

In-Mo Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5485805/publications.pdf>

Version: 2024-02-01

45
papers

1,262
citations

394286

19
h-index

377752

34
g-index

46
all docs

46
docs citations

46
times ranked

995
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.	3.0	170
2	The study of seepage forces acting on the tunnel lining and tunnel face in shallow tunnels. <i>Tunnelling and Underground Space Technology</i> , 2001, 16, 31-40.	3.0	141
3	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.	1.7	73
4	The influence of seepage forces on ground reaction curve of circular opening. <i>Tunnelling and Underground Space Technology</i> , 2007, 22, 28-38.	3.0	66
5	Effect of seepage force on tunnel face stability reinforced with multi-step pipe grouting. <i>Tunnelling and Underground Space Technology</i> , 2004, 19, 551-565.	3.0	63
6	Underestimation of roughness in rough rock joints. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2008, 32, 1385-1403.	1.7	60
7	An ANN to Predict Ground Condition ahead of Tunnel Face using TBM Operational Data. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 3200-3206.	0.9	50
8	The ground reaction curve of underwater tunnels considering seepage forces. <i>Tunnelling and Underground Space Technology</i> , 2010, 25, 315-324.	3.0	48
9	Pullout Resistance Increase of Soil Nailing Induced by Pressurized Grouting. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012, 138, 604-613.	1.5	45
10	Effect of tunnel advance rate on seepage forces acting on the underwater tunnel face. <i>Tunnelling and Underground Space Technology</i> , 2004, 19, 273-281.	3.0	44
11	Interaction between tunnel supports and ground convergence—Consideration of seepage forces. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2011, 48, 394-405.	2.6	44
12	Evaluation of rock bolt integrity using Fourier and wavelet transforms. <i>Tunnelling and Underground Space Technology</i> , 2012, 28, 304-314.	3.0	37
13	Nongrouted Ratio Evaluation of Rock Bolts by Reflection of Guided Ultrasonic Waves. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 298-307.	1.5	33
14	Numerical and experimental investigation of pillar reinforcement with pressurized grouting and pre-stress. <i>Tunnelling and Underground Space Technology</i> , 2016, 54, 135-144.	3.0	33
15	Soil Conditioning of Weathered Granite Soil used for EPB Shield TBM: A Laboratory Scale Study. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 1829-1838.	0.9	32
16	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.	3.0	28
17	Bayesian Networks-based Shield TBM Risk Management System: Methodology Development and Application. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 452-465.	0.9	24
18	Brittle Rock Property and Damage Index Assessment for Predicting Brittle Failure in Excavations. <i>Rock Mechanics and Rock Engineering</i> , 2012, 45, 251-257.	2.6	22

#	ARTICLE	IF	CITATIONS
19	New approach to quantifying rock joint roughness based on roughness mobilization characteristics. KSCE Journal of Civil Engineering, 2014, 18, 984-991.	0.9	20
20	Slurry Clogging Criteria for Slurry Shield Tunnelling in Highly Permeable Ground. KSCE Journal of Civil Engineering, 2019, 23, 2784-2793.	0.9	20
21	Optimization of soil nailing design considering three failure modes. KSCE Journal of Civil Engineering, 2014, 18, 488-496.	0.9	18
22	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
23	Cement-based fracture grouting phenomenon of weathered granite soil. KSCE Journal of Civil Engineering, 2017, 21, 232-242.	0.9	16
24	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
25	Hydraulic-Mechanical Properties of Unsaturated Granite-Weathered Residual Soil in Korea. Vadose Zone Journal, 2019, 18, 1-13.	1.3	12
26	A Causal Network-Based Risk Matrix Model Applicable to Shield TBM Tunneling Projects. Sustainability, 2021, 13, 4846.	1.6	12
27	Role of induced electrical polarization to identify soft ground/fractured rock conditions. Journal of Applied Geophysics, 2017, 137, 63-72.	0.9	11
28	Influence of hydraulic characteristics on stability of unsaturated slope under transient seepage conditions. Landslides, 2018, 15, 1787-1799.	2.7	11
29	DETECTION OF ANOMALIES IN PARTICULATE MATERIALS USING ELECTRICAL RESISTIVITY SURVEY-ENHANCED ALGORITHM. Modern Physics Letters B, 2008, 22, 1093-1098.	1.0	10
30	Mechanical Behavior of Hybrid Soil Nail-Anchor System. KSCE Journal of Civil Engineering, 2019, 23, 4201-4211.	0.9	10
31	Tunnel Reinforcement by Using Pressure-Induced Inflatable Pipes Method. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 1483-1491.	1.5	9
32	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
33	Evaporation Theory for Deformable Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2003, 129, 1020-1027.	1.5	8
34	Pillar-reinforcement technology beneath existing structures: Small-scale model tests. KSCE Journal of Civil Engineering, 2014, 18, 819-826.	0.9	8
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Application Ranges of EPB Shield TBM in Weathered Granite Soil: A Laboratory Scale Study. Applied Sciences (Switzerland), 2021, 11, 2995.	1.3	5
38	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
39	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
40	Evaluation of Compressive Strength and Stiffness of Grouted Soils by Using Elastic Waves. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	4
41	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
42	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
43	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
44	Phase velocity evaluation of two-layered gypsums by using wavelet transform. KSCE Journal of Civil Engineering, 2013, 17, 357-363.	0.9	1
45	The Ground Reaction Curve Due to Tunnelling under Drainage Condition. , 2008, , .		0