

Seong-Taek Yun

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186
papers

4,314
citations

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h-index

58
g-index

191
ext. papers

4,878
ext. citations

4.8
avg, IF

5.47
L-index

#	Paper	IF	Citations
186	Fluorine geochemistry in bedrock groundwater of South Korea. <i>Science of the Total Environment</i> , 2007 , 385, 272-83	10.2	275
185	Global demand for rare earth resources and strategies for green mining. <i>Environmental Research</i> , 2016 , 150, 182-190	7.9	254
184	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	5.3	178
183	Regional hydrochemical study on salinization of coastal aquifers, western coastal area of South Korea. <i>Journal of Hydrology</i> , 2005 , 313, 182-194	6	167
182	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, 307-13	12.8	137
181	Removal of copper, nickel and chromium mixtures from metal plating wastewater by adsorption with modified carbon foam. <i>Chemosphere</i> , 2017 , 166, 203-211	8.4	117
180	Hydrogeochemistry of alluvial groundwaters in an agricultural area: an implication for groundwater contamination susceptibility. <i>Chemosphere</i> , 2004 , 55, 369-78	8.4	115
179	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	6	107
178	Batch dissolution of granite and biotite in water: Implication for fluorine geochemistry in groundwater. <i>Geochemical Journal</i> , 2006 , 40, 95-102	0.9	88
177	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	5.3	86
176	Pilot scale study on the ex situ electrokinetic removal of heavy metals from municipal wastewater sludges. <i>Water Research</i> , 2002 , 36, 4765-74	12.5	80
175	Metal contamination and solid phase partitioning of metals in urban roadside sediments. <i>Chemosphere</i> , 2005 , 60, 672-89	8.4	79
174	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	4.3	69
173	Current status of trace metal pollution in soils affected by industrial activities. <i>Scientific World Journal</i> , 2012 , 2012, 916705	2.2	67
172	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, 114-27	3.9	66
171	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	16.2	61
170	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	5.7	60

169	Geologic controls on the chemical behaviour of nitrate in riverside alluvial aquifers, Korea. <i>Hydrological Processes</i> , 2003 , 17, 1197-1211	3.3	59
168	Hydrogeochemical interpretation of South Korean groundwater monitoring data using Self-Organizing Maps. <i>Journal of Geochemical Exploration</i> , 2014 , 137, 73-84	3.8	57
167	Hydrochemistry of urban groundwater in Seoul, South Korea: effects of land-use and pollutant recharge. <i>Environmental Geology</i> , 2005 , 48, 979-990		57
166	Monitoring of TiO ₂ -catalytic UV-LED photo-oxidation of cyanide contained in mine wastewater and leachate. <i>Chemosphere</i> , 2016 , 143, 106-14	8.4	53
165	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	21.8	49
164	Molecular layer-by-layer assembled forward osmosis membranes. <i>Journal of Membrane Science</i> , 2015 , 488, 111-120	9.6	48
163	Hydrochemistry of urban groundwater, Seoul, Korea: the impact of subway tunnels on groundwater quality. <i>Journal of Contaminant Hydrology</i> , 2008 , 101, 42-52	3.9	46
162	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	3.8	45
161	Sorption of Zn(II) in aqueous solutions by scoria. <i>Chemosphere</i> , 2005 , 60, 1416-26	8.4	45
160	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		43
159	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	3.5	39
158	Nitrate contamination of alluvial groundwaters in the Nakdong River basin, Korea. <i>Geosciences Journal</i> , 2002 , 6, 35-46	1.4	37
157	Numerical and Experimental Studies on Cadmium (II) Transport in Kaolinite Clay under Electrical Fields. <i>Water, Air, and Soil Pollution</i> , 2003 , 150, 135-162	2.6	35
156	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	6	34
155	Baseline study on essential and trace elements in polished rice from South Korea. <i>Environmental Geochemistry and Health</i> , 2005 , 27, 455-64	4.7	34
154	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	0.9	34
153	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	21.8	33
152	Hydrologic characteristics of a large rockfill dam: Implications for water leakage. <i>Engineering Geology</i> , 2005 , 80, 43-59	6	33

