

# Kitae Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

1,349  
citations

331538

21  
h-index

360920

35  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1533  
citing authors

#	ARTICLE	IF	CITATIONS
1	First-year sea ice leads to an increase in dimethyl sulfide-induced particle formation in the Antarctic Peninsula. <i>Science of the Total Environment</i> , 2022, 803, 150002.	3.9	11
2	Freezing-induced activation of the binary chloride-Oxone system to free chlorine and its application in water treatment. <i>Chemical Engineering Journal</i> , 2022, 428, 131134.	6.6	7
3	Reductive Transformation of Hexavalent Chromium in Ice Decreases Chromium Toxicity in Aquatic Animals. <i>Environmental Science &amp; Technology</i> , 2022, 56, 3503-3513.	4.6	20
4	Freezing-enhanced oxidation of iodide by hydrogen peroxide in the presence of antifreeze proteins from the Arctic yeast <i>Leucosporidium</i> sp. AY30. <i>Environmental Research</i> , 2022, 212, 113233.	3.7	1
5	Frozen Hydrogen Peroxide and Nitrite Solution: The Acceleration of Benzoic Acid Oxidation via the Decreased pH in Ice. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2323-2333.	4.6	10
6	Freeze-Thaw Cycle-Enhanced Transformation of Iodide to Organoiodine Compounds in the Presence of Natural Organic Matter and Fe(III). <i>Environmental Science &amp; Technology</i> , 2022, 56, 1007-1016.	4.6	17
7	First High-Frequency Underway Observation of DMS Distribution in the Southern Ocean during Austral Autumn. <i>Atmosphere</i> , 2021, 12, 122.	1.0	4
8	Accelerated chromate reduction by tea waste: Comparison of chromate reduction properties between water and ice systems. <i>Environmental Research</i> , 2021, 197, 111059.	3.7	6
9	Large seasonal and interannual variations of biogenic sulfur compounds in the Arctic atmosphere (Svalbard; 78.9°N, 11.9°E). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9761-9777.	1.9	11
10	Use of spent coffee ground as a reducing agent for enhanced reduction of chromate by freezing process. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 100, 310-316.	2.9	5
11	Activation of peroxymonosulfate by bicarbonate and acceleration of the reaction by freezing. <i>Science of the Total Environment</i> , 2021, 785, 147369.	3.9	16
12	Atmospheric deposition of inorganic nutrients to the Western North Pacific Ocean. <i>Science of the Total Environment</i> , 2021, 793, 148401.	3.9	14
13	Reductive transformation of hexavalent chromium by ferrous ions in a frozen environment: Mechanism, kinetics, and environmental implications. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111735.	2.9	11
14	Antarctic ozone hole modifies iodine geochemistry on the Antarctic Plateau. <i>Nature Communications</i> , 2021, 12, 5836.	5.8	6
15	Ten-Minute Synthesis of Highly Conductive Polymer Nanosheets on Ice Surfaces: Role of Ice Crystallinity. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100565.	2.0	2
16	Ny-Ålesund-oriented organic pollutants in sewage effluent and receiving seawater in the Arctic region of Kongsfjorden. <i>Environmental Pollution</i> , 2020, 258, 113792.	3.7	30
17	Enhanced reduction of hexavalent chromium by hydrogen sulfide in frozen solution. <i>Separation and Purification Technology</i> , 2020, 251, 117377.	3.9	10
18	Entangled iodine and hydrogen peroxide formation in ice. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 16532-16535.	1.3	1

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19	Temperature elevation stage-specifically increases metal toxicity through bioconcentration and impairment of antioxidant defense systems in juvenile and adult marine mysids. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2020, 237, 108831.	1.3	7
20	Freezing-Induced Simultaneous Reduction of Chromate and Production of Molecular Iodine: Mechanism, Kinetics, and Practical Implications. <i>Environmental Science &amp; Technology</i> , 2020, 54, 16204-16211.	4.6	14
21	Protection of Alcohol Dehydrogenase against Freeze-Thaw Stress by Ice-Binding Proteins Is Proportional to Their Ice Recrystallization Inhibition Property. <i>Marine Drugs</i> , 2020, 18, 638.	2.2	3
22	Cr(VI) Formation via Oxyhalide-Induced Oxidative Dissolution of Chromium Oxide/Hydroxide in Aqueous and Frozen Solution. <i>Environmental Science &amp; Technology</i> , 2020, 54, 14413-14421.	4.6	14
23	Freezing-accelerated removal of chromate by biochar synthesized from waste rice husk. <i>Separation and Purification Technology</i> , 2020, 250, 117233.	3.9	20
24	Chemical Weathering of Granite in Ice and Its Implication for Weathering in Polar Regions. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 185.	0.8	6
25	Freezing-enhanced non-radical oxidation of organic pollutants by peroxymonosulfate. <i>Chemical Engineering Journal</i> , 2020, 388, 124226.	6.6	17
26	Titanium dioxide surface modified with both palladium and fluoride as an efficient photocatalyst for the degradation of urea. <i>Separation and Purification Technology</i> , 2019, 209, 580-587.	3.9	26
27	Atmospheric Dry Deposition of Water-Soluble Nitrogen to the Subarctic Western North Pacific Ocean during Summer. <i>Atmosphere</i> , 2019, 10, 351.	1.0	7
28	Modeling the Sources and Chemistry of Polar Tropospheric Halogens (Cl, Br, and I) Using the CAM-Chem Global Chemistry-Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2259-2289.	1.3	31
29	Sulfuric Acid Formation via H <sub>2</sub> SO <sub>3</sub> Oxidation by H <sub>2</sub> O <sub>2</sub> in the Atmosphere. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8385-8390.	1.1	9
30	Enhanced sensitivity of fluorescence-based Fe(III) detection by freezing. <i>Chemical Communications</i> , 2019, 55, 12136-12139.	2.2	15
31	Optimization of suspect and non-target analytical methods using GC/TOF for prioritization of emerging contaminants in the Arctic environment. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 11-17.	2.9	29
32	Abiotic Formation of Humic-Like Substances through Freezing-Accelerated Reaction of Phenolic Compounds and Nitrite. <i>Environmental Science &amp; Technology</i> , 2019, 53, 7410-7418.	4.6	22
33	Simultaneous and Synergic Production of Bioavailable Iron and Reactive Iodine Species in Ice. <i>Environmental Science &amp; Technology</i> , 2019, 53, 7355-7362.	4.6	19
34	Nitrite-Induced Activation of Iodate into Molecular Iodine in Frozen Solution. <i>Environmental Science &amp; Technology</i> , 2019, 53, 4892-4900.	4.6	31
35	Homogeneous photocatalytic Fe <sup>3+</sup> /Fe <sup>2+</sup> redox cycle for simultaneous Cr(VI) reduction and organic pollutant oxidation: Roles of hydroxyl radical and degradation intermediates. <i>Journal of Hazardous Materials</i> , 2019, 372, 121-128.	6.5	82
36	Hydrochemical characteristics of groundwater and stream water in a karst area of Samcheok, Korea. <i>Journal of the Geological Society of Korea</i> , 2019, 55, 117-129.	0.3	8

