

Giuseppe Cocchetti

List of Publications by Year in descending order

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45
papers

704
citations

623734

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docs citations

45
times ranked

443
citing authors

#	ARTICLE	IF	CITATIONS
1	On optimum perforation layout in low-rise steel plate shear walls. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 4923-4933.	2.6	1
2	Least-thickness symmetric circular masonry arch of maximum horizontal thrust. <i>Archive of Applied Mechanics</i> , 2021, 91, 2617-2639.	2.2	2
3	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
4	Evolutionary and Kinematic Limit Analysis Algorithms for Large-Scale 3D Truss-Frame Structures: Comparison Application to Historic Iron Bridge Arch. <i>International Journal of Computational Methods</i> , 2020, 17, 1940020.	1.3	2
5	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
6	Non-linear 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, 1.	0.4	1
7	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
8	Analytical and numerical analysis on the collapse modes of least-thickness circular masonry arches at decreasing friction. <i>Frattura Ed Integrità Strutturale</i> , 2020, 14, 356-375.	0.9	3
9	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
10	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
11	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
12	Inverse Structural Analyses on Small Punch Tests, with Model Reduction and Stochastic Approach. , 2018, , .		1
13	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
14	Limit Analysis of a historical iron arch bridge. Formulation and computational implementation. <i>Computers and Structures</i> , 2016, 175, 184-196.	4.4	14
15	Materials Mechanical Characterizations and Structural Diagnoses by Inverse Analyses. , 2015, , 619-642.		2
16	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
17	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
18	Elastoplastic analysis of plane stress/strain structures via restricted basis linear programming. <i>Computers and Structures</i> , 2015, 146, 1-11.	4.4	6

#	ARTICLE	IF	CITATIONS
19	MECHANICAL CHARACTERIZATION OF MATERIALS AND DIAGNOSIS OF STRUCTURES BY INVERSE ANALYSES: SOME INNOVATIVE PROCEDURES AND APPLICATIONS. International Journal of Computational Methods, 2014, 11, 1343002.	1.3	22
20	Analytical and numerical DDA analysis on the collapse mode of circular masonry arches. Engineering Structures, 2014, 60, 241-257.	5.3	35
21	Mechanical Characterization of Foils with Compression in Their Planes. Mechanics of Advanced Materials and Structures, 2014, 21, 853-870.	2.6	9
22	Thermo-electrical and structural coupled simulations of buckling beam microprobes in high temperature/high current conditions. , 2014, , .		0
23	Elastoplastic analysis of frames composed of softening materials by restricted basis linear programming. Computers and Structures, 2014, 131, 98-108.	4.4	6
24	A domain decomposition approach for the simulation of fracture phenomena in polycrystalline microsystems. Computer Methods in Applied Mechanics and Engineering, 2014, 277, 180-218.	6.6	11
25	A domain decomposition method for the simulation of fracture in polysilicon MEMS. Microelectronics Reliability, 2013, 53, 1045-1054.	1.7	2
26	Selective mass scaling and critical time-step estimate for explicit dynamics analyses with solid-shell elements. Computers and Structures, 2013, 127, 39-52.	4.4	52
27	Calibration of brittle fracture models by sharp indenters and inverse analysis. International Journal of Fracture, 2013, 184, 123-136.	2.2	7
28	Materials Mechanical Characterizations and Structural Diagnoses by Inverse Analyses. , 2013, , 1-21.		1
29	A domain decomposition method for the simulation of fracture in polysilicon MEMS. , 2012, , .		1
30	Strength assessment of adhesively bonded tile claddings. International Journal of Solids and Structures, 2011, 48, 2048-2059.	2.7	6
31	On the Analysis of Minimum Thickness in Circular Masonry Arches. Applied Mechanics Reviews, 2011, 64, .	10.1	27
32	Generalized limit analysis in poroplasticity by mathematical programming. Archive of Applied Mechanics, 2010, 80, 57-72.	2.2	7
33	Analytical and Numerical Analysis on the Collapse Mode of Circular Masonry Arches. Advanced Materials Research, 2010, 133-134, 467-472.	0.3	2
34	Soil-pipeline interaction along unstable slopes: a coupled three-dimensional approach. Part 1: Theoretical formulation. Canadian Geotechnical Journal, 2009, 46, 1289-1304.	2.8	57
35	Soil-pipeline interaction along unstable slopes: a coupled three-dimensional approach. Part 2: Numerical analyses. Canadian Geotechnical Journal, 2009, 46, 1305-1321.	2.8	26
36	On structural safety assessment by load factor maximization in piecewise linear plasticity. European Journal of Mechanics, A/Solids, 2008, 27, 859-881.	3.7	34

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37	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
38	Shakedown analysis of train wheels by Fourier series and nonlinear programming. <i>Engineering Structures</i> , 2004, 26, 455-470.	5.3	13
39	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
40	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
41	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
42	Shakedown analysis in poroplasticity by linear programming. <i>International Journal for Numerical Methods in Engineering</i> , 2000, 47, 141-168.	2.8	20
43	Poroelastic finite element analysis of a bone specimen under cyclic loading. <i>Journal of Biomechanics</i> , 1999, 32, 135-144.	2.1	44
44	On a case of crack path bifurcation in cohesive materials. <i>Archive of Applied Mechanics</i> , 1998, 68, 513-523.	2.2	8
45	Static shakedown theorems in piecewise linearized poroplasticity. <i>Archive of Applied Mechanics</i> , 1998, 68, 651-661.	2.2	43