

# Guo-yu Li

## List of Publications by Year in descending order

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86  
papers

2,200  
citations

279487

23  
h-index

253896

43  
g-index

89  
all docs

89  
docs citations

89  
times ranked

1246  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of freeze-thaw cycles in mechanical behaviors of frozen loess. Cold Regions Science and Technology, 2018, 146, 9-18.	1.6	224
2	Hyperspectral Images Classification With Gabor Filtering and Convolutional Neural Network. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2355-2359.	1.4	199
3	Multiaxial creep of frozen loess. Mechanics of Materials, 2016, 95, 172-191.	1.7	141
4	Variations in strength and deformation of compacted loess exposed to wetting-drying and freeze-thaw cycles. Cold Regions Science and Technology, 2018, 151, 159-167.	1.6	101
5	Experimental investigation of the path-dependent strength and deformation behaviours of frozen loess. Engineering Geology, 2020, 265, 105449.	2.9	100
6	Influence of Pore Water (Ice) Content on the Strength and Deformability of Frozen Argillaceous Siltstone. Rock Mechanics and Rock Engineering, 2020, 53, 967-974.	2.6	85
7	Investigation of the freeze-thaw states of foundation soils in permafrost areas along the China-Russia Crude Oil Pipeline (CRCOP) route using ground-penetrating radar (GPR). Cold Regions Science and Technology, 2016, 126, 10-21.	1.6	68
8	Effects of freeze-thaw cycle on engineering properties of loess used as road fills in seasonally frozen ground regions, North China. Journal of Mountain Science, 2017, 14, 356-368.	0.8	66
9	Thermal elasto-plastic computation model for a buried oil pipeline in frozen ground. Cold Regions Science and Technology, 2010, 64, 248-255.	1.6	64
10	Pipeline-permafrost interaction monitoring system along the China-Russia crude oil pipeline. Engineering Geology, 2019, 254, 113-125.	2.9	56
11	Permafrost thawing along the China-Russia Crude Oil Pipeline and countermeasures: A case study in Jiagedaqi, Northeast China. Cold Regions Science and Technology, 2018, 155, 308-313.	1.6	50
12	Field observations of cooling performance of thermosyphons on permafrost under the China-Russia Crude Oil Pipeline. Applied Thermal Engineering, 2018, 141, 688-696.	3.0	48
13	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
14	Damage evolution and recrystallization enhancement of frozen loess. International Journal of Damage Mechanics, 2018, 27, 1131-1155.	2.4	44
15	Forecasting the oil temperatures along the proposed China-Russia Crude Oil Pipeline using quasi 3-D transient heat conduction model. Cold Regions Science and Technology, 2010, 64, 235-242.	1.6	40
16	Dynamic responses of frozen subgrade soil exposed to freeze-thaw cycles. Soil Dynamics and Earthquake Engineering, 2022, 152, 107010.	1.9	37
17	Settlement characteristics of unprotected embankment along the Qinghai-Tibet Railway. Cold Regions Science and Technology, 2010, 60, 84-91.	1.6	31
18	Freeze-thaw properties and long-term thermal stability of the unprotected tower foundation soils in permafrost regions along the Qinghai-Tibet Power Transmission Line. Cold Regions Science and Technology, 2016, 121, 258-274.	1.6	31

