

Feiyue Wang

List of Publications by Year in Descending Order

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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.

134
papers

6,302
citations

45
h-index

75
g-index

150
ext. papers

7,081
ext. citations

6.6
avg, IF

5.82
L-index

#	Paper	IF	Citations
134	Reproducing Arctic springtime tropospheric ozone and mercury depletion events in an outdoor mesocosm sea ice facility. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 1811-1824	6.8	1
133	Climate change and mercury in the Arctic: Abiotic interactions.. <i>Science of the Total Environment</i> , 2022 , 824, 153715	10.2	6
132	Anthropogenic and natural drivers of seesaw-like spatial patterns in precipitation mercury over western China. <i>Environmental Pollution</i> , 2022 , 307, 119525	9.3	1
131	High mercury accumulation in deep-ocean hadal sediments. <i>Scientific Reports</i> , 2021 , 11, 10970	4.9	4
130	Global health effects of future atmospheric mercury emissions. <i>Nature Communications</i> , 2021 , 12, 3035	17.4	10
129	Fifty years of volcanic mercury emission research: Knowledge gaps and future directions. <i>Science of the Total Environment</i> , 2021 , 757, 143800	10.2	10
128	Evaluation of the Chelex-DGT technique for the measurement of rare earth elements in the porewater of estuarine and arine sediments. <i>Talanta</i> , 2021 , 230, 122315	6.2	0
127	Underestimated Sink of Atmospheric Mercury in a Deglaciaded Forest Chronosequence. <i>Environmental Science & Technology</i> , 2020 , 54, 8083-8093	10.3	22
126	Elemental mercury in the marine boundary layer of North America: Temporal and spatial patterns. <i>Marine Chemistry</i> , 2020 , 220, 103755	3.7	
125	Mercury methylation and demethylation potentials in Arctic lake sediments. <i>Chemosphere</i> , 2020 , 248, 126001	8.4	15
124	Determining seawater mercury methylation and demethylation rates by the seawater incubation approach: A critique. <i>Marine Chemistry</i> , 2020 , 219, 103753	3.7	6
123	Decoupling Natural and Anthropogenic Mercury and Lead Transport from South Asia to the Himalayas. <i>Environmental Science & Technology</i> , 2020 , 54, 5429-5436	10.3	11
122	Effect of ikaite precipitation on phosphate removal in sea ice. <i>Polar Research</i> , 2020 , 39,	2	2
121	Global warming accelerates uptake of atmospheric mercury in regions experiencing glacier retreat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 2049-2055	11.5	17
120	Photochemistry of oxidized Hg(I) and Hg(II) species suggests missing mercury oxidation in the troposphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 30949-30956	11.5	16
119	Environmental Mercury Chemistry - In Silico. <i>Accounts of Chemical Research</i> , 2019 , 52, 379-388	24.3	24
118	Accumulation of Atmospheric Mercury in Glacier Cryoconite over Western China. <i>Environmental Science & Technology</i> , 2019 , 53, 6632-6639	10.3	13

