Li Li

List of Publications by Year
in descending order

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73	1,737	236612	315357
papers	citations	25 h-index	38 g-index

75	75	75	588
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A general relationship between porosity and uniaxial strength of engineering materials. Canadian Journal of Civil Engineering, 2003, 30, 644-658.	0.7	109
2	Formulation of a three dimensional analytical solution to evaluate stresses in backfilled vertical narrow openings. Canadian Geotechnical Journal, 2005, 42, 1705-1717.	1.4	102
3	Numerical Investigation of the Stress State in Inclined Backfilled Stopes. International Journal of Geomechanics, 2009, 9, 52-62.	1.3	84
4	Effect of drainage and sequential filling on the behavior of backfill in mine stopes. Canadian Geotechnical Journal, 2014, 51, 1-15.	1.4	81
5	A porosity-dependent inelastic criterion for engineering materials. International Journal of Plasticity, 2004, 20, 2179-2208.	4.1	61
6	An improved analytical solution to estimate the stress state in subvertical backfilled stopes. Canadian Geotechnical Journal, 2008, 45, 1487-1496.	1.4	57
7	A Three-Dimensional Analysis of the Total and Effective Stresses in Submerged Backfilled Stopes. Geotechnical and Geological Engineering, 2009, 27, 559-569.	0.8	54
8	Influence of Water Pressure on the Stress State in Stopes with Cohesionless Backfill. Geotechnical and Geological Engineering, 2009, 27, 1-11.	0.8	48
9	An analytical solution for the nonlinear distribution of effective and total stresses in vertical backfilled stopes. Geomechanics and Geoengineering, 2010, 5, 237-245.	0.9	43
10	A modified solution to assess the required strength of exposed backfill in mine stopes. Canadian Geotechnical Journal, 2012, 49, 994-1002.	1.4	43
11	Generalized Solution for Mining Backfill Design. International Journal of Geomechanics, 2014, 14, 04014006.	1.3	42
12	An improved method to assess the required strength of cemented backfill in underground stopes with an open face. International Journal of Mining Science and Technology, 2014, 24, 549-558.	4.6	41
13	Numerical investigation of the geomechanical response of adjacent backfilled stopes. Canadian Geotechnical Journal, 2015, 52, 1507-1525.	1.4	40
14	Horizontal pressure on barricades for backfilled stopes. Part I: Fully drained conditions. Canadian Geotechnical Journal, 2009, 46, 37-46.	1.4	39
15	Analytical solution for determining the required strength of a side-exposed mine backfill containing a plug. Canadian Geotechnical Journal, 2014, 51, 508-519.	1.4	34
16	A numerical analysis of the stress distribution in backfilled stopes considering nonplanar interfaces between the backfill and rock walls. International Journal of Geotechnical Engineering, 2016, 10, 271-282.	1.1	34
17	Numerical Analysis of Stress Distribution in Backfilled Stopes Considering Interfaces between the Backfill and Rock Walls. International Journal of Geomechanics, 2017, 17, .	1.3	34
18	Formulation and application of a short-term strength criterion for isotropic rocks. Canadian Geotechnical Journal, 1999, 36, 947-960.	1.4	30

