

Seong-Taek Yun

List of Publications by Year in descending order

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189
papers

5,623
citations

101384

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191
all docs

191
docs citations

191
times ranked

5878
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Global demand for rare earth resources and strategies for green mining. <i>Environmental Research</i> , 2016, 150, 182-190. | 3.7 | 389 |
| 2 | Fluorine geochemistry in bedrock groundwater of South Korea. <i>Science of the Total Environment</i> , 2007, 385, 272-283. | 3.9 | 332 |
| 3 | 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. | 1.8 | 212 |
| 4 | Regional hydrochemical study on salinization of coastal aquifers, western coastal area of South Korea. <i>Journal of Hydrology</i> , 2005, 313, 182-194. | 2.3 | 210 |
| 5 | Removal of divalent heavy metals (Cd, Cu, Pb, and Zn) and arsenic(III) from aqueous solutions using scoria: Kinetics and equilibria of sorption. <i>Journal of Hazardous Materials</i> , 2010, 174, 307-313. | 6.5 | 166 |
| 6 | Removal of copper, nickel and chromium mixtures from metal plating wastewater by adsorption with modified carbon foam. <i>Chemosphere</i> , 2017, 166, 203-211. | 4.2 | 152 |
| 7 | Hydrogeochemistry of sodium-bicarbonate type bedrock groundwater in the Pocheon spa area, South Korea: water-rock interaction and hydrologic mixing. <i>Journal of Hydrology</i> , 2006, 321, 326-343. | 2.3 | 135 |
| 8 | Hydrogeochemistry of alluvial groundwaters in an agricultural area: an implication for groundwater contamination susceptibility. <i>Chemosphere</i> , 2004, 55, 369-378. | 4.2 | 120 |
| 9 | Batch dissolution of granite and biotite in water: Implication for fluorine geochemistry in groundwater. <i>Geochemical Journal</i> , 2006, 40, 95-102. | 0.5 | 110 |
| 10 | Metal contamination and solid phase partitioning of metals in urban roadside sediments. <i>Chemosphere</i> , 2005, 60, 672-689. | 4.2 | 104 |
| 11 | Current Status of Trace Metal Pollution in Soils Affected by Industrial Activities. <i>Scientific World Journal</i> , The, 2012, 2012, 1-18. | 0.8 | 103 |
| 12 | Two-year magnetic monitoring in conjunction with geochemical and electron microscopic data of roadside dust in Seoul, Korea. <i>Atmospheric Environment</i> , 2007, 41, 7627-7641. | 1.9 | 101 |
| 13 | Pilot scale study on the ex situ electrokinetic removal of heavy metals from municipal wastewater sludges. <i>Water Research</i> , 2002, 36, 4765-4774. | 5.3 | 92 |
| 14 | Recovery of nanomaterials from battery and electronic wastes: A new paradigm of environmental waste management. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 3694-3704. | 8.2 | 89 |
| 15 | Alteration-mineralization zoning and fluid inclusions of the high sulfidation epithermal Cu-Au mineralization at Zijinshan, Fujian Province, China. <i>Economic Geology</i> , 1998, 93, 961-980. | 1.8 | 88 |
| 16 | Hydrogeochemical interpretation of South Korean groundwater monitoring data using Self-Organizing Maps. <i>Journal of Geochemical Exploration</i> , 2014, 137, 73-84. | 1.5 | 81 |
| 17 | Hydrochemical and multivariate statistical interpretations of spatial controls of nitrate concentrations in a shallow alluvial aquifer around oxbow lakes (Osong area, central Korea). <i>Journal of Contaminant Hydrology</i> , 2009, 107, 114-127. | 1.6 | 80 |
| 18 | Determination of natural backgrounds and thresholds of nitrate in South Korean groundwater using model-based statistical approaches. <i>Journal of Geochemical Exploration</i> , 2015, 148, 196-205. | 1.5 | 76 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Hydrochemistry of urban groundwater in Seoul, South Korea: effects of land-use and pollutant recharge. <i>Environmental Geology</i> , 2005, 48, 979-990. | 1.2 | 73 |
| 20 | Quantification of nitrate sources in groundwater using hydrochemical and dual isotopic data combined with a Bayesian mixing model. <i>Agriculture, Ecosystems and Environment</i> , 2015, 199, 369-381. | 2.5 | 73 |
| 21 | Molecular layer-by-layer assembled forward osmosis membranes. <i>Journal of Membrane Science</i> , 2015, 488, 111-120. | 4.1 | 67 |
| 22 | Monitoring of TiO ₂ -catalytic UV-LED photo-oxidation of cyanide contained in mine wastewater and leachate. <i>Chemosphere</i> , 2016, 143, 106-114. | 4.2 | 66 |
| 23 | Geologic controls on the chemical behaviour of nitrate in riverside alluvial aquifers, Korea. <i>Hydrological Processes</i> , 2003, 17, 1197-1211. | 1.1 | 61 |
| 24 | Nitrate contamination and subsequent hydrogeochemical processes of shallow groundwater in agro-livestock farming districts in South Korea. <i>Agriculture, Ecosystems and Environment</i> , 2019, 273, 50-61. | 2.5 | 58 |
| 25 | The combined use of self-organizing map technique and fuzzy c-means clustering to evaluate urban groundwater quality in Seoul metropolitan city, South Korea. <i>Journal of Hydrology</i> , 2019, 569, 685-697. | 2.3 | 57 |