117	Distribution and impacts of microplastic incorporation within sea ice. <i>Marine Pollution Bulletin</i> , 2019 , 145, 463-473	6.7	38
116	How closely do mercury trends in fish and other aquatic wildlife track those in the atmosphere? - Implications for evaluating the effectiveness of the Minamata Convention. <i>Science of the Total Environment</i> , 2019 , 674, 58-70	10.2	39
115	Spatial and temporal variability of seawater pCO ₂ within the Canadian Arctic Archipelago and Baffin Bay during the summer and autumn 2011. <i>Continental Shelf Research</i> , 2018 , 156, 1-10	2.4	6
114	Assessment and improvement of the sea ice processing for dissolved inorganic carbon analysis. <i>Limnology and Oceanography: Methods</i> , 2018 , 16, 83-91	2.6	2
113	Inorganic sulfur and mercury speciation in the water level fluctuation zone of the Three Gorges Reservoir, China: The role of inorganic reduced sulfur on mercury methylation. <i>Environmental Pollution</i> , 2018 , 237, 1112-1123	9.3	22
112	Photoreduction of gaseous oxidized mercury changes global atmospheric mercury speciation, transport and deposition. <i>Nature Communications</i> , 2018 , 9, 4796	17.4	66
111	Subsurface seawater methylmercury maximum explains biotic mercury concentrations in the Canadian Arctic. <i>Scientific Reports</i> , 2018 , 8, 14465	4.9	26
110	Henry's Law constant for CO ₂ in aqueous sodium chloride solutions at 1 atm and sub-zero (Celsius) temperatures. <i>Marine Chemistry</i> , 2018 , 207, 26-32	3.7	5
109	Updated Global and Oceanic Mercury Budgets for the United Nations Global Mercury Assessment 2018. <i>Environmental Science & Technology</i> , 2018 , 52, 11466-11477	10.3	66
108	700 years reconstruction of mercury and lead atmospheric deposition in the Pyrenees (NE Spain). <i>Atmospheric Environment</i> , 2017 , 155, 97-107	5.3	28
107	Gaseous elemental mercury in the marine boundary layer and air-sea flux in the Southern Ocean in austral summer. <i>Science of the Total Environment</i> , 2017 , 603-604, 510-518	10.2	10
106	Windows in Arctic sea ice: Light transmission and ice algae in a refrozen lead. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 1486-1505	3.7	34
105	Speciated atmospheric mercury on haze and non-haze days in an inland city in China. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13807-13821	6.8	30
104	Atmospheric Mercury Depositional Chronology Reconstructed from Lake Sediments and Ice Core in the Himalayas and Tibetan Plateau. <i>Environmental Science & Technology</i> , 2016 , 50, 2859-69	10.3	93
103	Transport and transformation of contaminants in sea ice 2016 , 472-491		3
102	Bromide and chloride distribution across the snow-sea ice-ocean interface: A comparative study between an Arctic coastal marine site and an experimental sea ice mesocosm. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 5535-5548	3.3	5
101	Under-ice eddy covariance flux measurements of heat, salt, momentum, and dissolved oxygen in an artificial sea ice pool. <i>Cold Regions Science and Technology</i> , 2015 , 119, 158-169	3.8	11
100	Comparison of mercury concentrations measured at several sites in the Southern Hemisphere. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3125-3133	6.8	69

