

Giuseppe Cocchetti

List of Publications by Year in descending order

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45
papers

704
citations

623734

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580821

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docs citations

45
times ranked

443
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic-plastic and limit-state analyses of frames with softening plastic-hinge models by mathematical programming. <i>International Journal of Solids and Structures</i> , 2003, 40, 7219-7244.	2.7	80
2	Soil-pipeline interaction along unstable slopes: a coupled three-dimensional approach. Part 1: Theoretical formulation. <i>Canadian Geotechnical Journal</i> , 2009, 46, 1289-1304.	2.8	57
3	Selective mass scaling and critical time-step estimate for explicit dynamics analyses with solid-shell elements. <i>Computers and Structures</i> , 2013, 127, 39-52.	4.4	52
4	Poroelastic finite element analysis of a bone specimen under cyclic loading. <i>Journal of Biomechanics</i> , 1999, 32, 135-144.	2.1	44
5	Static shakedown theorems in piecewise linearized poroplasticity. <i>Archive of Applied Mechanics</i> , 1998, 68, 651-661.	2.2	43
6	Statistical approach to damage diagnosis of concrete dams by radar monitoring: Formulation and a pseudo-experimental test. <i>Engineering Structures</i> , 2006, 28, 2036-2045.	5.3	39
7	Analytical and numerical DDA analysis on the collapse mode of circular masonry arches. <i>Engineering Structures</i> , 2014, 60, 241-257.	5.3	35
8	On structural safety assessment by load factor maximization in piecewise linear plasticity. <i>European Journal of Mechanics, A/Solids</i> , 2008, 27, 859-881.	3.7	34
9	Direct assessment of structural resistance against pressurized fracture. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2003, 27, 353-378.	3.3	33
10	On the Analysis of Minimum Thickness in Circular Masonry Arches. <i>Applied Mechanics Reviews</i> , 2011, 64, .	10.1	27
11	Soil-pipeline interaction along unstable slopes: a coupled three-dimensional approach. Part 2: Numerical analyses. <i>Canadian Geotechnical Journal</i> , 2009, 46, 1305-1321.	2.8	26
12	MECHANICAL CHARACTERIZATION OF MATERIALS AND DIAGNOSIS OF STRUCTURES BY INVERSE ANALYSES: SOME INNOVATIVE PROCEDURES AND APPLICATIONS. <i>International Journal of Computational Methods</i> , 2014, 11, 1343002.	1.3	22
13	Shakedown analysis in poroplasticity by linear programming. <i>International Journal for Numerical Methods in Engineering</i> , 2000, 47, 141-168.	2.8	20
14	Assessment of residual stresses and mechanical characterization of materials by "hole drilling" and indentation tests combined and by inverse analysis. <i>Mechanics Research Communications</i> , 2015, 68, 18-24.	1.8	15
15	Selective mass scaling for distorted solid-shell elements in explicit dynamics: optimal scaling factor and stable time step estimate. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 101, 700-731.	2.8	14
16	Limit Analysis of a historical iron arch bridge. Formulation and computational implementation. <i>Computers and Structures</i> , 2016, 175, 184-196.	4.4	14
17	Shakedown analysis of train wheels by Fourier series and nonlinear programming. <i>Engineering Structures</i> , 2004, 26, 455-470.	5.3	13
18	A domain decomposition approach for the simulation of fracture phenomena in polycrystalline microsystems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 277, 180-218.	6.6	11