| 26 | Kinetic enhancement in photocatalytic oxidation of organic compounds by WO ₃ in the presence of Fenton-like reagent. <i>Applied Catalysis B: Environmental</i> , 2013, 138-139, 311-317. | 10.8 | 56 |
| 27 | Transport and sediment-water partitioning of trace metals in acid mine drainage: an example from the abandoned Kwangyang Au-Ag mine area, South Korea. <i>Environmental Geology</i> , 2005, 48, 437-449. | 1.2 | 52 |
| 28 | Hydrochemistry of urban groundwater, Seoul, Korea: The impact of subway tunnels on groundwater quality. <i>Journal of Contaminant Hydrology</i> , 2008, 101, 42-52. | 1.6 | 50 |
| 29 | Sorption of Zn(II) in aqueous solutions by scoria. <i>Chemosphere</i> , 2005, 60, 1416-1426. | 4.2 | 48 |
| 30 | Nitrate contamination of alluvial groundwaters in the Nakdong River basin, Korea. <i>Geosciences Journal</i> , 2002, 6, 35-46. | 0.6 | 41 |
| 31 | Sources and biogeochemical behavior of nitrate and sulfate in an alluvial aquifer: Hydrochemical and stable isotope approaches. <i>Applied Geochemistry</i> , 2011, 26, 1249-1260. | 1.4 | 41 |
| 32 | Evaluation of geochemical processes affecting groundwater chemistry based on mass balance approach: A case study in Namwon, Korea. <i>Geochemical Journal</i> , 2005, 39, 357-369. | 0.5 | 41 |
| 33 | Title is missing!. <i>Water, Air, and Soil Pollution</i> , 2003, 150, 135-162. | 1.1 | 40 |
| 34 | Baseline Study on Essential and Trace Elements in Polished Rice from South Korea. <i>Environmental Geochemistry and Health</i> , 2005, 27, 455-464. | 1.8 | 40 |
| 35 | Shift of nitrate sources in groundwater due to intensive livestock farming on Jeju Island, South Korea: With emphasis on legacy effects on water management. <i>Water Research</i> , 2021, 191, 116814. | 5.3 | 40 |
| 36 | Hydrologic characteristics of a large rockfill dam: Implications for water leakage. <i>Engineering Geology</i> , 2005, 80, 43-59. | 2.9 | 39 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Hydrochemical assessment of freshening saline groundwater using multiple end-members mixing modeling: A study of Red River delta aquifer, Vietnam. <i>Journal of Hydrology</i> , 2017, 549, 703-714. | 2.3 | 37 |
| 38 | Studies of spatial and temporal distribution characteristics of TSP-bound trace metals in Seoul, Korea. <i>Environmental Pollution</i> , 2004, 127, 323-333. | 3.7 | 36 |
| 39 | Hydrochemical and stable isotopic assessment of nitrate contamination in an alluvial aquifer underneath a riverside agricultural field. <i>Agricultural Water Management</i> , 2009, 96, 1819-1827. | 2.4 | 36 |
| 40 | Model-based clustering of hydrochemical data to demarcate natural versus human impacts on bedrock groundwater quality in rural areas, South Korea. <i>Journal of Hydrology</i> , 2014, 519, 626-636. | 2.3 | 36 |
| 41 | Geochemical pattern recognitions of deep thermal groundwater in South Korea using self-organizing map: Identified pathways of geochemical reaction and mixing. <i>Journal of Hydrology</i> , 2020, 589, 125202. | 2.3 | 36 |
| 42 | Effect of V ₂ O ₅ loading of V ₂ O ₅ /TiO ₂ catalysts prepared via CVC and impregnation methods on NO _x removal. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 708-715. | 10.8 | 35 |
| 43 | Hydrogeochemical processes in clastic sedimentary rocks, South Korea: A natural analogue study of the role of dedolomitization in geologic carbon storage. <i>Chemical Geology</i> , 2012, 306-307, 103-113. | 1.4 | 34 |
| 44 | Reaction path modeling of hydrogeochemical evolution of groundwater in granitic bedrocks, South Korea. <i>Journal of Geochemical Exploration</i> , 2012, 118, 90-97. | 1.5 | 34 |
| 45 | Geochemical behavior of rare earth elements during the evolution of CO ₂ -rich groundwater: A study from the Kangwon district, South Korea. <i>Chemical Geology</i> , 2009, 262, 318-327. | 1.4 | 32 |
| 46 | Hydrochemical evaluation of the influences of mining activities on river water chemistry in central northern Mongolia. <i>Environmental Science and Pollution Research</i> , 2017, 24, 2019-2034. | 2.7 | 32 |
| 47 | Blend-electrospun graphene oxide/Poly(vinylidene fluoride) nanofibrous membranes with high flux, tetracycline removal and anti-fouling properties. <i>Chemosphere</i> , 2018, 207, 347-356. | 4.2 | 32 |
| 48 | Geoelectric resistivity sounding of riverside alluvial aquifer in an agricultural area at Buyeo, Geum River watershed, Korea: an application to groundwater contamination study. <i>Environmental Geology</i> , 2007, 53, 849-859. | 1.2 | 31 |
| 49 | Bacterial and fungal community composition across the soil depth profiles in a fallow field. <i>Journal of Ecology and Environment</i> , 2017, 41, . | 1.6 | 31 |
| 50 | Buffering of sodium concentration by cation exchange in the groundwater system of a sandy aquifer. <i>Geochemical Journal</i> , 2005, 39, 273-284. | 0.5 | 31 |
