

Ji-lin Qi

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

2,259
citations

218592

26
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223716

46
g-index

70
all docs

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docs citations

70
times ranked

1127
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A review of the influence of freeze-thaw cycles on soil geotechnical properties. Permafrost and Periglacial Processes, 2006, 17, 245-252. | 1.5 | 279 |
| 2 | Influence of freeze-thaw on engineering properties of a silty soil. Cold Regions Science and Technology, 2008, 53, 397-404. | 1.6 | 232 |
| 3 | An experimental investigation of the mechanical behavior and a hyperplastic constitutive model of frozen loess. International Journal of Engineering Science, 2014, 84, 29-53. | 2.7 | 102 |
| 4 | Strength distributions of warm frozen clay and its stochastic damage constitutive model. Cold Regions Science and Technology, 2008, 53, 200-215. | 1.6 | 84 |
| 5 | Laboratory investigation on strength and deformation characteristics of ice-saturated frozen sandy soil. Cold Regions Science and Technology, 2011, 69, 98-104. | 1.6 | 73 |
| 6 | In-situ monitoring of settlement at different layers under embankments in permafrost regions on the Qinghai-Tibet Plateau. Engineering Geology, 2013, 160, 44-53. | 2.9 | 73 |
| 7 | A simple rheological element based creep model for frozen soils. Cold Regions Science and Technology, 2014, 106-107, 47-54. | 1.6 | 64 |
| 8 | Crack formation of a highway embankment installed with two-phase closed thermosyphons in permafrost regions: Field experiment and geothermal modelling. Applied Thermal Engineering, 2017, 115, 670-681. | 3.0 | 64 |
| 9 | Typical embankment settlement/heave patterns of the Qinghai-Tibet highway in permafrost regions: Formation and evolution. Engineering Geology, 2016, 214, 147-156. | 2.9 | 62 |
| 10 | Zonation and assessment of frozen-ground conditions for engineering geology along the China-Russia crude oil pipeline route from Mo'he to Daqing, Northeastern China. Cold Regions Science and Technology, 2010, 64, 213-225. | 1.6 | 61 |
| 11 | Study on thaw consolidation of permafrost under roadway embankment. Cold Regions Science and Technology, 2012, 81, 48-54. | 1.6 | 59 |
| 12 | Cooling performance of two-phase closed thermosyphons installed at a highway embankment in permafrost regions. Applied Thermal Engineering, 2016, 98, 220-227. | 3.0 | 59 |
| 13 | A new criterion for strength of frozen sand under quick triaxial compression considering effect of confining pressure. Acta Geotechnica, 2007, 2, 221-226. | 2.9 | 58 |
| 14 | Model test study on influence of freezing and thawing on the crude oil pipeline in cold regions. Cold Regions Science and Technology, 2010, 64, 262-270. | 1.6 | 52 |
| 15 | Degradation process of permafrost underneath embankments along Qinghai-Tibet Highway: An engineering view. Cold Regions Science and Technology, 2013, 85, 150-156. | 1.6 | 46 |
| 16 | Development of freezing-thawing processes of foundation soils surrounding the China-Russia Crude Oil Pipeline in the permafrost areas under a warming climate. Cold Regions Science and Technology, 2010, 64, 226-234. | 1.6 | 45 |
| 17 | In situ experimental study on thermal protection effects of the insulation method on warm permafrost. Cold Regions Science and Technology, 2008, 53, 369-381. | 1.6 | 42 |
| 18 | Three dimensional analysis of large strain thaw consolidation in permafrost. Acta Geotechnica, 2012, 7, 193-202. | 2.9 | 42 |

