

# Hangseok Choi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3372832/publications.pdf>

Version: 2024-02-01

81  
papers

1,861  
citations

304743

22  
h-index

289244

40  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1352  
citing authors

#	ARTICLE	IF	CITATIONS
1	Risk analysis using fault-tree analysis (FTA) and analytic hierarchy process (AHP) applicable to shield TBM tunnels. <i>Tunnelling and Underground Space Technology</i> , 2015, 49, 121-129.	6.2	170
2	Drained Shear Strength Parameters for Analysis of Landslides. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2005, 131, 575-588.	3.0	165
3	Slope inclinometers for landslides. <i>Landslides</i> , 2008, 5, 339-350.	5.4	97
4	Characteristics of thermally-enhanced bentonite grouts for geothermal heat exchanger in South Korea. <i>Science China Technological Sciences</i> , 2010, 53, 123-128.	4.0	81
5	Evaluation of thermal performance of energy textile installed in Tunnel. <i>Renewable Energy</i> , 2012, 42, 11-22.	8.9	76
6	Groutability of cement-based grout with consideration of viscosity and filtration phenomenon. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2009, 33, 1771-1797.	3.3	73
7	Constructability and heat exchange efficiency of large diameter cast-in-place energy piles with various configurations of heat exchange pipe. <i>Applied Thermal Engineering</i> , 2015, 90, 1061-1071.	6.0	70
8	Relative constructability and thermal performance of cast-in-place concrete energy pile: Coil-type GHEX (ground heat exchanger). <i>Energy</i> , 2015, 81, 56-66.	8.8	68
9	Ensemble learning-based classification models for slope stability analysis. <i>Catena</i> , 2021, 196, 104886.	5.0	56
10	Comparison of effective thermal conductivity in closed-loop vertical ground heat exchangers. <i>Applied Thermal Engineering</i> , 2011, 31, 3669-3676.	6.0	50
11	Experimental and numerical analysis on thermal performance of large-diameter cast-in-place energy pile constructed in soft ground. <i>Energy</i> , 2017, 118, 297-311.	8.8	48
12	Performance evaluation of closed-loop vertical ground heat exchangers by conducting in-situ thermal response tests. <i>Renewable Energy</i> , 2012, 42, 77-83.	8.9	46
13	Pullout Resistance Increase of Soil Nailing Induced by Pressurized Grouting. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012, 138, 604-613.	3.0	45
14	Development of energy textile to use geothermal energy in tunnels. <i>Tunnelling and Underground Space Technology</i> , 2016, 59, 105-113.	6.2	43
15	Settlement of Dredged and Contaminated Material Placement Areas. II: Primary Consolidation, Secondary Compression, and Desiccation of Dredged Fill Input Parameters. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2005, 131, 52-61.	1.2	35
16	A numerical framework for infinite slope stability analysis under transient unsaturated seepage conditions. <i>Engineering Geology</i> , 2018, 243, 36-49.	6.3	34
17	Engineering chart for thermal performance of cast-in-place energy pile considering thermal resistance. <i>Applied Thermal Engineering</i> , 2018, 130, 899-921.	6.0	30
18	Predicting anomalous zone ahead of tunnel face utilizing electrical resistivity: I. Algorithm and measuring system development. <i>Tunnelling and Underground Space Technology</i> , 2016, 60, 141-150.	6.2	28

