Stefanos-Aldo Papanicolopulos

List of Publications by Year
in descending order

27 papers	591 citations	840119 11 h-index	676716 22 g-index
28 all docs	28 docs citations	28 times ranked	454 citing authors

#	ARTICLE	IF	CITATIONS
1	A threeâ€dimensional C¹ finite element for gradient elasticity. International Journal for Numerical Methods in Engineering, 2009, 77, 1396-1415.	1.5	95
2	DEM study of mechanical characteristics of multi-spherical and superquadric particles at micro and macro scales. Powder Technology, 2018, 329, 288-303.	2.1	94
3	Two Finite-Element Discretizations for Gradient Elasticity. Journal of Engineering Mechanics - ASCE, 2009, 135, 203-213.	1.6	85
4	Effect of particle morphology and contacts on particle breakage in a granular assembly studied using X-ray tomography. Granular Matter, 2019, 21, 1.	1.1	61
5	Evolution of deformation and breakage in sand studied using X-ray tomography. Geotechnique, 2018, 68, 107-117.	2.2	58
6	Chirality in isotropic linear gradient elasticity. International Journal of Solids and Structures, 2011, 48, 745-752.	1.3	44
7	Sliding and rolling dissipation in Cosserat plasticity. Granular Matter, 2011, 13, 197-204.	1.1	27
8	Influence of various DEM shape representation methods on packing and shearing of granular assemblies. Granular Matter, 2021, 23, 1.	1.1	19
9	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
10	Computation of moderate-degree fully-symmetric cubature rules on the triangle using symmetric polynomials and algebraic solving. Computers and Mathematics With Applications, 2015, 69, 650-666.	1.4	13
11	Comparison of multi-sphere and superquadric particle representation for modelling shearing and flow characteristics of granular assemblies. EPJ Web of Conferences, 2017, 140, 06015.	0.1	10
12	Evolution of particle breakage studied using x-ray tomography and the discrete element method. EPJ Web of Conferences, 2017, 140, 07013.	0.1	10
13	New fully symmetric and rotationally symmetric cubature rules on the triangle using minimal orthonormal bases. Journal of Computational and Applied Mathematics, 2016, 294, 39-48.	1.1	9
14	A novel efficient mixed formulation for strainâ€gradient models. International Journal for Numerical Methods in Engineering, 2019, 117, 926-937.	1.5	8
15	Efficient computation of cubature rules with application to new asymmetric rules on the triangle. Journal of Computational and Applied Mathematics, 2016, 304, 73-83.	1.1	7
16	The Pullâ€Out Problem in Restoring Marble Fragments: A Design Criterion Based on Experimental Results. Strain, 2009, 45, 433-444.	1.4	6
17	Polynomial C1 shape functions on the triangle. Computers and Structures, 2013, 118, 53-58.	2.4	6
18	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

#	Article	IF	Citations
19	Continua with microstructure: second-gradient theory. European Journal of Environmental and Civil Engineering, 2010, 14, 1031-1050.	1.0	3
20	Mechanical Behaviour and Properties. , 2006, , 71-92.		3
21	Discretization of Gradient Elasticity Problems Using C 1 Finite Elements. Advances in Mechanics and Mathematics, 2010, , 269-277.	0.2	3
22	Contact orientation distributions for visualisation of granular fabric. Granular Matter, 2022, 24, 1.	1.1	1
23	Post-processing and visualization of large-scale DEM simulation data with the open-source VELaSSCo platform. Simulation, 2020, 96, 567-581.	1.1	0
24	Indentation method for damage diagnosis of natural building stones. , 2004, , 263-275.		0
25	Restoring Marble Fragments: the Pull-Out Problem. , 2007, , 949-950.		0
26	The Mechanical Strength of Intestinal Anastomoses in Hypothyroid Rats. , 2007, , 81-82.		0
27	Review and Comparison of Numerical Implementations for Cosserat Plasticity. Springer Series in Geomechanics and Geoengineering, 2017, , 225-231.	0.0	0