

Dong-Chan Koh

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85
papers

1,477
citations

19
h-index

36
g-index

91
ext. papers

1,707
ext. citations

4
avg, IF

4.57
L-index

#	Paper	IF	Citations
85	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	6	233
84	Identification of nitrate and sulfate sources in groundwater using dual stable isotope approaches for an agricultural area with different land use (Chuncheon, mid-eastern Korea). <i>Agriculture, Ecosystems and Environment</i> , 2009 , 132, 223-231	5.7	105
83	Application of environmental tracers to mixing, evolution, and nitrate contamination of ground water in Jeju Island, Korea. <i>Journal of Hydrology</i> , 2006 , 327, 258-275	6	68
82	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	3.9	67
81	Use of time series analysis for the identification of tidal effect on groundwater in the coastal area of Kimje, Korea. <i>Journal of Hydrology</i> , 2005 , 300, 188-198	6	63
80	Evidence for terrigenous SF ₆ in groundwater from basaltic aquifers, Jeju Island, Korea: Implications for groundwater dating. <i>Journal of Hydrology</i> , 2007 , 339, 93-104	6	60
79	Effect of agricultural land use on the chemistry of groundwater from basaltic aquifers, Jeju Island, South Korea. <i>Hydrogeology Journal</i> , 2007 , 15, 727-743	3.1	52
78	Hydrologic Controls on Nitrogen Cycling Processes and Functional Gene Abundance in Sediments of a Groundwater Flow-Through Lake. <i>Environmental Science & Technology</i> , 2016 , 50, 3649-57	10.3	51
77	Hydrogeochemistry and environmental isotopes of ground water in Jeju volcanic island, Korea: implications for nitrate contamination. <i>Hydrological Processes</i> , 2005 , 19, 2225-2245	3.3	51
76	Baseline geochemical characteristics of groundwater in the mountainous area of Jeju Island, South Korea: Implications for degree of mineralization and nitrate contamination. <i>Journal of Hydrology</i> , 2009 , 376, 81-93	6	40
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	6	37
74	Molecular analysis of spatial variation of iron-reducing bacteria in riverine alluvial aquifers of the Mankyeong River. <i>Journal of Microbiology</i> , 2012 , 50, 207-17	3	34
73	Effects of groundwater residence time and recharge rate on nitrate contamination deduced from $\delta^{18}O$, D , $3H/3He$ and CFCs in a small agricultural area in Chuncheon, Korea. <i>Journal of Hydrology</i> , 2009 , 366, 101-111	6	32
72	Unmanned aerial vehicles (UAVs)-based thermal infrared (TIR) mapping, a novel approach to assess groundwater discharge into the coastal zone. <i>Limnology and Oceanography: Methods</i> , 2016 , 14, 725-735	2.6	31
71	Application of cluster analysis for the hydrogeochemical factors of saline groundwater in Kimje, Korea. <i>Geosciences Journal</i> , 2003 , 7, 313-322	1.4	30
70	Estimation of layered aquifer diffusivity and river resistance using flood wave response model. <i>Journal of Hydrology</i> , 2007 , 337, 284-293	6	28
69	Applications of Isotope Ratio Infrared Spectroscopy (IRIS) to Analysis of Stable Isotopic Compositions of Liquid Water. <i>Economic and Environmental Geology</i> , 2013 , 46, 495-508		27

68	Oxidation and reduction of redox-sensitive elements in the presence of humic substances in subsurface environments: A review. <i>Chemosphere</i> , 2019 , 220, 86-97	8.4	27
67	Temporal variability of nitrate concentration in groundwater affected by intensive agricultural activities in a rural area of Hongseong, South Korea. <i>Environmental Earth Sciences</i> , 2015 , 74, 6147-6161	2.9	20
66	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
65	Occurrence and mobility of major and trace elements in groundwater from pristine volcanic aquifers in Jeju Island, Korea. <i>Applied Geochemistry</i> , 2016 , 65, 87-102	3.5	18
64	Toxicity Evaluation of Individual and Mixtures of Nanoparticles Based on Algal Chlorophyll Content and Cell Count. <i>Materials</i> , 2018 , 11,	3.5	18
63	Periodic change in coastal microbial community structure associated with submarine groundwater discharge and tidal fluctuation. <i>Limnology and Oceanography</i> , 2017 , 62, 437-451	4.8	18
62	Comparison of groundwater age models for assessing nitrate loading, transport pathways, and management options in a complex aquifer system. <i>Hydrological Processes</i> , 2018 , 32, 923-938	3.3	17
61	Factors controlling groundwater chemistry in an agricultural area with complex topographic and land use patterns in mid-western South Korea. <i>Hydrological Processes</i> , 2009 , 23, 2915-2928	3.3	17
60	Stable Isotopes of Water and Nitrate for the Identification of Groundwater Flowpaths: A Review. <i>Water (Switzerland)</i> , 2020 , 12, 138	3	17
59	Submarine groundwater discharge revealed by aerial thermal infrared imagery: a case study on Jeju Island, Korea. <i>Hydrological Processes</i> , 2016 , 30, 3494-3506	3.3	16
58	Influence of pre-event water on streamflow in a granitic watershed using hydrograph separation. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	14
57	A seasonality of δD of water vapor (850-500 hPa) observed from space over Jeju Island, Korea. <i>Geosciences Journal</i> , 2013 , 17, 87-95	1.4	14
56	Estimation of river stage effect on groundwater level, discharge, and bank storage and its field application. <i>Geosciences Journal</i> , 2008 , 12, 191-204	1.4	13
55	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
54	The Hydrogeochemical Characteristics of Groundwater Subjected to Seawater Intrusion in the Archipelago, Korea. <i>Water (Switzerland)</i> , 2020 , 12, 1542	3	11
53	Characterization of thermally treated Co^{2+} -exchanged zeolite X. <i>Applied Catalysis B: Environmental</i> , 2012 , 127, 68-76	21.8	11
52	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
51	Hydrogeochemical characteristics of groundwater influenced by reclamation, seawater intrusion, and land use in the coastal area of Yeonggwang, Korea. <i>Geosciences Journal</i> , 2019 , 23, 603-619	1.4	10

