecosystem experiment. Ecological Applications, 2018, 28, 1435-1449.   | 3.8          | 30        |
| 33 | Size-Based Differential Transport, Uptake, and Mass Distribution of Ceria (CeO <sub>2</sub> ) Nanoparticles in Wetland Mesocosms. Environmental Science & Environmental Science | 10.0         | 52        |
| 34 | Dosing, Not the Dose: Comparing Chronic and Pulsed Silver Nanoparticle Exposures. Environmental Science & Environmental Scienc  | 10.0         | 24        |
| 35 | Plant and Microbial Responses to Repeated Cu(OH)2 Nanopesticide Exposures Under Different Fertilization Levels in an Agro-Ecosystem. Frontiers in Microbiology, 2018, 9, 1769.  | 3 <b>.</b> 5 | 48        |
| 36 | Gold nanoparticle biodissolution by a freshwater macrophyte and its associated microbiome. Nature Nanotechnology, 2018, 13, 1072-1077.  | 31.5         | 68        |

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|----|---|------|-----------|
| 37 | Nanotechnology for sustainable food production: promising opportunities and scientific challenges. Environmental Science: Nano, 2017, 4, 767-781.   | 4.3  | 202       |
| 38 | Impact of Surface Charge on Cerium Oxide Nanoparticle Uptake and Translocation by Wheat ( <i>Triticum aestivum</i> ). Environmental Science & Echnology, 2017, 51, 7361-7368.   | 10.0 | 133       |
| 39 | The role of charge in the toxicity of polymer-coated cerium oxide nanomaterials to Caenorhabditis elegans. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2017, 201, 1-10.  | 2.6  | 12        |
| 40 | Effects of biosolids from a wastewater treatment plant receiving manufactured nanomaterials on Medicago truncatula and associated soil microbial communities at low nanomaterial concentrations. Science of the Total Environment, 2017, 609, 799-806.  | 8.0  | 32        |
| 41 | <i>In Situ</i> Measurement of CuO and Cu(OH) <sub>2</sub> Nanoparticle Dissolution Rates in Quiescent Freshwater Mesocosms. Environmental Science and Technology Letters, 2016, 3, 375-380.   | 8.7  | 50        |
| 42 | Press or pulse exposures determine the environmental fate of cerium nanoparticles in stream mesocosms. Environmental Toxicology and Chemistry, 2016, 35, 1213-1223.   | 4.3  | 22        |
| 43 | Effect of natural organic matter on dissolution and toxicity of sulfidized silver nanoparticles to Caenorhabditis elegans. Environmental Science: Nano, 2016, 3, 728-736.   | 4.3  | 63        |
| 44 | Distinct transcriptomic responses of Caenorhabditis elegans to pristine and sulfidized silver nanoparticles. Environmental Pollution, 2016, 213, 314-321.   | 7.5  | 44        |
| 45 | Nanomaterials in Biosolids Inhibit Nodulation, Shift Microbial Community Composition, and Result in Increased Metal Uptake Relative to Bulk/Dissolved Metals. Environmental Science & Enchnology, 2015, 49, 8751-8758.  | 10.0 | 90        |
| 46 | A functional assay-based strategy for nanomaterial risk forecasting. Science of the Total Environment, 2015, 536, 1029-1037.  | 8.0  | 79        |
| 47 | Toxicogenomic Responses of the Model Legume <i>Medicago truncatula</i> to Aged Biosolids Containing a Mixture of Nanomaterials (TiO <sub>2</sub> , Ag, and ZnO) from a Pilot Wastewater Treatment Plant. Environmental Science & Treatment Plant. Environmental Environmenta  | 10.0 | 70        |
| 48 | Chitosan, Carbon Quantum Dot, and Silica Nanoparticle Mediated dsRNA Delivery for Gene Silencing in <i>Aedes aegypti</i> : A Comparative Analysis. ACS Applied Materials & Interfaces, 2015, 7, 19530-19535.  | 8.0  | 141       |
| 49 | Impact of sulfidation on the bioavailability and toxicity of silver nanoparticles to Caenorhabditis elegans. Environmental Pollution, 2015, 196, 239-246.   | 7.5  | 122       |
| 50 | Influence of Natural Organic Matter and Surface Charge on the Toxicity and Bioaccumulation of Functionalized Ceria Nanoparticles in <i>Caenorhabditis elegans</i> Environmental Science & Eamp; Technology, 2014, 48, 1280-1289.  | 10.0 | 145       |
| 51 | Fate of Zinc Oxide and Silver Nanoparticles in a Pilot Wastewater Treatment Plant and in Processed Biosolids. Environmental Science & Environmental Sc    | 10.0 | 326       |
| 52 | Environmental release, fate and ecotoxicological effects of manufactured ceria nanomaterials. Environmental Science: Nano, 2014, 1, 533-548.  | 4.3  | 110       |
| 53 | Multitechnique Investigation of the pH Dependence of Phosphate Induced Transformations of ZnO<br>Nanoparticles. Environmental Science & Environmental Sci | 10.0 | 85        |
| 54 | Inâ€Vivo Processing of Ceria Nanoparticles inside Liver: Impact on Freeâ€Radical Scavenging Activity and Oxidative Stress. ChemPlusChem, 2014, 79, 1083-1088.   | 2.8  | 65        |