- 99 Dramatic loss of glacier accumulation area on the Tibetan Plateau revealed by ice core tritium and mercury records. *Cryosphere*, **2015**, 9, 1213-1222 5.5 63
- 98 Does otolith chemistry indicate the natal habitat of Newfoundland capelin *Mallotus villosus*?. *Journal of Experimental Marine Biology and Ecology*, **2015**, 464, 88-95 2.1 13
- 97 Spring production of mycosporine-like amino acids and other UV-absorbing compounds in sea ice-associated algae communities in the Canadian Arctic. *Marine Ecology - Progress Series*, **2015**, 541, 91-104 2.6 16
- 96 The Stability of Metal Profiles in Freshwater and Marine Sediments. *Developments in Paleoenvironmental Research*, **2015**, 35-60 5
- 95 Characterization of sedimentary organic matter in recent marine sediments from Hudson Bay, Canada, by Rock-Eval pyrolysis. *Organic Geochemistry*, **2014**, 68, 52-60 3.1 26
- 94 Theoretical study of the formation of mercury (Hg²⁺) complexes in solution using an explicit solvation shell in implicit solvent calculations. *Journal of Physical Chemistry B*, **2014**, 118, 11271-83 3.4 12
- 93 Total and methylated mercury in Arctic multiyear sea ice. *Environmental Science & Technology*, **2014**, 48, 5575-82 10.3 28
- 92 Transformation of mercury at the bottom of the Arctic food web: an overlooked puzzle in the mercury exposure narrative. *Environmental Science & Technology*, **2014**, 48, 7280-8 10.3 28
- 91 Enhanced production of oxidised mercury over the tropical Pacific Ocean: a key missing oxidation pathway. *Atmospheric Chemistry and Physics*, **2014**, 14, 1323-1335 6.8 70
- 90 Temporal dynamics of ikaite in experimental sea ice. *Cryosphere*, **2014**, 8, 1469-1478 5.5 22
- 89 Water Chemistry of Major Rivers of China **2014**,
- 88 Mercury contamination in aquatic ecosystems under a changing environment: Implications for the Three Gorges Reservoir. *Science Bulletin*, **2013**, 58, 141-149 23
- 87 pH evolution in sea ice grown at an outdoor experimental facility. *Marine Chemistry*, **2013**, 154, 46-54 3.7 36
- 86 Mercury distribution and speciation in different brain regions of beluga whales (*Delphinapterus leucas*). *Science of the Total Environment*, **2013**, 456-457, 278-86 10.2 26
- 85 Assessing and managing sediment contamination in transitional waters. *Environment International*, **2013**, 55, 71-91 12.9 88
- 84 Ikaite crystal distribution in winter sea ice and implications for CO₂ system dynamics. *Cryosphere*, **2013**, 7, 707-718 5.5 63
- 83 Gypsum crystals observed in experimental and natural sea ice. *Geophysical Research Letters*, **2013**, 40, 6362-6367 4.9 26
- 82 Mercury uptake within an ice algal community during the spring bloom in first-year Arctic sea ice. *Journal of Geophysical Research: Oceans*, **2013**, 118, 4746-4754 3.3 8

81	How does climate change influence Arctic mercury?. <i>Science of the Total Environment</i> , 2012 , 414, 22-42	10.2	169
80	Total and methylated mercury in the Beaufort Sea: the role of local and recent organic remineralization. <i>Environmental Science & Technology</i> , 2012 , 46, 11821-8	10.3	52
79	Consequences of change and variability in sea ice on marine ecosystem and biogeochemical processes during the 2007-2008 Canadian International Polar Year program. <i>Climatic Change</i> , 2012 , 115, 135-159	4.5	24
78	Quantum-Chemical Study of the Diffusion of Hg(0, I, II) into the Ice(Ih). <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5151-5154	3.8	10
77	Mercury biomagnification in marine zooplankton food webs in Hudson Bay. <i>Environmental Science & Technology</i> , 2012 , 46, 12952-9	10.3	57
76	Evaluation of a titanium dioxide-based DGT technique for measuring inorganic uranium species in fresh and marine waters. <i>Talanta</i> , 2012 , 97, 550-6	6.2	31
75	Determination of mercury biogeochemical fluxes in the remote Mackenzie River Basin, northwest Canada, using speciation of sulfur and organic carbon. <i>Applied Geochemistry</i> , 2012 , 27, 815-824	3.5	19
74	The fate of mercury in Arctic terrestrial and aquatic ecosystems, a review. <i>Environmental Chemistry</i> , 2012 , 9, 321	3.2	92
73	Mercury distribution and deposition in glacier snow over western China. <i>Environmental Science & Technology</i> , 2012 , 46, 5404-13	10.3	79
72	Theoretical study of the reduction of uranium(VI) aquo complexes on titania particles and by alcohols. <i>Chemistry - A European Journal</i> , 2012 , 18, 7117-27	4.8	23
71	Density functional study of substituted (SH, S, OH, Cl) hydrated ions of Hg ²⁺ . <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1	1.9	9
70	Field and satellite observations of the formation and distribution of Arctic atmospheric bromine above a rejuvenated sea ice cover. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		38
69	Metallomics of Mercury: Role of Thiol- and Selenol-Containing Biomolecules 2011 , 517-544		8
68	Methylmercury and selenium speciation in different tissues of beluga whales (<i>Delphinapterus leucas</i>) from the western Canadian Arctic. <i>Environmental Toxicology and Chemistry</i> , 2011 , 30, 2732-8	3.8	38
67	Mercury distribution and transport across the ocean-sea-ice-atmosphere interface in the Arctic Ocean. <i>Environmental Science & Technology</i> , 2011 , 45, 1866-72	10.3	41
66	p-type conductivity in silicon nanowires induced by heterojunction interface charge transfer. <i>Applied Physics Letters</i> , 2010 , 97, 153126	3.4	21
65	ZnO and ZnO/BiO ₂ core-shell structured fillers on properties of polycarbonate nanocomposites. <i>Plastics, Rubber and Composites</i> , 2010 , 39, 419-424	1.5	
64	Chemical demethylation of methylmercury by selenoamino acids. <i>Chemical Research in Toxicology</i> , 2010 , 23, 1202-6	4	91

