

# Experimental investigations on suffusion characteristics on saturated cohesionless soil

Soils and Foundations

54, 713-730

DOI: [10.1016/j.sandf.2014.06.024](https://doi.org/10.1016/j.sandf.2014.06.024)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Optical quantification of suffusion in plane strain physical models. <i>Geotechnique Letters</i> , 2015, 5, 118-122.	1.2	13
2	Discussion: On the distinct phenomena of suffusion and suffusion. <i>Geotechnique Letters</i> , 2015, 5, 129-130.	1.2	3
3	NUMERICAL AND PHYSICAL MODELLING OF SEEPAGE-INDUCED INTERNAL EROSION AROUND PERMEABLE SHEET PILE. <i>Journal of Japan Society of Civil Engineers Ser A2 (Applied Mechanics (AM))</i> , 2015, 71, 1_419-1_427.	0.1	0
4	Effects of redeposition of fines on seepage-induced fines transport in embankments. <i>Japanese Geotechnical Journal</i> , 2015, 10, 473-488.	0.1	2
5	Suffusion-induced change in spatial distribution of fine fractions in embankment subjected to seepage flow. <i>Soils and Foundations</i> , 2015, 55, 1293-1304.	3.1	33
6	Suffusion-induced change in spatial distribution of fine fraction in embankment subjected to steady and unsteady seepage flow. <i>Japanese Geotechnical Society Special Publication</i> , 2016, 2, 1708-1713.	0.2	1
7	NUMERICAL SIMULATION OF INTERNAL EROSION BY MULTIPHASE COUPLED ANALYSIS METHOD. <i>Journal of Japan Society of Civil Engineers Ser A2 (Applied Mechanics (AM))</i> , 2016, 72, 1_75-1_86.	0.1	3
8	Influence of initial fines content on fabric of soils subjected to internal erosion. <i>Canadian Geotechnical Journal</i> , 2016, 53, 299-313.	2.8	59
9	Microscale Analysis of the Effect of Suffusion on Soil Mechanical Properties. <i>Springer Series in Geomechanics and Geoengineering</i> , 2017, , 117-124.	0.1	0
10	Flume-scale experiments on suffusion at bottom of cutoff wall in sandy gravel alluvium. <i>Canadian Geotechnical Journal</i> , 2017, 54, 1716-1727.	2.8	25
11	Numerical investigation of rainfall-induced fines migration and its influences on slope stability. <i>Acta Geotechnica</i> , 2017, 12, 1431-1446.	5.7	34
12	Hydro-mechanical analysis of rainfall-induced fines migration process within unsaturated soils. <i>Journal of Mountain Science</i> , 2017, 14, 2603-2619.	2.0	12
13	Onset of suffusion in gap-graded soils under upward seepage. <i>Soils and Foundations</i> , 2017, 57, 849-860.	3.1	36
14	Experiment and statistical assessment on piping failures in soils with different gradations. <i>Marine Georesources and Geotechnology</i> , 2017, 35, 512-527.	2.1	25
15	Coupled DEM-CFD Analysis of the Initiation of Internal Instability in a Gap-Graded Granular Embankment Filter. <i>EPJ Web of Conferences</i> , 2017, 140, 10005.	0.3	11
16	A Constitutive Relationship for Gravelly Soil Considering Fine Particle Suffusion. <i>Materials</i> , 2017, 10, 1217.	2.9	6
17	Progressive Internal Erosion in a Gap-Graded Internally Unstable Soil: Mechanical and Geometrical Effects. <i>International Journal of Geomechanics</i> , 2018, 18, .	2.7	37
18	An Alternative Method for Internal Stability Prediction of Gravelly Soil. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 1141-1149.	1.9	9

#	ARTICLE	IF	CITATIONS
19	A discrete numerical model involving partial fluid-solid coupling to describe suffusion effects in soils. <i>Computers and Geotechnics</i> , 2018, 95, 30-39.	4.7	46
20	Coupled particle-fluid simulations of the initiation of suffusion. <i>Soils and Foundations</i> , 2018, 58, 972-985.	3.1	46
21	Variation Characteristics of Mass-Loss Rate in Dynamic Seepage System of the Broken Rocks. <i>Geofluids</i> , 2018, 2018, 1-17.	0.7	17
22	Critical Hydraulic Gradient of Internal Erosion at the Soil-Structure Interface. <i>Processes</i> , 2018, 6, 92.	2.8	19
