

Guebuem Kim

List of Publications by Year in descending order

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129
papers

4,991
citations

87888

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times ranked

3212
citing authors

#	ARTICLE	IF	CITATIONS
1	Trace elements (Fe, Mn, Co, Cu, Cd, and Ni) in the East Sea (Japan Sea): Distributions, boundary inputs, and scavenging processes. <i>Marine Chemistry</i> , 2022, 239, 104070.	2.3	9
2	Large fluxes of continental-shelf-borne dissolved organic carbon in the East China Sea and the Yellow Sea. <i>Marine Chemistry</i> , 2022, 240, 104097.	2.3	6
3	Sources and Behavior of Particulate Organic Carbon in the Yellow Sea and the East China Sea Based on ^{13}C , ^{14}C , and ^{234}Th . <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	0
4	Sediment-Derived Dissolved Organic Matter Stimulates Heterotrophic Prokaryotes Metabolic Activity in Overlying Deep Sea in the Ulleung Basin, East Sea. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	3
5	Decline in the Nutrient Inventories of the Upper Subtropical Northwest Pacific Ocean. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
6	Rapid and precise measurements of radon in water using a pulsed ionization chamber. <i>Limnology and Oceanography: Methods</i> , 2021, 19, 245-252.	2.0	7
7	Characterizing the origins of dissolved organic carbon in coastal seawater using stable carbon isotope and light absorption characteristics. <i>Biogeosciences</i> , 2021, 18, 1793-1801.	3.3	5
8	Stable Carbon Isotopes Suggest Large Terrestrial Carbon Inputs to the Global Ocean. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006684.	4.9	18
9	Fluorescent Dissolved Organic Matter (FDOM) in the East Sea (Japan Sea): Distributions, Sources, and Sinks. <i>Ocean Science Journal</i> , 2021, 56, 132-140.	1.3	2
10	Contrasting Behaviors of ^{210}Pb and ^{210}Po in the Productive Shelf Water Versus the Oligotrophic Water. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	1
11	Rapid and Accurate Method for Determining ^{234}Th in Seawater: Fe Co-precipitation, UTEVA Extraction, and Micro-precipitation. <i>Ocean Science Journal</i> , 2021, 56, 378-384.	1.3	7
12	Conservative behavior of terrestrial trace elements associated with humic substances in the coastal ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 308, 373-383.	3.9	14
13	Tracing the Atmospheric Input of Seawater-Dissolvable Pb Based on the Budget of ^{210}Pb in the East Sea (Japan Sea). <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	6
14	Tracing Different Freshwater Sources for Nutrients and Dissolved Organic Matter in Coastal Waters off Jeju Island Using Radon. <i>Estuaries and Coasts</i> , 2020, 43, 487-495.	2.2	8
15	Satellite-Observed Chlorophyll-a Concentration Variability and Its Relation to Physical Environmental Changes in the East Sea (Japan Sea) from 2003 to 2015. <i>Estuaries and Coasts</i> , 2020, 43, 630-645.	2.2	10
16	Anthropogenic gadolinium in lakes and rivers near metrocities in Korea. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 144-151.	3.5	8
17	Biogeochemical alteration and fluxes of dissolved organic matter and nutrients in coastal bays. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 245, 106992.	2.1	7
18	Rare earth elements in the East Sea (Japan Sea): Distributions, behaviors, and applications. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 286, 19-28.	3.9	15

