Heileen Hsu-Kim

List of Publications by Year in descending order

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61984 58581 7,192 114 43 82 citations h-index g-index papers 117 117 117 7667 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Utility of Diffusive Gradient in Thin-Film Passive Samplers for Predicting Mercury Methylation Potential and Bioaccumulation in Freshwater Wetlands. Environmental Science & Echnology, 2022, 56, 1743-1752.	10.0	8
2	<i>In Vivo</i> Effects of Silver Nanoparticles on Development, Behavior, and Mitochondrial Function are Altered by Genetic Defects in Mitochondrial Dynamics. Environmental Science & Environmental Sc	10.0	14
3	Amazon forests capture high levels of atmospheric mercury pollution from artisanal gold mining. Nature Communications, 2022, 13, 559.	12.8	67
4	Unraveling Changes to PbS Nanocrystal Surfaces Induced by Thiols. Chemistry of Materials, 2022, 34, 1710-1721.	6.7	12
5	Risk of lead exposure from wild game consumption from cross-sectional studies in Madre de Dios, Peru. The Lancet Regional Health Americas, 2022, 12, 100266.	2.6	4
6	A population-based mercury exposure assessment near an artisanal and small-scale gold mining site in the Peruvian Amazon. Journal of Exposure Science and Environmental Epidemiology, 2021, 31, 126-136.	3.9	19
7	Microbial vesicle-mediated communication: convergence to understand interactions within and between domains of life. Environmental Sciences: Processes and Impacts, 2021, 23, 664-677.	3.5	9
8	Microbe-Encapsulated Silica Gel Biosorbents for Selective Extraction of Scandium from Coal Byproducts. Environmental Science &	10.0	12
9	Distribution of rare earth elements in fly ash derived from the combustion of Illinois Basin coals. Fuel, 2021, 289, 119990.	6.4	19
10	<i>CoNaMadâ€"Cohorte de Nacimiento de Madre de Dios</i> / Madre de Dios Birth Cohort to Study Effects of in-utero Trace Metals Exposure in the Southern Peruvian Amazon. Annals of Global Health, 2021, 87, 69.	2.0	2
11	Lack of Detectable Direct Effects of Silver and Silver Nanoparticles on Mitochondria in Mouse Hepatocytes. Environmental Science & Environmental Scien	10.0	11
12	Signatures of rare earth element distributions in fly ash derived from the combustion of Central Appalachian, Illinois, and Powder River basin coals. Fuel, 2021, 301, 121048.	6.4	13
13	Efficacy of Hair Total Mercury Content as a Biomarker of Methylmercury Exposure to Communities in the Area of Artisanal and Small-Scale Gold Mining in Madre de Dios, Peru. International Journal of Environmental Research and Public Health, 2021, 18, 13350.	2.6	11
14	Deforestation Due to Artisanal and Small-Scale Gold Mining Exacerbates Soil and Mercury Mobilization in Madre de Dios, Peru. Environmental Science & Examp; Technology, 2020, 54, 286-296.	10.0	36
15	Population-based dietary exposure to mercury through fish consumption in the Southern Peruvian Amazon. Environmental Research, 2020, 183, 108720.	7.5	29
16	Caveats to the use of MTT, neutral red, Hoechst and Resazurin to measure silver nanoparticle cytotoxicity. Chemico-Biological Interactions, 2020, 315, 108868.	4.0	30
17	Distinction of strontium isotope ratios between water-soluble and bulk coal fly ash from the United States. International Journal of Coal Geology, 2020, 222, 103464.	5.0	12
18	Techno-Economic and Life Cycle Assessments for Sustainable Rare Earth Recovery from Coal Byproducts using Biosorption. ACS Sustainable Chemistry and Engineering, 2020, 8, 17914-17922.	6.7	30

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19	Mercury and selenium loading in mountaintop mining impacted alkaline streams and riparian food webs. Biogeochemistry, 2020, 150, 109-122.	3.5	8
20	Separation of rare earth elements from mixed-metal feedstocks by micelle enhanced ultrafiltration with sodium dodecyl sulfate. Environmental Technology (United Kingdom), 2020, , 1-13.	2.2	8
21	Elevated Hair Mercury Levels Are Associated With Neurodevelopmental Deficits in Children Living Near Artisanal and Smallâ€Scale Gold Mining in Peru. GeoHealth, 2020, 4, e2019GH000222.	4.0	34