151	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	5.7	32
150	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	5.9	31
149	Studies of spatial and temporal distribution characteristics of TSP-bound trace metals in Seoul, Korea. <i>Environmental Pollution</i> , 2004 , 127, 323-33	9.3	31
148	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	4.2	30
147	Reaction path modeling of hydrogeochemical evolution of groundwater in granitic bedrocks, South Korea. <i>Journal of Geochemical Exploration</i> , 2012 , 118, 90-97	3.8	30
146	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	4.2	29
145	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	6	26
144	Atmospheric versus lithogenic contribution to the composition of first- and second-order stream waters in Seoul and its vicinity. <i>Environment International</i> , 2004 , 30, 73-85	12.9	26
143	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	2.8	26
142	Coal fly ash and synthetic coal fly ash aggregates as reactive media to remove zinc from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2009 , 164, 235-46	12.8	25
141	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		25
140	Targeted removal of trichlorophenol in water by oleic acid-coated nanoscale palladium/zero-valent iron alginate beads. <i>Journal of Hazardous Materials</i> , 2015 , 293, 30-6	12.8	24
139	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	6	24
138	Shallow groundwater system monitoring on controlled CO ₂ release sites: a review on field experimental methods and efforts for CO ₂ leakage detection. <i>Geosciences Journal</i> , 2016 , 20, 569-583	1.4	23
137	Origin and evolution of two contrasting thermal groundwaters (CO ₂ -rich and alkaline) in the Jungwon area, South Korea: Hydrochemical and isotopic evidence. <i>Journal of Volcanology and Geothermal Research</i> , 2008 , 178, 777-786	2.8	23
136	Regional geologic setting and metallogenesis of central Inner Mongolia, China: guides for exploration of mesothermal gold deposits. <i>Ore Geology Reviews</i> , 1999 , 14, 129-146	3.2	23
135	Photocatalytic performance of V ₂ O ₅ /TiO ₂ materials prepared by chemical vapor condensation and impregnation method under visible-light. <i>Powder Technology</i> , 2014 , 258, 352-357	5.2	22
134	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	14.7	22

133	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	4.3	22
132	Impacts of CO2 leakage on plants and microorganisms: A review of results from CO2 release experiments and storage sites 2016 , 6, 319-338		22
131	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	8.4	22
130	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. <i>Journal of Geochemical Exploration</i> , 2017 , 183, 33-45	3.8	21
129	Characterizing the spatial distribution of CO2 leakage from the shallow CO2 release experiment in South Korea. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 72, 152-162	4.2	20
128	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	5.1	20
127	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	4.2	20
126	Enhanced low-temperature NH3-SCR activity of a V2O5/TiO2 composite prepared via chemical vapor condensation and impregnation method. <i>Materials Research Bulletin</i> , 2013 , 48, 4415-4418	5.1	19
125	Geochemical modeling of CO2-water-rock interactions for two different hydrochemical types of CO2-rich springs in Kangwon District, Korea. <i>Journal of Geochemical Exploration</i> , 2014 , 144, 49-62	3.8	19
124	Effect of Spa Spring Water on Cytokine Expression in Human Keratinocyte HaCaT Cells and on Differentiation of CD4(+) T Cells. <i>Annals of Dermatology</i> , 2012 , 24, 324-36	0.4	19
123	Fe and Mn levels regulated by agricultural activities in alluvial groundwaters underneath a flooded paddy field. <i>Applied Geochemistry</i> , 2008 , 23, 44-57	3.5	19
122	Buffering of sodium concentration by cation exchange in the groundwater system of a sandy aquifer. <i>Geochemical Journal</i> , 2005 , 39, 273-284	0.9	19
121	Evaluation of amine-functionalized acrylic ion exchange fiber for chromium(VI) removal using flow-through experiments modeling and real wastewater. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 66, 187-195	6.3	19
120	Controlled Release Test Facility to Develop Environmental Monitoring Techniques for Geologically Stored CO2 in Korea. <i>Energy Procedia</i> , 2017 , 114, 3040-3051	2.3	18
119	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. <i>Geoderma</i> , 2019 , 341, 26-38	6.7	18
118	Bacterial and fungal community composition across the soil depth profiles in a fallow field. <i>Journal of Ecology and Environment</i> , 2017 , 41,	2	18
117	Evaluation of factors affecting performance of a zeolitic rock barrier to remove zinc from water. <i>Journal of Hazardous Materials</i> , 2010 , 175, 224-34	12.8	18
116	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		18

115	Te- and Se-bearing epithermal Au-Ag mineralization, Prasolovskoye, Kunashir Island, Kuril island arc. <i>Economic Geology</i> , 1995 , 90, 105-117	4.3	18
114	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	6	17
113	CO ₂ leakage detection in the near-surface above natural CO ₂ -rich water aquifer using soil gas monitoring. <i>International Journal of Greenhouse Gas Control</i> , 2019 , 88, 261-271	4.2	17
112	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	1.4	17
111	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	4.3	17
110	A novel method of utilizing permeable reactive kiddle (PRK) for the remediation of acid mine drainage. <i>Journal of Hazardous Materials</i> , 2016 , 301, 332-41	12.8	16
109	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	4.3	16
108	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	4.3	16
107	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	5.5	15
106	Signature of oxygen and sulfur isotopes of sulfate in ground and surface water reflecting enhanced sulfide oxidation in mine areas. <i>Applied Geochemistry</i> , 2019 , 100, 143-151	3.5	15
105	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	5.7	14
104	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	3.3	14
103	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	6.7	14
102	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	3.5	13
101	Using stable isotopes and tritium to delineate groundwater flow systems and their relationship to streams in the Geum River basin, Korea. <i>Journal of Hydrology</i> , 2019 , 573, 267-280	6	12
100	Examination of surface phenomena of VO ₂ 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, 17900-7	3.6	12
99	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	6	12
98	Models and Experiments on Electrokinetic Removal of Pb(II) from Kaolinite Clay. <i>Separation Science and Technology</i> , 2005 , 39, 1927-1951	2.5	12