63	The relation between amyotrophic lateral sclerosis and inorganic selenium in drinking water: a population-based case-control study. <i>Environmental Health</i> , 2010 , 9, 77	6	54
62	Natural and anthropogenic mercury distribution in marine sediments from Hudson Bay, Canada. <i>Environmental Science & Technology</i> , 2010 , 44, 5805-11	10.3	35
61	Computational studies of structural, electronic, spectroscopic, and thermodynamic properties of methylmercury-amino acid complexes and their Se analogues. <i>Inorganic Chemistry</i> , 2010 , 49, 870-8	5.1	20
60	Increasing contaminant burdens in an arctic fish, Burbot (<i>Lota lota</i>), in a warming climate. <i>Environmental Science & Technology</i> , 2010 , 44, 316-22	10.3	116
59	Speciation of methylmercury in rice grown from a mercury mining area. <i>Environmental Pollution</i> , 2010 , 158, 3103-7	9.3	40
58	Wet deposition mercury fluxes in the Canadian sub-Arctic and southern Alberta, measured using an automated precipitation collector adapted to cold regions. <i>Atmospheric Environment</i> , 2010 , 44, 1672-1681	5.3	53
57	Selenium concentration, speciation and behavior in surface waters of the Canadian prairies. <i>Science of the Total Environment</i> , 2009 , 407, 5869-76	10.2	25
56	Total suspended particulate matter and toxic elements indoors during cooking with yak dung. <i>Atmospheric Environment</i> , 2009 , 43, 4243-4246	5.3	23
55	On the unusual holocene carbonate sediment in lake Nam Co, central Tibet. <i>Journal of Mountain Science</i> , 2009 , 6, 346-353	2.1	10
54	Characterization of organic matter in surface sediments of the Mackenzie River Basin, Canada. <i>International Journal of Coal Geology</i> , 2009 , 77, 416-423	5.5	30
53	Mercury-selenium compounds and their toxicological significance: toward a molecular understanding of the mercury-selenium antagonism. <i>Environmental Toxicology and Chemistry</i> , 2009 , 28, 1567-77	3.8	314
52	Mercury in the Arctic: are we overlooking the ocean?. <i>Integrated Environmental Assessment and Management</i> , 2009 , 5, 178-80	2.5	
51	Reversible dissolution of glutathione-mediated HgSe(x)S(1-x) nanoparticles and possible significance in Hg-Se antagonism. <i>Chemical Research in Toxicology</i> , 2009 , 22, 1827-32	4	22
50	Measurement of stable and radioactive cesium in natural waters by the diffusive gradients in thin films technique with new selective binding phases. <i>Analytical Chemistry</i> , 2009 , 81, 5889-95	7.8	27
49	Rare earth elements in the surface sediments of the Yarlung Tsangbo (Upper Brahmaputra River) sediments, southern Tibetan Plateau. <i>Quaternary International</i> , 2009 , 208, 151-157	2	31
48	Methylmercury speciation in fish muscle by HPLC-ICP-MS following enzymatic hydrolysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2009 , 24, 663	3.7	66
47	Asia [Eastern Asia 2009 , 306-317		
46	Synthesis, characterization and structures of methylmercury complexes with selenoamino acids. <i>Dalton Transactions</i> , 2009 , 5766-72	4.3	22

