

Yaolin Yi

List of Publications by Year in descending order

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81
papers

2,608
citations

147726

31
h-index

197736

49
g-index

81
all docs

81
docs citations

81
times ranked

1163
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructural and mechanical properties of marine soft clay stabilized by lime-activated ground granulated blastfurnace slag. <i>Applied Clay Science</i> , 2015, 103, 71-76.	2.6	157
2	Field Investigations on Performance of T-Shaped Deep Mixed Soil Cement Columnâ€“Supported Embankments over Soft Ground. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012, 138, 718-727.	1.5	129
3	Properties of Two Model Soils Stabilized with Different Blends and Contents of GGBS, MgO, Lime, and PC. <i>Journal of Materials in Civil Engineering</i> , 2014, 26, 267-274.	1.3	119
4	Comparison of reactive magnesia, quick lime, and ordinary Portland cement for stabilization/solidification of heavy metal-contaminated soils. <i>Science of the Total Environment</i> , 2019, 671, 741-753.	3.9	119
5	Carbonating magnesia for soil stabilization. <i>Canadian Geotechnical Journal</i> , 2013, 50, 899-905.	1.4	100
6	Alkali-Activated Ground-Granulated Blast Furnace Slag for Stabilization of Marine Soft Clay. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	97
7	Comparison of reactive magnesia- and carbide slag-activated ground granulated blastfurnace slag and Portland cement for stabilisation of a natural soil. <i>Applied Clay Science</i> , 2015, 111, 21-26.	2.6	94
8	Use of carbide slag from acetylene industry for activation of ground granulated blast-furnace slag. <i>Construction and Building Materials</i> , 2020, 238, 117713.	3.2	89
9	Properties and microstructure of GGBSâ€“magnesia pastes. <i>Advances in Cement Research</i> , 2014, 26, 114-122.	0.7	88
10	Mechanism of reactive magnesia â€“ ground granulated blastfurnace slag (GGBS) soil stabilization. <i>Canadian Geotechnical Journal</i> , 2016, 53, 773-782.	1.4	87
11	Cementâ€“fly ash stabilisation/solidification of contaminated soil: Performance properties and initiation of operating envelopes. <i>Applied Geochemistry</i> , 2013, 33, 64-75.	1.4	76
12	Resistance of MgOâ€“GGBS and CSâ€“GGBS stabilised marine soft clays to sodium sulfate attack. <i>Geotechnique</i> , 2014, 64, 673-679.	2.2	65
13	Magnesia reactivity on activating efficacy for ground granulated blastfurnace slag for soft clay stabilisation. <i>Applied Clay Science</i> , 2016, 126, 57-62.	2.6	64
14	pH-dependent leaching behaviour and other performance properties of cement-treated mixed contaminated soil. <i>Journal of Environmental Sciences</i> , 2012, 24, 1630-1638.	3.2	61
15	Carbide slagâ€“activated ground granulated blastfurnace slag for soft clay stabilization. <i>Canadian Geotechnical Journal</i> , 2015, 52, 656-663.	1.4	60
16	Property changes of reactive magnesiaâ€“stabilized soil subjected to forced carbonation. <i>Canadian Geotechnical Journal</i> , 2016, 53, 314-325.	1.4	60
17	Biochar and hydrochar derived from freshwater sludge: Characterization and possible applications. <i>Science of the Total Environment</i> , 2021, 763, 144550.	3.9	49
18	Magnesium sulfate attack on clays stabilised by carbide slag- and magnesia-ground granulated blast furnace slag. <i>Geotechnique Letters</i> , 2015, 5, 306-312.	0.6	48

