Antonios Zervos

List of Publications by Year
in descending order

39	1,354	331538	360920
papers	citations	21 h-index	35 g-index

42	42	42	979
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A finite element displacement formulation for gradient elastoplasticity. International Journal for Numerical Methods in Engineering, 2001, 50, 1369-1388.	1.5	114
2	Modelling of localisation and scale effect in thick-walled cylinders with gradient elastoplasticity. International Journal of Solids and Structures, 2001, 38, 5081-5095.	1.3	97
3	A threeâ€dimensional C¹ finite element for gradient elasticity. International Journal for Numerical Methods in Engineering, 2009, 77, 1396-1415.	1.5	95
4	Finite elements for elasticity with microstructure and gradient elasticity. International Journal for Numerical Methods in Engineering, 2008, 73, 564-595.	1.5	86
5	Two Finite-Element Discretizations for Gradient Elasticity. Journal of Engineering Mechanics - ASCE, 2009, 135, 203-213.	1.6	85
6	Dependence of shape on particle size for a crushed rock railway ballast. Granular Matter, 2013, 15, 849-861.	1.1	77
7	What causes large submarine landslides on low gradient (<2Â°) continental slopes with slow (â¼0.15) Tj ETQq1 1 0.784314 rgBT	1.4	71
8	The effect of boundary conditions, model size and damping models in the finite element modelling of a moving load on a track/ground system. Soil Dynamics and Earthquake Engineering, 2016, 89, 12-27.	1.9	60
9	Thermo-poro-mechanical analysis of landslides: from creeping behaviour to catastrophic failure. Geotechnique, 2016, 66, 202-219.	2.2	59
10	The influence of soil nonlinear properties on the track/ground vibration induced by trains running on soft ground. Transportation Geotechnics, 2017, 11, 1-16.	2.0	58
11	Effect of Sleeper Interventions on Railway Track Performance. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	1.5	56
12	A thermoâ€mechanical model for the catastrophic collapse of large landslides. International Journal for Numerical and Analytical Methods in Geomechanics, 2011, 35, 1507-1535.	1.7	50
13	Improving the performance of railway tracks through ballast interventions. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 337-355.	1.3	45
14	Discrete element simulation of railway ballast: modelling cell pressure effects in triaxial tests. Granular Matter, 2016, 18, 1.	1.1	44
15	A Review and Evaluation of Ballast Settlement Models using Results from the Southampton Railway Testing Facility (SRTF). Procedia Engineering, 2016, 143, 999-1006.	1.2	44
16	The Stokoe resonant column apparatus: effects of stiffness, mass and specimen fixity. Geotechnique, 2009, 59, 429-437.	2.2	41
17	Wellbore Stability Analysis: From Linear Elasticity to Postbifurcation Modeling. International Journal of Geomechanics, 2004, 4, 2-12.	1.3	39
18	Modelling the effects of trafficking and tamping on scaled railway ballast in triaxial tests. Transportation Geotechnics, 2018, 15, 84-90.	2.0	31

#	Article	IF	Citations
19	Influence of thermomechanics in the catastrophic collapse of planar landslides. Canadian Geotechnical Journal, 2012, 49, 207-225.	1.4	30
20	Modelling railway ballasted track settlement in vehicle-track interaction analysis. Transportation Geotechnics, 2021, 26, 100433.	2.0	30
21	Numerical modelling of railway ballast at the particle scale. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 713-737.	1.7	25
22	Numerical investigation of granular interfaces kinematics. International Journal for Numerical and Analytical Methods in Geomechanics, 2000, 5, 305-324.	1.0	18
23	A behavioural framework for fibre-reinforced gravel. Geotechnique, 2017, 67, 56-68.	2.2	18
24	Scaling relationships for strip fibreâ€“reinforced aggregates. Canadian Geotechnical Journal, 2017, 54, 710-719.	1.4	17
25	Influence of Nonassociativity on Localization and Failure in Geomechanics Based on Gradient Elastoplasticity. International Journal of Geomechanics, 2007, 7, 63-74.	1.3	14
26	A method for creating a class of triangular C¹ finite elements. International Journal for Numerical Methods in Engineering, 2012, 89, 1437-1450.	1.5	14
27	How Do â^¼2Â° Slopes Fail in Areas of Slow Sedimentation? A Sensitivity Study on the Influence of Accumulation Rate and Permeability on Submarine Slope Stability. , 2012, , 277-287.		11
28	Polynomial C1 shape functions on the triangle. Computers and Structures, 2013, 118, 53-58.	2.4	6
29	Second-grade elasticity revisited. Mathematics and Mechanics of Solids, 2019, 24, 748-777.	1.5	5
30	Numerical solution of crack problems in gradient elasticity. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2010, 163, 73-82.	0.4	4
31	Characterization of shallow overpressure in consolidating submarine slopes via seismic full waveform inversion. Quarterly Journal of Engineering Geology and Hydrogeology, 2020, 53, 366-377.	0.8	2
32	Computational post failure analysis with a second gradient theory Gradient elastoplasticity. European Journal of Environmental and Civil Engineering, 2010, 14, 1067-1079.	1.0	2
33	Romania needs overseas reviewers. Nature, 2012, 492, 186-186.	13.7	1
34	Continua with microstructure: second-gradient theory. Theory, examples and computational issues. European Journal of Environmental and Civil Engineering, 2010, 14, 1031-1050.	1.0	1
35	An Alternative Approach to Track Settlement Prediction. Lecture Notes in Civil Engineering, 2022, , 99-112.	0.3	1
36	Modelling Creeping and Catastrophic Failure of Thermomechanically Driven Landslides. Springer Series in Geomechanics and Geoengineering, 2017, , 207-212.	0.0	0

#	Article	IF	Citations
37	Closure to â€œEffect of Sleeper Interventions on Railway Track Performanceâ€•by Taufan Abadi, Louis Le Pen, Antonis Zervos, and William Powrie. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, 07020002.	1.5	0
38	A Numerical Investigation of Sediment Destructuring as a Potential Globally Widespread Trigger for Large Submarine Landslides on Low Gradients. Advances in Natural and Technological Hazards Research, 2014, , 177-188.	1.1	0
39	The Influence of Shear Heating on the Development of Creeping Landslides. , 2015, , 1491-1494.		0