23	Laboratory testing for evaluation of the influence of a small degree of internal erosion on deformation and stiffness. <i>Soils and Foundations</i> , 2018, 58, 547-562.	3.1	26
24	Fiber-reinforced internally unstable soil against suffusion failure. <i>Construction and Building Materials</i> , 2019, 222, 458-473.	7.2	13
25	An overview of the behaviour of iron ore fines cargoes, and some recommended solutions for the reduction of shifting incidents during marine transportation. <i>Ocean Engineering</i> , 2019, 182, 451-474.	4.3	11
26	Modeling coupled erosion and filtration of fine particles in granular media. <i>Acta Geotechnica</i> , 2019, 14, 1615-1627.	5.7	74
27	Suffusion evaluation of coarse-graded soils from Rhine dikes. <i>Acta Geotechnica</i> , 2019, 14, 815-823.	5.7	29
28	Soil Deformation and Mechanical Behavior Induced by Internal Erosion under Complex Stress States. , 2019, , .		0
29	Analysis of suffusion in cohesionless soils with randomly distributed porosity and fines content. <i>Computers and Geotechnics</i> , 2019, 111, 157-171.	4.7	58
30	Suffusion-induced deformation and microstructural change of granular soils: a coupled CFD-DEM study. <i>Acta Geotechnica</i> , 2019, 14, 795-814.	5.7	104
31	Particle loss: An initial investigation into size effects and stress-dilatancy. <i>Soils and Foundations</i> , 2019, 59, 726-737.	3.1	1
32	Numerical simulation of seepage failure by upward flow considering internal erosion. <i>Japanese Geotechnical Society Special Publication</i> , 2019, 7, 654-659.	0.2	0
34	Constitutive Modeling of a Suffusive Soil with Porosity-Dependent Plasticity. <i>Lecture Notes in Civil Engineering</i> , 2019, , 168-179.	0.4	2
35	Numerical and Physical Modelling of Seepage-Induced Internal Erosion Around Holes on Permeable Sheet Pile. <i>Lecture Notes in Civil Engineering</i> , 2019, , 200-207.	0.4	0
36	New Apparatus for Assessing Soil Suffusion Susceptibility Under Two Flow Directions. <i>Lecture Notes in Civil Engineering</i> , 2019, , 69-80.	0.4	3
37	Erosion of Zoned Earthfill Dams by Internal Instability: Laboratory Testing for Model Development. <i>Lecture Notes in Civil Engineering</i> , 2019, , 34-49.	0.4	1

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38	Three-dimensional DEM modeling of the stress-strain behavior for the gap-graded soils subjected to internal erosion. <i>Acta Geotechnica</i> , 2019, 14, 487-503.	5.7	64
39	Hydromechanical modeling of granular soils considering internal erosion. <i>Canadian Geotechnical Journal</i> , 2020, 57, 157-172.	2.8	57
40	Effects of Internal Erosion on Parameters of Subloading Cam-Clay Model. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 1323-1335.	1.7	3
41	Soil arching due to leaking of tunnel buried in water-rich sand. <i>Tunnelling and Underground Space Technology</i> , 2020, 95, 103158.	6.2	62
42	Effect of deviator stress on the initiation of suffusion. <i>Acta Geotechnica</i> , 2020, 15, 1607-1617.	5.7	44
43	Influence of particle-size distribution homogeneity on shearing of soils subjected to internal erosion. <i>Canadian Geotechnical Journal</i> , 2020, 57, 1684-1694.	2.8	16
44	Numerical modelling of internal erosion during hydrate dissociation based on multiphase mixture theory. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020, 44, 327-350.	3.3	15
45	Effect of Clay on Internal Erosion of Clay-Sand-Gravel Mixture. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-18.	0.7	2
46	A coupled CFD-DEM investigation of suffusion of gap graded soil: Coupling effect of confining pressure and fines content. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020, 44, 2473-2500.	3.3	52
47	Influence of constriction-based retention ratio on suffusion in double-layered alluvial foundation with a cutoff wall. <i>Soils and Foundations</i> , 2020, 60, 1489-1506.	3.1	5