| 51 | Jurassic mesothermal gold mineralization of the Samhwanghak Mine, Youngdong area, Republic of Korea; constraints on hydrothermal fluid geochemistry. <i>Economic Geology</i> , 1997, 92, 60-80. | 1.8 | 29 |
| 52 | Estimation of deep-reservoir temperature of CO ₂ -rich springs in Kangwon district, South Korea. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 141, 77-89. | 0.8 | 29 |
| 53 | Targeted removal of trichlorophenol in water by oleic acid-coated nanoscale palladium/zero-valent iron alginate beads11Abbreviations: CP “ chlorophenol; DCP “ dichlorophenol; MCP “ monochlorophenol; n-ZVI “ nanoscale zero-valent iron; Pd/nZVI “ nanoscale palladium zero-valent iron; Pd/nZVI-A “ nanoscale palladium zero-valent iron alginate beads; Pd/nZVI-A-O “ oleic acid-coated nanoscale palladium zero-valent iron alginate beads; SRHA “ Suwannee River humic acid; TCP “ trichlorophenol. <i>Journal of Hazardous Materials</i> , 2015, 293, 30-36 | 6.5 | 29 |
| 54 | Photocatalytic degradation of chlorophenols using star block copolymers: Removal efficiency, by-products and toxicity of catalyst. <i>Chemical Engineering Journal</i> , 2013, 215-216, 921-928. | 6.6 | 28 |

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|----|--|-----|-----------|
| 55 | Photocatalytic performance of V ₂ O ₅ /TiO ₂ materials prepared by chemical vapor condensation and impregnation method under visible-light. Powder Technology, 2014, 258, 352-357. | 2.1 | 28 |
| 56 | Shallow groundwater system monitoring on controlled CO ₂ release sites: a review on field experimental methods and efforts for CO ₂ leakage detection. Geosciences Journal, 2016, 20, 569-583. | 0.6 | 28 |
| 57 | Hydrochemical assessment of environmental status of surface and ground water in mine areas in South Korea: Emphasis on geochemical behaviors of metals and sulfate in ground water. Journal of Geochemical Exploration, 2017, 183, 33-45. | 1.5 | 28 |
| 58 | Atmospheric versus lithogenic contribution to the composition of first- and second-order stream waters in Seoul and its vicinity. Environment International, 2004, 30, 73-85. | 4.8 | 27 |
| 59 | Regional geologic setting and metallogenesis of central Inner Mongolia, China: guides for exploration of mesothermal gold deposits. Ore Geology Reviews, 1999, 14, 129-146. | 1.1 | 26 |
| 60 | Coal fly ash and synthetic coal fly ash aggregates as reactive media to remove zinc from aqueous solutions. Journal of Hazardous Materials, 2009, 164, 235-246. | 6.5 | 26 |
| 61 | Impacts of CO ₂ leakage on plants and microorganisms: A review of results from CO ₂ release experiments and storage sites. , 2016, 6, 319-338. | | 26 |
| 62 | Evaluation of amine-functionalized acrylic ion exchange fiber for chromium(VI) removal using flow-through experiments modeling and real wastewater. Journal of Industrial and Engineering Chemistry, 2018, 66, 187-195. | 2.9 | 26 |
| 63 | Signature of oxygen and sulfur isotopes of sulfate in ground and surface water reflecting enhanced sulfide oxidation in mine areas. Applied Geochemistry, 2019, 100, 143-151. | 1.4 | 26 |
| 64 | Origin and evolution of two contrasting thermal groundwaters (CO ₂ -rich and alkaline) in the Jungwon area, South Korea: Hydrochemical and isotopic evidence. Journal of Volcanology and Geothermal Research, 2008, 178, 777-786. | 0.8 | 25 |
| 65 | Geochemical modeling of CO ₂ "water" rock interactions for two different hydrochemical types of CO ₂ -rich springs in Kangwon District, Korea. Journal of Geochemical Exploration, 2014, 144, 49-62. | 1.5 | 25 |
| 66 | Effect of Spa Spring Water on Cytokine Expression in Human Keratinocyte HaCaT Cells and on Differentiation of CD4 ⁺ T Cells. Annals of Dermatology, 2012, 24, 324. | 0.3 | 24 |
| 67 | CO ₂ leakage detection in the near-surface above natural CO ₂ -rich water aquifer using soil gas monitoring. International Journal of Greenhouse Gas Control, 2019, 88, 261-271. | 2.3 | 24 |
| 68 | Better assessment of the distribution of As and Pb in soils in a former smelting area, using ordinary co-kriging and sequential Gaussian co-simulation of portable X-ray fluorescence (PXRF) and ICP-AES data. Geoderma, 2019, 341, 26-38. | 2.3 | 24 |
| 69 | Evaluation of factors affecting performance of a zeolitic rock barrier to remove zinc from water. Journal of Hazardous Materials, 2010, 175, 224-234. | 6.5 | 23 |
| 70 | Characterizing the spatial distribution of CO ₂ leakage from the shallow CO ₂ release experiment in South Korea. International Journal of Greenhouse Gas Control, 2018, 72, 152-162. | 2.3 | 23 |
| 71 | Using stable isotopes and tritium to delineate groundwater flow systems and their relationship to streams in the Geum River basin, Korea. Journal of Hydrology, 2019, 573, 267-280. | 2.3 | 23 |
| 72 | Enhanced low-temperature NH ₃ -SCR activity of a V ₂ O ₅ /TiO ₂ composite prepared via chemical vapor condensation and impregnation method. Materials Research Bulletin, 2013, 48, 4415-4418. | 2.7 | 22 |

