

Kwang-Sik Lee

List of Publications by Year in descending order

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108
papers

3,113
citations

126708

33
h-index

174990

52
g-index

109
all docs

109
docs citations

109
times ranked

3428
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogeochemical and isotopic evidence of groundwater salinization in a coastal aquifer: a case study in Jeju volcanic island, Korea. <i>Journal of Hydrology</i> , 2003, 270, 282-294.	2.3	269
2	Discrimination of the Geographical Origin of Beef by ¹ H NMR-Based Metabolomics. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 10458-10466.	2.4	150
3	Neoproterozoic bimodal volcanism in the central Ogcheon belt, Korea: age and tectonic implication. <i>Precambrian Research</i> , 1998, 89, 47-57.	1.2	126
4	Co-contamination of arsenic and fluoride in the groundwater of unconsolidated aquifers under reducing environments. <i>Chemosphere</i> , 2012, 87, 851-856.	4.2	126
5	Using H- and O-isotopic data for estimating the relative contributions of rainy and dry season precipitation to groundwater: example from Cheju Island, Korea. <i>Journal of Hydrology</i> , 1999, 222, 65-74.	2.3	119
6	Tracing the sources of nitrate in the Han River watershed in Korea, using $\delta^{15}\text{N-NO}_3^-$ and $\delta^{18}\text{O-NO}_3^-$ values. <i>Science of the Total Environment</i> , 2008, 395, 117-124.	3.9	117
7	Land-use controls on sources and fate of nitrate in shallow groundwater of an agricultural area revealed by multiple environmental tracers. <i>Journal of Contaminant Hydrology</i> , 2010, 118, 62-78.	1.6	81
8	Anthropogenic rare earth elements and their spatial distributions in the Han River, South Korea. <i>Chemosphere</i> , 2017, 172, 155-165.	4.2	81
9	Distribution and potential health risk of groundwater uranium in Korea. <i>Chemosphere</i> , 2016, 163, 108-115.	4.2	77
10	Analysis of water movement through an unsaturated soil zone in Jeju Island, Korea using stable oxygen and hydrogen isotopes. <i>Journal of Hydrology</i> , 2007, 345, 199-211.	2.3	65
11	Discrimination of cabbage (<i>Brassica rapa</i> ssp. <i>pekinensis</i>) cultivars grown in different geographical areas using ¹ H NMR-based metabolomics. <i>Food Chemistry</i> , 2013, 137, 68-75.	4.2	64
12	Variation of lithium isotope geochemistry during basalt weathering and secondary mineral transformations in Hawaii. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 145, 103-115.	1.6	64
13	Metabolite Profiling of <i>Angelica gigas</i> from Different Geographical Origins Using ¹ H NMR and UPLC-MS Analyses. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 8806-8815.	2.4	61
14	Experimental investigation of Mg isotope fractionation during mineral dissolution and clay formation. <i>Chemical Geology</i> , 2016, 445, 135-145.	1.4	59
15	Hydrogeochemistry and environmental isotopes of ground water in Jeju volcanic island, Korea: implications for nitrate contamination. <i>Hydrological Processes</i> , 2005, 19, 2225-2245.	1.1	57
16	Determining the geographical origin of Chinese cabbages using multielement composition and strontium isotope ratio analyses. <i>Food Chemistry</i> , 2012, 135, 2666-2674.	4.2	57
17	Groundwater nitrate contamination and risk assessment in an agricultural area, South Korea. <i>Environmental Earth Sciences</i> , 2012, 66, 1127-1136.	1.3	51
18	Tracing the geographical origin of beefs being circulated in Korean markets based on stable isotopes. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 155-159.	0.7	50

