Paul J Vardanega

List of Publications by Year
in descending order

81	1,392	394286	377752
papers	citations	19 h-index	34 g-index

92	92	92	1011
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stiffness of Clays and Silts: Normalizing Shear Modulus and Shear Strain. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1575-1589.	1.5	176
2	The plastic limit of clays. Geotechnique, 2013, 63, 435-440.	2.2	101
3	A sand-rubber deformable granular layer as a low-cost seismic isolation strategy in developing countries: Experimental investigation. Soil Dynamics and Earthquake Engineering, 2019, 125, 105731.	1.9	91
4	The undrained strength â€“ liquidity index relationship. Canadian Geotechnical Journal, 2014, 51, 1073-1086.	1.4	88
5	Categories of SHM Deployments: Technologies and Capabilities. Journal of Bridge Engineering, 2015, 20, .	1.4	81
6	Use of fall cones to determine Atterberg limits: a review. Geotechnique, 2018, 68, 843-856.	2.2	74
7	Strength mobilization in clays and silts. Canadian Geotechnical Journal, 2011, 48, 1485-1503.	1.4	55
8	Analysis of Fiber-Optic Strain-Monitoring Data from a Prestressed Concrete Bridge. Journal of Bridge Engineering, 2017, 22, .	1.4	44
9	State of the Art: Permeability of Asphalt Concrete. Journal of Materials in Civil Engineering, 2014, 26, 54-64.	1.3	41
10	Analysis of Structural Health Monitoring Data from Hammersmith Flyover. Journal of Bridge Engineering, 2014, 19, .	1.4	38
11	Laboratory measurement of strength mobilisation in kaolin: link to stress history. Geotechnique Letters, 2012, 2, 9-15.	0.6	34
12	Results of monitoring at the British Library excavation. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2014, 167, 99-116.	0.9	30
13	Analysis of Asphalt Concrete Permeability Data Using Representative Pore Size. Journal of Materials in Civil Engineering, 2011, 23, 169-176.	1.3	26
14	Mutual Shaping in Swarm Robotics: User Studies in Fire and Rescue, Storage Organization, and Bridge Inspection. Frontiers in Robotics and AI, 2020, 7, 53.	2.0	26
15	Bored pile design in stiff clay II: mechanisms and uncertainty. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2012, 165, 233-246.	0.9	25
16	Ground movements due to deep excavations in Shanghai: Design charts. Frontiers of Structural and Civil Engineering, 2014, 8, 201-236.	1.2	23
17	Permeability assessment of some granular mixtures. Geotechnique, 2019, 69, 646-654.	2.2	22
18	Fatigue life assessment of large scale T-jointed steel truss bridge components. Journal of Constructional Steel Research, 2017, 133, 499-509.	1.7	20

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19	Urbanisation and landslides: hazard drivers and better practices. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2016, 169, 137-144.	0.3	19
20	Bored pile design in stiff clay I: codes of practice. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2012, 165, 213-232.	0.9	15
21	Design of Geostructural Systems. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2016, 2, 04015017.	1.1	15
22	Use of fall-cone flow index for soil classification: a new plasticity chart. Geotechnique, 2022, 72, 610-617.	2.2	15
23	The SAFER geodatabase for the Kathmandu valley: Bayesian kriging for data-scarce regions. Earthquake Spectra, 2021, 37, 1108-1126.	1.6	14
24	Stiffness of Clays and Silts: Modeling Considerations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, 06014004.	1.5	13
25	Assessing the potential value of bridge monitoring systems. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2016, 169, 126-138.	0.3	13
26	The plastic limit of clays. Geotechnique, 2014, 64, 584-586.	2.2	12
27	Influence of Bar Diameter on Low-Cycle Fatigue Degradation of Reinforcing Bars. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	12
28	The SAFER geodatabase for the Kathmandu Valley: Geotechnical and geological variability. Earthquake Spectra, 2020, 36, 1549-1569.	1.6	12
29	Fundamental basis of single-point liquid limit measurement approaches. Applied Clay Science, 2014, 102, 8-14.	2.6	11
30	Investigation of the Atterberg limits and undrained fall-cone shear strength variation with water content of some peat soils. International Journal of Pavement Research and Technology, 2019, 12, 131-138.	1.3	11
31	Using data to explore trends in bridge performance. Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction, 2018, 171, 14-28.	1.1	10
32	Analysis of design choices for a slope stability scenario in the humid tropics. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2018, 171, 37-52.	0.4	10
33	Classifying and characterising fineâ€grained soils using fall cones. Ce/Papers, 2018, 2, 821-826.	0.1	10
34	A database of saturated hydraulic conductivity of fine-grained soils: probability density functions. Georisk, 2019, 13, 255-261.	2.6	10
35	Minding the geotechnical data gap: appraisal of the variability of key soil parameters for slope stability modelling in Saint Lucia. Bulletin of Engineering Geology and the Environment, 2019, 78, 4851-4864.	1.6	10
36	Quantifying Uncertainty in Visual Inspection Data. , 2018, , 2252-2259.		10