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19	Horizontal pressure on barricades for backfilled stopes. Part II: Submerged conditions. Canadian Geotechnical Journal, 2009, 46, 47-56.	1.4	30
20	An analytical solution to estimate the settlement of tailings or backfill slurry by considering the sedimentation and consolidation. International Journal of Mining Science and Technology, 2021, 31, 463-471.	4.6	29
21	Implementation and Application of a New Elastoplastic Model Based on a Multiaxial Criterion to Assess the Stress State near Underground Openings. International Journal of Geomechanics, 2010, 10, 13-21.	1.3	28
22	Numerical investigation of earth pressure coefficient along central line of backfilled stopes. Canadian Geotechnical Journal, 2017, 54, 138-145.	1.4	28
23	Numerical Analyses of the Stress State in Two Neighboring Stopes Excavated and Backfilled in Sequence. International Journal of Geomechanics, 2015, 15, .	1.3	27
24	Stability analyses of vertically exposed cemented backfill: A revisit to Mitchellâ€™s physical model tests. International Journal of Mining Science and Technology, 2016, 26, 1135-1144.	4.6	27
25	A New Solution to Assess the Required Strength of Mine Backfill with a Vertical Exposure. International Journal of Geomechanics, 2017, 17, .	1.3	27
26	Formulation and application of a general inelastic locus for geomaterials with variable porosity. Canadian Geotechnical Journal, 2005, 42, 601-623.	1.4	25
27	A New Analytical Solution for the Stress State in Inclined Backfilled Mine Stopes. Geotechnical and Geological Engineering, 2017, 35, 1151-1167.	0.8	24
28	Stability Analyses of Waste Rock Barricades Designed to Retain Paste Backfill. International Journal of Geomechanics, 2017, 17, .	1.3	24
29	A numerical evaluation of continuous backfilling in cemented paste backfilled stope through an application of wick drains. International Journal of Mining Science and Technology, 2015, 25, 897-904.	4.6	23
30	Numerical investigation of the stability of a base-exposed sill mat made of cemented backfill. International Journal of Rock Mechanics and Minings Sciences, 2019, 114, 195-207.	2.6	23
31	Investigation of the short-term stress distribution in stopes and drifts backfilled with cemented paste backfill. International Journal of Mining Science and Technology, 2015, 25, 721-728.	4.6	22
32	Stability analyses of side-exposed backfill considering mine depth and extraction of adjacent stope. International Journal of Rock Mechanics and Minings Sciences, 2021, 142, 104735.	2.6	22
33	A crack-induced stress approach to describe the tensile strength of transversely isotropic rocks. Canadian Geotechnical Journal, 2002, 39, 1-13.	1.4	21
34	An Investigation of the Uniaxial Compressive Strength of a Cemented Hydraulic Backfill Made of Alluvial Sand. Minerals (Basel, Switzerland), 2017, 7, 4.	0.8	21
35	Limit equilibrium analysis for the design of backfilled stope barricades made of waste rock. Canadian Geotechnical Journal, 2011, 48, 1713-1728.	1.4	20
36	An Extension of Marstonâ€™s Solution for the Stresses in Backfilled Trenches with Inclined Walls. Geotechnical and Geological Engineering, 2013, 31, 1027-1039.	0.8	20

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37	Numerical investigation of the stresses in backfilled stopes overlying aÂsill mat. Journal of Rock Mechanics and Geotechnical Engineering, 2017, 9, 490-501.	3.7	19
38	Numerical analysis of the stability of arched sill mats made of cemented backfill. International Journal of Rock Mechanics and Minings Sciences, 2021, 140, 104667.	2.6	19
39	A new concept of backfill designâ€"Application of wick drains in backfilled stopes. International Journal of Mining Science and Technology, 2013, 23, 763-770.	4.6	18
40	Experimental study of the â€œshort-termâ€•pressures of uncemented paste backfill with different solid contents for barricade design. Journal of Cleaner Production, 2020, 275, 123068.	4.6	16
41	Experimental Study of Uniaxial Compressive Strength (UCS) Distribution of Hydraulic Backfill Associated with Segregation. Minerals (Basel, Switzerland), 2019, 9, 147.	0.8	15
42	Three-dimensional stress state in inclined backfilled stopes obtained from numerical simulations and new closed-form solution. Canadian Geotechnical Journal, 2018, 55, 810-828.	1.4	14
43	Parameter determination for nonlinear stress criteria using a simple regression tool. Canadian Geotechnical Journal, 2000, 37, 1332-1347.	1.4	13
44	An Analytical Solution of Gibsonâ€™s Model for Estimating the Pore Water Pressures in Accreting Deposition of Slurried Material Under One-Dimensional Self-Weight Consolidation. Part I: Pervious Base. Indian Geotechnical Journal, 2018, 48, 72-83.	0.7	13
45	Theoretical and Numerical Analyses of Earth Pressure Coefficient along the Centerline of Vertical Openings with Granular Fills. Applied Sciences (Switzerland), 2018, 8, 1721.	1.3	13
46	An elastoplastic evaluation of the stress state around cylindrical openings based on a closed multiaxial yield surface. International Journal for Numerical and Analytical Methods in Geomechanics, 2009, 33, 193-213.	1.7	12
47	Experimental study of the shrinkage behavior of cemented paste backfill. Journal of Rock Mechanics and Geotechnical Engineering, 2021, 13, 545-545.	3.7	12
48	Stress Ratios in Entire Mine Stopes with Cohesionless Backfill: A Numerical Study. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	11
49	An Analytical Solution of Gibsonâ€™s Model for Estimating Pore Water Pressures in Accreting Deposition of Slurried Material Under One-Dimensional Self-Weight Consolidation. Part II: Impervious Base. Indian Geotechnical Journal, 2018, 48, 188-195.	0.7	10
50	Evolution of Water Table and Pore-Water Pressure in Stopes with Submerged Hydraulic Fill. International Journal of Geomechanics, 2017, 17, .	1.3	9
51	Total and Effective Stresses in Backfilled Stopes during the Fill Placement on a Pervious Base for Barricade Design. Minerals (Basel, Switzerland), 2019, 9, 38.	0.8	9
52	Determination of the Shear Strength of Rockfill from Small-Scale Laboratory Shear Tests: A Critical Review. Advances in Civil Engineering, 2020, 2020, 1-18.	0.4	9
53	Time-Dependent Stability Analyses of Side-Exposed Backfill Considering Creep of Surrounding Rock Mass. Rock Mechanics and Rock Engineering, 2022, 55, 2255-2279.	2.6	9
54	Numerical Analysis of the Stress Distribution in Symmetrical Backfilled Trenches with Inclined Walls. Indian Geotechnical Journal, 2015, 45, 278-290.	0.7	8

