

# Vishwas A Sawant

## List of Publications by Year in descending order

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56  
papers

404  
citations

933264

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887953

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all docs

58  
docs citations

58  
times ranked

195  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Edge Distance from the Slope Crest on the Response of a Laterally Loaded Pile in Sloping Ground. Geotechnical and Geological Engineering, 2014, 32, 197-204.	0.8	36
2	3D Finite-Element Dynamic Analysis of Rigid Pavement Using Infinite Elements. International Journal of Geomechanics, 2013, 13, 533-544.	1.3	26
3	Numerical and Experimental Investigations of Granular Anchor Piles in Loose Sandy Soil Subjected to Uplift Loading. International Journal of Geomechanics, 2017, 17, .	1.3	26
4	Numerical Analysis of Earth Embankment Resting on Liquefiable Soil and Remedial Measures. International Journal of Geomechanics, 2016, 16, .	1.3	25
5	Dynamic analysis of rigid pavement with vehicleâ€“pavement interaction. International Journal of Pavement Engineering, 2009, 10, 63-72.	2.2	22
6	Experimental and numerical simulation of contaminant transport through layered soil. International Journal of Geotechnical Engineering, 2014, 8, 345-351.	1.1	21
7	Finite element analysis for laterally loaded piles in sloping ground. Coupled Systems Mechanics, 2012, 1, 59-78.	0.4	18
8	Numerical Modeling of Granular Anchor Pile System in Loose Sandy Soil Subjected to Uplift Loading. International Journal of Geosynthetics and Ground Engineering, 2016, 2, 1.	0.9	17
9	Influence of sloping ground on lateral load capacity of single piles in clayey soil. International Journal of Geotechnical Engineering, 2020, 14, 353-360.	1.1	13
10	Seismic Stability Analysis of Reinforced Soil Wall Using Horizontal Slice Method. International Journal of Geosynthetics and Ground Engineering, 2015, 1, 1.	0.9	12
11	Effect of Pile Group Configurations on Nonlinear Dynamic Response. International Journal of Geomechanics, 2016, 16, 04015013.	1.3	12
12	Prediction of Pile Capacity of Socketed Piles Using Different Approaches. Geotechnical and Geological Engineering, 2019, 37, 5219-5230.	0.8	12
13	Numerical Investigation of Stone Column Improved Ground for Mitigation of Liquefaction. International Journal of Geomechanics, 2020, 20, .	1.3	12
14	Influence of micropile parameters on bearing capacity of footings. Environmental Science and Pollution Research, 2021, 28, 48274-48283.	2.7	12
15	Insight into pile set-up and load carrying capacity of driven piles. International Journal of Geotechnical Engineering, 2013, 7, 71-83.	1.1	10
16	An experimental investigation for pullout response of a single granular pile anchor in clayey soil. International Journal of Geo-Engineering, 2021, 12, 1.	0.9	10
17	Three-Dimensional Finite Element Analysis of Laterally Loaded Piles in Sloping Ground. Indian Geotechnical Journal, 2012, 42, 278.	0.7	8
18	Variation in lateral load capacity of pile embedded near slope with ground inclination and edge distance. International Journal of Geotechnical Engineering, 2020, 14, 740-751.	1.1	8

#	ARTICLE	IF	CITATIONS
19	Seismic stability analysis of nailed vertical cut using modified pseudo-dynamic method. Soil Dynamics and Earthquake Engineering, 2020, 137, 106294.	1.9	8
20	Comparison of lateral response of pile group in series and parallel arrangement near sloping ground. International Journal of Geotechnical Engineering, 2020, 14, 686-695.	1.1	7
21	Economical Design of Reinforced Slope Using Geosynthetics. Geotechnical and Geological Engineering, 2020, 38, 1631-1637.	0.8	7
22	Effect of Soil Amplification on Seismic Earth Pressure Using Pseudo-Dynamic Approach. International Journal of Geotechnical Engineering, 2021, 15, 40-51.	1.1	6
23	Numerical simulation of liquefaction phenomenon considering infinite boundary. Soil Dynamics and Earthquake Engineering, 2021, 142, 106556.	1.9	6
24	Uplift Capacity of Single And Group of Granular Anchor Pile System. Journal of Civil Engineering Science and Technology, 2018, 9, 34-40.	0.5	6
25	Model Tests on Granular Pile Anchor and Helical Anchor: A Comparative Study. International Journal of Geosynthetics and Ground Engineering, 2022, 8, .	0.9	6
26	Wetting-drying effect on response of footing resting on partially saturated soils. International Journal of Geotechnical Engineering, 2019, , 1-13.	1.1	5
27	Experimental Study of Laterally Loaded Pile Group in Square Arrangement near Sloping Ground. International Journal of Geomechanics, 2021, 21, 04020257.	1.3	5
28	An experimental and numerical comparative study on the uplift capacity of single granular pile anchor and rough pile in sand. International Journal of Geotechnical Engineering, 2022, 16, 499-513.	1.1	5
29	Numerical modelling of mechanical behaviour of partially saturated soils using coupled FEA. International Journal of Geotechnical Engineering, 2017, 11, 452-466.	1.1	4
30	Plate load tests to analyze the load-settlement response of shallow foundations on sand beds reinforced with micropiles. Environmental Science and Pollution Research, 2021, 28, 67657-67666.	2.7	4
31	Simulation of liquefaction phenomenon in semi-infinite domain under harmonic loading. International Journal of Geotechnical Engineering, 2015, 9, 251-264.	1.1	3
32	Soil-Structure Interaction of Space Frame Supported on Pile Foundation Embedded in Cohesionless Soil. Indian Geotechnical Journal, 2016, 46, 415-424.	0.7	3
33	Two Dimensional Contaminant Transport Through Layered Soil Using Element Free Galerkin Method. Indian Geotechnical Journal, 2016, 46, 192-205.	0.7	3
34	Assessment of Effect of Cyclic Frequency and Soil Modulus on Liquefaction Using Coupled FEA. Indian Geotechnical Journal, 2016, 46, 124-140.	0.7	3
35	Behaviour of Partially Saturated Soil Under Isotropic and Triaxial Condition Using Modified BBM. Indian Geotechnical Journal, 2017, 47, 219-232.	0.7	3
36	Simplified solution to analyse seismic stability of reinforced soil wall. International Journal of Geotechnical Engineering, 2021, 15, 193-206.	1.1	3

