

In-Mo Lee

List of Publications by Year in descending order

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45
papers

1,262
citations

394286

19
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377752

34
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46
all docs

46
docs citations

46
times ranked

995
citing authors

#	ARTICLE	IF	CITATIONS
1	Application Ranges of EPB Shield TBM in Weathered Granite Soil: A Laboratory Scale Study. Applied Sciences (Switzerland), 2021, 11, 2995.	1.3	5
2	A Causal Network-Based Risk Matrix Model Applicable to Shield TBM Tunneling Projects. Sustainability, 2021, 13, 4846.	1.6	12
3	Mechanical Behavior of Hybrid Soil Nail-Anchor System. KSCE Journal of Civil Engineering, 2019, 23, 4201-4211.	0.9	10
4	Bayesian Networks-based Shield TBM Risk Management System: Methodology Development and Application. KSCE Journal of Civil Engineering, 2019, 23, 452-465.	0.9	24
5	An ANN to Predict Ground Condition ahead of Tunnel Face using TBM Operational Data. KSCE Journal of Civil Engineering, 2019, 23, 3200-3206.	0.9	50
6	Slurry Clogging Criteria for Slurry Shield Tunneling in Highly Permeable Ground. KSCE Journal of Civil Engineering, 2019, 23, 2784-2793.	0.9	20
7	Hydraulic-Mechanical Properties of Unsaturated Granite-Weathered Residual Soil in Korea. Vadose Zone Journal, 2019, 18, 1-13.	1.3	12
8	Soil Conditioning of Weathered Granite Soil used for EPB Shield TBM: A Laboratory Scale Study. KSCE Journal of Civil Engineering, 2019, 23, 1829-1838.	0.9	32
9	Risky Ground Prediction ahead of Mechanized Tunnel Face using Electrical Methods: Laboratory Tests. KSCE Journal of Civil Engineering, 2018, 22, 3663-3675.	0.9	8
10	Influence of hydraulic characteristics on stability of unsaturated slope under transient seepage conditions. Landslides, 2018, 15, 1787-1799.	2.7	11
11	Cement-based fracture grouting phenomenon of weathered granite soil. KSCE Journal of Civil Engineering, 2017, 21, 232-242.	0.9	16
12	Role of induced electrical polarization to identify soft ground/fractured rock conditions. Journal of Applied Geophysics, 2017, 137, 63-72.	0.9	11
13	Predicting anomalous zone ahead of tunnel face utilizing electrical resistivity: II. Field tests. Tunnelling and Underground Space Technology, 2017, 68, 1-10.	3.0	18
14	Net load-displacement estimation in soil-nail pullout tests. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2017, 170, 534-547.	0.9	9
15	Numerical and experimental investigation of pillar reinforcement with pressurized grouting and pre-stress. Tunnelling and Underground Space Technology, 2016, 54, 135-144.	3.0	33
16	Predicting anomalous zone ahead of tunnel face utilizing electrical resistivity: I. Algorithm and measuring system development. Tunnelling and Underground Space Technology, 2016, 60, 141-150.	3.0	28
17	Overall risk analysis of shield TBM tunnelling using Bayesian Networks (BN) and Analytic Hierarchy Process (AHP). Journal of Korean Tunnelling and Underground Space Association, 2016, 18, 453-467.	0.0	3
18	Risk analysis using fault-tree analysis (FTA) and analytic hierarchy process (AHP) applicable to shield TBM tunnels. Tunnelling and Underground Space Technology, 2015, 49, 121-129.	3.0	170