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19	Chemical weathering of carbonates and silicates in the Han River basin, South Korea. <i>Chemical Geology</i> , 2008, 247, 66-80.	1.4	49
20	Precise determination of the lithium isotope ratio in geological samples using MC-ICP-MS with cool plasma. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 505.	1.6	47
21	Characterizing riverbank-filtered water and river water qualities at a site in the lower Nakdong River basin, Republic of Korea. <i>Journal of Hydrology</i> , 2009, 376, 209-220.	2.3	45
22	Magnesium isotope geochemistry in the Han River, South Korea. <i>Chemical Geology</i> , 2014, 364, 9-19.	1.4	45
23	Differentiation of Cancer Cell Origin and Molecular Subtype by Plasma Membrane N-Glycan Profiling. <i>Journal of Proteome Research</i> , 2014, 13, 961-968.	1.8	45
24	An integrated analysis for determining the geographical origin of medicinal herbs using ICP-AES/ICP-MS and ¹ H NMR analysis. <i>Food Chemistry</i> , 2014, 161, 168-175.	4.2	43
25	Determining the seasonality of groundwater recharge using water isotopes: a case study from the upper North Han River basin, Korea. <i>Environmental Geology</i> , 2007, 52, 853-859.	1.2	42
26	Determination of the Source of Bioavailable Sr Using ⁸⁷ Sr/ ⁸⁶ Sr Tracers: A Case Study of Hot Pepper and Rice. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 9232-9238.	2.4	42
27	Nitrate contamination of alluvial groundwaters in the Nakdong River basin, Korea. <i>Geosciences Journal</i> , 2002, 6, 35-46.	0.6	41
28	Characterizing the origins of bottled water on the South Korean market using chemical and isotopic compositions. <i>Analytica Chimica Acta</i> , 2009, 631, 189-195.	2.6	41
29	Flow paths and mixing properties of groundwater using hydrogeochemistry and environmental tracers in the southwestern area of Jeju volcanic island. <i>Journal of Hydrology</i> , 2012, 432-433, 61-74.	2.3	41
30	Hydrogeochemical and isotopic investigations of the Han River basin, South Korea. <i>Journal of Hydrology</i> , 2007, 345, 50-60.	2.3	40
31	Application of Machine Learning for eutrophication analysis and algal bloom prediction in an urban river: A 10-year study of the Han River, South Korea. <i>Science of the Total Environment</i> , 2021, 797, 149040.	3.9	38
32	Chemical weathering and associated CO ₂ consumption in six major river basins, South Korea. <i>Geomorphology</i> , 2011, 129, 334-341.	1.1	37
33	A Multianalytical Approach for Determining the Geographical Origin of Ginseng Using Strontium Isotopes, Multielements, and ¹ H NMR Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 8560-8567.	2.4	36
34	Geographical origin identification of garlic cultivated in Korea using isotopic and multi-elemental analyses. <i>Food Control</i> , 2020, 111, 107064.	2.8	33
35	Seasonal and spatial variations of rare earth elements in rainwaters, river waters and total suspended particles in air in South Korea. <i>Journal of Alloys and Compounds</i> , 2007, 437, 344-350.	2.8	26
36	Uranium isotopes as a tracer of sources of dissolved solutes in the Han River, South Korea. <i>Chemical Geology</i> , 2009, 258, 354-361.	1.4	26