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|----|--|-----|-----------|
| 19 | Influence of plasticity on unfrozen water content of frozen soils as determined by nuclear magnetic resonance. <i>Cold Regions Science and Technology</i> , 2020, 172, 102993. | 1.6 | 42 |
| 20 | Forecasting the oil temperatures along the proposed China-Russia Crude Oil Pipeline using quasi 3-D transient heat conduction model. <i>Cold Regions Science and Technology</i> , 2010, 64, 235-242. | 1.6 | 40 |
| 21 | Analysis of the Deformation of Embankments on the Qinghai-Tibet Railway. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2008, 134, 1645-1654. | 1.5 | 38 |
| 22 | Modeling the viscous behavior of frozen soil with hypoplasticity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016, 40, 2061-2075. | 1.7 | 34 |
| 23 | Experimental study on variability in mechanical properties of a frozen sand as determined in triaxial compression tests. <i>Acta Geotechnica</i> , 2016, 11, 61-70. | 2.9 | 33 |
| 24 | Effect of freeze-thaw on freezing point of a saline loess. <i>Cold Regions Science and Technology</i> , 2020, 170, 102922. | 1.6 | 33 |
| 25 | Study on the Reasonable Height of Embankment in Qinghai-Tibet Highway. <i>Geotechnical and Geological Engineering</i> , 2016, 34, 1-14. | 0.8 | 31 |
| 26 | Long-term evaluations of insulated road in the Qinghai-Tibetan plateau. <i>Cold Regions Science and Technology</i> , 2006, 45, 23-30. | 1.6 | 27 |
| 27 | A novel method for estimating settlement of embankments in cold regions. <i>Cold Regions Science and Technology</i> , 2013, 88, 50-58. | 1.6 | 27 |
| 28 | A frozen soil creep model with strength attenuation. <i>Acta Geotechnica</i> , 2017, 12, 1385-1393. | 2.9 | 27 |
| 29 | Influence of freeze-thaw on the stored free energy in soils. <i>Cold Regions Science and Technology</i> , 2009, 56, 115-119. | 1.6 | 26 |
| 30 | A novel modeling of settlement of foundations in permafrost regions. <i>Geomechanics and Engineering</i> , 2016, 10, 225-245. | 0.9 | 26 |
| 31 | Model test and numerical simulation on the development of artificially freezing wall in sandy layers considering water seepage. <i>Transportation Geotechnics</i> , 2019, 21, 100293. | 2.0 | 25 |
| 32 | Consolidation of thawing permafrost considering phase change. <i>KSCE Journal of Civil Engineering</i> , 2013, 17, 1293-1301. | 0.9 | 22 |
| 33 | An extended hypoplastic constitutive model for frozen sand. <i>Soils and Foundations</i> , 2016, 56, 704-711. | 1.3 | 21 |
| 34 | Experimental study of a pseudo-preconsolidation pressure in frozen soils. <i>Cold Regions Science and Technology</i> , 2010, 60, 230-233. | 1.6 | 20 |
| 35 | Ground motion analysis in seasonally frozen regions. <i>Cold Regions Science and Technology</i> , 2006, 44, 111-120. | 1.6 | 19 |
| 36 | A one-dimensional creep model for frozen soils taking temperature as an independent variable. <i>Soils and Foundations</i> , 2018, 58, 627-640. | 1.3 | 19 |

