List of Publications by Year in descending order

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SHILIN FENC

#	Article	IF	CITATIONS
1	Field study on the reinforcement of collapsible loess using dynamic compaction. Engineering Geology, 2015, 185, 105-115.	6.3	109
2	Geotechnical properties of municipal solid waste at Laogang Landfill, China. Waste Management, 2017, 63, 354-365.	7.4	89
3	In situ experimental study on high speed train induced ground vibrations with the ballast-less track. Soil Dynamics and Earthquake Engineering, 2017, 102, 195-214.	3.8	58
4	Slope stability of landfills considering leachate recirculation using vertical wells. Engineering Geology, 2018, 241, 76-85.	6.3	55
5	Simulation of interactions between debris flow and check dams on three-dimensional terrain. Engineering Geology, 2019, 251, 48-62.	6.3	55
6	Densification of desert sands by high energy dynamic compaction. Engineering Geology, 2013, 157, 48-54.	6.3	50
7	Application of advanced techniques for the assessment of bio-stability of biowaste-derived residues: A minireview. Bioresource Technology, 2018, 248, 122-133.	9.6	44
8	Simulation and mitigation analysis of ground vibrations induced by high-speed train with three dimensional FEM. Soil Dynamics and Earthquake Engineering, 2017, 94, 204-214.	3.8	42
9	Analytical Model for Degradable Organic Contaminant Transport through a GMB/GCL/AL System. Journal of Environmental Engineering, ASCE, 2018, 144, .	1.4	42
10	An analytical model for volatile organic compound transport through a composite liner consisting of a geomembrane, a GCL, and a soil liner. Environmental Science and Pollution Research, 2015, 22, 2824-2836.	5.3	37
11	Analysis of sand – woven geotextile interface shear behavior using discrete element method (DEM). Canadian Geotechnical Journal, 2020, 57, 433-447.	2.8	37
12	Field Evaluation of Dynamic Compaction on Granular Deposits. Journal of Performance of Constructed Facilities, 2011, 25, 241-249.	2.0	36
13	Field studies of the effectiveness of dynamic compaction in coastal reclamation areas. Bulletin of Engineering Geology and the Environment, 2010, 69, 129-136.	3.5	35
14	An analytical model for contaminant transport in landfill composite liners considering coupled effect of consolidation, diffusion, and degradation. Environmental Science and Pollution Research, 2016, 23, 19362-19375.	5.3	32
15	Analytical model for vapour-phase VOCs transport in four-layered landfill composite cover systems. Computers and Geotechnics, 2018, 101, 80-94.	4.7	32
16	A finite-volume numerical model for bio-hydro-mechanical behaviors of municipal solid waste in landfills. Computers and Geotechnics, 2019, 109, 204-219.	4.7	32
17	Study on dealkalization and settling performance of red mud. Environmental Science and Pollution Research, 2017, 24, 1794-1802.	5.3	31
18	Transient analytical solution for one-dimensional transport of organic contaminants through GM/GCL/SL composite liner. Science of the Total Environment, 2019, 650, 479-492.	8.0	31

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19	Micro-mechanical analysis of geomembrane-sand interactions using DEM. Computers and Geotechnics, 2018, 94, 58-71.	4.7	30
20	Leachate leakage investigation, assessment and engineering countermeasures for tunneling underneath a MSW landfill. Engineering Geology, 2020, 265, 105447.	6.3	30
21	Experimental and numerical study of internal erosion around submerged defective pipe. Tunnelling and Underground Space Technology, 2020, 97, 103256.	6.2	30
22	Unsaturated flow parameters of municipal solid waste. Waste Management, 2017, 63, 107-121.	7.4	28
23	The use of electrical resistivity tomography and borehole to characterize leachate distribution in Laogang landfill, China. Environmental Science and Pollution Research, 2017, 24, 20811-20817.	5.3	28
