

# Li Li

## List of Publications by Year in descending order

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73  
papers

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citations

236612

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38  
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75  
all docs

75  
docs citations

75  
times ranked

588  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Evaluation of the Stress State in Two Adjacent Backfilled Stopes Within an Elasto-Plastic Rock Mass. <i>Geotechnical and Geological Engineering</i> , 2024, 42, 1-24.  | 0.8 | 5         |
| 2  | Numerical analysis of the failure mechanisms of sill mats made of cemented backfill. <i>International Journal of Geotechnical Engineering</i> , 2022, 16, 802-814.   | 1.1 | 5         |
| 3  | Experimental Study on the Minimum Required Specimen Width to Maximum Particle Size Ratio in Direct Shear Tests. <i>CivilEng</i> , 2022, 3, 66-84.  | 0.8 | 2         |
| 4  | Experimental Study on the Reliability of Scaling Down Techniques Used in Direct Shear Tests to Determine the Shear Strength of Rockfill and Waste Rocks. <i>CivilEng</i> , 2022, 3, 35-50.   | 0.8 | 5         |
| 5  | Time-Dependent Stability Analyses of Side-Exposed Backfill Considering Creep of Surrounding Rock Mass. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 2255-2279.   | 2.6 | 9         |
| 6  | Numerical Investigation on the Impact of Tailings Slurry on Catch Dams Built at the Downstream of a Breached Tailings Pond. <i>Processes</i> , 2022, 10, 898.  | 1.3 | 2         |
| 7  | Implementation of the Non-Associated Elastoplastic MSDPu Model in FLAC3D and Application for Stress Analysis of Backfilled Stopes. <i>Processes</i> , 2022, 10, 1130.  | 1.3 | 1         |
| 8  | Experimental study of the shrinkage behavior of cemented paste backfill. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021, 13, 545-545.  | 3.7 | 12        |
| 9  | Numerical analysis of the stability of arched sill mats made of cemented backfill. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 140, 104667.  | 2.6 | 19        |
| 10 | An analytical solution to estimate the settlement of tailings or backfill slurry by considering the sedimentation and consolidation. <i>International Journal of Mining Science and Technology</i> , 2021, 31, 463-471.  | 4.6 | 29        |
| 11 | Experimental Study on the Effectiveness of Lubricants in Reducing Sidewall Friction. <i>International Journal of Geomechanics</i> , 2021, 21, .  | 1.3 | 2         |
| 12 | Stability analyses of side-exposed backfill considering mine depth and extraction of adjacent stope. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 142, 104735.  | 2.6 | 22        |
| 13 | Analytical solutions for the design of shotcreted waste rock barricades to retain slurried paste backfill. <i>Construction and Building Materials</i> , 2021, 307, 124626.   | 3.2 | 8         |
| 14 | A semi-empirical solution for estimating the elastic stresses around inclined mine stopes for the Mathews-Potvin stability analysis. <i>Journal of the Southern African Institute of Mining and Metallurgy</i> , 2021, 121, 1-10.                                    | 0.1 | 2         |
| 15 | Applicability of Constitutive Models to Describing the Compressibility of Mining Backfill: A Comparative Study. <i>Processes</i> , 2021, 9, 2139.  | 1.3 | 6         |
| 16 | Experimental study of the "short-term" pressures of uncemented paste backfill with different solid contents for barricade design. <i>Journal of Cleaner Production</i> , 2020, 275, 123068.  | 4.6 | 16        |
| 17 | Solutions to estimate the excess PWP, settlement and volume of draining water after slurry deposition. Part I: impervious base. <i>Environmental Earth Sciences</i> , 2020, 79, 1.   | 1.3 | 5         |
| 18 | A solution to estimate the total and effective stresses in backfilled stopes with an impervious base during the filling operation of cohesionless backfill. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020, 44, 1570-1586. | 1.7 | 6         |