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37	Discussion of â€œWater Content Ratio: An Effective Substitute for Liquidity Index for Prediction of Shear Strength of Claysâ€•by Beshy Kuriakose, Benny Mathews Abraham, A. Sridharan & Babu T. Jose. Geotechnical and Geological Engineering, 2017, 35, 3039-3044.	0.8	8
38	Use of fall cones to determine Atterberg limits: a review. Geotechnique, 2020, 70, 647-651.	2.2	8
39	Use of fall cones to determine Atterberg limits: a review. Geotechnique, 2020, 70, 652-654.	2.2	8
40	Liquefaction potential for the Kathmandu Valley, Nepal: a sensitivity study. Bulletin of Earthquake Engineering, 2022, 20, 25-51.	2.3	8
41	Discussion of â€œMohajerani method: Tool for determining the liquid limit of soils using fall cone test results with strong correlation with the Casagrande testâ€•by E. Hrubesova, B. Lunackova and M. Mohyla [Engineering Geology 278 (2020) 105852]. Engineering Geology, 2022, 302, 106623.	2.9	8
42	Discussion of â€œRe-Examination of Undrained Strength at Atterberg Limits Water Contentsâ€•by H.B. Nagaraj, A. Sridharan & H.M. Mallikarjuna. Geotechnical and Geological Engineering, 2012, 30, 1389-1391.	0.8	7
43	Assessing the suitability of bridge-scour-monitoring devices. Proceedings of the Institution of Civil Engineers: Forensic Engineering, 2021, 174, 105-117.	0.5	7
44	Ranking Binder Creep Performance Using the ARRB Elastometer. Journal of Materials in Civil Engineering, 2010, 22, 451-459.	1.3	6
45	Some Recent Developments in the Determination of the Atterberg Limits. , 2014, , .		6
46	Discussion of â€˜Factors influencing undrained strength of fine-grained soils at high water contentsâ€™ by H. B. Nagaraj, M.V. Sravan and B. S. Deepa. Geomechanics and Geoengineering, 2021, 16, 417-419.	0.9	6
47	Discussion: Remoulded shear strength at plastic and semi-solid states. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2013, 166, 515-517.	0.9	5
48	Rapid deployment of a WSN on the Clifton Suspension Bridge, UK. Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction, 2017, 170, 59-71.	1.1	5
49	Assessing the hydraulic conductivity of road paving materials using representative pore size and grading entropy. Ce/Papers, 2018, 2, 871-876.	0.1	5
50	Geodatabases to improve geotechnical design and modelling. Ce/Papers, 2018, 2, 401-406.	0.1	5
51	Permeability assessment of some granular mixtures. Geotechnique, 2020, 70, 845-847.	2.2	5
52	Parameter variability of undrained shear strength and strain using a database of reconstituted soil tests. Canadian Geotechnical Journal, 2020, 57, 1247-1255.	1.4	5
53	Use of fall-cone flow index for soil classification: a new plasticity chart. Geotechnique, 2023, 73, 648-654.	2.2	5
54	Discussion: Measuring the plastic limit of fine soils: an experimental study. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2016, 169, 86-89.	0.9	4