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19	Tracing river water versus wastewater sources of trace elements using rare earth elements in the Nakdong River estuarine waters. <i>Marine Pollution Bulletin</i> , 2020, 160, 111589.	5.0	14
20	Significant seasonal changes in optical properties of brown carbon in the midlatitude atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 2709-2718.	4.9	15
21	Conditions of nutrients and dissolved organic matter for the outbreaks of Paralytic Shellfish Poisoning (PSP) in Jinhae Bay, Korea. <i>Marine Pollution Bulletin</i> , 2020, 158, 111381.	5.0	3
22	Removal of Refractory Dissolved Organic Carbon in the Amundsen Sea, Antarctica. <i>Scientific Reports</i> , 2020, 10, 1213.	3.3	13
23	Tracing terrestrial versus marine sources of dissolved organic carbon in a coastal bay using stable carbon isotopes. <i>Biogeosciences</i> , 2020, 17, 135-144.	3.3	32
24	Radium Tracing Cross-Shelf Fluxes of Nutrients in the Northwest Pacific Ocean. <i>Geophysical Research Letters</i> , 2019, 46, 11321-11328.	4.0	9
25	Submarine Groundwater Discharge: Updates on Its Measurement Techniques, Geophysical Drivers, Magnitudes, and Effects. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	158
26	Quantitative estimation of submarine groundwater discharge using airborne thermal infrared data acquired at two different tidal heights. <i>Hydrological Processes</i> , 2019, 33, 1089-1100.	2.6	2
27	Desorption of phosphate on sandy sediments by silicate in groundwater. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 257, 184-190.	3.9	5
28	Seasonal and spatial variations of tritium in precipitation in Northeast Asia (Korea) over the last 20 years. <i>Journal of Hydrology</i> , 2019, 574, 794-800.	5.4	12
29	Large seasonal variations in fine aerosol precipitation rates revealed using cosmogenic ⁷ Be as a tracer. <i>Science of the Total Environment</i> , 2019, 673, 1-6.	8.0	15
30	Tracing nitrogen sources fueling coastal green tides off a volcanic island using radon and nitrogen isotopic tracers. <i>Science of the Total Environment</i> , 2019, 665, 913-919.	8.0	24
31	Tracing the sources of nutrients fueling dinoflagellate red tides occurring along the coast of Korea using radium isotopes. <i>Scientific Reports</i> , 2019, 9, 15319.	3.3	7
32	In-situ production of humic-like fluorescent dissolved organic matter during <i>Cochlodinium polykrikoides</i> blooms. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 203, 119-126.	2.1	25
33	Radium tracing nutrient inputs through submarine groundwater discharge in the global ocean. <i>Scientific Reports</i> , 2018, 8, 2439.	3.3	123
34	Sources, fluxes, and behaviors of fluorescent dissolved organic matter (FDOM) in the Nakdong River Estuary, Korea. <i>Biogeosciences</i> , 2018, 15, 1115-1122.	3.3	22
35	Significant production of humic fluorescent dissolved organic matter in the continental shelf waters of the northwestern Pacific Ocean. <i>Scientific Reports</i> , 2018, 8, 4887.	3.3	23
36	Dispersion and removal characteristics of tritium originated from nuclear power plants in the atmosphere. <i>Journal of Environmental Radioactivity</i> , 2018, 192, 524-531.	1.7	15

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55	Rare earth element distributions and fractionation in plankton from the northwestern Mediterranean Sea. <i>Chemosphere</i> , 2015, 119, 72-82.	8.2	51
56	Submarine groundwater discharge as a main source of rare earth elements in coastal waters. <i>Marine Chemistry</i> , 2014, 160, 11-17.	2.3	42
57	Tracing the flow rate and mixing ratio of the Changjiang diluted water in the northwestern Pacific marginal seas using radium isotopes. <i>Geophysical Research Letters</i> , 2014, 41, 4637-4645.	4.0	27
58	Sulfur isotope and chemical compositions of the wet precipitation in two major urban areas, Seoul and Busan, Korea. <i>Journal of Asian Earth Sciences</i> , 2014, 79, 415-425.	2.3	18
59	Estimating benthic fluxes of trace elements to hypoxic coastal waters using ²¹⁰ Po. <i>Estuarine, Coastal and Shelf Science</i> , 2014, 151, 324-330.	2.1	6
60	Global estimate of submarine groundwater discharge based on an observationally constrained radium isotope model. <i>Geophysical Research Letters</i> , 2014, 41, 8438-8444.	4.0	236
61	Comparison of S, Se, and ²¹⁰ Po accumulation patterns in common squid <i>Todarodes pacificus</i> from the Yellow Sea and East/Japan Sea. <i>Ocean Science Journal</i> , 2013, 48, 215-224.	1.3	5
62	Significance of submarine groundwater discharge in the coastal fluxes of mercury in Hampyeong Bay, Yellow Sea. <i>Chemosphere</i> , 2013, 91, 320-327.	8.2	21
63	Dissolved organic matter in the subterranean estuary of a volcanic island, Jeju: Importance of dissolved organic nitrogen fluxes to the ocean. <i>Journal of Sea Research</i> , 2013, 78, 18-24.	1.6	55
64	Factors controlling the C:N:P stoichiometry of dissolved organic matter in the N-limited, cyanobacteria-dominated East/Japan Sea. <i>Journal of Marine Systems</i> , 2013, 115-116, 1-9.	2.1	29
65	Changes in seawater N : P ratios in the northwestern Pacific Ocean in response to increasing atmospheric N deposition: Results from the East (Japan) Sea. <i>Limnology and Oceanography</i> , 2013, 58, 1907-1914.	3.1	19
66	Intercalibration studies of ²¹⁰ Po and ²¹⁰ Pb in dissolved and particulate seawater samples. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 776-789.	2.0	41
67	Production, degradation, and flux of dissolved organic matter in the subterranean estuary of a large tidal flat. <i>Marine Chemistry</i> , 2012, 142-144, 1-10.	2.3	61
68	Influence of trace element fluxes from submarine groundwater discharge (SGD) on their inventories in coastal waters off volcanic island, Jeju, Korea. <i>Applied Geochemistry</i> , 2012, 27, 37-43.	3.0	58
69	Important role of colloids in the cycling of ²¹⁰ Po and ²¹⁰ Pb in the ocean: Results from the East/Japan Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 95, 134-142.	3.9	22
70	Significant emissions of ²¹⁰ Po by coal burning into the urban atmosphere of Seoul, Korea. <i>Atmospheric Environment</i> , 2012, 54, 80-85.	4.1	17
71	Dissolved organic carbon in the precipitation of Seoul, Korea: Implications for global wet depositional flux of fossil-fuel derived organic carbon. <i>Atmospheric Environment</i> , 2012, 59, 117-124.	4.1	52
72	Po-210 in the Environment: Biogeochemical Cycling and Bioavailability. <i>Advances in Isotope Geochemistry</i> , 2012, , 271-284.	1.4	6