#	ARTICLE	IF	CITATIONS
19	Thermo-mechanical behavior of cast-in-place energy piles. <i>Energy</i> , 2018, 161, 920-938.	8.8	28
20	Applicability of cement-based grout for ground heat exchanger considering heating-cooling cycles. <i>Science China Technological Sciences</i> , 2011, 54, 1661-1667.	4.0	27
21	Physical properties of G-class cement for geothermal well cementing in South Korea. <i>Renewable Energy</i> , 2015, 80, 123-131.	8.9	25
22	Effect of thermal interference on energy piles considering various configurations of heat exchangers. <i>Energy and Buildings</i> , 2019, 199, 381-401.	6.7	25
23	Analysis of neural network based pedotransfer function for predicting soil water characteristic curve. <i>Geoderma</i> , 2019, 351, 92-102.	5.1	23
24	Settlement of Dredged and Contaminated Material Placement Areas. I: Theory and Use of Primary Consolidation, Secondary Compression, and Desiccation of Dredged Fill. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2005, 131, 43-51.	1.2	22
25	Field experiment on heat exchange performance of various coaxial-type ground heat exchangers considering construction conditions. <i>Renewable Energy</i> , 2019, 144, 84-96.	8.9	21
26	Viscosity and salinity effect on thermal performance of bentonite-based grouts for ground heat exchanger. <i>Applied Clay Science</i> , 2014, 101, 455-460.	5.2	20
27	Slug Test Analysis in Vertical Cutoff Walls. I: Analysis Methods. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2006, 132, 429-438.	3.0	18
28	Predicting anomalous zone ahead of tunnel face utilizing electrical resistivity: II. Field tests. <i>Tunnelling and Underground Space Technology</i> , 2017, 68, 1-10.	6.2	18
29	Slug Test Analysis in Vertical Cutoff Walls. II: Applications. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2006, 132, 439-447.	3.0	17
30	Effect of foam conditioning on performance of EPB shield tunnelling through laboratory excavation test. <i>Transportation Geotechnics</i> , 2022, 32, 100692.	4.5	17
31	Influence of coil pitch on thermal performance of coil-type cast-in-place energy piles. <i>Energy and Buildings</i> , 2016, 129, 344-356.	6.7	16
32	Dual performance of novel steel pipe heat exchangers equipped in cast-in-place energy pile. <i>Energy and Buildings</i> , 2021, 234, 110725.	6.7	15
33	Compacted Soil Liner Interface Strength Importance. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012, 138, 544-550.	3.0	14
34	Hydraulic Characteristics of Bentonite Cake Fabricated on Cutoff Walls. <i>Clays and Clay Minerals</i> , 2012, 60, 40-51.	1.3	14
35	Effect of Borehole Material on Analytical Solutions of the Heat Transfer Model of Ground Heat Exchangers Considering Groundwater Flow. <i>Energies</i> , 2016, 9, 318.	3.1	14
36	Numerical Simulation of EPB Shield Tunnelling with TBM Operational Condition Control Using Coupled DEM-FDM. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2551.	2.5	14

#	ARTICLE	IF	CITATIONS
37	Slug Test Analysis to Evaluate Permeability of Compressible Materials. <i>Ground Water</i> , 2008, 46, 647-652.	1.3	13
38	Measurement of hydraulic properties of bentonite cake formation deposited on base soil medium. <i>Applied Clay Science</i> , 2016, 123, 187-201.	5.2	13
39	Kaolinite and illite colloid transport in saturated porous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 626, 127052.	4.7	13
40	Numerical Model for Analyzing Slug Tests in Vertical Cutoff Walls. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2007, 133, 1249-1258.	3.0	12
41	Hydraulic-Mechanical Properties of Unsaturated Granite-Weathered Residual Soil in Korea. <i>Vadose Zone Journal</i> , 2019, 18, 1-13.	2.2	12
42	A Causal Network-Based Risk Matrix Model Applicable to Shield TBM Tunneling Projects. <i>Sustainability</i> , 2021, 13, 4846.	3.2	12
43	Slug Test Analysis in Vertical Cutoff Walls with Consideration of Filter Cake. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011, 137, 785-797.	3.0	11
44	Influence of hydraulic characteristics on stability of unsaturated slope under transient seepage conditions. <i>Landslides</i> , 2018, 15, 1787-1799.	5.4	11
45	Numerical simulation for thermal response test performance in closed-loop vertical ground heat exchanger. <i>Science China Technological Sciences</i> , 2011, 54, 1668-1673.	4.0	10
46	Application of recycled aggregate porous concrete pile (RAPP) to improve soft ground. <i>Journal of Material Cycles and Waste Management</i> , 2012, 14, 360-370.	3.0	10
47	Evaluation of effective thermal conductivity of unsaturated granular materials using random network model. <i>Geothermics</i> , 2017, 67, 76-85.	3.4	10
48	Impact of Particle Size Distribution of Colloidal Particles on Contaminant Transport in Porous Media. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 932.	2.5	10
49	Applicability evaluation of cast-in-place energy piles based on two-year heating and cooling operation. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 143, 110906.	16.4	10
50	Field Experiments to Evaluate Thermal Performance of Energy Slabs with Different Installation Conditions. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2214.	2.5	9
51	Modification of the Bouwer and Rice Method to a Cutoff Wall with a Filter Cake. <i>Ground Water</i> , 2010, 48, 898-902.	1.3	8
52	Parametric study on cutoff performance of soil-bentonite slurry wall: Consideration of construction defects and bentonite cake. <i>KSCE Journal of Civil Engineering</i> , 2015, 19, 1681-1692.	1.9	8
53	Numerical Investigation on the Effect of Cementing Properties on the Thermal and Mechanical Stability of Geothermal Wells. <i>Energies</i> , 2016, 9, 1016.	3.1	8
54	Risky Ground Prediction ahead of Mechanized Tunnel Face using Electrical Methods: Laboratory Tests. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 3663-3675.	1.9	8