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55	Correlation of the Hydraulic Conductivity of Fine-Grained Soils with Water Content Ratio Using a Database. Environmental Geotechnics, 2019, , 1-12.	1.3	4
56	Survey of the use of data in UK bridge asset management. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2019, , 1-37.	0.3	4
57	Studying hydraulic conductivity of asphalt concrete using a database. Transportation Engineering, 2021, 3, 100040.	2.3	4
58	Discussion: Laboratory measurement of strength mobilisation in kaolin: link to stress history. Geotechnique Letters, 2013, 3, 16-17.	0.6	3
59	A new tram network for Bristol: a possible scenario?. Proceedings of the Institution of Civil Engineers: Municipal Engineer, 2016, 169, 19-30.	0.4	3
60	On the variability of the effective friction angle of Saint Lucian soils: investigations through a laboratory database. Ce/Papers, 2018, 2, 779-784.	0.1	3
61	Comparison of Prediction Models for the Permeability of Granular Materials Using a Database. Sustainable Civil Infrastructures, 2019, , 1-13.	0.1	3
62	Discussion of â€œReclaimed Lignin-Stabilized Silty Soil: Undrained Shear Strength, Atterberg Limits, and Microstructure Characteristicsâ€•by Tao Zhang, Guojun Cai, and Songyu Liu. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	3
63	The DINGO database of axial pile load tests for the UK: settlement prediction in fine-grained soils. Georisk, 2022, 16, 640-661.	2.6	3
64	Analytical Approaches to Predict Pile Settlement in London Clay. Sustainable Civil Infrastructures, 2019, , 162-180.	0.1	3
65	Theoretical t-z Curves for Axially Loaded Piles. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	1.5	3
66	Discussion: Bored pile design in stiff clay I: codes of practice. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2014, 167, 87-88.	0.9	2
67	Discussion of â€œEvaluating the Relationship between Permeability and Moisture Damage of Asphalt Concrete Pavementsâ€•by Rafiqul A. Tarefder and Mohiuddin Ahmad. Journal of Materials in Civil Engineering, 2015, 27, 07015009.	1.3	2
68	Insights from CPTu and Seismic Cone Penetration Testing in the Kathmandu Valley, Nepal. Frontiers in Built Environment, 2021, 7, .	1.2	2
69	Co-Producing Data and Decision Support Tools to Reduce Landslide Risk in the Humid Tropics. ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 567-573.	0.3	2
70	Discussion: How Eurocode 7 has affected geotechnical design: a review. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2013, 166, 610-612.	0.9	1
71	Discussion of â€œUndrained Youngâ€™s Modulus of Fine-Grained Soilsâ€•by B. Casey, J. T. Germaine, N. O. Abdulhadi, N. S. Kontopoulos, and C. A. Jones. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, 07016023.	1.5	1
72	Discussion: A new tram network for Bristol â€“ a possible scenario?. Proceedings of the Institution of Civil Engineers: Municipal Engineer, 2017, 170, 185-185.	0.4	1

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73	Assessing the Potential Value of a SHM Deployment on a Proposed Footbridge. Sustainable Civil Infrastructures, 2019, , 151-166.	0.1	1
74	Developing an Experimental Strategy to Investigate Stress-Strain Models Using Kaolin. Sustainable Civil Infrastructures, 2019, , 99-118.	0.1	1
75	Capturing the views of geoscientists on data sharing: a focus on the geotechnical community. Quarterly Journal of Engineering Geology and Hydrogeology, 2021, 54, qjegh2019-138.	0.8	1
76	Analysis of visual inspection data for a sample of highway bridges in the UK. Proceedings of the Institution of Civil Engineers: Forensic Engineering, 0, , 1-10.	0.5	1
77	Discussion of â€œCharacterization of Model Uncertainty for Cantilever Deflections in Undrained Clayâ€• by D. M. Zhang, K. K. Phoon, H. W. Huang, and Q. F. Hu. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, 07015036.	1.5	0
78	Discussion: Assessing the potential value of bridge monitoring systems. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2017, 170, 87-88.	0.3	0
79	Residential Damp Detection with Temperature and Humidity Urban Sensing. , 2019, , .		0
80	Assessing Transformation Models Using a Geo-Database of Site Investigation Data for the Kathmandu Valley, Nepal. Lecture Notes in Civil Engineering, 2021, , 331-338.	0.3	0
81	Soil Databases to Assist Slope Stability Assessments in the Eastern Caribbean. ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 407-413.	0.3	0