

# Chang-yu Ou

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66 papers	2,083 citations	27 h-index	44 g-index
68 ext. papers	2,423 ext. citations	3.8 avg, IF	5.19 L-index

#	Paper	IF	Citations
66	Characteristics of ground surface settlement during excavation. <i>Canadian Geotechnical Journal</i> , <b>1993</b> , 30, 758-767	3.2	230
65	Shape of ground surface settlement profiles caused by excavation. <i>Canadian Geotechnical Journal</i> , <b>1998</b> , 35, 1004-1017	3.2	229
64	Performance of Diaphragm Wall Constructed Using Top-Down Method. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>1998</b> , 124, 798-808	3.4	166
63	Three-Dimensional Finite Element Analysis of Deep Excavations. <i>Journal of Geotechnical Engineering</i> , <b>1996</b> , 122, 337-345		123
62	Three-dimensional deformation behavior of the Taipei National Enterprise Center (TNEC) excavation case history. <i>Canadian Geotechnical Journal</i> , <b>2000</b> , 37, 438-448	3.2	72
61	On the enhancement of electroosmotic soil improvement by the injection of saline solutions. <i>Applied Clay Science</i> , <b>2009</b> , 44, 130-136	5.2	63
60	Modeling small-strain behavior of Taipei clays for finite element analysis of braced excavations. <i>Computers and Geotechnics</i> , <b>2009</b> , 36, 304-319	4.4	62
59	Injection of saline solutions to improve the electro-osmotic pressure and consolidation of foundation soil. <i>Applied Clay Science</i> , <b>2009</b> , 44, 218-224	5.2	57
58	Evaluation of deformation parameter for deep excavation in sand through case histories. <i>Computers and Geotechnics</i> , <b>2013</b> , 47, 57-67	4.4	55
57	Finite-element analysis of deep excavation in layered sandy and clayey soil deposits. <i>Canadian Geotechnical Journal</i> , <b>1994</b> , 31, 204-214	3.2	47
56	Three-dimensional numerical analysis of deep excavations with cross walls. <i>Acta Geotechnica</i> , <b>2013</b> , 8, 33-48	4.9	46
55	A simplified method for predicting ground settlement profiles induced by excavation in soft clay. <i>Computers and Geotechnics</i> , <b>2011</b> , 38, 987-997	4.4	46
54	Basal heave analysis of excavations with consideration of anisotropic undrained strength of clay. <i>Canadian Geotechnical Journal</i> , <b>2008</b> , 45, 788-799	3.2	46
53	Soil improvement using electroosmosis with the injection of chemical solutions: field tests. <i>Canadian Geotechnical Journal</i> , <b>2009</b> , 46, 727-733	3.2	45
52	Analysis of the corner effect on excavation behaviors. <i>Canadian Geotechnical Journal</i> , <b>1998</b> , 35, 532-540	3.2	41
51	A novel electroosmotic chemical treatment technique for soil improvement. <i>Applied Clay Science</i> , <b>2010</b> , 50, 481-492	5.2	40
50	Analysis and design of partial ground improvement in deep excavations. <i>Computers and Geotechnics</i> , <b>2008</b> , 35, 576-584	4.4	37