24	Failure of a Retaining Structure in a Metro Station Excavation in Nanchang City, China. Journal of Performance of Constructed Facilities, 2016, 30, .	2.0	27
25	Three-dimensional modelling of coupled leachate and gas flow in bioreactor landfills. Computers and Geotechnics, 2017, 84, 138-151.	4.7	27
26	Membrane effect of geosynthetic reinforcement subjected to localized sinkholes. Canadian Geotechnical Journal, 2018, 55, 1334-1348.	2.8	27
27	Numerical modeling of interactions between a flow slide and buildings considering the destruction process. Landslides, 2019, 16, 1903-1919.	5.4	27
28	Centrifuge modeling of preloading consolidation and dynamic compaction in treating dredged soil. Engineering Geology, 2017, 226, 161-171.	6.3	26
29	Field Investigations of Two Super-long Steel Pipe Piles in Offshore Areas. Marine Georesources and Geotechnology, 2016, 34, 559-570.	2.1	25
30	Estimation of arching effect in geosynthetic-reinforced structures. Computers and Geotechnics, 2017, 87, 188-197.	4.7	25
31	Fully transient analytical solution for degradable organic contaminant transport through GMB/GCL/AL composite liners. Geotextiles and Geomembranes, 2019, 47, 282-294.	4.6	25
32	A model for gas pressure in layered landfills with horizontal gas collection systems. Computers and Geotechnics, 2015, 68, 117-127.	4.7	24
33	Constitutive model for municipal solid waste considering the effect of biodegradation. Geotechnique Letters, 2016, 6, 244-249.	1.2	24
34	Failure of an unfilled landfill cell due to an adjacent steep slope and a high groundwater level: A case study. Engineering Geology, 2019, 262, 105320.	6.3	23
35	A two-dimensional analytical model for organic contaminants transport in a transition layer-cutoff wall-aquifer system. Computers and Geotechnics, 2020, 128, 103816.	4.7	23
36	Comprehensive overview of numerical modeling of coupled landfill processes. Waste Management, 2020, 118, 161-179.	7.4	23

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37	Coupled bio-hydro-thermo-mechanical interactions of landfilled MSW based on a multi-phase, multi-component numerical model. Computers and Geotechnics, 2022, 144, 104659.	4.7	23
38	Numerical analysis of earthquake-induced deformation of liner system of typical canyon landfill. Soil Dynamics and Earthquake Engineering, 2019, 116, 96-106.	3.8	22
39	Densification of loosely deposited soft soils using the combined consolidation method. Engineering Geology, 2014, 181, 169-179.	6.3	21
40	An analytical method for predicting load acting on geosynthetic overlying voids. Geotextiles and Geomembranes, 2017, 45, 570-579.	4.6	21
41	Seismic analysis of landfill considering the effect of GM-GCL interface within liner. Soil Dynamics and Earthquake Engineering, 2018, 107, 152-163.	3.8	21
42	A two-dimensional gas flow model for layered municipal solid waste landfills. Computers and Geotechnics, 2015, 63, 135-145.	4.7	20
43	Effect of LCRS clogging on leachate recirculation and landfill slope stability. Environmental Science and Pollution Research, 2020, 27, 6649-6658.	5.3	20
44	A two-dimensional analytical solution for organic contaminant diffusion through a composite geomembrane cut-off wall and an aquifer. Computers and Geotechnics, 2020, 119, 103361.	4.7	20
45	A multi-phase, multi-component model for coupled processes in anaerobic landfills: theory, implementation and validation. Geotechnique, 2021, 71, 826-842.	4.0	20
46	Effects of ecohydrological interfaces on migrations and transformations of pollutants: A critical review. Science of the Total Environment, 2022, 804, 150140.	8.0	20
47	Steady-state analytical models for performance assessment of landfill composite liners. Environmental Science and Pollution Research, 2015, 22, 12198-12214.	5.3	19
48	Reflection and transmission of plane waves at an interface of water/multilayered porous sediment overlying solid substrate. Ocean Engineering, 2016, 126, 217-231.	4.3	19