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73	Prevailing Subsurface Chlorophyll Maximum (SCM) Layer in the East Sea and Its Relation to the Physico-Chemical Properties of Water Masses. <i>Ocean and Polar Research</i> , 2012, 34, 413-430.	0.3	22
74	Mass Balance of Total Mercury and Monomethylmercury in Coastal Embayments of a Volcanic Island: Significance of Submarine Groundwater Discharge. <i>Environmental Science & Technology</i> , 2011, 45, 9891-9900.	10.0	26
75	Submarine groundwater discharge (SGD) as a main nutrient source for benthic and water-column primary production in a large intertidal environment of the Yellow Sea. <i>Journal of Sea Research</i> , 2011, 65, 103-113.	1.6	84
76	Submarine groundwater discharge from oceanic islands standing in oligotrophic oceans: Implications for global biological production and organic carbon fluxes. <i>Limnology and Oceanography</i> , 2011, 56, 673-682.	3.1	128
77	Atmospheric depositional fluxes of cosmogenic ³⁵ S and ⁷ Be: Implications for the turnover rate of sulfur through the biosphere. <i>Atmospheric Environment</i> , 2011, 45, 4230-4234.	4.1	18
78	Factors controlling the air ventilation of a limestone cave revealed by ²²² Rn and ²²⁰ Rn tracers. <i>Geosciences Journal</i> , 2011, 15, 115-119.	1.2	9
79	Large fluxes of rare earth elements through submarine groundwater discharge (SGD) from a volcanic island, Jeju, Korea. <i>Marine Chemistry</i> , 2011, 127, 12-19.	2.3	74
80	Submarine groundwater discharge in tidal flats revealed by space-borne synthetic aperture radar. <i>Remote Sensing of Environment</i> , 2011, 115, 793-800.	11.0	25
81	A relationship between submarine groundwater borne nutrients traced by Ra isotopes and the intensity of dinoflagellate red tides occurring in the southern sea of Korea. <i>Limnology and Oceanography</i> , 2010, 55, 1-10.	3.1	110
82	Analytical Artifacts Associated with the Chelating Resin Extraction of Dissolved Rare Earth Elements in Natural Water Samples. <i>Aquatic Geochemistry</i> , 2010, 16, 611-620.	1.3	27
83	Nutrient input from submarine groundwater discharge versus intermittent river-water discharge through an artificial dam in the Yeongsan River estuary, Korea. <i>Ocean Science Journal</i> , 2010, 45, 179-186.	1.3	20
84	Measurement of temporal and horizontal variations in ²²² Rn activity in estuarine waters for tracing groundwater inputs. <i>Ocean Science Journal</i> , 2010, 45, 197-202.	1.3	7
85	Hydrographically mediated patterns of photosynthetic pigments in the East/Japan Sea: Low N:P ratios and cyanobacterial dominance. <i>Journal of Marine Systems</i> , 2010, 82, 72-79.	2.1	37
86	The role of submarine groundwater discharge (SGD) in nutrient budgets of Gamak Bay, a shellfish farming bay, in Korea. <i>Journal of Sea Research</i> , 2010, 64, 224-230.	1.6	73
87	Submarine Groundwater Discharge (SGD) and Associated Nutrient Fluxes to the Coastal Ocean. <i>Global Change - the IGBP Series</i> , 2010, , 529-538.	2.1	15
88	Nutrient inputs from submarine groundwater discharge (SGD) in Masan Bay, an embayment surrounded by heavily industrialized cities, Korea. <i>Science of the Total Environment</i> , 2009, 407, 3181-3188.	8.0	100
89	Identifying sharp hydrographical changes in phytoplankton community structure using HPLC pigment signatures in coastal waters along Jeju Island, Korea. <i>Ocean Science Journal</i> , 2009, 44, 1-10.	1.3	12
90	An efficient and simple method for measuring ²²⁶ Ra using the scintillation cell in a delayed coincidence counting system (RaDeCC). <i>Journal of Environmental Radioactivity</i> , 2008, 99, 1859-1862.	1.7	42