22	Major element composition controls rare earth element solubility during leaching of coal fly ash and coal by-products. International Journal of Coal Geology, 2020, 227, 103532.	5.0	32
23	Plastic pellets trigger feeding responses in sea anemones. Aquatic Toxicology, 2020, 222, 105447.	4.0	21
24	Differential Reactivity of Copper- and Gold-Based Nanomaterials Controls Their Seasonal Biogeochemical Cycling and Fate in a Freshwater Wetland Mesocosm. Environmental Science & Environmental Science & Technology, 2020, 54, 1533-1544.	10.0	29
25	A biosorption-based approach for selective extraction of rare earth elements from coal byproducts. Separation and Purification Technology, 2020, 241, 116726.	7.9	55
26	Evaluation of Peruvian Government Interventions to Reduce Childhood Anemia. Annals of Global Health, 2020, 86, 98.	2.0	5
27	A new framework for approaching precision bioremediation of PAH contaminated soils. Journal of Hazardous Materials, 2019, 378, 120859.	12.4	34
28	Embryonic Fundulus heteroclitus responses to sediment extracts from differentially contaminated sites in the Elizabeth River, VA. Ecotoxicology, 2019, 28, 1126-1135.	2.4	6
29	Relative Reactivity and Bioavailability of Mercury Sorbed to or Coprecipitated with Aged Iron Sulfides. Environmental Science & Environmental Science	10.0	25
30	Nano-Scale Rare Earth Distribution in Fly Ash Derived from the Combustion of the Fire Clay Coal, Kentucky. Minerals (Basel, Switzerland), 2019, 9, 206.	2.0	21
31	Mercury Exposure and Poor Nutritional Status Reduce Response to Six Expanded Program on Immunization Vaccines in Children: An Observational Cohort Study of Communities Affected by Gold Mining in the Peruvian Amazon. International Journal of Environmental Research and Public Health, 2019. 16. 638.	2.6	14
32	<i>In situ</i> remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. Environmental Science: Nano, 2019, 6, 1283-1302.	4.3	65
33	Selective Recovery of Rare Earth Elements from Coal Fly Ash Leachates Using Liquid Membrane Processes. Environmental Science &	10.0	88
34	Predictors of mitochondrial DNA copy number and damage in a mercuryâ€exposed rural Peruvian population near artisanal and smallâ€scale gold mining: An exploratory study. Environmental and Molecular Mutagenesis, 2019, 60, 197-210.	2.2	13
35	Rare earth element associations in the Kentucky State University stoker ash. International Journal of Coal Geology, 2018, 189, 75-82.	5.0	41
36	Ranking Coal Ash Materials for Their Potential to Leach Arsenic and Selenium: Relative Importance of Ash Chemistry and Site Biogeochemistry. Environmental Engineering Science, 2018, 35, 728-738.	1.6	35

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37	Challenges and opportunities for managing aquatic mercury pollution in altered landscapes. Ambio, 2018, 47, 141-169.	5 . 5	183
38	Biochar and activated carbon act as promising amendments for promoting the microbial debromination of tetrabromobisphenol A. Water Research, 2018, 128, 102-110.	11.3	48
39	Speciation of Mercury in Selected Areas of the Petroleum Value Chain. Environmental Science & Emp; Technology, 2018, 52, 1655-1664.	10.0	26
40	Differences in bulk and microscale yttrium speciation in coal combustion fly ash. Environmental Sciences: Processes and Impacts, 2018, 20, 1390-1403.	3.5	26
41	Senegalese artisanal gold mining leads to elevated total mercury and methylmercury concentrations in soils, sediments, and rivers. Elementa, 2018, 6, .	3.2	28
42	Application of nanofiltration for Rare Earth Elements recovery from coal fly ash leachate: Performance and cost evaluation. Chemical Engineering Journal, 2018, 349, 309-317.	12.7	72
43	Aqueous acid and alkaline extraction of rare earth elements from coal combustion ash. International Journal of Coal Geology, 2018, 195, 75-83.	5.0	103
44	Effects of roasting additives and leaching parameters on the extraction of rare earth elements from coal fly ash. International Journal of Coal Geology, 2018, 196, 106-114.	5.0	103
45	Size-Based Differential Transport, Uptake, and Mass Distribution of Ceria (CeO ₂) Nanoparticles in Wetland Mesocosms. Environmental Science & Environmental Science	10.0	52