49	Reliability-Based Design for Basal Heave Stability of Deep Excavations in Spatially Varying Soils. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2012</b> , 138, 594-603	3-4	32
48	Analysis of Deep Excavation with Column Type of Ground Improvement in Soft Clay. <i>Journal of Geotechnical Engineering</i> , <b>1996</b> , 122, 709-716		32
47	A parametric study of wall deflections in deep excavations with the installation of cross walls. <i>Computers and Geotechnics</i> , <b>2013</b> , 50, 55-65	4-4	31
46	Performance of Excavations with Cross Walls. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2011</b> , 137, 94-104	3-4	31
45	Stress paths in deep excavations under undrained conditions and its influence on deformation analysis. <i>Tunnelling and Underground Space Technology</i> , <b>2017</b> , 63, 118-132	5-7	29
44	Use of Jet Grouting to Limit Diaphragm Wall Displacement of a Deep Excavation. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2003</b> , 129, 146-157	3-4	29
43	Simplified approach to estimate the maximum wall deflection for deep excavations with cross walls in clay under the undrained condition. <i>Acta Geotechnica</i> , <b>2016</b> , 11, 177-189	4-9	28
42	Evaluation of Factors of Safety against Basal Heave for Deep Excavations in Soft Clay Using the Finite-Element Method. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2013</b> , 139, 2125-2135	3-4	28
41	Predicting Wall Displacements for Excavations with Cross Walls in Soft Clay. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2013</b> , 139, 914-927	3-4	27
40	Measurements and Numerical Simulations of Inherent Stiffness Anisotropy in Soft Taipei Clay. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2014</b> , 140, 237-250	3-4	27
39	Fully Probabilistic Framework for Evaluating Excavation-Induced Damage Potential of Adjacent Buildings. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2011</b> , 137, 130-139	3-4	26
38	A study of failure mechanisms of deep excavations in soft clay using the finite element method. <i>Computers and Geotechnics</i> , <b>2016</b> , 73, 153-163	4-4	25
37	Investigation of the integrated retaining system to limit deformations induced by deep excavation. <i>Acta Geotechnica</i> , <b>2018</b> , 13, 973-995	4-9	23
36	Evaluation of buttress wall shapes to limit movements induced by deep excavation. <i>Computers and Geotechnics</i> , <b>2016</b> , 78, 155-170	4-4	21
35	Mechanism of soil cementation by electroosmotic chemical treatment. <i>Applied Clay Science</i> , <b>2015</b> , 104, 135-142	5-2	20
34	Three-dimensional numerical study of long-term settlement induced in shield tunneling. <i>Tunnelling and Underground Space Technology</i> , <b>2019</b> , 88, 221-236	5-7	19
33	Efficiency of excavations with buttress walls in reducing the deflection of the diaphragm wall. <i>Acta Geotechnica</i> , <b>2016</b> , 11, 1087-1102	4-9	19
32	Soil improvement using electroosmosis with the injection of chemical solutions: laboratory tests <b>2011</b> , 34, 863-875		17