48	Microscopic investigation of internal erosion in binary mixtures via the coupled LBM-DEM method. <i>Powder Technology</i> , 2020, 376, 31-41.	4.2	24
49	A framework for coupled hydro-mechanical continuous modelling of gap-graded granular soils subjected to suffusion. <i>European Journal of Environmental and Civil Engineering</i> , 2023, 27, 2678-2699.	2.1	9
50	Exploring the Occurrence of Clogging in Highly Permeable Coarse Soils of Dam Foundations. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-16.	0.7	3
51	The role of fines on internal instability and its impact on undrained mechanical response of gap-graded soils. <i>Soils and Foundations</i> , 2020, 60, 1468-1488.	3.1	24
52	Soil Deformations Induced by Particle Removal under Complex Stress States. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020, 146, .	3.0	12
53	Experimental Investigation on Suffusion Characteristics of Cohesionless Soils Along Horizontal Seepage Flow Under Controlled Vertical Stress. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	11
54	CFD-DEM modeling of suffusion effect on undrained behavior of internally unstable soils. <i>Computers and Geotechnics</i> , 2020, 126, 103692.	4.7	38
55	Effect of open-framework gravel on suffusion in sandy gravel alluvium. <i>Acta Geotechnica</i> , 2020, 15, 2649-2664.	5.7	16

#	ARTICLE	IF	CITATIONS
56	Experimental and numerical study of internal erosion around submerged defective pipe. <i>Tunnelling and Underground Space Technology</i> , 2020, 97, 103256.	6.2	30
57	Identifying the parameters of a hydro-mechanical model for internal erosion occurring in granular soils by using an enhanced backtracking search algorithm. <i>European Journal of Environmental and Civil Engineering</i> , 2023, 27, 2325-2344.	2.1	3
58	Modeling the Effects of Internal Erosion on the Structural Damage of a Shield Tunnel. <i>International Journal of Geomechanics</i> , 2020, 20, 04020053.	2.7	9
59	Investigating the effect of flow direction on suffusion and its impacts on gap-graded granular soils. <i>Acta Geotechnica</i> , 2021, 16, 399-419.	5.7	65
60	Effect of Fine Particles and Soil Heterogeneity on the Initiation of Suffusion. <i>Geotechnical and Geological Engineering</i> , 2021, 39, 2359-2371.	1.7	6
61	Analysis of damage to structures as a result of soil suffusion. <i>Engineering Failure Analysis</i> , 2021, 120, 105058.	4.0	4
62	A theoretical model to predict suffusion-induced particle movement in cohesionless soil under seepage flow. <i>European Journal of Soil Science</i> , 2021, 72, 1395-1409.	3.9	12
63	Experimental investigation on seepage erosion of the soil-rock interface. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 3115-3137.	3.5	11
64	Effects of grain morphology on suffusion susceptibility of cohesionless soils. <i>Granular Matter</i> , 2021, 23, 1.	2.2	15
65	A novel vertical stress-controlled apparatus for studying suffusion along horizontal seepage through soils. <i>Acta Geotechnica</i> , 2021, 16, 2217-2230.	5.7	23
66	Using geophysical data to quantify stress transmission in gap-graded granular materials. <i>Geotechnique</i> , 2022, 72, 565-582.	4.0	15
67	Filtration Regimes Calculation of Hydraulic Structures of Alma Reservoir. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1079, 062083.	0.6	0
68	Assessing the Suffusion Risk for the Final in-Situ Slopes of the North PeÅŧteana Open-Pit. <i>Revista Minelor / Mining Revue</i> , 2021, 27, 24-33.	0.1	0
69	Recent Advances in Stability and Failure Mechanisms of Landslide Dams. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	39
70	Investigating the relationship between erosion-induced structural damage and lining displacement parameters in shield tunnelling. <i>Computers and Geotechnics</i> , 2021, 133, 104041.	4.7	10