46	A Critical Time for Mercury Science to Inform Global Policy. Environmental Science & Emp; Technology, 2018, 52, 9556-9561.	10.0	90
47	Modern science of a legacy problem: mercury biogeochemical research after the Minamata Convention. Environmental Sciences: Processes and Impacts, 2018, 20, 582-583.	3.5	8
48	Quantification of Mercury Bioavailability for Methylation Using Diffusive Gradient in Thin-Film Samplers. Environmental Science & Environmental Scienc	10.0	49
49	Relative Contributions of Copper Oxide Nanoparticles and Dissolved Copper to Cu Uptake Kinetics of Gulf Killifish (<i>Fundulus grandis</i>) Embryos. Environmental Science & E	10.0	37
50	Chemistry and petrology of paired feed coal and combustion ash from anthracite-burning stoker boilers. Fuel, 2017, 199, 438-446.	6.4	15
51	Spatial, Temporal, and Dietary Variables Associated with Elevated Mercury Exposure in Peruvian Riverine Communities Upstream and Downstream of Artisanal and Small-Scale Gold Mining. International Journal of Environmental Research and Public Health, 2017, 14, 1582.	2.6	41
52	Rare Earth Element Distribution in Fly Ash Derived from the Fire Clay Coal, Kentucky. Coal Combustion and Gasification Products, 2017, 9, 22-33.	1.0	43
53	Hair Mercury Level is Associated with Anemia and Micronutrient Status in Children Living Near Artisanal and Small-Scale Gold Mining in the Peruvian Amazon. American Journal of Tropical Medicine and Hygiene, 2017, 97, 1886-1897.	1.4	40
54	Silver toxicity across salinity gradients: the role of dissolved silver chloride species (AgCl x) in Atlantic killifish (Fundulus heteroclitus) and medaka (Oryzias latipes) early life-stage toxicity. Ecotoxicology, 2016, 25, 1105-1118.	2.4	8

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55	Impacts of coal ash on methylmercury production and the methylating microbial community in anaerobic sediment slurries. Environmental Sciences: Processes and Impacts, 2016, 18, 1427-1439.	3.5	12
56	Trends in the Rare Earth Element Content of U.SBased Coal Combustion Fly Ashes. Environmental Science & Environmental Scienc	10.0	208
57	Residential metal contamination and potential health risks of exposure in adobe brick houses in Potos \tilde{A}_7 Bolivia. Science of the Total Environment, 2016, 562, 237-246.	8.0	10
58	Antagonistic Growth Effects of Mercury and Selenium in <i>Caenorhabditis elegans</i> Are Chemical-Species-Dependent and Do Not Depend on Internal Hg/Se Ratios. Environmental Science & Technology, 2016, 50, 3256-3264.	10.0	21
59	Leaching potential and redox transformations of arsenic and selenium in sediment microcosms with fly ash. Applied Geochemistry, 2016, 67, 177-185.	3.0	43
60	Intracellular trafficking pathways in silver nanoparticle uptake and toxicity in <i>Caenorhabditis elegans</i> Nanotoxicology, 2016, 10, 831-835.	3.0	48
61	Mobility of Four Common Mercury Species in Model and Natural Unsaturated Soils. Environmental Science & Environmental Science	10.0	46
62	Biogeochemical transformations of mercury in solid waste landfills and pathways for release. Environmental Sciences: Processes and Impacts, 2016, 18, 176-189.	3.5	31
63	Observations and Assessment of Fly Ashes from High-Sulfur Bituminous Coals and Blends of High-Sulfur Bituminous and Subbituminous Coals: Environmental Processes Recorded at the Macroand Nanometer Scale. Energy & Dels, 2015, 29, 7168-7177.	5.1	79
64	River transport of mercury from artisanal and small-scale gold mining and risks for dietary mercury exposure in Madre de Dios, Peru. Environmental Sciences: Processes and Impacts, 2015, 17, 478-487.	3.5	97
65	Mercury hair levels and factors that influence exposure for residents of Huancavelica, Peru. Environmental Geochemistry and Health, 2015, 37, 507-514.	3.4	12
66	Thiol-Based Selective Extraction Assay to Comparatively Assess Bioavailable Mercury in Sediments. Environmental Engineering Science, 2015, 32, 564-573.	1.6	15
67	Relative contributions of mercury bioavailability and microbial growth rate on net methylmercury production by anaerobic mixed cultures. Environmental Sciences: Processes and Impacts, 2015, 17, 1568-1577.	3.5	21