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19	Fragility analysis of continuous pipelines subjected to transverse permanent ground deformation. <i>Soils and Foundations</i> , 2018, 58, 1400-1413.	1.3	48
20	Bearing capacity of composite foundation consisting of T-shaped soil-cement column and soft clay. <i>Transportation Geotechnics</i> , 2018, 15, 47-56.	2.0	46
21	Soft clay stabilization using ladle slag-ground granulated blastfurnace slag blend. <i>Applied Clay Science</i> , 2019, 178, 105136.	2.6	45
22	Stabilization/solidification of lead- and zinc-contaminated soils using MgO and CO ₂ . <i>Journal of CO₂ Utilization</i> , 2019, 33, 215-221.	3.3	45
23	Vertical bearing capacity behaviour of single T-shaped soil-cement column in soft ground: laboratory modelling, field test, and calculation. <i>Acta Geotechnica</i> , 2017, 12, 1077-1088.	2.9	44
24	Process envelopes for stabilisation/solidification of contaminated soil using lime-slag blend. <i>Environmental Science and Pollution Research</i> , 2011, 18, 1286-1296.	2.7	42
25	Preliminary Laboratory-Scale Model Auger Installation and Testing of Carbonated Soil-MgO Columns. <i>Geotechnical Testing Journal</i> , 2013, 36, 384-393.	0.5	42
26	Numerical study of earth pressures on rigid pipes with tire-derived aggregate inclusions. <i>Geosynthetics International</i> , 2018, 25, 494-506.	1.5	38
27	General solutions for the longitudinal deformation of shield tunnels with multiple discontinuities in strata. <i>Tunnelling and Underground Space Technology</i> , 2021, 107, 103652.	3.0	37
28	Use of ladle furnace slag containing heavy metals as a binding material in civil engineering. <i>Science of the Total Environment</i> , 2020, 705, 135854.	3.9	36
29	Suppressing Ettringite-Induced Swelling of Gypseous Soil by Using Magnesia-Activated Ground Granulated Blast-Furnace Slag. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020, 146, .	1.5	35
30	Acid washing of incineration bottom ash of municipal solid waste: Effects of pH on removal and leaching of heavy metals. <i>Waste Management</i> , 2021, 120, 183-192.	3.7	35
31	Laboratory modelling of T-shaped soil-cement column for soft ground treatment under embankment. <i>Geotechnique</i> , 2016, 66, 85-89.	2.2	34
32	pH evolution during water washing of incineration bottom ash and its effect on removal of heavy metals. <i>Waste Management</i> , 2020, 104, 213-219.	3.7	32
33	Use of tire-derived aggregate for seismic mitigation of buried pipelines under strike-slip faults. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 115, 495-506.	1.9	31
34	On the compressibility of tire-derived aggregate: comparison of results from laboratory and field tests. <i>Canadian Geotechnical Journal</i> , 2015, 52, 442-458.	1.4	28
35	Utilization of carbide slag-activated ground granulated blastfurnace slag to treat gypseous soil. <i>Soils and Foundations</i> , 2019, 59, 1496-1507.	1.3	28
36	Heat of hydration, bleeding, viscosity, setting of Ca(OH) ₂ -GGBS and MgO-GGBS grouts. <i>Construction and Building Materials</i> , 2021, 270, 121839.	3.2	27

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37	Comparison between CaO- and MgO-activated ground granulated blast-furnace slag (GGBS) for stabilization/solidification of Zn-contaminated clay slurry. <i>Chemosphere</i> , 2022, 286, 131860.	4.2	26
38	Carbonating MgO for treatment of manganese- and cadmium-contaminated soils. <i>Chemosphere</i> , 2021, 263, 128311.	4.2	22
39	Comparing carbide sludge-ground granulated blastfurnace slag and ordinary Portland cement: Different findings from binder paste and stabilized clay slurry. <i>Construction and Building Materials</i> , 2022, 321, 126382.	3.2	22
40	Initial Investigation into the Use of GGBS-MgO in Soil Stabilisation. , 2012, , .		21
41	Soft Clay Stabilization Using Three Industry Byproducts. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	21
42	Variable-diameter deep mixing column for multi-layered soft ground improvement: Laboratory modeling and field application. <i>Soils and Foundations</i> , 2019, 59, 633-643.	1.3	20
43	Clogging potential of tunnel boring machine (TBM): a review. <i>International Journal of Geotechnical Engineering</i> , 2018, 12, 316-323.	1.1	19
44	Bearing capacity of composite ground with soil-cement columns under earth fills: Physical and numerical modeling. <i>Soils and Foundations</i> , 2019, 59, 2206-2219.	1.3	17
45	Treatment of ladle furnace slag by carbonation: Carbon dioxide sequestration, heavy metal immobilization, and strength enhancement. <i>Chemosphere</i> , 2022, 287, 132274.	4.2	15
46	Finite-Element Analysis of Highway Embankment Made from Tire-Derived Aggregate. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	1.3	12
47	Performance evaluation of TBM clogging potential for plain and conditioning soil using a newly developed laboratory apparatus. <i>International Journal of Geotechnical Engineering</i> , 2020, 14, 463-472.	1.1	12
48	Triaxial strength behavior of carbide sludge (CS)â€™ground-granulated blastfurnace slag (GGBS)-treated clay slurry. <i>Acta Geotechnica</i> , 2022, 17, 5585-5596.	2.9	12
49	Assessment of the clogging potential of two clays. <i>Applied Clay Science</i> , 2019, 178, 105134.	2.6	11
50	Utilization of incineration bottom ash, waste marine clay, and ground granulated blast-furnace slag as a construction material. <i>Resources, Conservation and Recycling</i> , 2022, 182, 106292.	5.3	11
51	Characterization and comparison of gasification and incineration fly ashes generated from municipal solid waste in Singapore. <i>Waste Management</i> , 2022, 146, 44-52.	3.7	9
52	Carbonation of municipal solid waste gasification fly ash: Effects of pre-washing and treatment period on carbon capture and heavy metal immobilization. <i>Environmental Pollution</i> , 2022, 308, 119662.	3.7	9
53	Estimation of Maximum Annular Pressure during HDD in Noncohesive Soils. <i>International Journal of Geomechanics</i> , 2017, 17, .	1.3	8
54	Cement soil stabilization for underground liquid natural gas storage. <i>Cold Regions Science and Technology</i> , 2022, 194, 103438.	1.6	8