49	An analytical model for chemical diffusion in layered contaminated sediment systems with bioreactive caps. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 2471-2490.	3.3	19
50	Recovery response of vertical gas wells in non-homogeneous landfills. Waste Management, 2019, 83, 33-45.	7.4	19
51	Analytical model for organic contaminant transport through GMB/CCL composite liner with finite thickness considering adsorption, diffusion and thermodiffusion. Waste Management, 2021, 120, 448-458.	7.4	19
52	Seismic analysis for translational failure of landfills with retaining walls. Waste Management, 2010, 30, 2065-2073.	7.4	18
53	Elimination of loess collapsibility with application to construction and demolition waste during dynamic compaction. Environmental Earth Sciences, 2015, 73, 5317-5332.	2.7	18
54	Microscale investigation into mechanical behaviors of heat-bonded nonwoven geotextile using DEM. Geotextiles and Geomembranes, 2019, 47, 429-438.	4.6	18

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55	Leachate recirculation in bioreactor landfills considering the effect of MSW settlement on hydraulic properties. Environmental Earth Sciences, 2014, 72, 2315-2323.	2.7	16
56	Two-dimensional analytical solution for VOC vapor migration through layered soil laterally away from the edge of contaminant source. Journal of Contaminant Hydrology, 2020, 233, 103664.	3.3	16
57	A two-dimensional analytical model for contaminant transport in a finite domain subjected to multiple arbitrary time-dependent point injection sources. Journal of Hydrology, 2021, 597, 126318.	5.4	16
58	Seismic stability analyses for landfill cover systems under different seepage buildup conditions. Environmental Earth Sciences, 2012, 66, 381-391.	2.7	15
59	Modeling of leachate recirculation using vertical wells in bioreactor landfills. Environmental Science and Pollution Research, 2015, 22, 9067-9079.	5.3	15
60	Dynamic Compaction of Ultra-High Energy in Combination with Ground Replacement in Coastal Reclamation Areas. Marine Georesources and Geotechnology, 2015, 33, 109-121.	2.1	15
61	A coupled hydro-mechanical-biodegradation model for municipal solid waste in leachate recirculation. Waste Management, 2019, 98, 81-91.	7.4	15
62	Analytical Model for Multicomponent Landfill Gas Migration through Four-Layer Landfill Biocover with Capillary Barrier. International Journal of Geomechanics, 2020, 20, .	2.7	15
63	Modeling of Leachate Recirculation Using Spraying–Vertical Well Systems in Bioreactor Landfills. International Journal of Geomechanics, 2017, 17, .	2.7	14
64	Random vibration of train-track-ground system with a poroelastic interlayer in the subsoil. Soil Dynamics and Earthquake Engineering, 2019, 120, 1-11.	3.8	14
65	Back analysis of surrounding rock parameters of tunnel considering displacement loss and space effect. Bulletin of Engineering Geology and the Environment, 2021, 80, 5675-5692.	3.5	14
66	The distribution, behavior, and release of macro- and micro-size plastic wastes in solid waste disposal sites. Critical Reviews in Environmental Science and Technology, 2023, 53, 366-389.	12.8	14
67	Leachate recirculation in bioreactor landfills considering the stratification of MSW permeability. Environmental Earth Sciences, 2015, 73, 3349-3359.	2.7	13
68	Threeâ€dimensional dynamic response of ground with a poroviscoelastic interlayer to a harmonic moving rectangular load. International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41, 1055-1076.	3.3	13
69	A gas flow model for layered landfills with vertical extraction wells. Waste Management, 2017, 66, 103-113.	7.4	13
70	Extended stiffness matrix method for horizontal vibration of a rigid disk embedded in stratified soils. Applied Mathematical Modelling, 2020, 77, 663-689.	4.2	13
71	Field tests of micro screw anchor piles under different loading conditions at three soil sites. Bulletin of Engineering Geology and the Environment, 2021, 80, 127-144.	3.5	13