71	A modified subloading Cam-clay model for granular soils subjected to suffusion. <i>Geomechanics and Geoengineering</i> , 0, , 1-15.	1.8	1
72	A vertical layered theoretical model to predict the suffusion-induced heterogeneity of cohesionless soil. <i>Journal of Hydrology</i> , 2021, 598, 126476.	5.4	4
73	Microscopic mechanism of particle detachment in granular materials subjected to suffusion in anisotropic stress states. <i>Acta Geotechnica</i> , 2021, 16, 2575-2591.	5.7	26

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74	Experimental study on stiffness degradation and monotonic response of reconstituted volcanic ash induced by internal erosion. <i>Soils and Foundations</i> , 2021, 61, 1431-1452.	3.1	6
75	Review of Cave-In Failures of Urban Roadways in China: A Database. <i>Journal of Performance of Constructed Facilities</i> , 2021, 35, .	2.0	20
76	Sand Production During Hydrate Dissociation and Erosion of Earth Dams: Constitutive and Field Equations. , 2019, , 369-463.		1
77	Experimental and numerical assessments of seepage effect on embankment behaviours by the time. <i>Lecture Notes in Civil Engineering</i> , 2020, , 709-714.	0.4	1
78	Modeling of fluid-particle interaction by coupling the discrete element method with a dynamic fluid mesh: Implications to suffusion in gap-graded soils. <i>Computers and Geotechnics</i> , 2020, 124, 103617.	4.7	56
79	Particle erosion in suffusion under isotropic and anisotropic stress states. <i>Soils and Foundations</i> , 2019, 59, 1371-1384.	3.1	19
80	Mechanical Consequences of Suffusion on Undrained Behaviour of a Gap-Graded Cohesionless Soil - An Experimental Approach. <i>Geotechnical Testing Journal</i> , 2017, 40, 20160145.	1.0	32
81	Effects of Hydraulic Gradient Variation on the Structure and Strength of a Compacted Tropical Soil. <i>Soils and Rocks</i> , 2020, 43, 271-278.	0.5	1
82	Internal erosion behaviour of compacted loess against different hydraulic conditions indicated by enhanced pinhole tests. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	4
83	Basic Study on Mechanism of Cave-in in Road through Laboratory Model Tests. <i>International Journal of Highway Engineering</i> , 2016, 18, 11-19.	0.1	5
85	Microscopic mechanism and analytical modeling of seepage-induced erosion in bimodal soils. <i>Computers and Geotechnics</i> , 2022, 141, 104527.	4.7	18
86	Constitutive Relations of Saturated Soils: An Overview. , 2020, , 1-46.		0
87	Multidirectional Flow Apparatus for Assessing Soil Internal Erosion Susceptibility. <i>Geotechnical Testing Journal</i> , 2020, 43, 20190254.	1.0	6
88	Experimental study on suffusion under multiple seepages and its impact on undrained mechanical responses of gap-graded soil. <i>Soils and Foundations</i> , 2021, 61, 1660-1680.	3.1	16
89	Mechanical Consequence Observation and Microscopic Visualization of Internal Erosion Using Developed Plane Strain Erosion Apparatus. <i>Geotechnical Testing Journal</i> , 2022, 45, 411-431.	1.0	3
90	A DEM study of the effect of the loss of fine particles on the mechanical behavior of gap-graded soils. <i>Geomechanics for Energy and the Environment</i> , 2022, 31, 100305.	2.5	6
91	Transition of gap-graded soil fabric " shear wave measurements and dispersion relation. <i>Soils and Foundations</i> , 2022, 62, 101092.	3.1	7
92	Hydro-mechanical coupled analysis of near-wellbore fines migration from unconsolidated reservoirs. <i>Acta Geotechnica</i> , 2022, 17, 3535-3551.	5.7	13

#	ARTICLE	IF	CITATIONS
93	Modeling suffusion of ideally gap-graded soil. International Journal for Numerical and Analytical Methods in Geomechanics, 2022, 46, 1331-1355.	3.3	4
94	Particle size composition of migrating soil particles and the time change in water-passing experiments for reproducing suffusion using turbidity. Japanese Geotechnical Journal, 2022, 17, 47-60.	0.1	0