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37	Regional variations in the lead isotopic composition of galena from southern Korea with implications for the discrimination of lead provenance. <i>Journal of Asian Earth Sciences</i> , 2012, 61, 116-127.	1.0	26
38	Early-stage changes in natural ¹³ C and ¹⁵ N abundance and nutrient dynamics during different litter decomposition. <i>Journal of Plant Research</i> , 2016, 129, 463-476.	1.2	26
39	Factors controlling carbon isotope ratios of dissolved inorganic carbon in two major tributaries of the Han River, Korea. <i>Hydrological Processes</i> , 2007, 21, 500-509.	1.1	24
40	A revisited method for Mg purification and isotope analysis using cool-plasma MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1955.	1.6	23
41	Water quality impacts of irrigation return flow on stream and groundwater in an intensive agricultural watershed. <i>Science of the Total Environment</i> , 2018, 630, 859-868.	3.9	23
42	Carbon isotope fractionation of benzene and toluene by progressive evaporation. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1636-1640.	0.7	22
43	Spatial variations in oxygen and hydrogen isotopes in waters and human hair across South Korea. <i>Science of the Total Environment</i> , 2020, 726, 138365.	3.9	21
44	Determination of glyphosate and its metabolite in emergency room in Korea. <i>Forensic Science International</i> , 2016, 265, 41-46.	1.3	20
45	Tracking the evolution of particulate organic matter sources during summer storm events via end-member mixing analysis based on spectroscopic proxies. <i>Chemosphere</i> , 2020, 252, 126445.	4.2	20
46	Discrimination of the geographic origin of cabbages. <i>Food Control</i> , 2013, 30, 626-630.	2.8	19
47	Hydrochemistry of groundwaters in a spa area of Korea: an implication for water quality degradation by intensive pumping. <i>Hydrological Processes</i> , 2005, 19, 493-505.	1.1	17
48	Revisited digestion methods for trace element analysis in human hair. <i>Journal of Analytical Science and Technology</i> , 2020, 11, .	1.0	17
49	Variation in the ginsenoside profiles of cultivated ginseng (<i>Panax ginseng</i> C.A. Meyer) landraces in Korea. <i>Process Biochemistry</i> , 2011, 46, 258-264.	1.8	16
50	Identification of the origin and water type of various Korean bottled waters using strontium isotopes. <i>Journal of Geochemical Exploration</i> , 2013, 132, 1-5.	1.5	16
51	Identification of anthropogenic contaminant sources in urbanized streams using multiple isotopes. <i>Environmental Earth Sciences</i> , 2015, 73, 8311-8324.	1.3	16
52	Deposition pattern and throughfall fluxes in secondary cool temperate forest, South Korea. <i>Atmospheric Environment</i> , 2017, 161, 71-81.	1.9	16
53	Trends of major, minor and rare earth elements in decomposing litter in a cool temperate ecosystem, South Korea. <i>Chemosphere</i> , 2019, 222, 214-226.	4.2	16
54	Comparison of the oxygen and hydrogen isotopes in the juices of fast-growing vegetables and slow-growing fruits. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 2809-2812.	0.7	15

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55	A mineral tracer toward high-resolution dust provenance on the Chinese Loess Plateau: SEM, TEM, and sulfur isotopes of sulfate inclusions in biotite. <i>American Mineralogist</i> , 2010, 95, 64-72.	0.9	15
56	Characterization of thermally treated Co ²⁺ -exchanged zeolite X. <i>Applied Catalysis B: Environmental</i> , 2012, 127, 68-76.	10.8	14
57	Application of stable isotopes and dissolved ions for monitoring landfill leachate contamination. <i>Environmental Geochemistry and Health</i> , 2020, 42, 1387-1399.	1.8	14
58	Determination of the Geographical Origin of Kimchi by ¹ H NMR-Based Metabolite Profiling. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 1752-1757.	0.6	13
59	Effects of bedrock on the chemical and Sr isotopic compositions of plants. <i>Environmental Earth Sciences</i> , 2015, 74, 829-837.	1.3	13
60	Site related ¹³ C of vegetation and soil organic carbon in a cool temperate region. <i>Plant and Soil</i> , 2017, 418, 293-306.	1.8	13
61	Mean transit time and subsurface flow paths in a humid temperate headwater catchment with granitic bedrock. <i>Journal of Hydrology</i> , 2020, 587, 124942.	2.3	12
62	Recent developments in pre-treatment and analytical techniques for synthetic polymers by MALDI-TOF mass spectrometry. <i>Analytical Methods</i> , 2020, 12, 5767-5800.	1.3	12
63	Geochemistry and Sr-Nd-Pb isotopic systematics of the Ogcheon amphibolites from the central Ogcheon Belt, Korea: Implication for the source heterogeneity.. <i>Geochemical Journal</i> , 1997, 31, 223-243.	0.5	11
64	Chemical and isotopic compositions of bottled waters sold in Korea: chemical enrichment and isotopic fractionation by desalination. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 25-31.	0.7	11
65	Seasonal and spatial variations in water chemistry and nitrate sources in six major Korean rivers. <i>Environmental Earth Sciences</i> , 2013, 68, 2271-2279.	1.3	11
66	Natural and anthropogenic sources and processes affecting water chemistry in two South Korean streams. <i>Science of the Total Environment</i> , 2014, 485-486, 270-280.	3.9	11
67	Investigation of the geographical provenance of the beer available in South Korea using multielements and isotopes. <i>Food Control</i> , 2016, 60, 378-381.	2.8	11
68	Chemical and isotopic compositions of groundwater and stream water in a heavy agricultural basin of Korea. <i>Journal of the Geological Society of India</i> , 2013, 82, 169-180.	0.5	10
69	Oxygen and hydrogen isotopic characterization of rainfall and throughfall in four South Korean cool temperate forests. <i>Hydrological Sciences Journal</i> , 2017, 62, 2025-2034.	1.2	10
70	Structural determination of lysophosphatidylcholines extracted from marine sponges by fast atom bombardment tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 1120-1126.	0.7	9
71	Passage of Tropical Storm Allison (2001) over southeast Texas recorded in ¹⁸ O values of Ostracoda. <i>Quaternary Research</i> , 2008, 70, 339-342.	1.0	8
72	Geographic Origins of Korean and Chinese Kimchi Determined by Multiple Elements. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 2096-2100.	0.6	8