72	An analytical solution for organic pollutant diffusion in a triple-layer composite liner considering the coupling influence of thermal diffusion. Computers and Geotechnics, 2021, 137, 104283.	4.7	13

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73	Analytical model for degradable contaminant transport through a cutoff wall-aquifer system under time-dependent point source pollution. Computers and Geotechnics, 2022, 143, 104627.	4.7	13
74	Effect of polyanionic cellulose modification on properties and microstructure of calcium bentonite. Applied Clay Science, 2022, 228, 106633.	5.2	13
75	3D analysis of in-filled trench as passive barriers for ground vibration isolation. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 1573-1585.	0.2	12
76	Repeated shear behaviors of geotextile/geomembrane and geomembrane/clay interfaces. Environmental Earth Sciences, 2016, 75, 1.	2.7	12
77	An analytical model for one-dimensional diffusion of degradable contaminant through a composite geomembrane cut-off wall. Journal of Contaminant Hydrology, 2021, 242, 103845.	3.3	12
78	Deformation analysis of a geosynthetic material subjected to two adjacent voids. Geotextiles and Geomembranes, 2015, 43, 317-331.	4.6	11
79	Dynamic shear behaviors of textured geomembrane/nonwoven geotextile interface under cyclic loading. Geotextiles and Geomembranes, 2021, 49, 388-398.	4.6	11
80	Application of High Energy Dynamic Compaction in Coastal Reclamation Areas. Marine Georesources and Geotechnology, 2010, 28, 130-142.	2.1	10
81	An analytical model for vaporâ€phase volatile organic compound diffusion through landfill composite covers. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 1827-1843.	3.3	10
82	Stability analysis of landfill cover systems considering reinforcement. Environmental Earth Sciences, 2016, 75, 1.	2.7	10
83	Dynamic response of a stratified transversely isotropic half-space with a poroelastic interlayer due to a buried moving source. Applied Mathematical Modelling, 2020, 82, 45-71.	4.2	10
84	Response of railway track coupled with a stratified ground consisting of saturated interlayer to high-speed moving train load. Soil Dynamics and Earthquake Engineering, 2017, 102, 25-40.	3.8	9
85	Reproducing micro X-ray computed tomography (microXCT) observations of air–water distribution in porous media using revised pore-morphology method. Canadian Geotechnical Journal, 2020, 57, 149-156.	2.8	9
86	Shear strength and failure mechanism of needle-punched geosynthetic clay liner. Geotextiles and Geomembranes, 2020, 48, 962-972.	4.6	9
87	Effects of water table on ground-borne vibration screening effectiveness by using open trenches. Soil Dynamics and Earthquake Engineering, 2020, 131, 106031.	3.8	9
88	Transient migration behavior of VOC vapor in layered unsaturated soils subjected to multiple time-dependent point pollution sources: Analytical study. Science of the Total Environment, 2022, 806, 150370.	8.0	9
89	Balance Between Cover Resistance and Pump Capacity for Designing Vertical Gas Wells. Environmental Science and Engineering, 2019, , 60-67.	0.2	9
90	Slope stability analysis of a landfill subjected to leachate recirculation and aeration considering bio-hydro coupled processes. Geoenvironmental Disasters, 2021, 8, .	3.6	9

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91	A dual-permeability hydro-biodegradation model for leachate recirculation and settlement in bioreactor landfills. Environmental Science and Pollution Research, 2018, 25, 14614-14625.	5.3	8
92	Numerical analysis of buried trench in screening surface vibration. Soil Dynamics and Earthquake Engineering, 2019, 126, 105822.	3.8	8
93	Response of pavement and stratified ground due to vehicle loads considering rise of water table. International Journal of Pavement Engineering, 2019, 20, 191-203.	4.4	8
