

Byoung-Young choi

List of Publications by Year in descending order

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37
papers

931
citations

516561

16
h-index

454834

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g-index

37
all docs

37
docs citations

37
times ranked

901
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of CO ₂ on biogeochemical reactions and microbial community composition in bioreactors with deep groundwater and basalt. <i>Science of the Total Environment</i> , 2022, 807, 150803.	3.9	4
2	Feasibility study of enzyme-induced calcium carbonate precipitation (EICP) for CO ₂ leakage prevention. <i>Geosciences Journal</i> , 2022, 26, 279-288.	0.6	2
3	Porosity changes due to analcime in a basaltic tuff from the Janggi Basin, Korea: experimental and geochemical modeling study of CO ₂ -water-rock interactions. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	1.3	7
4	Recent pollution and source identification of metal(loid)s in a sediment core from Gunsan Reservoir, South Korea. <i>Journal of Hazardous Materials</i> , 2021, 416, 126204.	6.5	15
5	Role of intercalated water in calcium hydroxide interlayers for carbonation reaction. <i>Chemical Engineering Journal</i> , 2021, 420, 130422.	6.6	8
6	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
7	Thermodynamic Control of Amorphous Precursor Phases for Calcium Carbonate via Additive Ions. <i>Chemistry of Materials</i> , 2019, 31, 7547-7557.	3.2	10
8	Potential impact of leaking CO ₂ gas and CO ₂ -rich fluids on shallow groundwater quality in the Chungcheong region (South Korea): A hydrogeochemical approach. <i>International Journal of Greenhouse Gas Control</i> , 2019, 84, 13-28.	2.3	12
9	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
10	Impact of SO ₂ on Alteration of Reservoir Rock with Ca-Deficient Conditions and Poor Buffering Capacity under a CO ₂ Geologic Storage Condition. <i>Geofluids</i> , 2018, 2018, 1-13.	0.3	2
11	Simulation of CO ₂ injection in a small-scale pilot site in the Pohang Basin, Korea: Effect of dissolution rate of chlorite on mineral trapping. <i>International Journal of Greenhouse Gas Control</i> , 2017, 59, 1-12.	2.3	19
12	Assessing CO ₂ Storage Capacity of a Steeply Dipping, Fault Bounded Aquifer and Effect of Impurity in CO ₂ Stream. <i>Energy Procedia</i> , 2017, 114, 4735-4740.	1.8	4
13	Geochemical Influence on Microbial Communities at CO ₂ -Leakage Analog Sites. <i>Frontiers in Microbiology</i> , 2017, 8, 2203.	1.5	17
14	Alteration processes of cement induced by CO ₂ -saturated water and its effect on physical properties: Experimental and geochemical modeling study. <i>Chemie Der Erde</i> , 2016, 76, 597-604.	0.8	5
15	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
16	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
17	Assessment of mobility and bio-availability of heavy metals in dry depositions of Asian dust and implications for environmental risk. <i>Chemosphere</i> , 2015, 119, 1411-1421.	4.2	67
18	Geochemical modeling of CO ₂ -water-rock interactions for two different hydrochemical types of CO ₂ -rich springs in Kangwon District, Korea. <i>Journal of Geochemical Exploration</i> , 2014, 144, 49-62.	1.5	25

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19	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
20	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
21	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
22	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
23	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
24	Status and Implications of Regulatory Frameworks for Environmental Management of Geologic CO ₂ Storage in USA and EU. <i>Journal of Soil and Groundwater Environment</i> , 2012, 17, 9-22.	0.1	1
25	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
26	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
27	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
28	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
29	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
30	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
31	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
32	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.	0.8	25
33	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
34	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
35	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
36	Hydrogeochemistry of alluvial groundwaters in an agricultural area: an implication for groundwater contamination susceptibility. <i>Chemosphere</i> , 2004, 55, 369-378.	4.2	120

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37	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.	4.8	27