95	Assessment of internal stability of sand-fine mixture using particle detachment model and its implications on suffusion. Acta Geotechnica, 2022, 17, 4667-4680.	5.7	5
96	On the evaluation of internal stability of gap-graded soil: a status quo review. Natural Hazards, 2022, 113, 63-102.	3.4	5
97	Effects of internal erosion on the cyclic and post-cyclic mechanical behaviours of reconstituted volcanic ash. Soils and Foundations, 2022, 62, 101111.	3.1	6
98	Experimental Study of Internal Erosion in Granular Soil Subject to Cyclic Hydraulic Gradient Reversal. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	3
99	Experimental study on seepage-induced concentrated leak erosion in sand under triaxial testing conditions. Arabian Journal of Geosciences, 2022, 15, 1.	1.3	2
100	Solid grain migration on hydraulic properties of fault rocks in underground mining tunnel: Radial seepage experiments and verification of permeability prediction. Tunnelling and Underground Space Technology, 2022, 126, 104525.	6.2	87
101	Influence of density on the post-suffusion behavior of gap-graded sand with fines. Soils and Foundations, 2022, 62, 101159.	3.1	1
102	Transmission effect of eroded particles in suffusion using the CFD-DEM coupling method. Acta Geotechnica, 2023, 18, 335-354.	5.7	22
103	Fluidization of soil under increasing seepage flow: an energy perspective through CFD-DEM coupling. Granular Matter, 2022, 24, .	2.2	4
104	A Numerical Analysis of the Leakage Characteristics of an Embankment Dam Slope With Internal Erosion. Frontiers in Earth Science, 0, 10, .	1.8	1
105	Numerical analysis of internal erosion impact on underground structures: Application to tunnel leakage. Geomechanics for Energy and the Environment, 2022, 31, 100378.	2.5	5
106	Experimental Investigation of the Seepage-Induced Failure Process in Granular Soils. Geofluids, 2022, 2022, 1-17.	0.7	2
107	A Large-Scale High-Pressure Erosion Apparatus for Studying Internal Erosion in Gravelly Soils under Horizontal Seepage Flow. Geotechnical Testing Journal, 2022, 45, 1037-1053.	1.0	6
108	Clogging effect of fines in seepage erosion by using CFD-DEM. Computers and Geotechnics, 2022, 152, 105013.	4.7	25
109	Limit face pressure analysis of an EPB shield under suffusion conditions. Tunnelling and Underground Space Technology, 2022, 130, 104733.	6.2	0
110	Impact of Piping Erosion Process on the Temporal-Spatial Mechanisms of Soil. Water (Switzerland), 2022, 14, 2841.	2.7	1

#	ARTICLE	IF	CITATIONS
111	Suffusion of a sand-clay mixture: impact of the ionic-concentration gradient, clay type, sand-grain size and hydraulic gradient. <i>Geotechnique</i> , 0, , 1-15.	4.0	2
112	DEM-FEM based numerical analysis on mechanical responses of sandy soil and pipeline to seepage erosion. <i>Engineering Geology</i> , 2022, 310, 106868.	6.3	7
113	é»„,âœŸâĵ-æ²Ÿé“ă¾µèšæ%©â¼æœ²ç†ăŽă²æ²Ÿăĵ-â-Ÿç`çš,,çš'ăĵ æ€\$. <i>SCIENTIA SINICA Terrae</i> , 2022, , .	0.3	0
114	Microscopic investigation of the influence of complex stress states on internal erosion and its impacts on critical hydraulic gradients. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2022, 46, 3377-3401.	3.3	7
116	Coupled CFD-DEM Investigation of Erosion Accompanied by Clogging Mechanism under Different Hydraulic Gradients. <i>Computers and Geotechnics</i> , 2023, 153, 105058.	4.7	12
117	Internal Erosion Experiments on Sandy Gravel Alluvium in an Embankment Dam Foundation Emphasizing Horizontal Seepage and High Surcharge Pressure. <i>Water (Switzerland)</i> , 2022, 14, 3285.	2.7	3
118	Post-erosion mechanical responses of internally unstable gap-graded soil under drained torsional simple shear and triaxial compression. <i>Soils and Foundations</i> , 2022, 62, 101224.	3.1	1
119	Constriction size retention criterion for calcium alginate microcapsules in granular materials. <i>Powder Technology</i> , 2023, 413, 118034.	4.2	2