45	Zero-valent sulfur and metal speciation in sediment porewaters of freshwater lakes. <i>Environmental Science & Technology</i> , 2009 , 43, 7252-7	10.3	47
44	Contemporary and preindustrial mass budgets of mercury in the Hudson Bay Marine System: the role of sediment recycling. <i>Science of the Total Environment</i> , 2008 , 406, 190-204	10.2	33
43	The overlooked role of the ocean in mercury cycling in the Arctic. <i>Marine Pollution Bulletin</i> , 2008 , 56, 1963-5	6.7	11
42	A mass balance inventory of mercury in the Arctic Ocean. <i>Environmental Chemistry</i> , 2008 , 5, 89	3.2	139
41	Altitudinal transect of atmospheric and aqueous fluorinated organic compounds in Western Canada. <i>Environmental Science & Technology</i> , 2008 , 42, 2374-9	10.3	46
40	Major Ion Geochemistry of Nam Co Lake and its Sources, Tibetan Plateau. <i>Aquatic Geochemistry</i> , 2008 , 14, 321-336	1.7	36
39	Atmospheric transport of mercury to the Tibetan Plateau. <i>Environmental Science & Technology</i> , 2007 , 41, 7632-8	10.3	95
38	The delivery of mercury to the Beaufort Sea of the Arctic Ocean by the Mackenzie River. <i>Science of the Total Environment</i> , 2007 , 373, 178-95	10.2	100
37	Fluorescence characterization of dissolved organic matter in an urban river and its complexation with Hg(II). <i>Applied Geochemistry</i> , 2007 , 22, 1668-1679	3.5	67
36	Effects of acute and subchronic exposures to waterborne selenite on the physiological stress response and oxidative stress indicators in juvenile rainbow trout. <i>Aquatic Toxicology</i> , 2007 , 83, 263-71	5.1	81
35	Mercury transformations and fluxes in sediments of a riverine wetland. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 3393-3406	5.5	54
34	Fluorotelomer carboxylic acids and PFOS in rainwater from an urban center in Canada. <i>Environmental Science & Technology</i> , 2005 , 39, 2944-51	10.3	93
33	Sediment toxicity testing with the freshwater amphipod <i>Hyaella azteca</i> : relevance and application. <i>Chemosphere</i> , 2005 , 61, 1740-3; author reply 1744-5	8.4	20
32	Response to Borgmann et al. (2005) Sediment toxicity testing with <i>Hyaella azteca</i> . <i>Chemosphere</i> , 2005 , 61, 1744-1745	8.4	2
31	Trace metal speciation measurements in waters by the liquid binding phase DGT device. <i>Talanta</i> , 2005 , 67, 571-8	6.2	45
30	Spatial and temporal analysis of water chemistry records (1958-2000) in the Huanghe (Yellow River) basin. <i>Global Biogeochemical Cycles</i> , 2005 , 19,	5.9	120
29	Metal-sulfide species in oxic waters. <i>Analytica Chimica Acta</i> , 2005 , 528, 183-195	6.6	44
28	Metal speciation measurement by diffusive gradients in thin films technique with different binding phases. <i>Analytica Chimica Acta</i> , 2005 , 533, 193-202	6.6	58