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|----|--|-----|-----------|
| 73 | Assessing redox zones and seawater intrusion in a coastal aquifer in South Korea using hydrogeological, chemical and isotopic approaches. <i>Chemical Geology</i> , 2014, 390, 119-134. | 1.4 | 22 |
| 74 | Assessment of nitrogen application limits in agro-livestock farming areas using quantile regression between nitrogen loadings and groundwater nitrate levels. <i>Agriculture, Ecosystems and Environment</i> , 2019, 286, 106660. | 2.5 | 22 |
| 75 | Geochemistry and genesis of hydrothermal Au-Ag-Pb-Zn deposits in the Hwanggangri mineralized district, Republic of Korea. <i>Economic Geology</i> , 1992, 87, 2056-2084. | 1.8 | 21 |
| 76 | Controlled Release Test Facility to Develop Environmental Monitoring Techniques for Geologically Stored CO ₂ in Korea. <i>Energy Procedia</i> , 2017, 114, 3040-3051. | 1.8 | 21 |
| 77 | Te- and Se-bearing epithermal Au-Ag mineralization, Prasolovskoye, Kunashir Island, Kuril island arc. <i>Economic Geology</i> , 1995, 90, 105-117. | 1.8 | 20 |
| 78 | Mesothermal gold vein mineralization of the Samdong mine, Youngdong mining district, Republic of Korea. <i>Mineralium Deposita</i> , 1995, 30, 384. | 1.7 | 20 |
| 79 | Effects of land use on the spatial distribution of trace metals and volatile organic compounds in urban groundwater, Seoul, Korea. <i>Environmental Geology</i> , 2005, 48, 1116-1131. | 1.2 | 20 |
| 80 | Fe and Mn levels regulated by agricultural activities in alluvial groundwaters underneath a flooded paddy field. <i>Applied Geochemistry</i> , 2008, 23, 44-57. | 1.4 | 20 |
| 81 | The combined use of dynamic factor analysis and wavelet analysis to evaluate latent factors controlling complex groundwater level fluctuations in a riverside alluvial aquifer. <i>Journal of Hydrology</i> , 2017, 555, 938-955. | 2.3 | 20 |
| 82 | Geochemical studies of the Gyeongchang W-Mo Mine, Republic of Korea; progressive meteoric water inundation of a magmatic hydrothermal system. <i>Economic Geology</i> , 1991, 86, 750-767. | 1.8 | 19 |
| 83 | Mineralogic, fluid inclusion, and stable isotope evidence for the genesis of carbonate-hosted Pb-Zn(-Ag) orebodies of the Taebaek Deposit, Republic of Korea. <i>Economic Geology</i> , 1993, 88, 855-872. | 1.8 | 19 |
| 84 | Time-series analysis of three years of groundwater level data (Seoul, South Korea) to characterize urban groundwater recharge. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2010, 43, 117-127. | 0.8 | 19 |
| 85 | Application of natural and artificial tracers to constrain CO ₂ leakage and degassing in the K-COSEM site, South Korea. <i>International Journal of Greenhouse Gas Control</i> , 2019, 86, 211-225. | 2.3 | 19 |
| 86 | Genetic environment of germanium-bearing gold-silver vein ores from the Wolyu mine, Republic of Korea. <i>Mineralium Deposita</i> , 1993, 28, 107. | 1.7 | 17 |
| 87 | Hydrogeochemistry of seepage water collected within the Youngcheon diversion tunnel, Korea: source and evolution of SO ₄ -rich groundwater in sedimentary terrain. <i>Hydrological Processes</i> , 2001, 15, 1565-1583. | 1.1 | 17 |
| 88 | Role of an impermeable layer in controlling groundwater chemistry in a basaltic aquifer beneath an agricultural field, Jeju Island, South Korea. <i>Applied Geochemistry</i> , 2014, 45, 82-93. | 1.4 | 17 |
| 89 | A novel method of utilizing permeable reactive kiddle (PRK) for the remediation of acid mine drainage. <i>Journal of Hazardous Materials</i> , 2016, 301, 332-341. | 6.5 | 17 |
| 90 | Experimental studies of oxygen isotope fractionation between rhodochrosite (MnCO ₃) and water at low temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4400-4408. | 1.6 | 16 |

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|-----|--|-----|-----------|
| 91 | Electrokinetic remediation of heavy metal-contaminated soils: performance comparison between one- and two-dimensional electrode configurations. <i>Journal of Soils and Sediments</i> , 2021, 21, 2755-2769. | 1.5 | 16 |
| 92 | Models and Experiments on Electrokinetic Removal of Pb(II) from Kaolinite Clay. <i>Separation Science and Technology</i> , 2005, 39, 1927-1951. | 1.3 | 15 |
| 93 | Groundwater contamination assessment in Ulaanbaatar City, Mongolia with combined use of hydrochemical, environmental isotopic, and statistical approaches. <i>Science of the Total Environment</i> , 2021, 765, 142790. | 3.9 | 15 |
| 94 | Determination of longitudinal dispersivity in an unconfined sandy aquifer. <i>Hydrological Processes</i> , 2002, 16, 1955-1964. | 1.1 | 14 |
| 95 | Temperature evaluation of the Bugok geothermal system, South Korea. <i>Geothermics</i> , 2006, 35, 448-469. | 1.5 | 14 |