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19	Thermal performance of a combined cooling method of thermosyphons and insulation boards for tower foundation soils along the Qinghai-Tibet Power Transmission Line. <i>Cold Regions Science and Technology</i> , 2016, 121, 226-236.	1.6	30
20	Yield surface evolution for columnar ice. <i>Results in Physics</i> , 2016, 6, 851-859.	2.0	29
21	Experimental study on the dynamic behavior of expansive soil in slopes under freeze-thaw cycles. <i>Cold Regions Science and Technology</i> , 2019, 163, 27-33.	1.6	26
22	Long-term thermal and settlement characteristics of air convection embankments with and without adjacent surface water ponding in permafrost regions. <i>Engineering Geology</i> , 2020, 266, 105464.	2.9	25
23	Thermal Characteristics of the Embankment with Crushed Rock Side Slope to Mitigate Thaw Settlement Hazards of the Qinghai-Tibet Railway. <i>Acta Geologica Sinica</i> , 2009, 83, 1000-1007.	0.8	24
24	LiDAR Data Classification Using Spatial Transformation and CNN. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 125-129.	1.4	23
25	Study on design optimization of a crushed stone layer with shading board placed on a railway embankment on warm permafrost. <i>Cold Regions Science and Technology</i> , 2008, 54, 36-43.	1.6	22
26	Field observation of permafrost degradation under Mo'he airport, Northeastern China from 2007 to 2016. <i>Cold Regions Science and Technology</i> , 2019, 161, 43-50.	1.6	22
27	Early-age hydration heat evolution and kinetics of Portland cement containing nano-silica at different temperatures. <i>Construction and Building Materials</i> , 2022, 334, 127363.	3.2	21
28	Mechanical Properties of Fiber-Reinforced Soil under Triaxial Compression and Parameter Determination Based on the Duncan-Chang Model. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 9043.	1.3	20
29	Mass and Heat Balance of a Lake Ice Cover in the Central Asian Arid Climate Zone. <i>Water (Switzerland)</i> , 2020, 12, 2888.	1.2	20
30	Globally elevated chemical weathering rates beneath glaciers. <i>Nature Communications</i> , 2022, 13, 407.	5.8	20
31	A strength criterion for frozen clay considering the influence of stress Lode angle. <i>Canadian Geotechnical Journal</i> , 2019, 56, 1557-1572.	1.4	19
32	46-Year (1973-2019) Permafrost Landscape Changes in the Hala Basin, Northeast China Using Machine Learning and Object-Oriented Classification. <i>Remote Sensing</i> , 2021, 13, 1910.	1.8	18
33	A new ripraped-rock slope for high temperature permafrost regions. <i>Cold Regions Science and Technology</i> , 2006, 45, 42-50.	1.6	17
34	Engineering properties of loess stabilized by a type of eco-material, calcium lignosulfonate. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	17
35	A novel evaluation method for accumulative plastic deformation of granular materials subjected to cyclic loading: Taking frozen subgrade soil as an example. <i>Cold Regions Science and Technology</i> , 2020, 179, 103152.	1.6	17
36	Solar radiation transfer for an ice-covered lake in the central Asian arid climate zone. <i>Inland Waters</i> , 2021, 11, 89-103.	1.1	17