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19	Estimation of residual stresses by inverse analysis based on experimental data from sample removal for small punch tests. <i>Engineering Structures</i> , 2017, 136, 77-86.	5.3	11
20	Computational elastoplastic Limit Analysis of the Paderno d'Adda bridge (Italy, 1889). <i>Archives of Civil and Mechanical Engineering</i> , 2018, 18, 291-310.	3.8	11
21	Mechanical Characterization of Foils with Compression in Their Planes. <i>Mechanics of Advanced Materials and Structures</i> , 2014, 21, 853-870.	2.6	9
22	On a case of crack path bifurcation in cohesive materials. <i>Archive of Applied Mechanics</i> , 1998, 68, 513-523.	2.2	8
23	Effective iterative algorithm for the Limit Analysis of truss-frame structures by a kinematic approach. <i>Computers and Structures</i> , 2018, 197, 28-41.	4.4	8
24	Generalized limit analysis in poroplasticity by mathematical programming. <i>Archive of Applied Mechanics</i> , 2010, 80, 57-72.	2.2	7
25	Calibration of brittle fracture models by sharp indenters and inverse analysis. <i>International Journal of Fracture</i> , 2013, 184, 123-136.	2.2	7
26	A rigorous bound on error in backward-difference elastoplastic time-integration. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003, 192, 4909-4927.	6.6	6
27	Strength assessment of adhesively bonded tile claddings. <i>International Journal of Solids and Structures</i> , 2011, 48, 2048-2059.	2.7	6
28	Elastoplastic analysis of frames composed of softening materials by restricted basis linear programming. <i>Computers and Structures</i> , 2014, 131, 98-108.	4.4	6
29	Elastoplastic analysis of plane stress/strain structures via restricted basis linear programming. <i>Computers and Structures</i> , 2015, 146, 1-11.	4.4	6
30	Reference Structural Investigation on a 19th-Century Arch Iron Bridge Loyal to Design-Stage Conditions. <i>International Journal of Architectural Heritage</i> , 2020, 14, 1425-1455.	3.1	6
31	Nonlinear programming numerical formulation to acquire limit self-standing conditions of circular masonry arches accounting for limited friction. <i>International Journal of Masonry Research and Innovation</i> , 2020, 5, 569.	0.4	6
32	Parameter identification in elastoplastic material models by Small Punch Tests and inverse analysis with model reduction. <i>Meccanica</i> , 2018, 53, 3815-3829.	2.0	5
33	Static Upper/Lower Thrust and Kinematic Work Balance Stationarity for Least-Thickness Circular Masonry Arch Optimization. <i>Journal of Optimization Theory and Applications</i> , 2020, 187, 707-757.	1.5	5
34	Analytical and numerical analysis on the collapse modes of least-thickness circular masonry arches at decreasing friction. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 356-375.	0.9	3
35	Analytical and Numerical Analysis on the Collapse Mode of Circular Masonry Arches. <i>Advanced Materials Research</i> , 2010, 133-134, 467-472.	0.3	2
36	A domain decomposition method for the simulation of fracture in polysilicon MEMS. <i>Microelectronics Reliability</i> , 2013, 53, 1045-1054.	1.7	2

#	ARTICLE	IF	CITATIONS
37	Materials Mechanical Characterizations and Structural Diagnoses by Inverse Analyses. , 2015, , 619-642.		2
38	Evolutionary and Kinematic Limit Analysis Algorithms for Large-Scale 3D Truss-Frame Structures: Comparison Application to Historic Iron Bridge Arch. International Journal of Computational Methods, 2020, 17, 1940020.	1.3	2
39	Least-thickness symmetric circular masonry arch of maximum horizontal thrust. Archive of Applied Mechanics, 2021, 91, 2617-2639.	2.2	2
40	A domain decomposition method for the simulation of fracture in polysilicon MEMS. , 2012, , .		1
41	Inverse Structural Analyses on Small Punch Tests, with Model Reduction and Stochastic Approach. , 2018, , .		1
42	On optimum perforation layout in low-rise steel plate shear walls. Mechanics of Advanced Materials and Structures, 2022, 29, 4923-4933.	2.6	1
43	Materials Mechanical Characterizations and Structural Diagnoses by Inverse Analyses. , 2013, , 1-21.		1
44	Non-linear programming numerical formulation to acquire limit self-standing conditions of circular masonry arches accounting for limited friction. International Journal of Masonry Research and Innovation, 2020, 5, 1.	0.4	1
45	Thermo-electrical and structural coupled simulations of buckling beam microprobes in high temperature/high current conditions. , 2014, , .		0