

# Han-jiang Lai

## List of Publications by Year in descending order

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Version: 2024-02-01

17  
papers

814  
citations

759055

12  
h-index

887953

17  
g-index

17  
all docs

17  
docs citations

17  
times ranked

412  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of cementation level on the strength behaviour of bio-cemented sand. <i>Acta Geotechnica</i> , 2017, 12, 971-986.	2.9	218
2	A simplified method for analysis of a piled embankment reinforced with geosynthetics. <i>Geotextiles and Geomembranes</i> , 2009, 27, 39-52.	2.3	153
3	One-phase-low-pH enzyme-induced carbonate precipitation (EICP) method for soil improvement. <i>Acta Geotechnica</i> , 2021, 16, 481-489.	2.9	94
4	Classification and characteristics of soil arching structures in pile-supported embankments. <i>Computers and Geotechnics</i> , 2018, 98, 153-171.	2.3	69
5	“Soil arching” for piled embankments: insights from stress redistribution behaviour of DEM modelling. <i>Acta Geotechnica</i> , 2020, 15, 2117-2136.	2.9	51
6	Bio-mediated calcium carbonate precipitation and its effect on the shear behaviour of calcareous sand. <i>Acta Geotechnica</i> , 2021, 16, 1377-1389.	2.9	47
7	Retarding effect of concentration of cementation solution on biocementation of soil. <i>Acta Geotechnica</i> , 2021, 16, 1457-1472.	2.9	44
8	Visualization of the formation and features of soil arching within a piled embankment by discrete element method simulation. <i>Journal of Zhejiang University: Science A</i> , 2016, 17, 803-817.	1.3	32
9	Effect of waste rubber particles on the shear behaviour of bio-cemented calcareous sand. <i>Acta Geotechnica</i> , 2021, 16, 1429-1439.	2.9	18
10	Strength behavior of dredged mud slurry treated jointly by cement, flocculant and vacuum preloading. <i>Acta Geotechnica</i> , 2022, 17, 2581-2596.	2.9	15
11	Modified one-phase-low-pH method for bacteria or enzyme-induced carbonate precipitation for soil improvement. <i>Acta Geotechnica</i> , 2022, 17, 2931-2941.	2.9	15
12	Flocculation “solidification” combined method for treatment of hydraulically dredged mud at extra high water content. <i>Acta Geotechnica</i> , 2020, 15, 1685-1698.	2.9	13
13	Comparison of soil improvement methods using crude soybean enzyme, bacterial enzyme or bacteria-induced carbonate precipitation. <i>Geotechnique</i> , 2024, 74, 18-26.	2.2	13
14	Improved Analytical Soil Arching Model for the Design of Piled Embankments. <i>International Journal of Geomechanics</i> , 2021, 21, .	1.3	10
15	Analytical model for two-dimensional electro-osmosis-enhanced preloading consolidation of unsaturated soil. <i>Acta Geotechnica</i> , 2023, 18, 1093-1110.	2.9	9
16	An anionic biopolymer $\gamma$ -polyglutamate enhanced the microbially induced carbonate precipitation for soil improvement: mechanical behaviors and underlying mechanism. <i>Acta Geotechnica</i> , 2022, 17, 4485-4496.	2.9	8
17	Reasonable application range of flocculation “solidification” combined method in treatment of hydraulically dredged mud slurry. <i>Marine Georesources and Geotechnology</i> , 2022, 40, 370-382.	1.2	5