

Kwang-Sik Lee

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Hydrograph separation for a small agricultural watershed: The role of irrigation return flow. <i>Journal of Hydrology</i> , 2021, 593, 125831. | 2.3 | 6 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | Determination of the geographic origin of garlic using the bioelement content and isotope signatures. <i>Food Control</i> , 2021, 130, 108339. | 2.8 | 6 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | Geographical origin identification of garlic cultivated in Korea using isotopic and multi-elemental analyses. <i>Food Control</i> , 2020, 111, 107064. | 2.8 | 33 |
| 14 | 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 |
| 15 | Effects of Filter-Membrane Materials on Concentrations of Trace Elements in Acidic Solutions. <i>Water (Switzerland)</i> , 2020, 12, 3497. | 1.2 | 1 |
| 16 | Revisited digestion methods for trace element analysis in human hair. <i>Journal of Analytical Science and Technology</i> , 2020, 11, . | 1.0 | 17 |
| 17 | Major and Trace Element Geochemistry of Korean Bottled Waters. <i>Water (Switzerland)</i> , 2020, 12, 2585. | 1.2 | 4 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | Dual isotopes of nitrate in Korean fertilizers and their application for identifying nitrate sources. <i>Episodes</i> , 2020, , . | 0.8 | 2 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | Anthropogenic rare earth elements and their spatial distributions in the Han River, South Korea. <i>Chemosphere</i> , 2017, 172, 155-165. | 4.2 | 81 |
| 31 | 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 |
| 32 | Deposition pattern and throughfall fluxes in secondary cool temperate forest, South Korea. <i>Atmospheric Environment</i> , 2017, 161, 71-81. | 1.9 | 16 |
| 33 | Site related $\delta^{13}C$ of vegetation and soil organic carbon in a cool temperate region. <i>Plant and Soil</i> , 2017, 418, 293-306. | 1.8 | 13 |
| 34 | 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 |
| 35 | 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 |
| 36 | Identification of sources affecting water chemistry in the Nakdong River, South Korea. <i>Environmental Earth Sciences</i> , 2017, 76, 1. | 1.3 | 3 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Distribution and potential health risk of groundwater uranium in Korea. <i>Chemosphere</i> , 2016, 163, 108-115. | 4.2 | 77 |
| 42 | 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 |
| 43 | Determination of glyphosate and its metabolite in emergency room in Korea. <i>Forensic Science International</i> , 2016, 265, 41-46. | 1.3 | 20 |
| 44 | Experimental investigation of Mg isotope fractionation during mineral dissolution and clay formation. <i>Chemical Geology</i> , 2016, 445, 135-145. | 1.4 | 59 |
| 45 | 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 |
| 46 | 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 |
| 47 | Identification of anthropogenic contaminant sources in urbanized streams using multiple isotopes. <i>Environmental Earth Sciences</i> , 2015, 73, 8311-8324. | 1.3 | 16 |
| 48 | Effects of bedrock on the chemical and Sr isotopic compositions of plants. <i>Environmental Earth Sciences</i> , 2015, 74, 829-837. | 1.3 | 13 |
| 49 | Tracing anthropogenic DIC in urban streams based on isotopic and geochemical tracers. <i>Environmental Earth Sciences</i> , 2015, 74, 2707-2717. | 1.3 | 8 |
| 50 | 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 |
| 51 | Lithological controls of dissolved trace elements: carbonate versus silicate. <i>Carbonates and Evaporites</i> , 2015, 30, 119-125. | 0.4 | 0 |
| 52 | 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 |
| 53 | Magnesium isotope geochemistry in the Han River, South Korea. <i>Chemical Geology</i> , 2014, 364, 9-19. | 1.4 | 45 |
| 54 | 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 |

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|----|--|------|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | 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 |
| 60 | Discrimination of the geographic origin of cabbages. <i>Food Control</i> , 2013, 30, 626-630. | 2.8 | 19 |
| 61 | 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 |
| 62 | 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 |
| 63 | 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 |
| 64 | Stable Isotopic Fingerprinting for Identification of the Methyl Tert-Butyl Ether (MTBE) Manufacturer. <i>Environmental Forensics</i> , 2013, 14, 36-41. | 1.3 | 7 |
| 65 | Geographic Origins of Korean and Chinese Kimchi Determined by Multiple Elements. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 2096-2100. | 0.6 | 8 |
| 66 | 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 |
| 67 | 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | Characterization of thermally treated Co ²⁺ -exchanged zeolite X. <i>Applied Catalysis B: Environmental</i> , 2012, 127, 68-76. | 10.8 | 14 |
| 71 | 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 |
| 72 | 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 |

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|----|--|-----|-----------|
| 73 | Groundwater nitrate contamination and risk assessment in an agricultural area, South Korea. <i>Environmental Earth Sciences</i> , 2012, 66, 1127-1136. | 1.3 | 51 |
| 74 | 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 |
| 75 | 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 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | Chemical weathering and associated CO ₂ consumption in six major river basins, South Korea. <i>Geomorphology</i> , 2011, 129, 334-341. | 1.1 | 37 |
| 80 | 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 |
| 81 | 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 |
| 82 | 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 |
| 83 | Carbon isotope fractionation of benzene and toluene by progressive evaporation. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 1636-1640. | 0.7 | 22 |
| 84 | 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 |
| 85 | 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 |
| 86 | 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 |
| 87 | 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 |
| 88 | 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 |
| 89 | 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 |
| 90 | 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 |

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|-----|--|-----|-----------|
| 91 | 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 |
| 92 | Chemical weathering of carbonates and silicates in the Han River basin, South Korea. <i>Chemical Geology</i> , 2008, 247, 66-80. | 1.4 | 49 |
| 93 | 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 |
| 94 | 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 |
| 95 | Hydrogeochemical and isotopic investigations of the Han River basin, South Korea. <i>Journal of Hydrology</i> , 2007, 345, 50-60. | 2.3 | 40 |
| 96 | 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 |
| 97 | 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 |
| 98 | 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 |
| 99 | 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 |
| 100 | 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 |
| 101 | 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 |
| 102 | Occurrence and mineral chemistry of bismuth sulfide-telluride-selenide solid solutions (ingodite). <i>Abhandlungen</i> , 2005, 181, 293-333. | 0.1 | 4 |
| 103 | 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 |
| 104 | Nitrate contamination of alluvial groundwaters in the Nakdong River basin, Korea. <i>Geosciences Journal</i> , 2002, 6, 35-46. | 0.6 | 41 |
| 105 | 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 |
| 106 | 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 |
| 107 | Neoproterozoic bimodal volcanism in the central Ogcheon belt, Korea: age and tectonic implication. <i>Precambrian Research</i> , 1998, 89, 47-57. | 1.2 | 126 |
| 108 | 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 |