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|----|--|-----|-----------|
| 19 | Determination of the Shear Strength of Rockfill from Small-Scale Laboratory Shear Tests: A Critical Review. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-18.   | 0.4 | 9         |
| 20 | Numerical investigation of the stability of a base-exposed sill mat made of cemented backfill. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 114, 195-207.   | 2.6 | 23        |
| 21 | Effect of Drainage and Consolidation on the Pore Water Pressures and Total Stresses within Backfilled Stopes and on Barricades. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-19.   | 0.4 | 7         |
| 22 | Experimental Study of Uniaxial Compressive Strength (UCS) Distribution of Hydraulic Backfill Associated with Segregation. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 147.   | 0.8 | 15        |
| 23 | Mine Backfilling in the Permafrost, Part I: Numerical Prediction of Thermal Curing Conditions within the Cemented Paste Backfill Matrix. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 165.  | 0.8 | 7         |
| 24 | Total and Effective Stresses in Backfilled Stopes during the Fill Placement on a Pervious Base for Barricade Design. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 38.   | 0.8 | 9         |
| 25 | A Numerical Study of the Effect of Wick Drains Applied in Mine Stopes with Paste Fill. <i>Environmental Science and Engineering</i> , 2019, , 227-233.   | 0.1 | 0         |
| 26 | A Solution to Estimate Stresses in Backfilled Stopes by Considering Self-weight Consolidation and Arching. <i>Environmental Science and Engineering</i> , 2019, , 181-189.   | 0.1 | 0         |
| 27 | Analysis of the Stress Distribution in Inclined Backfilled Stopes Using Closed-form Solutions and Numerical Simulations. <i>Geotechnical and Geological Engineering</i> , 2018, 36, 1011.  | 0.8 | 6         |
| 28 | An Analytical Solution of Gibson's Model for Estimating the Pore Water Pressures in Accreting Deposition of Slurried Material Under One-Dimensional Self-Weight Consolidation. Part I: Pervious Base. <i>Indian Geotechnical Journal</i> , 2018, 48, 72-83.  | 0.7 | 13        |
| 29 | Three-dimensional stress state in inclined backfilled stopes obtained from numerical simulations and new closed-form solution. <i>Canadian Geotechnical Journal</i> , 2018, 55, 810-828.   | 1.4 | 14        |
| 30 | An Analytical Solution of Gibson's Model for Estimating Pore Water Pressures in Accreting Deposition of Slurried Material Under One-Dimensional Self-Weight Consolidation. Part II: Impervious Base. <i>Indian Geotechnical Journal</i> , 2018, 48, 188-195. | 0.7 | 10        |
| 31 | Theoretical and Numerical Analyses of Earth Pressure Coefficient along the Centerline of Vertical Openings with Granular Fills. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1721.   | 1.3 | 13        |
| 32 | Numerical Analysis of Stress Distribution in Backfilled Stopes Considering Interfaces between the Backfill and Rock Walls. <i>International Journal of Geomechanics</i> , 2017, 17, .  | 1.3 | 34        |
| 33 | Numerical investigation of the stresses in backfilled stopes overlying a sill mat. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2017, 9, 490-501.   | 3.7 | 19        |
| 34 | A New Analytical Solution for the Stress State in Inclined Backfilled Mine Stopes. <i>Geotechnical and Geological Engineering</i> , 2017, 35, 1151-1167.   | 0.8 | 24        |
| 35 | Evolution of Water Table and Pore-Water Pressure in Stopes with Submerged Hydraulic Fill. <i>International Journal of Geomechanics</i> , 2017, 17, .   | 1.3 | 9         |
| 36 | A New Solution to Assess the Required Strength of Mine Backfill with a Vertical Exposure. <i>International Journal of Geomechanics</i> , 2017, 17, .   | 1.3 | 27        |

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|----|--|-----|-----------|
| 37 | Stability Analyses of Waste Rock Barricades Designed to Retain Paste Backfill. International Journal of Geomechanics, 2017, 17, .  | 1.3 | 24        |
| 38 | Numerical investigation of earth pressure coefficient along central line of backfilled stopes. Canadian Geotechnical Journal, 2017, 54, 138-145.   | 1.4 | 28        |
| 39 | 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        |
| 40 | 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        |
| 41 | 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        |
| 42 | Stability analyses of vertically exposed cemented backfill: A revisit to Mitchell's physical model tests. International Journal of Mining Science and Technology, 2016, 26, 1135-1144.                           | 4.6 | 27        |
| 43 | Numerical Analyses of the Stress State in Two Neighboring Stopes Excavated and Backfilled in Sequence. International Journal of Geomechanics, 2015, 15, .  | 1.3 | 27        |
| 44 | Numerical Analysis of the Stress Distribution in Symmetrical Backfilled Trenches with Inclined Walls. Indian Geotechnical Journal, 2015, 45, 278-290.  | 0.7 | 8         |
| 45 | 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        |
| 46 | Numerical investigation of the geomechanical response of adjacent backfilled stopes. Canadian Geotechnical Journal, 2015, 52, 1507-1525.   | 1.4 | 40        |
| 47 | 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        |
| 48 | 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        |
| 49 | Effect of drainage and sequential filling on the behavior of backfill in mine stopes. Canadian Geotechnical Journal, 2014, 51, 1-15.   | 1.4 | 81        |
| 50 | 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        |
| 51 | Generalized Solution for Mining Backfill Design. International Journal of Geomechanics, 2014, 14, 04014006.  | 1.3 | 42        |
| 52 | An Extension of Marston's Solution for the Stresses in Backfilled Trenches with Inclined Walls. Geotechnical and Geological Engineering, 2013, 31, 1027-1039.  | 0.8 | 20        |
| 53 | A new concept of backfill design "Application of wick drains in backfilled stopes. International Journal of Mining Science and Technology, 2013, 23, 763-770.  | 4.6 | 18        |
| 54 | A modified solution to assess the required strength of exposed backfill in mine stopes. Canadian Geotechnical Journal, 2012, 49, 994-1002.   | 1.4 | 43        |