68	Speciation and bioaccessibility of mercury in adobe bricks and dirt floors in Huancavelica, Peru. Environmental Geochemistry and Health, 2015, 37, 263-272.	3.4	5
69	Influence of Sulfide Nanoparticles on Dissolved Mercury and Zinc Quantification by Diffusive Gradient in Thin-Film Passive Samplers. Environmental Science & Environmental Science & 2015, 49, 12897-12903.	10.0	21
70	Legacy source of mercury in an urban stream–wetland ecosystem in central North Carolina, USA. Chemosphere, 2015, 138, 960-965.	8.2	9
71	Lithium Isotope Fingerprints in Coal and Coal Combustion Residuals from the United States. Procedia Earth and Planetary Science, 2015, 13, 134-137.	0.6	13
72	Naturally Occurring Radioactive Materials in Coals and Coal Combustion Residuals in the United States. Environmental Science &	10.0	71

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73	Effects of Natural Organic Matter Properties on the Dissolution Kinetics of Zinc Oxide Nanoparticles. Environmental Science &	10.0	100
74	Direct in situ measurement of dissolved zinc in the presence of zinc oxide nanoparticles using anodic stripping voltammetry. Environmental Sciences: Processes and Impacts, 2014, 16, 2536-2544.	3.5	40
75	Boron and Strontium Isotopic Characterization of Coal Combustion Residuals: Validation of New Environmental Tracers. Environmental Science & Environme	10.0	47
76	Precipitation of nanoscale mercuric sulfides in the presence of natural organic matter: Structural properties, aggregation, and biotransformation. Geochimica Et Cosmochimica Acta, 2014, 133, 204-215.	3.9	67
77	A robust framework to predict mercury speciation in combustion flue gases. Journal of Hazardous Materials, 2014, 264, 380-385.	12.4	18
78	Silver Nanoparticle Behavior, Uptake, and Toxicity in <i>Caenorhabditis elegans</i> Effects of Natural Organic Matter. Environmental Science & Environm	10.0	135
79	Net Methylation of Mercury in Estuarine Sediment Microcosms Amended with Dissolved, Nanoparticulate, and Microparticulate Mercuric Sulfides. Environmental Science & Dechnology, 2014, 48, 9133-9141.	10.0	97
80	Bioaccumulation and speciation of selenium in fish and insects collected from a mountaintop removal coal mining-impacted stream in West Virginia. Ecotoxicology, 2014, 23, 929-938.	2.4	40
81	Selenium Speciation in Coal Ash Spilled at the Tennessee Valley Authority Kingston Site. Environmental Science & Environmental	10.0	43
82	Mechanisms Regulating Mercury Bioavailability for Methylating Microorganisms in the Aquatic Environment: A Critical Review. Environmental Science & Environmental, 2013, 47, 2441-2456.	10.0	539
83	Environmental Impacts of the Tennessee Valley Authority Kingston Coal Ash Spill. 2. Effect of Coal Ash on Methylmercury in Historically Contaminated River Sediments. Environmental Science & Eamp; Technology, 2013, 47, 2100-2108.	10.0	34
84	Environmental Impacts of the Tennessee Valley Authority Kingston Coal Ash Spill. 1. Source Apportionment Using Mercury Stable Isotopes. Environmental Science & Environmental Science & 2092, 2013, 47, 2092-2099.	10.0	69
85	Residential Mercury Contamination in Adobe Brick Homes in Huancavelica, Peru. PLoS ONE, 2013, 8, e75179.	2.5	13
86	The Impact of Coal Combustion Residue Effluent on Water Resources: A North Carolina Example. Environmental Science & Environme	10.0	85
87	Methylation of Mercury by Bacteria Exposed to Dissolved, Nanoparticulate, and Microparticulate Mercuric Sulfides. Environmental Science & Environmenta	10.0	208
88	Early-stage precipitation kinetics of zinc sulfide nanoclusters forming in the presence of cysteine. Chemical Geology, 2012, 329, 10-17.	3.3	20
89	Long-Term Transformation and Fate of Manufactured Ag Nanoparticles in a Simulated Large Scale Freshwater Emergent Wetland. Environmental Science & Env	10.0	351
90	Mechanism of Silver Nanoparticle Toxicity Is Dependent on Dissolved Silver and Surface Coating in <i>Caenorhabditis elegans < i>Environmental Science & Environmental Science</i>	10.0	535