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73	Tracing anthropogenic DIC in urban streams based on isotopic and geochemical tracers. <i>Environmental Earth Sciences</i> , 2015, 74, 2707-2717.	1.3	8
74	Spatial distributions of strontium isotope ratios in human hair and tap water from South Korea. <i>Science of the Total Environment</i> , 2022, 806, 151352.	3.9	8
75	Stable Isotopic Fingerprinting for Identification of the Methyl Tert-Butyl Ether (MTBE) Manufacturer. <i>Environmental Forensics</i> , 2013, 14, 36-41.	1.3	7
76	Spatial variability in hydrogen and oxygen isotopic composition of Korean Red Pine and its implication for tracing wood origin. <i>Environmental Earth Sciences</i> , 2015, 73, 8045-8052.	1.3	7
77	Discrimination of side-window glass of Korean autos by laser ablation inductively coupled plasma mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1612-1618.	0.7	7
78	Multivariate classification of the geographic origin of Chinese cabbage using an electronic nose-mass spectrometry. <i>Food Science and Biotechnology</i> , 2017, 26, 603-609.	1.2	7
79	Characterizing groundwater recharge using oxygen and hydrogen isotopes: a case study in a temperate forested region, South Korea. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	7
80	Sources of dissolved ions revealed by chemical and isotopic tracers in the Geum River, South Korea. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	7
81	Spatial distributions of oxygen and hydrogen isotopes in multi-level groundwater across South Korea: A case study of mountainous regions. <i>Science of the Total Environment</i> , 2022, 812, 151428.	3.9	7
82	A Fast, Simple Calibration Method for Organic Carbon Isotope Analysis Using Continuous-flow Elemental Analyzer Interfaced with an Isotope Ratio Mass Spectrometer. <i>Analytical Sciences</i> , 2007, 23, 1447-1449.	0.8	6
83	Hydrochemistry and isotope geochemistry of Song Stream, a headwater tributary of the South Han River, South Korea. <i>Geosciences Journal</i> , 2007, 11, 157-164.	0.6	6
84	Using stable isotope analysis to discriminate gasoline on the basis of its origin. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 517-522.	0.7	6
85	The association between carbon and nitrogen stable isotope ratios of human hair and metabolic syndrome. <i>Clinica Chimica Acta</i> , 2015, 450, 72-77.	0.5	6
86	Hydrogeochemical and isotopic features of the groundwater flow systems in the central-northern part of Jeju Island (Republic of Korea). <i>Journal of Geochemical Exploration</i> , 2017, 175, 99-109.	1.5	6
87	Nitrogen, Sulfur, and Oxygen Isotope Ratios of Animal- and Plant-Based Organic Fertilizers Used in South Korea. <i>Journal of Environmental Quality</i> , 2017, 46, 559-567.	1.0	6
88	Monitoring the movement of artificially injected CO ₂ at a shallow experimental site in Korea using carbon isotopes. <i>Journal of Environmental Management</i> , 2020, 258, 110030.	3.8	6
89	Hydrograph separation for a small agricultural watershed: The role of irrigation return flow. <i>Journal of Hydrology</i> , 2021, 593, 125831.	2.3	6
90	Determination of the geographic origin of garlic using the bioelement content and isotope signatures. <i>Food Control</i> , 2021, 130, 108339.	2.8	6