| 96 | A novel wavelet-based approach to characterize dynamic environmental factors controlling short-term soil surface CO ₂ flux: Application to a controlled CO ₂ release test site (EIT) in South Korea. <i>Geoderma</i> , 2019, 337, 76-90. | 2.3 | 14 |
| 97 | Geochemistry of a fossil hydrothermal system at Barton Peninsula, King George Island. <i>Antarctic Science</i> , 1995, 7, 63-72. | 0.5 | 13 |
| 98 | Studies of Spatial Variabilities of Airborne Metals Across Four Different Land-Use Types. <i>Water, Air, and Soil Pollution</i> , 2002, 138, 7-24. | 1.1 | 13 |
| 99 | Examination of surface phenomena of V ₂ O ₅ loaded on new nanostructured TiO ₂ prepared by chemical vapor condensation for enhanced NH ₃ -based selective catalytic reduction (SCR) at low temperatures. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17900. | 1.3 | 13 |
| 100 | Monitoring of CO ₂ -rich waters with low pH and low EC: an analogue study of CO ₂ leakage into shallow aquifers. <i>Environmental Earth Sciences</i> , 2016, 75, 1. | 1.3 | 13 |
| 101 | Comparison of volatile organic compounds in stormwater and groundwater in Seoul metropolitan city, South Korea. <i>Environmental Earth Sciences</i> , 2017, 76, 1. | 1.3 | 13 |
| 102 | Potential CO ₂ intrusion in near-surface environments: a review of current research approaches to geochemical processes. <i>Environmental Geochemistry and Health</i> , 2019, 41, 2339-2364. | 1.8 | 13 |
| 103 | Seawater-freshwater mixing and resulting calcite dissolution: an example from a coastal alluvial aquifer in eastern South Korea. <i>Hydrological Sciences Journal</i> , 2012, 57, 1672-1683. | 1.2 | 12 |
| 104 | Impacts of leachates from livestock carcass burial and manure heap sites on groundwater geochemistry and microbial community structure. <i>PLoS ONE</i> , 2017, 12, e0182579. | 1.1 | 12 |
| 105 | Nutrient removal from hydroponic wastewater by a microbial consortium and a culture of <i>Paracomonas saepenatans</i> . <i>New Biotechnology</i> , 2018, 41, 15-24. | 2.4 | 12 |
| 106 | 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 |
| 107 | Geochemical studies on the contamination and dispersion of trace metals in intertidal sediments around a military air weapons shooting range. <i>Journal of Soils and Sediments</i> , 2010, 10, 1142-1158. | 1.5 | 11 |
| 108 | Role of iron colloids in copper speciation during neutralization in a coastal acid mine drainage, South Korea: Insight from voltammetric analyses and surface complexation modeling. <i>Journal of Geochemical Exploration</i> , 2012, 112, 244-251. | 1.5 | 11 |

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|-----|--|-----|-----------|
| 109 | Influence of dissolved ions on determination of oxygen isotope composition of aqueous solutions using the CO ₂ -H ₂ O equilibration method. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 2083-2092. | 0.7 | 11 |
| 110 | Application of conditional generative model for sonic log estimation considering measurement uncertainty. <i>Journal of Petroleum Science and Engineering</i> , 2021, 196, 108028. | 2.1 | 11 |
| 111 | Influence of Different Substrates in Wetland Soils on Denitrification. <i>Water, Air, and Soil Pollution</i> , 2011, 215, 549-560. | 1.1 | 10 |
| 112 | Role of oxbow lakes in controlling redox geochemistry of shallow groundwater under a heterogeneous fluvial sedimentary environment in an agricultural field: Coexistence of iron and sulfate reduction. <i>Journal of Contaminant Hydrology</i> , 2016, 185-186, 28-41. | 1.6 | 10 |
| 113 | Spatial distribution, mineralogy, and weathering of heavy metals in soils along zinc-concentrate ground transportation routes: implication for assessing heavy metal sources. <i>Environmental Earth Sciences</i> , 2017, 76, 1. | 1.3 | 10 |
| 114 | Probabilistic assessment of potential leachate leakage from livestock mortality burial pits: A supervised classification approach using a Gaussian mixture model (GMM) fitted to a groundwater quality monitoring dataset. <i>Chemical Engineering Research and Design</i> , 2019, 129, 326-338. | 2.7 | 10 |
| 115 | Application of noble gas tracers to identify the retention mechanisms of CO ₂ migrated from a deep reservoir into shallow groundwater. <i>International Journal of Greenhouse Gas Control</i> , 2020, 97, 103041. | 2.3 | 10 |
| 116 | Interpreting the Subsurface Lithofacies at High Lithological Resolution by Integrating Information From Well-Log Data and Rock-Core Digital Images. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018204. | 1.4 | 10 |
| 117 | Contamination of groundwater by arsenic and other constituents in an industrial complex. <i>Environmental Earth Sciences</i> , 2010, 60, 65-79. | 1.3 | 9 |
| 118 | Sequestration of arsenate from aqueous solution using 2-line ferrihydrite: equilibria, kinetics, and X-ray absorption spectroscopic analysis. <i>Environmental Earth Sciences</i> , 2014, 71, 3307-3318. | 1.3 | 9 |