#	ARTICLE	IF	CITATIONS
37	Analysis of reinforced soil wall for c- $\phi$ backfill considering Rayleigh wave. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2022, 175, 290-304.	0.7	3
38	Contaminant Transport Through Geomembranes Overlying Clay and Sand Using Element Free Galerkin Method. International Journal of Geosynthetics and Ground Engineering, 2016, 2, 1.	0.9	2
39	Pseudo-Dynamic Approach to Analyze the Seismic Stability of Reinforced Soil Wall for c- $\phi$ Soil Backfill. Indian Geotechnical Journal, 2019, 49, 478-491.	0.7	2
40	Dynamic Response of 2 Piles in Series and Parallel Arrangement. Engineering Journal, 2012, 16, 63-72.	0.5	2
41	A new approach for the computation of bearing capacity factor $N_c$ : Terzaghi and Prandtl mechanisms. International Journal of Geotechnical Engineering, 2013, 7, 304-309.	1.1	1
42	Effect of Slope Angle and Edge Distance on Laterally Loaded Flexible Pile Embedded in Sandy Ground. Lecture Notes in Civil Engineering, 2020, , 195-204.	0.3	1
43	Study on transport of contaminant through single and parallel fractures using element-free Galerkin method. ISH Journal of Hydraulic Engineering, 2022, 28, 552-563.	1.1	1
44	Experimental investigation on greenfield surface settlement in cohesionless medium due to staged tunneling. Innovative Infrastructure Solutions, 2021, 6, 1.	1.1	1
45	Novel Pseudo-dynamic Closed-Form Solution for Individual Nail Force in Nailed Vertical Cut. International Journal of Geosynthetics and Ground Engineering, 2021, 7, 1.	0.9	1
46	Nail Forces and Locus of Maximum Tension of Nailed Cut Subjected to Seismic Excitations: A Calculus Approach with Log-Spiral Failure Surface. International Journal of Geomechanics, 2021, 21, 04021225.	1.3	1
47	Effect of Wall Inclination on Dynamic Active Thrust for Cohesive Soil Backfill. Journal of Civil Engineering Science and Technology, 2018, 9, 6.	0.5	1
48	1D contaminant transport using element free Galerkin method with irregular nodes. Coupled Systems Mechanics, 2016, 5, 203-221.	0.4	1
49	Analysis of a Strip Footing on a Layered Soil Using Element Free Galerkin Method. Indian Geotechnical Journal, 2017, 47, 96-106.	0.7	0
50	Pseudo-dynamic Approach to Quantify the Effect of Vertical Seismic Acceleration on Reinforced Retaining Wall for c- $\phi$ Soil Backfill. Lecture Notes in Civil Engineering, 2020, , 183-193.	0.3	0
51	Earthquake Response of 3D Asymmetric Building with Infill Wall Under Soil-Structure Interaction. Lecture Notes in Civil Engineering, 2021, , 647-660.	0.3	0
52	Numerical modeling of liquefaction in deep saturated sands. Innovative Infrastructure Solutions, 2021, 6, 1.	1.1	0
53	Analysis of a strip footing on a homogenous soil using element free Galerkin method. Coupled Systems Mechanics, 2015, 4, 365-383.	0.4	0
54	Studies on Transport of Reactive and Non-reactive Elements in Fractured Media. Lecture Notes in Civil Engineering, 2019, , 319-328.	0.3	0

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55	Investigation on Axial Response of Pile Due to Staged Tunnelling: A Numerical Approach. Lecture Notes in Civil Engineering, 2022, , 267-278.	0.3	0
56	Optimization of Empirical Methods in Determining the Load Capacity of Rock Socketed Piles. Indian Geotechnical Journal, 2022, 52, 852-864.	0.7	0