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91	The geochemistry and isotopic compositions of the Nakdong River, Korea: weathering and anthropogenic effects. <i>Environmental Monitoring and Assessment</i> , 2022, 194, .	1.3	5
92	Occurrence and mineral chemistry of bismuth sulfide-telluride-selenide solid solutions (ingodite,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 Abhandlungen</i> , 2005, 181, 293-333.	0.1	4
93	Origin assessment of domestic and imported beef sold in the Korean markets using stable carbon and oxygen isotopes. <i>Food Science and Biotechnology</i> , 2012, 21, 233-237.	1.2	4
94	Major, trace and rare earth elements dynamics in decomposing litters on successional sites in a cool temperate region of South Korea. <i>Science of the Total Environment</i> , 2020, 749, 142352.	3.9	4
95	Major and Trace Element Geochemistry of Korean Bottled Waters. <i>Water (Switzerland)</i> , 2020, 12, 2585.	1.2	4
96	Improved method for simultaneous determination of the carbon isotopic composition and concentration of atmospheric CO ₂ using CF-IRMS. <i>International Journal of Mass Spectrometry</i> , 2020, 452, 116327.	0.7	4
97	Dietary homogenization and spatial distributions of carbon, nitrogen, and sulfur isotope ratios in human hair in South Korea. <i>PLoS ONE</i> , 2021, 16, e0256404.	1.1	4
98	Identification of sources affecting water chemistry in the Nakdong River, South Korea. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	3
99	Assessing seasonal variations in water sources of streamflow in a temperate mesoscale catchment with granitic bedrocks using hydrochemistry and stable isotopes. <i>Journal of Hydrology: Regional Studies</i> , 2021, 38, 100940.	1.0	3
100	Association between Nitrogen Stable Isotope Ratios in Human Hair and Serum Levels of Leptin. <i>Tohoku Journal of Experimental Medicine</i> , 2017, 243, 133-139.	0.5	2
101	Strontium isotope composition aided strontium and calcium sourcing in a cool temperate ecosystem, South Korea. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	2
102	Dual isotopes of nitrate in Korean fertilizers and their application for identifying nitrate sources. <i>Episodes</i> , 2020, , .	0.8	2
103	Effects of Filter-Membrane Materials on Concentrations of Trace Elements in Acidic Solutions. <i>Water (Switzerland)</i> , 2020, 12, 3497.	1.2	1
104	Datasets for spatial variation of O and H isotopes in waters and hair across South Korea. <i>Data in Brief</i> , 2020, 30, 105666.	0.5	1
105	VALIDATED MEASUREMENT OF URANIUM IN A HUMAN URINE STANDARD REFERENCE MATERIAL BY ICP-MS WITH THE STANDARD ADDITION METHOD. <i>Radiation Protection Dosimetry</i> , 2021, 194, 153-162.	0.4	1
106	Lithological controls of dissolved trace elements: carbonate versus silicate. <i>Carbonates and Evaporites</i> , 2015, 30, 119-125.	0.4	0
107	Factors affecting diurnal dissolved inorganic carbon and its isotopic composition in a small stream on a volcanic island in South Korea. <i>Geosciences Journal</i> , 2020, 24, 73-83.	0.6	0
108	Effects of climate factors on spatiotemporal variation in carbon and oxygen isotope ratios in Korean rice. <i>Journal of Food Composition and Analysis</i> , 2022, 108, 104416.	1.9	0