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55	Analytical solutions for the design of shotcreted waste rock barricades to retain slurried paste backfill. Construction and Building Materials, 2021, 307, 124626.	3.2	8
56	Estimation of total and effective stresses in trenches with inclined walls. International Journal of Geotechnical Engineering, 2012, 6, 525-538.	1.1	7
57	Effect of Drainage and Consolidation on the Pore Water Pressures and Total Stresses within Backfilled Stopes and on Barricades. Advances in Civil Engineering, 2019, 2019, 1-19.	0.4	7
58	Mine Backfilling in the Permafrost, Part I: Numerical Prediction of Thermal Curing Conditions within the Cemented Paste Backfill Matrix. Minerals (Basel, Switzerland), 2019, 9, 165.	0.8	7
59	Analysis of the Stress Distribution in Inclined Backfilled Stopes Using Closed-form Solutions and Numerical Simulations. Geotechnical and Geological Engineering, 2018, 36, 1011.	0.8	6
60	A solution to estimate the total and effective stresses in backfilled stopes with an impervious base during the filling operation of cohesionless backfill. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 1570-1586.	1.7	6
61	Applicability of Constitutive Models to Describing the Compressibility of Mining Backfill: A Comparative Study. Processes, 2021, 9, 2139.	1.3	6
62	Evaluation of the Stress State in Two Adjacent Backfilled Stopes Within an Elasto-Plastic Rock Mass. Geotechnical and Geological Engineering, 2024, 42, 1-24.	0.8	5
63	Solutions to estimate the excess PWP, settlement and volume of draining water after slurry deposition. Part I: impervious base. Environmental Earth Sciences, 2020, 79, 1.	1.3	5
64	Numerical analysis of the failure mechanisms of sill mats made of cemented backfill. International Journal of Geotechnical Engineering, 2022, 16, 802-814.	1.1	5
65	Experimental Study on the Reliability of Scaling Down Techniques Used in Direct Shear Tests to Determine the Shear Strength of Rockfill and Waste Rocks. CivilEng, 2022, 3, 35-50.	0.8	5
66	Experimental Study on the Effectiveness of Lubricants in Reducing Sidewall Friction. International Journal of Geomechanics, 2021, 21, .	1.3	2
67	Analytical, Numerical and Experimental Studies on Steady-State Seepage Through 3D Rockfill Trapezoidal Dikes. Mine Water and the Environment, 0, , 1.	0.9	2
68	A semi-empirical solution for estimating the elastic stresses around inclined mine stopes for the Mathews-Potvin stability analysis. Journal of the Southern African Institute of Mining and Metallurgy, 2021, 121, 1-10.	0.1	2
69	Experimental Study on the Minimum Required Specimen Width to Maximum Particle Size Ratio in Direct Shear Tests. CivilEng, 2022, 3, 66-84.	0.8	2
70	Numerical Investigation on the Impact of Tailings Slurry on Catch Dams Built at the Downstream of a Breached Tailings Pond. Processes, 2022, 10, 898.	1.3	2
71	Implementation of the Non-Associated Elastoplastic MSDPu Model in FLAC3D and Application for Stress Analysis of Backfilled Stopes. Processes, 2022, 10, 1130.	1.3	1
72	A Numerical Study of the Effect of Wick Drains Applied in Mine Stopes with Paste Fill. Environmental Science and Engineering, 2019, , 227-233.	0.1	0

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73	A Solution to Estimate Stresses in Backfilled Stopes by Considering Self-weight Consolidation and Arching. Environmental Science and Engineering, 2019, , 181-189.	0.1	0