97	Temperature evaluation of the Bugok geothermal system, South Korea. <i>Geothermics</i> , 2006 , 35, 448-469	4.3	12
96	Mesothermal gold vein mineralization of the Samdong mine, Youngdong mining district, Republic of Korea. <i>Mineralium Deposita</i> , 1995 , 30, 384	4.8	12
95	Comparison of volatile organic compounds in stormwater and groundwater in Seoul metropolitan city, South Korea. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	11
94	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	4.2	11
93	Determination of longitudinal dispersivity in an unconfined sandy aquifer. <i>Hydrological Processes</i> , 2002 , 16, 1955-1964	3.3	11
92	Studies of Spatial Variabilities of Airborne Metals Across Four Different Land-Use Types. <i>Water, Air, and Soil Pollution</i> , 2002 , 138, 7-24	2.6	11
91	Geochemistry of a fossil hydrothermal system at Barton Peninsula, King George Island. <i>Antarctic Science</i> , 1995 , 7, 63-72	1.7	11
90	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	2.9	10
89	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, 2083-92	2.2	10
88	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	3.5	10
87	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	3.4	10
86	Genetic environment of germanium-bearing gold-silver vein ores from the Wolyu mine, Republic of Korea. <i>Mineralium Deposita</i> , 1993 , 28, 107	4.8	10
85	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	12.5	10
84	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	2.9	9
83	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	3.9	8
82	Potential CO intrusion in near-surface environments: a review of current research approaches to geochemical processes. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 2339-2364	4.7	8
81	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	3.8	8
80	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	2	8

79	Influence of Different Substrates in Wetland Soils on Denitrification. <i>Water, Air, and Soil Pollution</i> , 2011 , 215, 549-560	2.6	8
78	Contamination of groundwater by arsenic and other constituents in an industrial complex. <i>Environmental Earth Sciences</i> , 2010 , 60, 65-79	2.9	8
77	Compositional data analysis and geochemical modeling of CO-water-rock interactions in three provinces of Korea. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 357-380	4.7	8
76	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	4.2	7
75	Nutrient removal from hydroponic wastewater by a microbial consortium and a culture of <i>Paracercomonas saepenatans</i> . <i>New Biotechnology</i> , 2018 , 41, 15-24	6.4	7
74	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	2.4	7
73	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	4.3	7
72	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	6	6
71	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	3.7	6
70	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	3.9	6
69	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	5.2	6
68	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	2.9	6
67	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	2.9	6
66	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	3.4	6
65	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, 283-96	4.7	6
64	Mean transit time and subsurface flow paths in a humid temperate headwater catchment with granitic bedrock. <i>Journal of Hydrology</i> , 2020 , 587, 124942	6	6
63	Electrokinetic remediation of heavy metal-contaminated soils: performance comparison between one- and two-dimensional electrode configurations. <i>Journal of Soils and Sediments</i> , 2020 , 21, 2755	3.4	6
62	Application of conditional generative model for sonic log estimation considering measurement uncertainty. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 196, 108028	4.4	6

61	Monitoring the movement of artificially injected CO at a shallow experimental site in Korea using carbon isotopes. <i>Journal of Environmental Management</i> , 2020 , 258, 110030	7.9	5
60	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	4.2	5
59	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	5.5	5
58	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	3.9	5
57	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> , 2009 , 24, n/a-n/a	3.3	5
56	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		5
55	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	5.1	4
54	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	2.3	4
53	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	1.9	4
52	The use of ion exchange membranes for isotope analyses on soil water sulfate: laboratory experiments. <i>Journal of Environmental Quality</i> , 2008 , 37, 501-8	3.4	4
51	Logistic mixture of multivariate regressions for analysis of water quality impacted by agrochemicals. <i>Environmetrics</i> , 2007 , 18, 499-514	1.3	4
50	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	0.9	4
49	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	0.6	4
48	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	10.2	4
47	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	5	4
46	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	2.3	3
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44	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	3	3

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