| 119 | A method of estimating sequential average unsaturated zone travel times from precipitation and water table level time series data. <i>Journal of Hydrology</i> , 2017, 554, 570-581. | 2.3 | 9 |
| 120 | Feasibility study to optimize a near-surface sensor network design for improving detectability of CO ₂ leakage at a geologic storage site. <i>Journal of Hydrology</i> , 2019, 572, 32-39. | 2.3 | 9 |
| 121 | Compositional data analysis and geochemical modeling of CO ₂ -water-rock interactions in three provinces of Korea. <i>Environmental Geochemistry and Health</i> , 2019, 41, 357-380. | 1.8 | 9 |
| 122 | Evaluation of Long-Term Impacts of CO ₂ Leakage on Groundwater Quality Using Hydrochemical Data from a Natural Analogue Site in South Korea. <i>Water (Switzerland)</i> , 2020, 12, 1457. | 1.2 | 9 |
| 123 | Geochemical evidence of progressive meteoric water interaction in epithermal Au-Ag mineralization, Jeongju-Buan District, Republic of Korea. <i>Economic Geology</i> , 1996, 91, 636-646. | 1.8 | 8 |
| 124 | In-situ electrochemical measurements of total concentration and speciation of heavy metals in acid mine drainage (AMD): assessment of the use of anodic stripping voltammetry. <i>Environmental Geochemistry and Health</i> , 2006, 28, 283-296. | 1.8 | 8 |
| 125 | Metal enrichment and magnetic properties of core sediments from the eastern Yellow Sea, East Asia: Implications for paleo-depositional change during the late Pleistocene/Holocene transition. <i>Quaternary International</i> , 2011, 230, 95-105. | 0.7 | 8 |
| 126 | Geologically controlled agricultural contamination and water-rock interaction in an alluvial aquifer: results from a hydrochemical study. <i>Environmental Earth Sciences</i> , 2013, 68, 203-217. | 1.3 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | A predictive estimation method for carbon dioxide transport by data-driven modeling with a physically-based data model. <i>Journal of Contaminant Hydrology</i> , 2017, 206, 34-42. | 1.6 | 8 |
| 128 | Analyses and numerical evaluation of integrated time-series monitoring datasets including CO ₂ concentration and fluxes at controlled CO ₂ release site in South Korea. <i>Journal of Hydrology</i> , 2020, 590, 125213. | 2.3 | 8 |
| 129 | Spatial patterns of Zn, Cd, and Pb isotopic compositions of ground and surface water in mine areas of South Korea reflecting isotopic fractionation during metal attenuation. <i>Science of the Total Environment</i> , 2021, 779, 146453. | 3.9 | 8 |
| 130 | Factor and Cluster Analyses of Water Chemistry in and around a Large Rockfill Dam: Implications for Water Leakage. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009, 135, 1254-1263. | 1.5 | 7 |
| 131 | Identification of groundwater recharge sources and processes in a heterogeneous alluvial aquifer: results from multi-level monitoring of hydrochemistry and environmental isotopes in a riverside agricultural area in Korea. <i>Hydrological Processes</i> , 2010, 24, 317-330. | 1.1 | 7 |
| 132 | Changes in the chemical composition of V ₂ O ₅ -loaded CVC-TiO ₂ materials with calcination temperatures for NH ₃ -SCR of NO _x . <i>Journal of Porous Materials</i> , 2013, 20, 1069-1074. | 1.3 | 7 |
| 133 | A mesocosm study on biogeochemical role of rice paddy soils in controlling water chemistry and nitrate attenuation during infiltration. <i>Ecological Engineering</i> , 2013, 53, 89-99. | 1.6 | 7 |
| 134 | Vertical Hydrochemical Stratification of Groundwater in a Monitoring Well: Implications for Groundwater Monitoring on CO ₂ Leakage in Geologic Storage Sites. <i>Energy Procedia</i> , 2017, 114, 3863-3869. | 1.8 | 7 |
| 135 | Development of Raman Lidar for Remote Sensing of CO ₂ Leakage at an Artificial Carbon Capture and Storage Site. <i>Remote Sensing</i> , 2018, 10, 1439. | 1.8 | 7 |
| 136 | Efficacy of in situ well-based denitrification bio-barrier (WDB) remediating high nitrate flux in groundwater near a stock-raising complex. <i>Journal of Environmental Management</i> , 2020, 258, 110004. | 3.8 | 7 |
| 137 | Detection and quantification of underground CO ₂ leakage into the soil using a fiber-optic sensor. <i>Optical Fiber Technology</i> , 2020, 60, 102375. | 1.4 | 7 |
| 138 | Geochemistry of the Youngbogari deposit, Republic of Korea: An unusual mesothermal gold-silver deposit of the Youngdong area.. <i>Geochemical Journal</i> , 2002, 36, 155-171. | 0.5 | 6 |
| 139 | Logistic mixture of multivariate regressions for analysis of water quality impacted by agrochemicals. <i>Environmetrics</i> , 2007, 18, 499-514. | 0.6 | 6 |
| 140 | Evaluation of the processes affecting vertical water chemistry in an alluvial aquifer of Mankyeong Watershed, Korea, using multivariate statistical analyses. <i>Environmental Geology</i> , 2008, 54, 335-345. | 1.2 | 6 |
| 141 | Clustering of temporal profiles using a Bayesian logistic mixture model: Analyzing groundwater level data to understand the characteristics of urban groundwater recharge. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2009, 14, 356-373. | 0.7 | 6 |