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|----|---|-------------|-----------|
| 55 | Toxicity and Transcriptomic Analysis in <i>Hyalella azteca</i> Suggests Increased Exposure and Susceptibility of Epibenthic Organisms to Zinc Oxide Nanoparticles. Environmental Science & Emp; Technology, 2013, 47, 9453-9460.  | 10.0        | 28        |
| 56 | Behavior of Ag nanoparticles in soil: Effects of particle surface coating, aging and sewage sludge amendment. Environmental Pollution, 2013, 182, 141-149.  | <b>7.</b> 5 | 129       |
| 57 | Elevated concentrations of trace elements in soil do not necessarily reflect metals available to plants. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2013, 48, 219-225.  | 1.5         | 8         |
| 58 | Low Concentrations of Silver Nanoparticles in Biosolids Cause Adverse Ecosystem Responses under Realistic Field Scenario. PLoS ONE, 2013, 8, e57189.  | 2.5         | 284       |
| 59 | Rat brain pro-oxidant effects of peripherally administered 5nm ceria 30 days after exposure.<br>NeuroToxicology, 2012, 33, 1147-1155.   | 3.0         | 44        |
| 60 | Bioaccumulation of Gold Nanomaterials by <i>Manduca sexta</i> hrough Dietary Uptake of Surface Contaminated Plant Tissue. Environmental Science & Envir | 10.0        | 73        |
| 61 | Toxicogenomic Responses of the Model Organism Caenorhabditis elegans to Gold Nanoparticles. Environmental Science & Environmen  | 10.0        | 92        |
| 62 | Distribution, Elimination, and Biopersistence to 90 Days of a Systemically Introduced 30 nm Ceria-Engineered Nanomaterial in Rats. Toxicological Sciences, 2012, 127, 256-268.  | 3.1         | 114       |
| 63 | Bioavailability of Gold Nanomaterials to Plants: Importance of Particle Size and Surface Coating. Environmental Science & Envi  | 10.0        | 221       |
| 64 | Trophic Transfer of Au Nanoparticles from Soil along a Simulated Terrestrial Food Chain Environmental Science & Environmenta    | 10.0        | 147       |
| 65 | Uptake, distribution and toxicity of gold nanoparticles in tobacco ( <i>Nicotiana xanthi</i> ) seedlings. Nanotoxicology, 2012, 6, 353-360.   | 3.0         | 192       |
| 66 | Biotic and Abiotic Interactions in Aquatic Microcosms Determine Fate and Toxicity of Ag<br>Nanoparticles: Part 2–Toxicity and Ag Speciation. Environmental Science & Environmental Science & 2012, 46, 6925-6933.   | 10.0        | 128       |
| 67 | Biotic and Abiotic Interactions in Aquatic Microcosms Determine Fate and Toxicity of Ag<br>Nanoparticles. Part 1. Aggregation and Dissolution. Environmental Science & Eamp; Technology, 2012, 46, 6915-6924.   | 10.0        | 173       |
| 68 | Analysis of engineered nanomaterials in complex matrices (environment and biota): General considerations and conceptual case studies. Environmental Toxicology and Chemistry, 2012, 31, 32-49.  | 4.3         | 390       |
| 69 | Microbial Bioavailability of Covalently Bound Polymer Coatings on Model Engineered Nanomaterials. Environmental Science & Envi  | 10.0        | 84        |
| 70 | Evidence for Biomagnification of Gold Nanoparticles within a Terrestrial Food Chain. Environmental Science & Environmental Sci  | 10.0        | 317       |
| 71 | Effect of silver nanoparticle surface coating on bioaccumulation and reproductive toxicity in earthworms ( $\langle i \rangle$ Eisenia fetida $\langle i \rangle$ ). Nanotoxicology, 2011, 5, 432-444.  | 3.0         | 186       |
| 72 | Characterization of LipL as a Non-heme, Fe(II)-dependent α-Ketoglutarate:UMP Dioxygenase That Generates Uridine-5′-aldehyde during A-90289 Biosynthesis*. Journal of Biological Chemistry, 2011, 286, 7885-7892.  | 3.4         | 47        |

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|----|---|-------------------------|-------------|
| 73 | Concentrations of Arsenic, Chromium, and Nickel in Toenail Samples From Appalachian Kentucky Residents. Journal of Environmental Pathology, Toxicology and Oncology, 2011, 30, 213-223.                       | 1.2                     | 31          |
| 74 | Effects of Particle Size on Chemical Speciation and Bioavailability of Copper to Earthworms ( <i>Eisenia fetida</i> ) Exposed to Copper Nanoparticles. Journal of Environmental Quality, 2010, 39, 1942-1953. | 2.0                     | 153         |
| 75 | Evidence for Bioavailability of Au Nanoparticles from Soil and Biodistribution within Earthworms ( <i>Eisenia fetida</i> ). Environmental Science & Eamp; Technology, 2010, 44, 8308-8313.                    | 10.0                    | 135         |
| 76 | Biodistribution and oxidative stress effects of a systemically-introduced commercial ceria engineered nanomaterial. Nanotoxicology, 2009, 3, 234-248.   | 3.0                     | 92          |
| 77 | Bioaccumulation of trace elements in omnivorous amphibian larvae: Implications for amphibian health and contaminant transport. Environmental Pollution, 2007, 149, 182-192.                                   | 7.5                     | 97          |
| 78 | DIETARY MERCURY EXPOSURE AND BIOACCUMULATION IN SOUTHERN LEOPARD FROG (RANA) Tj ETQq0 0 0 rgE   | 3T <sub>4</sub> /Qverlo | ck 10 Tf 50 |
| 79 | ADVERSE EFFECTS OF ECOLOGICALLY RELEVANT DIETARY MERCURY EXPOSURE IN SOUTHERN LEOPARD FROG (RANA SPHENOCEPHALA) LARVAE. Environmental Toxicology and Chemistry, 2004, 23, 2964.                               | 4.3                     | 43          |