50	Using ^{222}Rn as a naturally occurring tracer to estimate NAPL contamination in an aquifer. <i>Applied Radiation and Isotopes</i> , 2013 , 81, 233-7	1.7	10
49	Evaluation of the Effects of Nanoparticle Mixtures on Brassica Seed Germination and Bacterial Bioluminescence Activity Based on the Theory of Probability. <i>Nanomaterials</i> , 2017 , 7,	5.4	10
48	The geochemical implication of a variable Eu anomaly in a fractured gneiss core: application for understanding Am behavior in the geological environment. <i>Applied Geochemistry</i> , 2004 , 19, 1711-1725	3.5	10
47	Influences of Fractionation of Stable Isotopic Composition of Rain and Snowmelt on Isotopic Hydrograph Separation. <i>Journal of the Korean Earth Science Society</i> , 2014 , 35, 97-103	0.1	10
46	Evaluating the impacts of intense seasonal groundwater pumping on stream-aquifer interactions in agricultural riparian zones using a multi-parameter approach. <i>Journal of Hydrology</i> , 2020 , 584, 124683	6	9
45	Evaluating the responses of alluvial and bedrock aquifers to earthquakes (ML5.1 and ML5.8) using hydrological and environmental tracer data. <i>Hydrogeology Journal</i> , 2019 , 27, 2011-2025	3.1	8
44	Delineation of recharge patterns and contaminant transport using ^3H and ^4He in a shallow aquifer contaminated by chlorinated solvents in South Korea. <i>Hydrogeology Journal</i> , 2014 , 22, 1041-1054	3.1	8
43	The effect of ionic strength and hardness of trichloroethylene-contaminated synthetic groundwater on remediation using granular activated carbon. <i>Geosciences Journal</i> , 2007 , 11, 229-239	1.4	8
42	Evaluation of multiple regression models using spatial variables to predict nitrate concentrations in volcanic aquifers. <i>Hydrological Processes</i> , 2016 , 30, 663-675	3.3	8
41	Relationship of groundwater geochemistry and flow to volcanic stratigraphy in basaltic aquifers affected by magmatic CO_2 , Jeju Island, Korea. <i>Chemical Geology</i> , 2017 , 467, 143-158	4.2	7
40	Examination for Efficiency of Groundwater Artificial Recharge in Alluvial Aquifer Near Nakdong River of Changweon Area, Korea. <i>Economic and Environmental Geology</i> , 2014 , 47, 611-623		7
39	An open loop equilibrator for continuous monitoring of radon at the groundwater-surface water interface. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015 , 304, 33-39	1.5	6
38	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
37	Evaluation of the Effects of Particle Sizes of Silver Nanoparticles on Various Biological Systems. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6
36	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	3.8	5
35	Quantification of seasonally variable water flux between aquifer and stream in the riparian zones with water curtain cultivation activities using numerical simulation. <i>Journal of the Geological Society of Korea</i> , 2017 , 53, 277-290	0.6	5
34	Seasonal variation of ^7Be and ^3H in Korean ambient air and rain. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016 , 307, 1629-1633	1.5	4
33	Hydrogeologic and Paleo-Geographic Characteristics of Riverside Alluvium at an Artificial Recharge Site in Korea. <i>Water (Switzerland)</i> , 2018 , 10, 835	3	4

