

# Guangliang Liu

## List of Publications by Year in descending order

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44  
papers

1,589  
citations

331259

21  
h-index

344852

36  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1828  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Complexation of Arsenite with Humic Acid in the Presence of Ferric Iron. <i>Environmental Science &amp; Technology</i> , 2011, 45, 3210-3216.  | 4.6 | 146       |
| 2  | Elemental mercury: Its unique properties affect its behavior and fate in the environment. <i>Environmental Pollution</i> , 2017, 229, 69-86.   | 3.7 | 120       |
| 3  | Complexation of arsenite with dissolved organic matter: Conditional distribution coefficients and apparent stability constants. <i>Chemosphere</i> , 2010, 81, 890-896.  | 4.2 | 85        |
| 4  | Distribution of total and methylmercury in different ecosystem compartments in the Everglades: Implications for mercury bioaccumulation. <i>Environmental Pollution</i> , 2008, 153, 257-265.                                | 3.7 | 80        |
| 5  | Degradation of Methylmercury and Its Effects on Mercury Distribution and Cycling in the Florida Everglades. <i>Environmental Science &amp; Technology</i> , 2010, 44, 6661-6666.   | 4.6 | 74        |
| 6  | Mercury characterization in a soil sample collected nearby the DOE Oak Ridge Reservation utilizing sequential extraction and thermal desorption method. <i>Science of the Total Environment</i> , 2006, 369, 384-392.        | 3.9 | 70        |
| 7  | Thiolated arsenicals in arsenic metabolism: Occurrence, formation, and biological implications. <i>Journal of Environmental Sciences</i> , 2016, 49, 59-73.  | 3.2 | 61        |
| 8  | Adsorption kinetics and isotherms of arsenite and arsenate on hematite nanoparticles and aggregates. <i>Journal of Environmental Management</i> , 2017, 186, 261-267.  | 3.8 | 56        |
| 9  | Screening of Potential PFOS Alternatives To Decrease Liver Bioaccumulation: Experimental and Computational Approaches. <i>Environmental Science &amp; Technology</i> , 2019, 53, 2811-2819.                                  | 4.6 | 49        |
| 10 | Arsenic Speciation on Silver Nanofilms by Surface-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2019, 91, 8280-8288.  | 3.2 | 41        |
| 11 | Elemental Mercury in Natural Waters: Occurrence and Determination of Particulate Hg(0). <i>Environmental Science &amp; Technology</i> , 2015, 49, 9742-9749.   | 4.6 | 38        |
| 12 | Estimation of the Major Source and Sink of Methylmercury in the Florida Everglades. <i>Environmental Science &amp; Technology</i> , 2012, 46, 5885-5893.   | 4.6 | 37        |
| 13 | Adsorption of Microcystin LR and LW on Suspended Particulate Matter (SPM) at Different pH. <i>Water, Air, and Soil Pollution</i> , 2008, 192, 67-76.   | 1.1 | 35        |
| 14 | Effect of Enterohepatic Circulation on the Accumulation of Per- and Polyfluoroalkyl Substances: Evidence from Experimental and Computational Studies. <i>Environmental Science &amp; Technology</i> , 2022, 56, 3214-3224.   | 4.6 | 35        |
| 15 | Mercury Mass Budget Estimates and Cycling Seasonality in the Florida Everglades. <i>Environmental Science &amp; Technology</i> , 2008, 42, 1954-1960.  | 4.6 | 34        |
| 16 | Tracing the Uptake, Transport, and Fate of Mercury in Sawgrass ( <i>Cladium jamaicense</i> ) in the Florida Everglades Using a Multi-isotope Technique. <i>Environmental Science &amp; Technology</i> , 2018, 52, 3384-3391. | 4.6 | 34        |
| 17 | Occurrence of Methylmercury in Rice-Based Infant Cereals and Estimation of Daily Dietary Intake of Methylmercury for Infants. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 9569-9578.                       | 2.4 | 31        |
| 18 | Thiolation in arsenic metabolism: a chemical perspective. <i>Metallomics</i> , 2018, 10, 1368-1382.  | 1.0 | 30        |