120	A coupled CFD-DEM investigation into suffusion of gap-graded soil considering anisotropic stress conditions and flow directions. <i>Acta Geotechnica</i> , 2023, 18, 3111-3132.	5.7	6
121	Experimental and numerical study of seepage-induced suffusion under K0 stress state. <i>Journal of Zhejiang University: Science A</i> , 0, , .	2.4	1
122	Influence of Induced Variability of Unsaturated Soil Parameters on Seepage Stability of Ancient Riverbank. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 1481.	2.5	1
123	Coupling of hydraulic loading and surcharge pressure during suffusion in sandy gravels. <i>Geotechnique Letters</i> , 2023, 13, 75-81.	1.2	2
124	Insights on experimental methodologies and theoretical models for microplastics transport in soils and sediments based on meta-analysis. <i>Acta Geotechnica</i> , 2023, 18, 4477-4492.	5.7	1
125	Gully erosion and expansion mechanisms in loess tablelands and the scientific basis of gully consolidation and tableland protection. <i>Science China Earth Sciences</i> , 2023, 66, 821-839.	5.2	7
126	Effect of particle shape and bedding angle on suffusion in gap-graded granular soils by coupled CFD-DEM method. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2023, 47, 1373-1398.	3.3	5
127	Experimental investigation on erosion progression and strength reduction of gap-graded cohesionless soil subjected to suffusion. <i>Environmental Earth Sciences</i> , 2023, 82, .	2.7	1
128	Permeability property variation in sandy soil induced by suffusion via a horizontal seepage laboratory test. <i>Acta Geotechnica</i> , 2023, 18, 5285-5298.	5.7	3
129	Experimental and numerical study on water and sand leakage of foundation pit in water-rich sandy soil with different grain size distribution. <i>European Journal of Environmental and Civil Engineering</i> , 2024, 28, 128-149.	2.1	0



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130	Characteristics and quantification of fine particle loss in internally unstable sandy gravels induced by seepage flow. <i>Engineering Geology</i> , 2023, 321, 107150.	6.3	6
131	Experimental Study on Repairing the Mechanical Characteristics of Oil-Contaminated Silty Clay in Ancient Dike with Modified Lime Mortar. <i>Materials</i> , 2023, 16, 3449.	2.9	0
132	Experimental study on fractal characteristics of seepage-induced failure in granular soil. <i>Computational Particle Mechanics</i> , 2024, 11, 389-403.	3.0	1
133	Numerical Simulation of Mechanical Properties of Soil Considering the Effect of Internal Erosion. <i>Mathematics</i> , 2023, 11, 2959.	2.2	0
134	A coupled CFD-DEM investigation into hydro-mechanical behaviour of gap-graded soil experiencing seepage erosion considering cyclic hydraulic loading. <i>Journal of Hydrology</i> , 2023, 624, 129908.	5.4	5
135	Confining stress effects on global and local responses of internal erosion in gap-graded cohesionless soils. <i>Bulletin of Engineering Geology and the Environment</i> , 2023, 82, .	3.5	2
136	Effect of Gradation Characteristics and Particle Morphology on Internal Erosion of Sandy Gravels: A Large-Scale Experimental Study. <i>Water (Switzerland)</i> , 2023, 15, 2660.	2.7	2
137	Suffusion in gap-graded granular soils subjected to strain-controlled cyclic loading with coupled CFD-DEM method. <i>Transportation Geotechnics</i> , 2023, 42, 101098.	4.5	2
138	Role of inherent anisotropy in infiltration mechanism of suffusion with irregular granular skeletons. <i>Computers and Geotechnics</i> , 2023, 162, 105692.	4.7	9
139	Macro-“microscopic mechanism of suffusion in calcareous sand under tidal fluctuations by coupled CFD-DEM. <i>Computers and Geotechnics</i> , 2023, 162, 105676.	4.7	9
140	DEM Coupled with Dynamic Fluid Mesh (DFM). , 2023, , 111-132.		0