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|----|--|-----|-----------|
| 37 | A versatile triaxial apparatus for frozen soils. <i>Cold Regions Science and Technology</i> , 2013, 92, 48-54. | 1.6 | 18 |
| 38 | Comparison of permafrost degradation under natural ground surfaces and embankments of the Qinghai-Tibet Highway. <i>Cold Regions Science and Technology</i> , 2015, 114, 1-8. | 1.6 | 17 |
| 39 | Combined constitutive model for creep and steady flow rate of frozen soil in an unconfined condition. <i>Canadian Geotechnical Journal</i> , 2017, 54, 907-914. | 1.4 | 16 |
| 40 | Laboratory Investigation of the Heat Transfer Characteristics of a Trapezoidal Crushed-Rock Layer Under Impermeable and Permeable Boundaries. <i>Experimental Heat Transfer</i> , 2006, 19, 251-264. | 2.3 | 14 |
| 41 | Pore Water Pressure Distribution and Dissipation During Thaw Consolidation. <i>Transport in Porous Media</i> , 2017, 116, 435-451. | 1.2 | 14 |
| 42 | Work-energy analysis of granular assemblies validates and calibrates a constitutive model. <i>Granular Matter</i> , 2020, 22, 1. | 1.1 | 14 |
| 43 | Study on Lateral Earth Pressure Coefficient at Rest for Frozen Soils. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2014, 136, . | 0.6 | 13 |
| 44 | Model test on the development of thermal regime and frost heave of a gravelly soil under seepage during artificial freezing. <i>Cold Regions Science and Technology</i> , 2022, 196, 103495. | 1.6 | 13 |
| 45 | Modeling the combined effect of time and temperature on normally consolidated and overconsolidated clays. <i>Acta Geotechnica</i> , 2020, 15, 2451-2471. | 2.9 | 12 |
| 46 | Study on anti-corrosion of PVA-treated wheat straw and its application in reinforcement of a silty soil. <i>Construction and Building Materials</i> , 2021, 291, 123305. | 3.2 | 12 |
| 47 | Study on the excavation disturbed zone during tunneling in sandy cobble stratum considering the material meso-structure. <i>Transportation Geotechnics</i> , 2021, 29, 100590. | 2.0 | 11 |
| 48 | Influence of bimodal structure on the soil freezing characteristic curve in expansive soils. <i>Cold Regions Science and Technology</i> , 2022, 194, 103437. | 1.6 | 10 |
| 49 | Study on Mechanism of Freeze-Thaw Cycles Induced Changes in Soil Strength Using Electrical Resistivity and X-Ray Computed Tomography. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2017, 139, . | 0.6 | 9 |
| 50 | Analysis on the settlement of roadway embankments in permafrost regions. <i>Journal of Earth Science (Wuhan, China)</i> , 2014, 25, 764-770. | 1.1 | 8 |
| 51 | On the uniaxial compression strength of frozen gravelly soils. <i>Cold Regions Science and Technology</i> , 2020, 171, 102965. | 1.6 | 8 |
| 52 | Stress relaxation characteristics of warm frozen clay under triaxial conditions. <i>Cold Regions Science and Technology</i> , 2011, . . | 1.6 | 7 |
| 53 | Viscosity of rock mass at different structural levels. <i>Acta Geotechnica</i> , 2017, 12, 305-320. | 2.9 | 7 |
| 54 | Hypoplastic Modeling for the Mechanical Behavior of Frozen Soil in Stress Path Testing. <i>International Journal of Geomechanics</i> , 2018, 18, . | 1.3 | 7 |

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|----|--|-----|-----------|
| 55 | A Review on Creep of Frozen Soils. Springer Series in Geomechanics and Geoengineering, 2013, , 129-133. | 0.0 | 5 |
| 56 | A triaxial creep model for frozen soil based on hypoplasticity. European Journal of Environmental and Civil Engineering, 2017, , 1-12. | 1.0 | 5 |
| 57 | A division method for shallow tunnels and deep tunnels considering soil stress path dependency. Computers and Geotechnics, 2021, 135, 104012. | 2.3 | 4 |
| 58 | Assessment on strength reduction schemes for geotechnical stability analysis involving the Drucker-Prager criterion. Journal of Central South University, 2021, 28, 3238-3245. | 1.2 | 4 |
| 59 | A three-stage strength criterion for frozen soils. Cold Regions Science and Technology, 2022, 201, 103597. | 1.6 | 4 |
| 60 | Numerical Simulation of a CAES Pile with Hypoplasticity. Springer Series in Geomechanics and Geoengineering, 2019, , 242-249. | 0.0 | 3 |
| 61 | An isotache model for frozen soil taking account the effect of creep on plastic yield pressure. KSCE Journal of Civil Engineering, 2018, 22, 555-564. | 0.9 | 2 |
| 62 | Strength attenuation effects on rate-dependent law of stress development of frozen sand. European Journal of Environmental and Civil Engineering, 2020, 24, 880-894. | 1.0 | 2 |
| 63 | Study on Changes in Integrity Decay of Sandstone Subjected to Freeze-thaw Cycling. Springer Series in Geomechanics and Geoengineering, 2018, , 1420-1423. | 0.0 | 1 |
| 64 | Elastoplastic analysis of solid structures using penalty-based couple stress finite element method within framework of Cosserat continuum. Journal of Central South University, 2022, 29, 1320-1331. | 1.2 | 1 |
| 65 | A Simple Equation for Predicting Freezing Point of Saline Soft Clay. Springer Series in Geomechanics and Geoengineering, 2018, , 1412-1415. | 0.0 | 0 |
| 66 | A Visco-Hypoplastic Constitutive Model and Its Implementation. Springer Series in Geomechanics and Geoengineering, 2018, , 94-97. | 0.0 | 0 |