27	A mixture model approach to analyzing major element chemistry data of the Changjiang (Yangtze River). <i>Environmetrics</i> , 2005 , 16, 305-318	1.3	4
26	Persistent organic pollutants and mercury in the Himalaya. <i>Aquatic Ecosystem Health and Management</i> , 2005 , 8, 223-233	1.4	45
25	Testing sediment biological effects with the freshwater amphipod <i>Hyalella azteca</i> : the gap between laboratory and nature. <i>Chemosphere</i> , 2004 , 57, 1713-24	8.4	63
24	Thiols in wetland interstitial waters and their role in mercury and methylmercury speciation. <i>Limnology and Oceanography</i> , 2004 , 49, 2276-2286	4.8	97
23	In situ two-dimensional high-resolution profiling of sulfide in sediment interstitial waters. <i>Environmental Science & Technology</i> , 2003 , 37, 792-7	10.3	67
22	Conducting Ecological Risk Assessments of Inorganic Metals and Metalloids: Current Status. <i>Human and Ecological Risk Assessment (HERA)</i> , 2003 , 9, 641-697	4.9	120
21	Pore water testing and analysis: the good, the bad, and the ugly. <i>Marine Pollution Bulletin</i> , 2002 , 44, 359-66	6.6	107
20	Major element chemistry of the Changjiang (Yangtze River). <i>Chemical Geology</i> , 2002 , 187, 231-255	4.2	267
19	Oxygen measurements in the burrows of freshwater insects. <i>Freshwater Biology</i> , 2001 , 46, 317-327	3.1	43
18	Assessing sediment contamination in estuaries. <i>Environmental Toxicology and Chemistry</i> , 2001 , 20, 3-22	3.8	388
17	Geographical variations of trace elements in sediments of the major rivers in eastern China. <i>Environmental Geology</i> , 2000 , 39, 1334-1340		51
16	Issues in Ecological Risk Assessment of Inorganic Metals and Metalloids. <i>Human and Ecological Risk Assessment (HERA)</i> , 2000 , 6, 965-988	4.9	65
15	Relation of sediment characteristics to trace metal concentrations: a statistical study. <i>Water Research</i> , 2000 , 34, 694-698	12.5	60
14	Misapplication of Equilibrium Partitioning Coefficients to Derive Metals Sediment Quality Values. <i>Marine Pollution Bulletin</i> , 1999 , 38, 423-425	6.7	7
13	Biological implications of sulfide in sediment—review focusing on sediment toxicity. <i>Environmental Toxicology and Chemistry</i> , 1999 , 18, 2526-2532	3.8	118
12	Cadmium Complexation with Bisulfide. <i>Environmental Science & Technology</i> , 1999 , 33, 4270-4277	10.3	14
11	Appropriate Applications of Sediment Quality Values for Metals and Metalloids. <i>Environmental Science & Technology</i> , 1999 , 33, 3937-3941	10.3	95
10	. <i>Environmental Toxicology and Chemistry</i> , 1999 , 18, 2526	3.8	100

9	Ecotoxicology of metals in aquatic sediments: binding and release, bioavailability, risk assessment, and remediation. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1998 , 55, 2221-2243	2.4	361
8	Voltammetric determination of elemental sulfur in pore waters. <i>Limnology and Oceanography</i> , 1998 , 43, 1353-1361	4.8	33
7	Modeling Sorption of Trace Metals on Natural Sediments by Surface Complexation Model. <i>Environmental Science & Technology</i> , 1997 , 31, 448-453	10.3	99
6	Surface properties of natural aquatic sediments. <i>Water Research</i> , 1997 , 31, 1796-1800	12.5	16
5	Chemical composition of river particulates in eastern China. <i>Geo Journal</i> , 1996 , 40, 31	2.2	6
4	Comparison of mercury concentrations measured at several sites in the Southern Hemisphere		5
3	Ikaite crystal distribution in Arctic winter sea ice and implications for CO ₂ system dynamics		1
2	Decapitation of high-altitude glaciers on the Tibetan Plateau revealed by ice core tritium and mercury records		5
1	Dynamic ikaite production and dissolution in sea ice [control by temperature, salinity and CO ₂ conditions		1