141	Mechanical behavior of gap-graded soil subjected to internal erosion: comparison of suffusion and concentrated erosion. <i>European Journal of Environmental and Civil Engineering</i> , 0, , 1-15.	2.1	1
142	Alteration of soil structure following seepage-induced internal erosion in model infrastructure embankments. <i>Transportation Geotechnics</i> , 2023, 42, 101111.	4.5	1
143	Influence of Internal Erosion on Rainfall-Induced Instability of Layered Deposited-Soil Slopes. <i>Mathematics</i> , 2023, 11, 4348.	2.2	0
144	Suffusion behavior of crushed calcareous sand under reversed cyclic hydraulic conditions. <i>Construction and Building Materials</i> , 2023, 408, 133817.	7.2	3
145	Microscopic mechanism of the combined effects of confining pressure and fines content on suffusion in gap-graded underfilled soils. <i>Journal of Hydrology</i> , 2023, 626, 130370.	5.4	1
146	Stability of sandy soils against internal erosion under cyclic loading and quantitatively examination of the composition and origin of eroded particles. <i>Canadian Geotechnical Journal</i> , 0, , .	2.8	1
147	Numerical analysis of suffusion behavior under cyclic loading with coupled CFD-DEM simulation. <i>International Journal for Multiscale Computational Engineering</i> , 2023, , .	1.2	1

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148	Constitutive modeling and analysis of geomaterials. <i>Soils and Foundations</i> , 2023, 63, 101392.	3.1	0
149	Micro-mechanical analysis of particle shape effect on suffusion of gap-graded soils. <i>Computers and Geotechnics</i> , 2024, 165, 105925.	4.7	1
150	Experimental investigation on the permeability of gap-graded soil due to horizontal suffusion considering boundary effect. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2023, , .	8.1	0
151	Effect of seepage-induced erosion on soil macropore structure. <i>Journal of Mountain Science</i> , 2023, 20, 3402-3422.	2.0	0
152	Experimental Investigations on the Evolution of Undrained Mechanical Characteristics of Cohesionless Soils Subjected to Internal Erosion. <i>Soil Mechanics and Foundation Engineering</i> , 2023, 60, 494-501.	0.7	0
153	Effects of pre-shearing stress ratio on the mechanical behaviours of gap-graded soils subjected to internal erosion. <i>Computers and Geotechnics</i> , 2024, 166, 105991.	4.7	0
154	Mechanism of the post-suffusion mechanical response of gap-graded soils from the perspective of force-chain evolution. <i>Computers and Geotechnics</i> , 2024, 165, 105946.	4.7	1
155	Statistical Analysis of Stress Transmission and Onset of Internal Instability under Vertical Effective Stress. <i>International Journal of Geomechanics</i> , 2024, 24, .	2.7	0
156	Mechanical Consequences of Suffusion on Gap-Graded Soils with Stress Anisotropy: A CFDâ€“DEM Perspective. <i>Buildings</i> , 2024, 14, 122.	3.1	0
157	The effects of internal erosion on granular soils used in transport embankments. <i>Soils and Foundations</i> , 2024, 64, 101424.	3.1	0
158	A new method for preventing sidewall preferential flow in the internal erosion simulation using un-resolved CFDâ€“DEM. <i>Acta Geophysica</i> , 0, , .	2.0	0
159	A Large-Sized Permeameter for Studying Suffusion Characteristics of Anisotropic Soils. <i>Geotechnical Testing Journal</i> , 0, , 1-22.	1.0	0
160	Land Subsidence Due to Groundwater Exploitation in Unconfined Aquifers: Experimental and Numerical Assessment with Computational Fluid Dynamics. <i>Water (Switzerland)</i> , 2024, 16, 467.	2.7	0
161	Internal erosion of a gap-graded soil and influences on the critical state. <i>Acta Geotechnica</i> , 0, , .	5.7	0
163	Numerical Modeling on Fluid-Solid Coupled Erosion in Sandy Gravel Soils Containing a Suspended Cut-Off Wall. <i>Soil Mechanics and Foundation Engineering</i> , 2024, 60, 595-602.	0.7	0