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37	Thermal state of soils in the active layer and underlain permafrost at the kilometer post 304 site along the China-Russia Crude Oil Pipeline. <i>Journal of Mountain Science</i> , 2016, 13, 1984-1994.	0.8	15
38	Study on the mesostructural evolution mechanism of compacted loess subjected to various weathering actions. <i>Cold Regions Science and Technology</i> , 2019, 167, 102846.	1.6	15
39	Assessment of Freeze-Thaw Hazards and Water Features along the China-Russia Crude Oil Pipeline in Permafrost Regions. <i>Remote Sensing</i> , 2020, 12, 3576.	1.8	15
40	Development of Anisotropy in Sandstone Subjected to Repeated Frost Action. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 1863-1874.	2.6	15
41	Permafrost warming along the Mohe-Jiagedaqi section of the China-Russia crude oil pipeline. <i>Journal of Mountain Science</i> , 2019, 16, 285-295.	0.8	14
42	Grazing exclusion did not affect soil properties in alpine meadows in the Tibetan permafrost region. <i>Ecological Engineering</i> , 2020, 147, 105657.	1.6	14
43	Deformation Monitoring in an Alpine Mining Area in the Tianshan Mountains Based on SBAS-InSAR Technology. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-15.	1.0	14
44	Fracture Mechanical Properties of Frozen Sandstone at Different Initial Saturation Degrees. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3235-3252.	2.6	14
45	Response of bacterial communities to mining activity in the alpine area of the Tianshan Mountain region, China. <i>Environmental Science and Pollution Research</i> , 2021, 28, 15806-15818.	2.7	13
46	Freeze-thaw resistance of eco-material stabilized loess. <i>Journal of Mountain Science</i> , 2021, 18, 794-805.	0.8	13
47	Numerical analysis of frost heave and thawing settlement of the pile-soil system in degraded permafrost region. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	1.3	13
48	SBAS-InSAR-Based Analysis of Surface Deformation in the Eastern Tianshan Mountains, China. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	13
49	Quantification of Temporal Decorrelation in X-, C-, and L-Band Interferometry for the Permafrost Region of the Qinghai-Tibet Plateau. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017, 14, 2285-2289.	1.4	12
50	Study on Tensile Strength and Tensile-Shear Coupling Mechanism of Loess around Lanzhou and Yanan City in China by Unconfined Penetration Test. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 2471-2482.	0.9	12
51	Effect of Freeze-Thaw Cycles on Mechanical Behavior of Compacted Fine-Grained Soil. , 2012, , .		11
52	Characteristics of the active-layer under the China-Russia Crude Oil pipeline. <i>Journal of Mountain Science</i> , 2021, 18, 323-337.	0.8	11
53	A long-term strength criterion for frozen clay under complex stress states. <i>Cold Regions Science and Technology</i> , 2020, 176, 103089.	1.6	11
54	Porosity of crushed rock layer and its impact on thermal regime of Qinghai-Tibet Railway embankment. <i>Journal of Central South University</i> , 2017, 24, 977-987.	1.2	10

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55	Bioavailable phosphorus distribution in alpine meadow soil is affected by topography in the Tian Shan Mountains. <i>Journal of Mountain Science</i> , 2020, 17, 410-422.	0.8	10
56	Profile distributions of soil organic carbon fractions in a permafrost region of the Qinghai-Tibet Plateau. <i>Permafrost and Periglacial Processes</i> , 2020, 31, 538-547.	1.5	10
57	Preliminary study on cooling effect mechanisms of Qinghai-Tibet railway embankment with open crushed-stone side slope in permafrost regions. <i>Cold Regions Science and Technology</i> , 2006, 45, 193-201.	1.6	9
58	Permafrost warming under the earthen roadbed of the Qinghai-Tibet Railway. <i>Environmental Earth Sciences</i> , 2011, 64, 1975-1983.	1.3	9
59	Laboratory testing on heat transfer of frozen soil blocks used as backfills of pile foundation in permafrost along Qinghai-Tibet electrical transmission line. <i>Arabian Journal of Geosciences</i> , 2015, 8, 2527-2535.	0.6	9
60	Pasture degradation impact on soil carbon and nitrogen fractions of alpine meadow in a Tibetan permafrost region. <i>Journal of Soils and Sediments</i> , 2020, 20, 2330-2342.	1.5	9
61	A novel approach for characterizing frozen soil damage based on mesostructure. <i>International Journal of Damage Mechanics</i> , 2022, 31, 444-463.	2.4	9
62	Effect of Repeated Wetting-Drying-Freezing-Thawing Cycles on the Mechanic Properties and Pore Characteristics of Compacted Loess. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-8.	0.4	8
63	Damage characteristics of the Qinghai-Tibet Highway in permafrost regions based on UAV imagery. <i>International Journal of Pavement Engineering</i> , 2023, 24, .	2.2	8
64	Proposal of a New Method for Controlling the Thaw of Permafrost around the China-Russia Crude Oil Pipeline and a Preliminary Study of Its Ventilation Capacity. <i>Water (Switzerland)</i> , 2021, 13, 2908.	1.2	7
65	Damage Properties of the Block-Stone Embankment in the Qinghai-Tibet Highway Using Ground-Penetrating Radar Imagery. <i>Remote Sensing</i> , 2022, 14, 2950.	1.8	7
66	The Outburst of a Lake and Its Impacts on Redistribution of Surface Water Bodies in High-Altitude Permafrost Region. <i>Remote Sensing</i> , 2022, 14, 2918.	1.8	7
67	A novel freezing point determination method for oil-contaminated soils based on electrical resistance measurement and its influencing factors. <i>Science of the Total Environment</i> , 2020, 721, 137821.	3.9	6
68	Automated demarcation of the homogeneous domains of trace distribution within a rock mass based on GLCM and ISODATA. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 128, 104249.	2.6	5
69	Improving the Mechanical Properties of Red Clay Using Xanthan Gum Biopolymer. <i>International Journal of Polymer Science</i> , 2021, 2021, 1-16.	1.2	5
70	Diurnal Cycle Model of Lake Ice Surface Albedo: A Case Study of Wuliangsu Lake. <i>Remote Sensing</i> , 2021, 13, 3334.	1.8	4
71	Three-Dimensional Numerical Investigation on the Seepage Field and Stability of Soil Slope Subjected to Snowmelt Infiltration. <i>Water (Switzerland)</i> , 2021, 13, 2729.	1.2	4
72	Controlling factors of soil organic carbon and nitrogen in lucerne grasslands in a semiarid environment. <i>Catena</i> , 2022, 211, 105983.	2.2	4