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|----|--|-----|-----------|
| 55 | Estimation of total and effective stresses in trenches with inclined walls. <i>International Journal of Geotechnical Engineering</i> , 2012, 6, 525-538.   | 1.1 | 7         |
| 56 | Limit equilibrium analysis for the design of backfilled stope barricades made of waste rock. <i>Canadian Geotechnical Journal</i> , 2011, 48, 1713-1728.   | 1.4 | 20        |
| 57 | Implementation and Application of a New Elastoplastic Model Based on a Multiaxial Criterion to Assess the Stress State near Underground Openings. <i>International Journal of Geomechanics</i> , 2010, 10, 13-21.              | 1.3 | 28        |
| 58 | An analytical solution for the nonlinear distribution of effective and total stresses in vertical backfilled stopes. <i>Geomechanics and Geoengeering</i> , 2010, 5, 237-245.  | 0.9 | 43        |
| 59 | Numerical Investigation of the Stress State in Inclined Backfilled Stopes. <i>International Journal of Geomechanics</i> , 2009, 9, 52-62.  | 1.3 | 84        |
| 60 | An elastoplastic evaluation of the stress state around cylindrical openings based on a closed multiaxial yield surface. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2009, 33, 193-213. | 1.7 | 12        |
| 61 | Influence of Water Pressure on the Stress State in Stopes with Cohesionless Backfill. <i>Geotechnical and Geological Engineering</i> , 2009, 27, 1-11.   | 0.8 | 48        |
| 62 | A Three-Dimensional Analysis of the Total and Effective Stresses in Submerged Backfilled Stopes. <i>Geotechnical and Geological Engineering</i> , 2009, 27, 559-569.   | 0.8 | 54        |
| 63 | Horizontal pressure on barricades for backfilled stopes. Part II: Submerged conditions. <i>Canadian Geotechnical Journal</i> , 2009, 46, 47-56.  | 1.4 | 30        |
| 64 | Horizontal pressure on barricades for backfilled stopes. Part I: Fully drained conditions. <i>Canadian Geotechnical Journal</i> , 2009, 46, 37-46.   | 1.4 | 39        |
| 65 | An improved analytical solution to estimate the stress state in subvertical backfilled stopes. <i>Canadian Geotechnical Journal</i> , 2008, 45, 1487-1496.   | 1.4 | 57        |
| 66 | Formulation and application of a general inelastic locus for geomaterials with variable porosity. <i>Canadian Geotechnical Journal</i> , 2005, 42, 601-623.  | 1.4 | 25        |
| 67 | Formulation of a three dimensional analytical solution to evaluate stresses in backfilled vertical narrow openings. <i>Canadian Geotechnical Journal</i> , 2005, 42, 1705-1717.  | 1.4 | 102       |
| 68 | A porosity-dependent inelastic criterion for engineering materials. <i>International Journal of Plasticity</i> , 2004, 20, 2179-2208.  | 4.1 | 61        |
| 69 | A general relationship between porosity and uniaxial strength of engineering materials. <i>Canadian Journal of Civil Engineering</i> , 2003, 30, 644-658.  | 0.7 | 109       |
| 70 | A crack-induced stress approach to describe the tensile strength of transversely isotropic rocks. <i>Canadian Geotechnical Journal</i> , 2002, 39, 1-13.   | 1.4 | 21        |
| 71 | Parameter determination for nonlinear stress criteria using a simple regression tool. <i>Canadian Geotechnical Journal</i> , 2000, 37, 1332-1347.  | 1.4 | 13        |
| 72 | Formulation and application of a short-term strength criterion for isotropic rocks. <i>Canadian Geotechnical Journal</i> , 1999, 36, 947-960.  | 1.4 | 30        |

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|----|---|-----|-----------|
| 73 | Analytical, Numerical and Experimental Studies on Steady-State Seepage Through 3D Rockfill Trapezoidal Dikes. Mine Water and the Environment, 0, , 1. | 0.9 | 2         |