#	ARTICLE	IF	CITATIONS
55	Numerical characterization of heat transfer in closed-loop vertical ground heat exchanger. <i>Science China Technological Sciences</i> , 2010, 53, 111-116.	4.0	7
56	Numerical modeling of diffusion for volatile organic compounds through composite landfill liner systems. <i>KSCE Journal of Civil Engineering</i> , 2011, 15, 1033-1039.	1.9	7
57	Test Construction of Cast-in-Place Concrete Energy Pile in Dredged and Reclaimed Ground. <i>Journal of Performance of Constructed Facilities</i> , 2015, 29, .	2.0	7
58	Consideration of radial flow in nonlinear finite-strain self-weight consolidation of dredged soil. <i>Ocean Engineering</i> , 2020, 197, 106889.	4.3	7
59	Influential factors on thermal performance of energy slabs equipped with an insulation layer. <i>Renewable Energy</i> , 2021, 174, 823-834.	8.9	7
60	Optimum operation of open-loop ground heat exchanger considering subsurface temperature gradient. <i>International Journal of Energy Research</i> , 2016, 40, 651-661.	4.5	6
61	Performance evaluation of coaxial-type GHEX in GSHP system installed in Korean residential building. <i>Energy and Buildings</i> , 2021, 235, 110734.	6.7	6
62	Thermal performance of novel cast-in-place energy piles equipped with multipurpose steel pipe heat exchangers (SPHXs). <i>Geothermics</i> , 2022, 102, 102389.	3.4	6
63	Nonlinear Finite-Strain Self-Weight Consolidation of Dredged Material with Radial Drainage Using Carrillo's Formula. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2016, 142, 06016002.	1.2	5
64	Evaluation of Ground Thermal Conductivity by Performing In-Situ Thermal Response test (TRT) and CFD Back-Analysis. <i>Journal of the Korean Geotechnical Society</i> , 2012, 28, 5-15.	0.1	5
65	Analytical Interpretation of Slug Test in a Vertical Cutoff Wall. <i>Ground Water</i> , 2014, 52, 284-290.	1.3	4
66	Effect of Biot's coefficient and fluid properties on isothermal H-M coupled consolidation analysis of porous media. <i>KSCE Journal of Civil Engineering</i> , 2016, 20, 2355-2364.	1.9	4
67	Experimental study on performance of sand filter layer to remove non-point source pollutants in rainwater. <i>Water Science and Technology: Water Supply</i> , 2017, 17, 1748-1763.	2.1	4
68	Influence of In-situ Cryogenic Freezing on Thermal and Mechanical Characteristics of Korean Marine Clay. <i>KSCE Journal of Civil Engineering</i> , 2020, 24, 3501-3515.	1.9	4
69	Comparison of performance of single- and double-core prefabricated vertical drains for thick reclaimed ground improvement. <i>Marine Georesources and Geotechnology</i> , 2022, 40, 404-414.	2.1	4
70	Effect of Real Bentonite Cake on Slug Test Analysis for Slurry Trench Wall. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 1176-1190.	3.0	3
71	Analytical solution for transient groundwater flow during slug test in vertical cutoff walls. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2014, 38, 1855-1870.	3.3	3
72	Bayesian Neural Network for Estimating Stress-Strain Behaviors of Frozen Sand. <i>KSCE Journal of Civil Engineering</i> , 2022, 26, 933-941.	1.9	3

#	ARTICLE	IF	CITATIONS
73	Development of Expanded Steel Pipe Pile to Enhance Bearing Capacity. Sustainability, 2022, 14, 3077.	3.2	3
74	Suffusion of sand-clay mixture by three-staged change of ionic strength. Canadian Geotechnical Journal, 2022, 59, 2008-2013.	2.8	3
75	Case Studies of PSDDF for Phased Placement of Dredged Soils. Marine Georesources and Geotechnology, 2013, 31, 348-359.	2.1	2
76	Stepwise DE/FE combined approach for estimating effective thermal conductivity of frozen spherical particulate media. Computers and Geotechnics, 2020, 128, 103837.	4.7	2
77	Dual tree-boosting framework for estimating warning levels of rainfall-induced landslides. Landslides, 2022, 19, 2249-2262.	5.4	2
78	Application of block-centered finite difference formulation for non-linear finite strain consolidation. KSCE Journal of Civil Engineering, 2014, 18, 1991-1995.	1.9	1
79	Evaluation of Korean recycled aggregates as backfilling underground power system considering particle breakage effect. Journal of Material Cycles and Waste Management, 2021, 23, 1665-1677.	3.0	1
80	Study on Increase in Stability of Floating and Underground Extension Method through Slab Pre-Construction. Sustainability, 2021, 13, 13696.	3.2	1
81	A Prediction Model for Removal of Non-point Source Pollutant Considering Clogging Effect of Sand Filter Layers for Rainwater Recycling. Journal of the Korean Geotechnical Society, 2014, 30, 23-39.	0.1	0