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73	Alternate freezing and thawing enhanced the sediment and nutrient runoff loss in the restored soil of the alpine mining area. <i>Journal of Mountain Science</i> , 0, , 1.	0.8	4
74	Effect of freeze-thaw cycles on the physical and dynamic characteristic of modified Na-bentonite by KCl. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	3
75	Acceleration Frequency Characteristics of the Freight-Train-Induced Vibration of the Beijing-Harbin Railway Subgrade. <i>Shock and Vibration</i> , 2020, 2020, 1-11.	0.3	3
76	Degradation characteristics and bearing capacity model of pile in degraded permafrost. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2022, 175, 414-425.	0.9	2
77	Dynamic Behavior of Geosynthetic-Reinforced Expansive Soil under Freeze-Thaw Cycles. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-11.	0.4	2
78	A 10-yr thermal regime of permafrost beneath and adjacent to an alpine thermokarst lake, Beiluhe Basin, Qinghai-Tibet Plateau, China. <i>Permafrost and Periglacial Processes</i> , 2021, 32, 618-626.	1.5	1
79	Analysis of Necessity and Feasibility for Ground Improvement in Warm and Ice-Rich Permafrost Regions. <i>Advances in Civil Engineering</i> , 2022, 2022, 1-12.	0.4	1
80	Influence of Warm Oil Pipeline on Underlying Permafrost and Cooling Effect of Thermosyphon Based on Field Observations. <i>Springer Series in Geomechanics and Geoengineering</i> , 2018, , 1424-1428.	0.0	0
81	Experimental Study on Electric Resistivity Characteristics of Compacted Loess under Different Loads and Drying-Wetting Cycles. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-12.	0.4	0
82	Critical Dynamic Stress and Accumulative Deformation Evolution of Embankment Silty Clay Subjected to Cyclic Freeze-Thaw. <i>Shock and Vibration</i> , 2021, 2021, 1-9.	0.3	0
83	Influence of Wetting-Drying Cycle in Road Cut Slope in Loess in Northwest China. <i>Springer Series in Geomechanics and Geoengineering</i> , 2018, , 1508-1511.	0.0	0
84	Centrifuge Model Test on Performance of Thermosyphon Cooled Sandbags Supporting Warm Oil Pipeline Buried in Thawing Permafrost. <i>Springer Series in Geomechanics and Geoengineering</i> , 2018, , 1380-1384.	0.0	0
85	Elastoplastic Model Framework for Saturated Soils Subjected to a Freeze-Thaw Cycle Based on Generalized Plasticity Theory. <i>Materials</i> , 2021, 14, 6485.	1.3	0
86	Experimental Study on the Anisotropy and Non-coaxiality of Frozen Standard Sand under Different Principal Stress Directions. <i>Geofluids</i> , 2022, 2022, 1-15.	0.3	0