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91	Cysteine-Induced Modifications of Zero-valent Silver Nanomaterials: Implications for Particle Surface Chemistry, Aggregation, Dissolution, and Silver Speciation. Environmental Science & Eamp; Technology, 2012, 46, 7037-7045.	10.0	208
92	Estimations of historical atmospheric mercury concentrations from mercury refining and present-day soil concentrations of total mercury in Huancavelica, Peru. Science of the Total Environment, 2012, 426, 146-154.	8.0	16
93	Influence of Dissolved Organic Matter on the Environmental Fate of Metals, Nanoparticles, and Colloids. Environmental Science & Environmental Science	10.0	678
94	Effects of Humic Substances on Precipitation and Aggregation of Zinc Sulfide Nanoparticles. Environmental Science & Environmen	10.0	131
95	Guest Comment: Nanoscale Metalâ^Organic Matter Interactions. Environmental Science & Emp; Technology, 2011, 45, 3194-3195.	10.0	4
96	Solving the problem at the source: Controlling Mn release at the sediment-water interface via hypolimnetic oxygenation. Water Research, 2011, 45, 6381-6392.	11.3	70
97	Estimating historical atmospheric mercury concentrations from silver mining and their legacies in present-day surface soil in Potos \tilde{A}_{5} Bolivia. Atmospheric Environment, 2011, 45, 7619-7626.	4.1	35
98	FEMMES: A ONE-DAY MENTORSHIP PROGRAM TO ENGAGE 4TH-6TH GRADE GIRLS IN STEM ACTIVITIES. Journal of Women and Minorities in Science and Engineering, 2011, 17, 295-312.	0.8	4
99	FEMALES EXCELLING MORE IN MATH, ENGINEERING, AND SCIENCE (FEMMES): AN AFTER-SCHOOL STEM PROGRAM FOR GIRLS THAT FOSTERS HANDS-ON LEARNING AND FEMALE-TO-FEMALE MENTORSHIP. Journal of Women and Minorities in Science and Engineering, 2011, 17, 313-324.	0.8	5
100	Influence of amino acids cysteine and serine on aggregation kinetics of zinc and mercury sulfide colloids. Journal of Colloid and Interface Science, 2010, 347, 167-171.	9.4	45
101	Photolytic degradation of methylmercury enhanced by binding to natural organic ligands. Nature Geoscience, 2010, 3, 473-476.	12.9	171
102	Environmental Impacts of the Coal Ash Spill in Kingston, Tennessee: An 18-Month Survey. Environmental Science & Environmental	10.0	137
103	Survey of the Potential Environmental and Health Impacts in the Immediate Aftermath of the Coal Ash Spill in Kingston, Tennessee. Environmental Science & Environmental Environmen	10.0	157
104	Precipitation of Mercuric Sulfide Nanoparticles in NOM-Containing Water: Implications for the Natural Environment. Environmental Science & Environment	10.0	158
105	Formation of Zn- and Fe-sulfides near hydrothermal vents at the Eastern Lau Spreading Center: implications for sulfide bioavailability to chemoautotrophs. Geochemical Transactions, 2008, 9, 6.	0.7	44
106	Precipitation and Growth of Zinc Sulfide Nanoparticles in the Presence of Thiol-Containing Natural Organic Ligands. Environmental Science & Environmen	10.0	54
107	Variation in Sulfur Speciation with Shellfish Presence at a Lau Basin Diffuse Flow Vent Site. Journal of Shellfish Research, 2008, 27, 163-168.	0.9	24
108	Work in progress: A STEM educational outreach day for young females. , 2008, , .		5

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109	COMPLEXATION OF MERCURY(II) IN MUNICIPAL WASTEWATER: INSIGHTS FOR THE FATE OF MERCURY IN EFFLUENT-RECEIVING WATERS. Proceedings of the Water Environment Federation, 2007, 2007, 3161-3165.	0.0	O
110	Stability of Metalâ^'Glutathione Complexes during Oxidation by Hydrogen Peroxide and Cu(II)-Catalysis. Environmental Science & Environmental &	10.0	52
111	Pseudopolarographic Determination of Cd2+Complexation in Freshwater. Environmental Science & Environme	10.0	21
112	Similarities between Inorganic Sulfide and the Strong Hg(II)-Complexing Ligands in Municipal Wastewater Effluent. Environmental Science & Effluent.	10.0	42
113	Strong Hg(II) Complexation in Municipal Wastewater Effluent and Surface Waters. Environmental Science & Environmental Science	10.0	80
114	Stability of Metalâ^'Glutathione Complexes during Oxidation by Hydrogen Peroxide and Cu(II)-Catalysis. , 0, , .		3