#	ARTICLE	IF	CITATIONS
19	Evaluation of Compressive Strength and Stiffness of Grouted Soils by Using Elastic Waves. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	4
20	Numerical simulation of seepage-induced behavior of tunnel for analyzing deformation characteristic and estimating geotechnical parameters. KSCE Journal of Civil Engineering, 2014, 18, 659-671.	0.9	4
21	Optimization of soil nailing design considering three failure modes. KSCE Journal of Civil Engineering, 2014, 18, 488-496.	0.9	18
22	New approach to quantifying rock joint roughness based on roughness mobilization characteristics. KSCE Journal of Civil Engineering, 2014, 18, 984-991.	0.9	20
23	Pillar-reinforcement technology beneath existing structures: Small-scale model tests. KSCE Journal of Civil Engineering, 2014, 18, 819-826.	0.9	8
24	Phase velocity evaluation of two-layered gypsums by using wavelet transform. KSCE Journal of Civil Engineering, 2013, 17, 357-363.	0.9	1
25	Use of fuzzy probability theory to assess spalling occurrence in underground openings. International Journal of Rock Mechanics and Minings Sciences, 2013, 64, 60-67.	2.6	3
26	Nongrouted Ratio Evaluation of Rock Bolts by Reflection of Guided Ultrasonic Waves. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 298-307.	1.5	33
27	Pullout Resistance Increase of Soil Nailing Induced by Pressurized Grouting. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 604-613.	1.5	45
28	Tunnel Reinforcement by Using Pressure-Induced Inflatable Pipes Method. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 1483-1491.	1.5	9
29	Evaluation of rock bolt integrity using Fourier and wavelet transforms. Tunnelling and Underground Space Technology, 2012, 28, 304-314.	3.0	37
30	Brittle Rock Property and Damage Index Assessment for Predicting Brittle Failure in Excavations. Rock Mechanics and Rock Engineering, 2012, 45, 251-257.	2.6	22
31	Interaction between tunnel supports and ground convergence—Consideration of seepage forces. International Journal of Rock Mechanics and Minings Sciences, 2011, 48, 394-405.	2.6	44
32	Elasto-plastic seepage-induced stresses due to tunneling. International Journal for Numerical and Analytical Methods in Geomechanics, 2010, 35, n/a-n/a.	1.7	4
33	The ground reaction curve of underwater tunnels considering seepage forces. Tunnelling and Underground Space Technology, 2010, 25, 315-324.	3.0	48
34	Groutability of cement-based grout with consideration of viscosity and filtration phenomenon. International Journal for Numerical and Analytical Methods in Geomechanics, 2009, 33, 1771-1797.	1.7	73
35	Discontinuity detection ahead of a tunnel face utilizing ultrasonic reflection: Laboratory scale application. Tunnelling and Underground Space Technology, 2009, 24, 155-163.	3.0	14
36	Underestimation of roughness in rough rock joints. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 1385-1403.	1.7	60

#	ARTICLE	IF	CITATIONS
37	The Ground Reaction Curve Due to Tunnelling under Drainage Condition. , 2008, , .		0
38	DETECTION OF ANOMALIES IN PARTICULATE MATERIALS USING ELECTRICAL RESISTIVITY SURVEY-ENHANCED ALGORITHM. Modern Physics Letters B, 2008, 22, 1093-1098.	1.0	10
39	The influence of seepage forces on ground reaction curve of circular opening. Tunnelling and Underground Space Technology, 2007, 22, 28-38.	3.0	66
40	Geotechnical parameter estimation in tunnelling using relative convergence measurement. International Journal for Numerical and Analytical Methods in Geomechanics, 2006, 30, 137-155.	1.7	5
41	Effect of tunnel advance rate on seepage forces acting on the underwater tunnel face. Tunnelling and Underground Space Technology, 2004, 19, 273-281.	3.0	44
42	Effect of seepage force on tunnel face stability reinforced with multi-step pipe grouting. Tunnelling and Underground Space Technology, 2004, 19, 551-565.	3.0	63
43	A simulation using a hybrid method for predicting fault zones ahead of a tunnel face. International Journal for Numerical and Analytical Methods in Geomechanics, 2003, 27, 147-158.	1.7	4
44	Evaporation Theory for Deformable Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2003, 129, 1020-1027.	1.5	8
45	The study of seepage forces acting on the tunnel lining and tunnel face in shallow tunnels. Tunnelling and Underground Space Technology, 2001, 16, 31-40.	3.0	141