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37	Fostering multidisciplinary research on interactions between chemistry, biology, and physics within the coupled cryosphere-atmosphere system. <i>Elementa</i> , 2019, 7, .	1.1	6
38	Estimation of thermal diffusivity of soils in Antarctica using temperature time series data. <i>Episodes</i> , 2019, 42, 245-252.	0.8	6
39	Activation of Periodate by Freezing for the Degradation of Aqueous Organic Pollutants. <i>Environmental Science &amp; Technology</i> , 2018, 52, 5378-5385.	4.6	101
40	Ligand-Specific Dissolution of Iron Oxides in Frozen Solutions. <i>Environmental Science &amp; Technology</i> , 2018, 52, 13766-13773.	4.6	22
41	Reviews and syntheses: Ocean iron fertilization experiments “past, present, and future looking to a future Korean Iron Fertilization Experiment in the Southern Ocean (KIFES) project. <i>Biogeosciences</i> , 2018, 15, 5847-5889.	1.3	60
42	Relationship between magnetic susceptibility and sediment grain size since the last glacial period in the Southern Ocean off the northern Antarctic Peninsula “Linkages between the cryosphere and atmospheric circulation. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 505, 359-370.	1.0	11
43	Redox Conversion of Organic and Inorganic Pollutants in Ice. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
44	Accelerated redox reaction between chromate and phenolic pollutants during freezing. <i>Journal of Hazardous Materials</i> , 2017, 329, 330-338.	6.5	41
45	Spatial and temporal variabilities of spring Asian dust events and their impacts on chlorophyll <i>a</i> concentrations in the western North Pacific Ocean. <i>Geophysical Research Letters</i> , 2017, 44, 1474-1482.	1.5	33
46	Freezing-enhanced reduction of chromate by nitrite. <i>Science of the Total Environment</i> , 2017, 590-591, 107-113.	3.9	26
47	Production of Molecular Iodine and Tri-iodide in the Frozen Solution of Iodide: Implication for Polar Atmosphere. <i>Environmental Science &amp; Technology</i> , 2016, 50, 1280-1287.	4.6	67
48	Freezing-Enhanced Dissolution of Iron Oxides: Effects of Inorganic Acid Anions. <i>Environmental Science &amp; Technology</i> , 2015, 49, 12816-12822.	4.6	41
49	Enhanced Removal of Hexavalent Chromium in the Presence of H <sub>2</sub> O <sub>2</sub> in Frozen Aqueous Solutions. <i>Environmental Science &amp; Technology</i> , 2015, 49, 10937-10944.	4.6	50
50	Electrochemical Production of Hydrogen Coupled with the Oxidation of Arsenite. <i>Environmental Science &amp; Technology</i> , 2014, 48, 2059-2066.	4.6	34
51	Arsenite Oxidation Initiated by the UV Photolysis of Nitrite and Nitrate. <i>Environmental Science &amp; Technology</i> , 2014, 48, 4030-4037.	4.6	76
52	Enhanced Dissolution of Manganese Oxide in Ice Compared to Aqueous Phase under Illuminated and Dark Conditions. <i>Environmental Science &amp; Technology</i> , 2012, 46, 13160-13166.	4.6	38
53	Enhanced Redox Conversion of Chromate and Arsenite in Ice. <i>Environmental Science &amp; Technology</i> , 2011, 45, 2202-2208.	4.6	100
54	Photoreductive Dissolution of Iron Oxides Trapped in Ice and Its Environmental Implications. <i>Environmental Science &amp; Technology</i> , 2010, 44, 4142-4148.	4.6	95