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55	Carbonation treatment of gasification fly ash from municipal solid waste using sodium carbonate and sodium bicarbonate solutions. <i>Environmental Pollution</i> , 2022, 299, 118906.	3.7	8
56	Performance Evaluation of Highway Embankment Constructed from Tire-Derived Aggregate Using Falling Weight Deflectometer Tests. <i>Transportation Infrastructure Geotechnology</i> , 2016, 3, 128-142.	1.9	7
57	General Method for Pullback Force Estimation for Polyethylene Pipes in Horizontal Directional Drilling. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2016, 7, 04016004.	0.9	7
58	Mechanical properties of clayey soil relevant for clogging potential. <i>International Journal of Geotechnical Engineering</i> , 2017, , 1-8.	1.1	7
59	Geotechnical and geoenvironmental engineering education during the pandemic. <i>Environmental Geotechnics</i> , 2021, 8, 233-243.	1.3	7
60	Fluidic Drag Estimation in Horizontal Directional Drilling Based on Flow Equations. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2015, 6, 04015006.	0.9	6
61	Bearing capacity optimization of T-shaped soil-cement column-improved soft ground under soft fill. <i>Soils and Foundations</i> , 2021, 61, 416-428.	1.3	6
62	Effect of water/cement ratio on properties of cement-stabilized Singapore soft marine clay for wet deep mixing application. <i>International Journal of Geotechnical Engineering</i> , 0, , 1-8.	1.1	5
63	The role of freshwater sludge and its carbonaceous derivatives in the removal of lead, phosphorus and antibiotic enrofloxacin: Sorption characteristics and performance. <i>Chemosphere</i> , 2022, 290, 133298.	4.2	5
64	Stabilization and Solidification of Fine Incineration Bottom Ash of Municipal Solid Waste Using Ground Granulated Blast-Furnace Slag. <i>Journal of Materials in Civil Engineering</i> , 2022, 34, .	1.3	5
65	Predicting Soil Expansion Force during Static Pipe Bursting Using Cavity Expansion Solutions. <i>International Journal of Geomechanics</i> , 2016, 16, 04015075.	1.3	4
66	Amending excavated soft marine clay with fine incineration bottom ash as a fill material for construction of transportation infrastructure. <i>Transportation Geotechnics</i> , 2022, 35, 100796.	2.0	4
67	Predicting the plan annular pressure using the power law flow model in horizontal directional drilling. <i>Canadian Journal of Civil Engineering</i> , 2016, 43, 252-259.	0.7	3
68	Comparison of different methods for normal stress calculation during pipe jacking/microtunneling. <i>International Journal of Geotechnical Engineering</i> , 2016, 10, 366-376.	1.1	3
69	Estimation of Hydrokinetic Pressure and Fluidic Drag Changes during Pipe Installations via HDD Based on Identifying Slurry-Flow Pattern Change within a Borehole. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2017, 8, 04017020.	0.9	3
70	Predicting one-dimensional compression of tire derived aggregate using a simple method. <i>Soils and Foundations</i> , 2019, 59, 1292-1301.	1.3	3
71	Numerical Investigation of T-Shaped Soil-Cement Column Supported Embankment Over Soft Ground. <i>Springer Series in Geomechanics and Geoengineering</i> , 2018, , 1068-1071.	0.0	3
72	Treating Pb-contaminated clay slurry by three curing agents. <i>Chemosphere</i> , 2022, 303, 135011.	4.2	3

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73	Efficient drilling in horizontal directional drilling by implementing the concept of specific energy. <i>Geomechanics and Geoengineering</i> , 2017, 12, 201-206.	0.9	2
74	Estimation of Soil Expansion Force in Static Pipe Bursting: Comparison between Numerical and Analytical Solutions. <i>International Journal of Geomechanics</i> , 2017, 17, .	1.3	2
75	Simple methods for fluidic drag estimation during pipe installation via HDD. <i>Tunnelling and Underground Space Technology</i> , 2018, 76, 172-176.	3.0	2
76	Case Study of Pipeline Installation Using a Modified Guided Boring Method. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2016, 7, 05016002.	0.9	1
77	Jacking Force Analysis of Pipe Installation Using a Modified Guided Boring Method. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2017, 8, 04017014.	0.9	1
78	Numerical Modeling of the Annular Failure Pressure during HDD in Noncohesive Soils. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2020, 11, 04020004.	0.9	1
79	Subsurface profiling using horizontal drilling indices for guided boring method. <i>International Journal of Geotechnical Engineering</i> , 2018, 12, 155-165.	1.1	0
80	Stabilization of Marine Soft Clay with Two Industry By-products. , 2018, , 121-128.		0
81	Closure to "Suppressing Ettringite-Induced Swelling of Gypseous Soil by Using Magnesia-Activated Ground Granulated Blast-Furnace Slag" by Wentao Li, Yaolin Yi, and Anand J. Puppala. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	1.5	0