94	Enhanced delivery of amendments in fractured clay sites based on multi-point injection: An analytical study. Chemosphere, 2022, 297, 134086.	8.2	8
95	Three-dimensional modelling of leachate recirculation using vertical wells in bioreactor landfills. Waste Management and Research, 2016, 34, 1307-1315.	3.9	7
96	Effects of multilayered porous sediment on earthquake-induced hydrodynamic response in reservoir. Soil Dynamics and Earthquake Engineering, 2017, 94, 47-59.	3.8	7
97	CFD Modeling of Anaerobic–Aerobic Hybrid Bioreactor Landfills. International Journal of Geomechanics, 2018, 18, .	2.7	7
98	Design of horizontal landfill gas collection wells in non-homogeneous landfills. Waste Management, 2019, 98, 102-112.	7.4	7
99	Numerical model of aerobic bioreactor landfill considering aerobic-anaerobic condition and bio-stable zone development. Environmental Science and Pollution Research, 2019, 26, 15229-15247.	5.3	7
100	Non-linear elastic model for MSW considering dilatancy effect. Environmental Geotechnics, 2019, 6, 125-136.	2.3	7
101	Cyclic shear behavior of GMB/GCL composite liner. Geotextiles and Geomembranes, 2021, 49, 593-603.	4.6	7
102	Stability Analysis and Control Measures of a Sanitary Landfill with High Leachate Level. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	3.0	7
103	Amplification effect of cascading breach discharge of landslide dams. Landslides, 2022, 19, 573-587.	5.4	7
104	Modeling of leachate recirculation using combined drainage blanket–horizontal trench systems in bioreactor landfills. Waste Management and Research, 2017, 35, 1072-1083.	3.9	6
105	A systematic and efficient method for modeling acoustic response of multilayered media. Journal of Applied Physics, 2017, 122, .	2.5	6
106	Wave and current-induced dynamic response in a multilayered poroelastic seabed. Bulletin of Engineering Geology and the Environment, 2020, 79, 11-26.	3.5	6
107	Experimental Investigation on the Shear Strength of GM/CCL Composite Liner Interface Due to Monotonic Loading. Environmental Geotechnics, 2020, , 1-14.	2.3	6
108	Design method of a modified layered aerobic waste landfill divided by coarse material. Environmental Science and Pollution Research, 2021, 28, 2182-2197.	5.3	6

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109	Two-dimensional analytical solution for subsurface volatile organic compounds vapor diffusion from a point source in layered unsaturated zone. Journal of Contaminant Hydrology, 2021, 243, 103916.	3.3	6
110	Investigating the roles of advection and degradation in chlorinated solvent back-diffusion from multi-layer aquitards: A novel analytical approach. Journal of Hazardous Materials, 2022, 437, 129410.	12.4	6
111	CFD modeling of hydro-biochemical behavior of MSW subjected to leachate recirculation. Environmental Science and Pollution Research, 2018, 25, 5631-5642.	5.3	5
112	Design of vertical landfill gas collection wells considering non-homogeneity with depth. Waste Management, 2018, 82, 26-36.	7.4	5
113	A constitutive model for municipal solid waste incorporating bounding surface plasticity and reinforcing effect. Computers and Geotechnics, 2020, 123, 103592.	4.7	5
114	A review on new ammonium oxidation alternatives for effective nitrogen removal from wastewater. Journal of Chemical Technology and Biotechnology, 2022, 97, 1917-1928.	3.2	5
115	Seismic response and permanent displacement of landfills with liner interfaces and various foundation types. Environmental Earth Sciences, 2015, 74, 4853-4863.	2.7	4
116	Transport behavior of nZnO in geosynthetic clay liner used in municipal solid waste landfills under temperature effect. Environmental Earth Sciences, 2018, 77, 1.	2.7	4
117	A finite-volume numerical model for temporal and spatial variability of methane oxidation in landfill covers. Computers and Geotechnics, 2020, 122, 103510.	4.7	4