31	Development of a Suitable Operation Procedure for Electroosmotic Chemical Soil Improvement. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2013</b> , 139, 993-1000	3.4	16
30	Soil improvement of electroosmosis with the chemical treatment using the suitable operation process. <i>Acta Geotechnica</i> , <b>2015</b> , 10, 813-820	4.9	14
29	Performance and analysis of pumping tests in a gravel formation. <i>Bulletin of Engineering Geology and the Environment</i> , <b>2010</b> , 69, 1-12	4	14
28	A study of the effects of electrode spacing on the cementation region for electro-osmotic chemical treatment. <i>Applied Clay Science</i> , <b>2015</b> , 104, 168-181	5.2	13
27	Probabilistic framework for assessing liquefaction hazard at a given site in a specified exposure time using standard penetration testing. <i>Canadian Geotechnical Journal</i> , <b>2010</b> , 47, 674-687	3.2	13
26	Performance and Three-Dimensional Analyses of a Wide Excavation in Soft Soil with Strut-Free Retaining System. <i>International Journal of Geomechanics</i> , <b>2018</b> , 18, 05018007	3.1	12
25	A novel technique of harmonic waves applied electro-osmotic chemical treatment for soil improvement. <i>Applied Clay Science</i> , <b>2011</b> , 52, 235-244	5.2	12
24	Mechanism of buttress walls in restraining the wall deflection caused by deep excavation. <i>Tunnelling and Underground Space Technology</i> , <b>2018</b> , 82, 542-553	5.7	12
23	A novel electroosmotic chemical treatment for improving the clay strength throughout the entire region. <i>Applied Clay Science</i> , <b>2018</b> , 153, 161-171	5.2	11
22	A comprehensive evaluation of strength and modulus parameters of a gravelly cobble deposit for deep excavation analysis. <i>Engineering Geology</i> , <b>2014</b> , 174, 61-72	6	10
21	A simplified plane strain analysis of lateral wall deflection for excavations with cross walls. <i>Canadian Geotechnical Journal</i> , <b>2012</b> , 49, 1134-1146	3.2	10
20	Probabilistic observational method for estimating wall displacements in excavations. <i>Canadian Geotechnical Journal</i> , <b>2014</b> , 51, 1111-1122	3.2	9
19	Analysis of deep excavations in clay under the undrained and plane strain condition with small strain characteristics <b>2012</b> , 35, 601-616		9
18	A novel strut-free retaining wall system for deep excavation in soft clay: numerical study. <i>Acta Geotechnica</i> , <b>2020</b> , 15, 1557-1576	4.9	9
17	Calibration of model uncertainties in base heave stability for wide excavations in clay. <i>Soils and Foundations</i> , <b>2014</b> , 54, 1159-1174	2.9	8
16	Evaluation of excavation-induced movements through case histories in Hangzhou. <i>Engineering Computations</i> , <b>2020</b> , 37, 1993-2016	1.4	8
15	Finite element analysis of time-dependent behavior in deep excavations. <i>Computers and Geotechnics</i> , <b>2020</b> , 119, 103300	4.4	8
14	Electro-osmotic chemical treatment of clay with interbedded sand. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , <b>2014</b> , 167, 62-71	0.9	7

13	An innovative earth retaining supported system for deep excavation. <i>Computers and Geotechnics</i> , <b>2019</b> , 114, 103135	4.4	4
12	Reliability-Based Design for Basal Heave in an Excavation Considering Spatial Variability <b>2010</b> ,		4
11	Factors affecting the stability of deep excavations in clay with consideration of a full elastoplastic support system. <i>Acta Geotechnica</i> , <b>2020</b> , 15, 1707-1722	4.9	4
10	A simplified estimation of excavation-induced ground movements for adjacent building damage potential assessment. <i>Tunnelling and Underground Space Technology</i> , <b>2020</b> , 106, 103561	5.7	3
9	A study on the modification of electroosmotic consolidation theory using electric potential distributions <b>2017</b> , 40, 25-33		1
8	Finite element analysis of failure of deep excavations in soft clay. <i>Japanese Geotechnical Society Special Publication</i> , <b>2016</b> , 2, 1555-1558	0.2	1
7	Using a direct-drive motor to measure strain in triaxial tests. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , <b>2013</b> , 166, 56-66	0.9	1
6	Cohesive Strength Improvement Mechanism Of Kaolinite Near the Anode During Electroosmotic Chemical Treatment. <i>Clays and Clay Minerals</i> , <b>2018</b> , 66, 438-448	2.1	1
5	On the behavior of the cured electroosmotic chemical treated clay. <i>Acta Geotechnica</i> , <b>2020</b> , 15, 2341-2354	4.9	0
4	On the mechanism of soft clay being improved entirely in the ECT treatment. <i>Bulletin of Engineering Geology and the Environment</i> , <b>2020</b> , 79, 3869-3877	4	
3	Experimental investigation of influence of calcium ion (Ca <sup>2+</sup> ) and pH on the shear strength of Taipei silty clay <b>2021</b> , 44, 544-552		
2	A study of the efficiency of excavations with the installation of buttress walls in reducing the wall deflection. <i>Japanese Geotechnical Society Special Publication</i> , <b>2016</b> , 2, 1441-1446	0.2	
1	Case Record of a Strut-free Excavation with Buttress Walls in Soft Soil. <i>Springer Series in Geomechanics and Geoengineering</i> , <b>2018</b> , 142-154	0.1	