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91	Active exchange of water and nutrients between seawater and shallow pore water in intertidal sandflats. <i>Ocean Science Journal</i> , 2008, 43, 223-232.	1.3	7
92	Uncertainties in the preparation of ²²⁴ Ra Mn fiber standards. <i>Marine Chemistry</i> , 2008, 109, 220-225.	2.3	21
93	Radium tracing of submarine groundwater discharge (SGD) and associated nutrient fluxes in a highly-permeable bed coastal zone, Korea. <i>Marine Chemistry</i> , 2008, 109, 307-317.	2.3	56
94	The release of dissolved actinium to the ocean: A global comparison of different end-members. <i>Marine Chemistry</i> , 2008, 109, 409-420.	2.3	19
95	Distribution patterns of chalcogens (S, Se, Te, and ²¹⁰ Po) in various tissues of a squid, <i>Todarodes pacificus</i> . <i>Science of the Total Environment</i> , 2008, 392, 218-224.	8.0	26
96	Estimating submarine discharge of fresh groundwater from a volcanic island using a freshwater budget of the coastal water column. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	30
97	Linking groundwater-borne nutrients and dinoflagellate red-tide outbreaks in the southern sea of Korea using a Ra tracer. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 71, 309-317.	2.1	152
98	Real-time monitoring of nutrient concentrations and red-tide outbreaks in the southern sea of Korea. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	26
99	Tidal influence on the sea-to-air transfer of CH ₄ in the coastal ocean. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2006, 58, 88-94.	1.6	6
100	A simple and rapid method for analyzing radon in coastal and ground waters using a radon-in-air monitor. <i>Journal of Environmental Radioactivity</i> , 2006, 89, 219-228.	1.7	144
101	Large submarine groundwater discharge and benthic eutrophication in Bangdu Bay on volcanic Jeju Island, Korea. <i>Limnology and Oceanography</i> , 2005, 50, 1393-1403.	3.1	178
102	Estimating submarine inputs of groundwater and nutrients to a coastal bay using radium isotopes. <i>Marine Chemistry</i> , 2005, 96, 61-71.	2.3	163
103	Measurement of Cosmogenic ³⁵ S Activity in Rainwater and Lake Water. <i>Analytical Chemistry</i> , 2005, 77, 3390-3393.	6.5	22
104	Evidence for Anthropogenic ²¹⁰ Po in the Urban Atmosphere of Seoul, Korea. <i>Environmental Science & Technology</i> , 2005, 39, 1519-1522.	10.0	30
105	Enrichment of Excess ²¹⁰ Po in Anoxic Ponds. <i>Environmental Science & Technology</i> , 2005, 39, 4894-4899.	10.0	29
106	Submarine groundwater discharge (SGD) into the Yellow Sea revealed by ²²⁸ Ra and ²²⁶ Ra isotopes: Implications for global silicate fluxes. <i>Earth and Planetary Science Letters</i> , 2005, 237, 156-166.	4.4	212
107	Accumulation records of radionuclides and trace metals in two contrasting Delaware salt marshes. <i>Marine Chemistry</i> , 2004, 87, 87-96.	2.3	28
108	Tracing the advection of organic carbon into the subsurface Sargasso Sea using a ²²⁸ Ra/ ²²⁶ Ra tracer. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	11