| 142 | Temperature-dependent thermal stability and dispersibility of SiO ₂ @TiO ₂ nanocomposites via a chemical vapor condensation method. <i>Powder Technology</i> , 2014, 267, 153-160. | 2.1 | 6 |
| 143 | Leakage and pressurization risk assessment of CO ₂ reservoirs: A metamodelling modeling approach. <i>International Journal of Greenhouse Gas Control</i> , 2016, 54, 345-361. | 2.3 | 6 |
| 144 | Quantitative assessment of deep-seated CO ₂ leakage around CO ₂ -rich springs with low soil CO ₂ efflux using end-member mixing analysis and carbon isotopes. <i>Journal of Environmental Management</i> , 2020, 276, 111333. | 3.8 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | 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 |
| 146 | Delineating the impacts of poultry burial leachate on shallow groundwater in a reclaimed agro-livestock farming area, using multivariate statistical analysis of hydrochemical data. <i>Environmental Science and Pollution Research</i> , 2021, 28, 7742-7755. | 2.7 | 6 |
| 147 | Hydrochemical and Isotopic Difference of Spring Water Depending on Flow Type in a Stratigraphically Complex Karst Area of South Korea. <i>Frontiers in Earth Science</i> , 2021, 9, . | 0.8 | 6 |
| 148 | Evaluation of Geostatistical Approaches for better Estimation of Polluted Soil Volume with Uncertainty Evaluation. <i>Journal of Soil and Groundwater Environment</i> , 2012, 17, 69-81. | 0.1 | 6 |
| 149 | Constraining the effectiveness of inherent tracers of captured CO ₂ for tracing CO ₂ leakage: Demonstration in a controlled release site. <i>Science of the Total Environment</i> , 2022, 824, 153835. | 3.9 | 6 |
| 150 | Spatio-temporal variation of pH and ionic concentrations in precipitation: interaction between two contrasting stationary sources affecting air quality. <i>Geosciences Journal</i> , 2008, 12, 205-213. | 0.6 | 5 |
| 151 | Arsenite Oxidation and Treatment by Ultrasound/Iron in Aqueous Solutions. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 07HE08. | 0.8 | 5 |
| 152 | Detection of Carbonaceous Aerosols Released in CNT Workplaces Using an Aethalometer. <i>Annals of Occupational Hygiene</i> , 2016, 60, 717-730. | 1.9 | 5 |
| 153 | Lithologic Control of the Hydrochemistry of a Point-Bar Alluvial Aquifer at the Low Reach of the Nakdong River, South Korea: Implications for the Evaluation of Riverbank Filtration Potential. <i>Water (Switzerland)</i> , 2018, 10, 1763. | 1.2 | 5 |
| 154 | Hydrochemical Parameters to Assess the Evolutionary Process of CO ₂ -Rich Spring Water: A Suggestion for Evaluating CO ₂ Leakage Stages in Silicate Rocks. <i>Water (Switzerland)</i> , 2020, 12, 3421. | 1.2 | 5 |
| 155 | Hydrogeochemical modeling on water-rock-CO ₂ interactions within a CO ₂ -injected shallow aquifer. <i>Journal of the Geological Society of Korea</i> , 2017, 53, 657-673. | 0.3 | 5 |
| 156 | The Use of Ion Exchange Membranes for Isotope Analyses on Soil Water Sulfate: Laboratory Experiments. <i>Journal of Environmental Quality</i> , 2008, 37, 501-508. | 1.0 | 4 |
| 157 | Comparison of point-source pollutant loadings to soil and groundwater for 72 chemical substances. <i>Environmental Science and Pollution Research</i> , 2017, 24, 24816-24843. | 2.7 | 4 |
| 158 | Hydrochemical and Isotopic Characteristics of CO ₂ -rich Groundwater in the Gyeongsang Sedimentary Basin, South Korea: A Natural Analogue Study on the Potential Leakage of Geologically-stored CO ₂ . <i>Energy Procedia</i> , 2017, 114, 3805-3811. | 1.8 | 4 |
| 159 | One-at-a-time sensitivity analysis of pollutant loadings to subsurface properties for the assessment of soil and groundwater pollution potential. <i>Environmental Science and Pollution Research</i> , 2019, 26, 21216-21238. | 2.7 | 4 |
| 160 | Tracing CO ₂ leakage and migration using the hydrogeochemical tracers during a controlled CO ₂ release field test. <i>Applied Geochemistry</i> , 2022, 143, 105390. | 1.4 | 4 |
| 161 | Geochemistry and genesis of mesothermal gold deposits in Korea: Base metal-rich gold mineralization of the Byungjibang mine, Hwoingsung area.. <i>Journal of Mineralogy, Petrology and Economic Geology</i> , 1999, 94, 65-82. | 0.1 | 3 |
| 162 | A Natural Analogue Approach for Discriminating Leaks of CO ₂ Stored Underground Using Groundwater Geochemistry Statistical Methods, South Korea. <i>Water (Switzerland)</i> , 2017, 9, 960. | 1.2 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 163 | Effects of soil moisture content on CO ₂ triggered soil physicochemical properties in a near-surface environment. <i>Journal of Soils and Sediments</i> , 2020, 20, 2107-2120. | 1.5 | 3 |
| 164 | Short-Term Monitoring of Geogenic Soil CO ₂ Flux in a Non-Volcanic and Seismically Inactive Emission Site, South Korea. <i>Frontiers in Earth Science</i> , 2021, 8, . | 0.8 | 3 |