118	Vertical-rocking-horizontal vibrations of a rigid disk resting on multi-layered soils with groundwater level. Applied Mathematical Modelling, 2021, 89, 1491-1516.	4.2	4
119	Multi-functional direct shear apparatus for geosynthetic interfaces with its application on various GMB/GCL interfaces. Acta Geotechnica, 2022, 17, 993-1008.	5.7	4
120	DEM simulation of geotextile-geomembrane interface direct shear test considering the interlocking and wearing processes. Computers and Geotechnics, 2022, 148, 104805.	4.7	4
121	Axisymmetric gas flow model for bioreactor landfills incorporating MSW compression and leachate recirculation. Environmental Earth Sciences, 2016, 75, 1.	2.7	3
122	Stability of railway embankment of China under extreme storms. Environmental Geotechnics, 0, , 1-15.	2.3	3
123	Moving load response of an axially loaded Timoshenko beam on a multilayered transversely isotropic halfâ€space comprising different media. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 2501-2523.	3.3	3
124	Dynamic shear behavior of GMB/CCL interface under cyclic loading. Geotextiles and Geomembranes, 2021, 49, 657-668.	4.6	3
125	Experimental study of the shear behaviour of a multilayer geosynthetic liner system. Geosynthetics International, 2021, 28, 634-646.	2.9	3
126	Modeling of multifield coupling interactions in an aerobic landfill based on the finite volume method. Computers and Geotechnics, 2022, 146, 104704.	4.7	3

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127	Estimation of maximum saturated depth in two-layered drainage blankets over the barrier in landfill cover system. Environmental Earth Sciences, 2013, 70, 2907-2917.	2.7	2
128	Efficient Method to Model the Consolidation of Multilayered Soil System with Horizontal Drainage Pipes. International Journal of Geomechanics, 2020, 20, .	2.7	2
129	Control and estimation of maximum gas pressure below landfill cover with horizontal gas wells: Analytical study. Waste Management, 2020, 114, 33-42.	7.4	2
130	Analytical solution to consolidation of accreting soil considering step load and horizontal drainage layers. Marine Georesources and Geotechnology, 2021, 39, 889-905.	2.1	2
131	Numerical Investigation of Ground-Borne Vibration Mitigation by Infilled Trenches in a Poroelastic Half-Space Considering the Moving Water Table. International Journal of Geomechanics, 2021, 21, .	2.7	2
132	A double-phase constitutive model for municipal solid waste with a fiber pullout criterion to evaluate the softening behavior. Computers and Geotechnics, 2022, 150, 104901.	4.7	2
133	Multiscale modeling for analyzing slip weakening at material interfaces. Computers and Geotechnics, 2020, 118, 103348.	4.7	1
134	Effect of coupling hydro-mechanical–biodegradation process on the slope stability of a bioreactor landfill. Japanese Geotechnical Society Special Publication, 2021, 9, 169-174.	0.2	1
135	Experimental Study of Shear Strength of Geosynthetic Clay Liner for Monotonic Loading. Environmental Science and Engineering, 2019, , 641-648.	0.2	1
136	Field test research and design of a new heliostat support structure in coarse gravel. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2023, 176, 470-485.	1.6	1
137	Approximate analytical model for transient transport and oxygen-limited biodegradation of vapor-phase petroleum hydrocarbon compound in soil. Chemosphere, 2022, , 134522.	8.2	1
138	Three-Dimensional Seismic Stability Analysis and Permanent Displacement of MSW Landfills. , 2014, , .		0
139	Risk Assessment of Debris Flows along a Road Considering Redistribution of Elements at Risk. , 2017, , .		0
140	Reply to the discussion by Wu X. on "An analytical model for chemical diffusion in layered contaminated sediment― International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 2527-2529.	3.3	0
141	A constitutive model for geosynthetic interfaces considering nonlinear softening behavior. Computers and Geotechnics, 2022, 143, 104633.	4.7	0