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109	Large submarine groundwater discharge (SGD) from a volcanic island. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	133
110	Groundwater flow and phosphate dynamics surrounding a high discharge wastewater disposal well in the Florida Keys. <i>Journal of Hydrology</i> , 2003, 284, 193-210.	5.4	21
111	Tidal pumping of groundwater into the coastal ocean revealed from submarine ^{222}Rn and CH_4 monitoring. <i>Geophysical Research Letters</i> , 2002, 29, 23-1-23-4.	4.0	132
112	Wet deposition of trace elements and radon daughter systematics in the South and equatorial Atlantic atmosphere. <i>Global Biogeochemical Cycles</i> , 2002, 16, 19-1-19-8.	4.9	18
113	A sudden bottom-water formation during the severe winter 2000-2001: The case of the East/Japan Sea. <i>Geophysical Research Letters</i> , 2002, 29, 75-1-75-4.	4.0	94
114	Factors controlling excess radium in the Nakdong River estuary, Korea: submarine groundwater discharge versus desorption from riverine particles. <i>Marine Chemistry</i> , 2002, 78, 1-8.	2.3	40
115	Distribution of ^{90}Sr in coastal seawater, sediments and organisms off two atomic power stations in Korea. <i>Journal of Environmental Radioactivity</i> , 2002, 59, 105-112.	1.7	14
116	Seasonal biogeochemical fluxes of ^{234}Th and ^{210}Po in the Upper Sargasso Sea: Influence from atmospheric iron deposition. <i>Global Biogeochemical Cycles</i> , 2001, 15, 651-661.	4.9	60
117	Large deficiency of polonium in the oligotrophic ocean's interior. <i>Earth and Planetary Science Letters</i> , 2001, 192, 15-21.	4.4	54
118	Measurement of ^{224}Ra and ^{226}Ra Activities in Natural Waters Using a Radon-in-Air Monitor. <i>Environmental Science & Technology</i> , 2001, 35, 4680-4683.	10.0	148
119	Excess ^{210}Po in the coastal atmosphere. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 74-80.	1.6	30
120	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 2000, 36, 65-79.	3.2	62
121	Efficient Preconcentration and Separation of Actinide Elements from Large Soil and Sediment Samples. <i>Analytical Chemistry</i> , 2000, 72, 4882-4887.	6.5	68
122	and in the South-equatorial Atlantic. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1999, 46, 907-917.	1.4	34
123	Geochemistry of alkaline earth elements (Mg, Ca, Sr, Ba) in the surface sediments of the Yellow Sea. <i>Chemical Geology</i> , 1999, 153, 1-10.	3.3	46
124	A practical and accurate method for the determination of ^{234}Th simultaneously with ^{210}Po and ^{210}Pb in seawater. <i>Talanta</i> , 1999, 49, 851-858.	5.5	19
125	Atmospheric depositional fluxes of trace elements, ^{210}Pb , and ^7Be to the Sargasso Sea. <i>Global Biogeochemical Cycles</i> , 1999, 13, 1183-1192.	4.9	53
126	How accurate are the ^{234}Th based particulate residence times in the ocean?. <i>Geophysical Research Letters</i> , 1999, 26, 619-622.	4.0	16

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127	Distributions of transition elements in the surface sediments of the Yellow Sea. Continental Shelf Research, 1998, 18, 1531-1542.	1.8	25
128	The fallout isotope ^{207}Bi in a Delaware salt marsh: a comparison with ^{210}Pb and ^{137}Cs as a geochronological tool. Science of the Total Environment, 1997, 196, 31-41.	8.0	32
129	Editorial: Physics and Biogeochemistry of the East Asian Marginal Seas. Frontiers in Marine Science, 0, 9, .	2.5	2