| 165 | Episodic meteoric water interaction in a granite-hosted hydrothermal gold-silver system: Geochemistry of fluids at the Mugeuk mine, South Korea. <i>Geochemical Journal</i> , 2005, 39, 227-240. | 0.5 | 3 |
| 166 | Development of an integrated hydrochemical index for delineating livestock manure-derived groundwater plumes in agro-livestock farming areas. <i>Ecological Indicators</i> , 2022, 138, 108838. | 2.6 | 3 |
| 167 | Hydrothermal bismuth mineralization of the Yucheon mine, South Korea: Oxygen and hydrogen isotope study. <i>Geosciences Journal</i> , 2001, 5, 243-250. | 0.6 | 2 |
| 168 | Genesis and Age Constraints on Gold Deposits of the Daerae Mine, Sangju Area, Central-Northern Sobaegsan Massif, Korea. <i>Resource Geology</i> , 2001, 51, 205-215. | 0.3 | 2 |
| 169 | Estimation of anthropogenic pollution using a Bayesian contamination model: an application to fractured bedrock groundwater from Han River Watershed, South Korea. <i>Environmetrics</i> , 2009, 20, 221-234. | 0.6 | 2 |
| 170 | Visualization of gaseous and dissolved CO ₂ migration in porous media. <i>Environmental Earth Sciences</i> , 2018, 77, 1. | 1.3 | 2 |
| 171 | Characterization of Environmental Drivers Controlling the Baseline of Soil Surface CO ₂ Flux using Wavelet-based Multiresolution State-Space Model and Wavelet Denoising. <i>Energy Procedia</i> , 2018, 154, 157-162. | 1.8 | 2 |
| 172 | Photosynthetic microalgae-mediated transformation of hexahydro-1,3,5-trinitro-1,3,5-triazine under initially anaerobic conditions. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 1677-1683. | 1.3 | 2 |
| 173 | Real-time monitoring of carbon dioxide emissions from a shallow carbon dioxide release experiment. <i>Vadose Zone Journal</i> , 2020, 19, e20051. | 1.3 | 2 |
| 174 | Investigating the Status of Mine Hazards in North Korea Using Satellite Pictures. <i>Journal of the Korean Society of Mineral and Energy Resources Engineers</i> , 2018, 55, 564-575. | 0.1 | 2 |
| 175 | Occurrence of Vanadium in Groundwater of Jeju Island, Korea. <i>Journal of Environmental Science International</i> , 2016, 25, 1563-1573. | 0.0 | 2 |
| 176 | Hydrogeochemical Characteristics of Bottled Waters Sourced from Bedrock Aquifers in South Korea: Evaluation of Water Type and Natural Background Levels. <i>Water (Switzerland)</i> , 2022, 14, 1457. | 1.2 | 2 |
| 177 | Geochemistry of the Granitoids hosting the Seolhwa Au mine, Asan district, Chungcheongnamdo province, Korea: Genetic implication on the mesothermal gold mineralization. <i>Geosystem Engineering</i> , 2002, 5, 54-66. | 0.7 | 1 |
| 178 | Influence of supercritical CO ₂ on bentonite properties. <i>Applied Clay Science</i> , 2017, 150, 354-363. | 2.6 | 1 |
| 179 | Assessment of Soil Contamination by Gas Cloud Generated from Chemical Fire Using Metabolic Profiling and Associated Bacterial Communities. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 372. | 0.8 | 1 |
| 180 | Data-driven sequence labeling methods incorporating the long-range spatial variation of geological data for lithofacies sequence estimation. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109345. | 2.1 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 181 | Sulfur isotope characteristics of mesothermal-type gold deposits in the Boseong-Jangheung area, Korea. Neues Jahrbuch Fur Mineralogie, Abhandlungen, 2003, 178, 107-129. | 0.1 | 1 |
| 182 | Status and Implications of Regulatory Frameworks for Environmental Management of Geologic CO ₂ Storage in USA and EU. Journal of Soil and Groundwater Environment, 2012, 17, 9-22. | 0.1 | 1 |
| 183 | Physicochemical patterns observed in a groundwater well with CO ₂ stratification: Learnings from an automated monitoring from South Korean national groundwater monitoring network. Journal of Hydrology, 2021, 604, 127229. | 2.3 | 1 |
| 184 | Technological environment and commercialization of Carbon Mineralization Flagship in Korea: production and utilization of complex carbonates using coal ash. Clean Technologies and Environmental Policy, 0, , 1. | 2.1 | 1 |
| 185 | Microbial diversity of two natural CO ₂ -rich springs with contrasting hydrochemical features. Geosciences Journal, 2020, 24, 745-753. | 0.6 | 0 |
| 186 | Modified approach for estimating geogenic Pb isotope ratios in soils for metal source apportionment. Environmental Earth Sciences, 2020, 79, 1. | 1.3 | 0 |
| 187 | NaHCO ₃ - and NaCl-Type Hot Springs Enhance the Secretion of Inflammatory Cytokine Induced by Polyinosinic-Polycytidylic Acid in HaCaT Cells. Annals of Dermatology, 2021, 33, 440. | 0.3 | 0 |
| 188 | The Effect of Carbon Dioxide Leaked from Geological Storage Site on Soil Fertility: A Study on Artificial Leakage. Economic and Environmental Geology, 2021, 54, 409-425. | 0.2 | 0 |
| 189 | UPTAKE CAPACITY OF ZN ²⁺ BY NATURAL VIETNAMESE BASALT AND THEIR APPLICATION FOR WASTEWATER TREATMENT. , 0, , 323-340. | | 0 |