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|----|---|-----|-----------|
| 19 | Loss and Increase of the Electron Exchange Capacity of Natural Organic Matter during Its Reduction and Reoxidation: The Role of Quinone and Nonquinone Moieties. <i>Environmental Science &amp; Technology</i> , 2022, 56, 6744-6753. | 4.6 | 30        |
| 20 | Spatial Variability in Mercury Cycling and Relevant Biogeochemical Controls in the Florida Everglades. <i>Environmental Science &amp; Technology</i> , 2009, 43, 4361-4366.   | 4.6 | 28        |
| 21 | Studying arsenite-humic acid complexation using size exclusion chromatography-inductively coupled plasma mass spectrometry. <i>Journal of Hazardous Materials</i> , 2013, 262, 1223-1229.   | 6.5 | 26        |
| 22 | Aging and phytoavailability of newly introduced and legacy cadmium in paddy soil and their bioaccessibility in rice grain distinguished by enriched isotope tracing. <i>Journal of Hazardous Materials</i> , 2021, 417, 125998.       | 6.5 | 22        |
| 23 | Dimethylarsinothiyl Glutathione as a Metabolite in Human Multiple Myeloma Cell Lines upon Exposure to Darinaparsin. <i>Chemical Research in Toxicology</i> , 2014, 27, 754-764.   | 1.7 | 21        |
| 24 | Possible pathways for mercury methylation in oxic marine waters. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 3997-4015.   | 6.6 | 21        |
| 25 | Transformation and uptake of silver nanoparticles and silver ions in rice plant ( <i>Oryza sativa</i> L.): the effect of iron plaque and dissolved iron. <i>Environmental Science: Nano</i> , 2020, 7, 599-609.                       | 2.2 | 19        |
| 26 | Understanding foliar accumulation of atmospheric Hg in terrestrial vegetation: Progress and challenges. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 4331-4352.  | 6.6 | 19        |
| 27 | Legacy and Fate of Mercury and Methylmercury in the Florida Everglades. <i>Environmental Science &amp; Technology</i> , 2011, 45, 496-501.  | 4.6 | 15        |
| 28 | Evaluating the role of re-adsorption of dissolved Hg <sup>2+</sup> during cinnabar dissolution using isotope tracer technique. <i>Journal of Hazardous Materials</i> , 2016, 317, 466-475.  | 6.5 | 15        |
| 29 | Occurrence of Mercurous [Hg(I)] Species in Environmental Solid Matrices as Probed by Mild 2-Mercaptoethanol Extraction and HPLC-ICP-MS Analysis. <i>Environmental Science and Technology Letters</i> , 2020, 7, 482-488.              | 3.9 | 15        |
| 30 | Geochemical modeling of mercury speciation in surface water and implications on mercury cycling in the everglades wetland. <i>Science of the Total Environment</i> , 2018, 640-641, 454-465.  | 3.9 | 14        |
| 31 | Decreased bioavailability of both inorganic mercury and methylmercury in anaerobic sediments by sorption on iron sulfide nanoparticles. <i>Journal of Hazardous Materials</i> , 2022, 424, 127399.                                    | 6.5 | 14        |
| 32 | Speciation of thioarsenicals through application of coffee ring effect on gold nanofilm and surface-enhanced Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2020, 1106, 88-95.   | 2.6 | 13        |
| 33 | Dark Reduction of Mercury by Microalgae-Associated Aerobic Bacteria in Marine Environments. <i>Environmental Science &amp; Technology</i> , 2021, 55, 14258-14268.  | 4.6 | 13        |
| 34 | Periphyton as an important source of methylmercury in Everglades water and food web. <i>Journal of Hazardous Materials</i> , 2021, 410, 124551.   | 6.5 | 12        |
| 35 | Mobility and speciation of arsenic in the coal fly ashes collected from the Savannah River Site (SRS). <i>Chemosphere</i> , 2016, 151, 138-144.   | 4.2 | 11        |
| 36 | Enriched isotope tracing to reveal the fractionation and lability of legacy and newly introduced cadmium under different amendments. <i>Journal of Hazardous Materials</i> , 2021, 403, 123975.                                       | 6.5 | 11        |

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|----|--|-----|-----------|
| 37 | Monitoring AuNP Dynamics in the Blood of a Single Mouse Using Single Particle Inductively Coupled Plasma Mass Spectrometry with an Ultralow-Volume High-Efficiency Introduction System. <i>Analytical Chemistry</i> , 2020, 92, 14872-14877. | 3.2 | 9         |
| 38 | Gaseous Elemental Mercury [Hg(0)] Oxidation in Poplar Leaves through a Two-Step Single-Electron Transfer Process. <i>Environmental Science and Technology Letters</i> , 2021, 8, 1098-1103.  | 3.9 | 8         |
| 39 | Particle-Bound Hg(II) is Available for Microbial Uptake as Revealed by a Whole-Cell Biosensor. <i>Environmental Science &amp; Technology</i> , 2022, 56, 6754-6764.  | 4.6 | 8         |
| 40 | Challenges for utilization and management of crop straw from Cd-contaminated soil. <i>Soil Use and Management</i> , 2022, 38, 1337-1339.   | 2.6 | 6         |
| 41 | Occurrence and leaching of silver in municipal sewage sludge in China. <i>Ecotoxicology and Environmental Safety</i> , 2020, 189, 109929.  | 2.9 | 5         |
| 42 | Perfluorooctanesulfonate Induces Hepatomegaly and Lipoatrophy in Mice through Phosphoenolpyruvate Carboxykinase-Mediated Glyceroneogenesis Inhibition. <i>Environmental Science and Technology Letters</i> , 2020, 7, 185-190.               | 3.9 | 5         |
| 43 | Chromatographic framework for coffee ring effect-driven separation of small molecules in surface enhanced Raman spectroscopy analysis. <i>Talanta</i> , 2022, 250, 123688.   | 2.9 | 2         |
| 44 | Binding characteristics of Hg(II) with extracellular polymeric substances: implications for Hg(II) reactivity within periphyton. <i>Environmental Science and Pollution Research</i> , 2022, , 1.  | 2.7 | 1         |