32	In-situ microbial colonization and its potential contribution on biofilm formation in subsurface sediments. <i>Journal of Applied Biological Chemistry</i> , 2019 , 62, 51-56	0.7	4
31	Characterization of Nitrate Contamination and Hydrogeochemistry of Groundwater in an Agricultural Area of Northeastern Hongseong. <i>Journal of Soil and Groundwater Environment</i> , 2013 , 18, 33-51		4
30	Old Water Contributions to a Granitic Watershed, Dorim-cheon, Seoul. <i>Journal of Soil and Groundwater Environment</i> , 2015 , 20, 34-40		4
29	Estimation of Stream Discharge using Antecedent Precipitation Index Models in a Small Mountainous Forested Catchment: Upper Reach of Yongsucheon Stream, Gyeryongsan Mountain. <i>Journal of Soil and Groundwater Environment</i> , 2016 , 21, 36-45		4
28	Comparative Effects of Particle Sizes of Cobalt Nanoparticles to Nine Biological Activities. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
27	Integrated assessment of major element geochemistry and geological setting of traditional natural mineral water sources in South Korea at the national scale. <i>Journal of Hydrology</i> , 2021 , 598, 126249	6	4
26	Combined effects of recharge and hydrogeochemical conditions on nitrate in groundwater of a highland agricultural basin based on multiple environmental tracers. <i>Agricultural Water Management</i> , 2020 , 240, 106327	5.9	3
25	A Comparative Study of Groundwater Vulnerability Assessment Methods: Application in Gumma, Korea. <i>Journal of Soil and Groundwater Environment</i> , 2013 , 18, 119-133		3
24	Prediction of Seasonal Nitrate Concentration in Springs on the Southern Slope of Jeju Island using Multiple Linear Regression of Geographic Spatial Data. <i>Economic and Environmental Geology</i> , 2011 , 44, 135-152		3
23	A Review on the Application of Stable Water Vapor Isotope Data to the Water Cycle Interpretation. <i>Journal of Soil and Groundwater Environment</i> , 2015 , 20, 34-40		3
22	Evaluation of Temporal Contribution of Groundwater to a Small Lake through Analyses of Water Quantity and Quality. <i>Water (Switzerland)</i> , 2020 , 12, 2879	3	2
21	Assessing aquifer responses to earthquakes using temporal variations in groundwater monitoring data in alluvial and sedimentary bedrock aquifers. <i>Geomatics, Natural Hazards and Risk</i> , 2020 , 11, 742-765	3.6	2
20	Geochemical Implication of Chemical Composition of Mineral Water (Bottled Water) Produced Near Mt. Baekdu (Changbai), Northeast China. <i>Water (Switzerland)</i> , 2021 , 13, 2191	3	2
19	Quantitative estimation of submarine groundwater discharge using airborne thermal infrared data acquired at two different tidal heights. <i>Hydrological Processes</i> , 2019 , 33, 1089-1100	3.3	1
18	Measuring cosmogenic ³⁵ S in natural waters using large-volume liquid scintillation counting. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019 , 322, 1739-1745	1.5	1
17	Geomagnetic field intensity determination from Pleistocene trachytic lava flows in Jeju Geopark. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 516-529	3.6	1
16	Product-Service Systems Representation With Product and Service Elements and a Case Study 2011 ,		1
15	A review on the effects of changes of land cover and land use on groundwater-level variations. <i>Journal of the Geological Society of Korea</i> , 2020 , 56, 387-394	0.6	1

14	A High-resolution Study of Isotopic Compositions of Precipitation. <i>Economic and Environmental Geology</i> , 2015 , 48, 371-377		1
13	Determination of recharge fraction of injection water in combined abstraction-injection wells using continuous radon monitoring. <i>Journal of Environmental Radioactivity</i> , 2016 , 165, 140-143	2.4	1
12	Identifying and quantifying groundwater inflow to a stream using ²²⁰ Rn and ²²² Rn as natural tracers. <i>Journal of Hydrology: Regional Studies</i> , 2021 , 33, 100773	3.6	1
11	A Pulse of Meteoric Subsurface Fluid Discharging Into the Chukchi Sea During the Early Holocene Thermal Maximum (EHTM). <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2021GC009750	3.6	1
10	In situ supplies of radiogenic He in residual soils of shallow granite aquifers: Spatial distribution of dissolved He throughout the Korean Peninsula. <i>Applied Geochemistry</i> , 2022 , 138, 105233	3.5	0
9	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> , 2021 , 812, 151428	10.2	0
8	Nutrient dynamics in stream water and groundwater in riparian zones of a mesoscale agricultural catchment with intense seasonal pumping. <i>Agricultural Water Management</i> , 2021 , 261, 107336	5.9	0
7	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	3.6	0
6	Recharge and spatial distribution of groundwater hydrochemistry in the Geum River basin, South Korea. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021 , 330, 397	1.5	0
5	Conceptualizing a multi-layered shingle aquifer model based on volcanic stratigraphy and water inflow to lava caves in Jeju Island, Korea. <i>Hydrological Processes</i> , 2021 , 35, e14316	3.3	0
4	Evaluating Effects of Membrane Filter Pore Sizes on Determination of Dissolved Concentrations of Major Elements in Groundwater and Surface Water Near Nakdong River. <i>Journal of Soil and Groundwater Environment</i> , 2015 , 20, 31-40		
3	Hydrogeologic and Hydrogeochemical Assessment of Water Sources in Gwanin Water Intake Plant, Pocheon. <i>Journal of Environmental Impact Assessment</i> , 2016 , 25, 209-221		
2	Investigation on the petroleum contamination by using Rn-222 tracer. <i>Analytical Science and Technology</i> , 2012 , 25, 14-18		
1	Statistical analysis relating variations in groundwater level to droughts on Jeju Island, Korea. <i>Journal of Hydrology: Regional Studies</i> , 2021 , 36, 100879	3.6	