

Lorenzo Leonetti

List of Publications by Year in descending order

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45
papers

1,181
citations

236925

25
h-index

377865

34
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45
all docs

45
docs citations

45
times ranked

519
citing authors

#	ARTICLE	IF	CITATIONS
1	A multiscale damage analysis of periodic composites using a couple-stress/Cauchy multidomain model: Application to masonry structures. Composites Part B: Engineering, 2018, 141, 50-59.	12.0	73
2	Mechanical behavior of bio-inspired nacre-like composites: A hybrid multiscale modeling approach. Composite Structures, 2020, 233, 111625.	5.8	65
3	A study of concrete cover separation failure in FRP-plated RC beams via an inter-element fracture approach. Composite Structures, 2019, 212, 625-636.	5.8	57
4	Failure Analysis of Ultra High-Performance Fiber-Reinforced Concrete Structures Enhanced with Nanomaterials by Using a Diffuse Cohesive Interface Approach. Nanomaterials, 2020, 10, 1792.	4.1	51
5	A two-scale failure analysis of composite materials in presence of fiber/matrix crack initiation and propagation. Composite Structures, 2013, 95, 582-597.	5.8	50
6	A MULTISCALE/MULTIDOMAIN MODEL FOR THE FAILURE ANALYSIS OF MASONRY WALLS: A VALIDATION WITH A COMBINED FEM/DEM APPROACH. International Journal for Multiscale Computational Engineering, 2018, 16, 325-343.	1.2	49
7	Crack propagation analysis in composite materials by using moving mesh and multiscale techniques. Computers and Structures, 2015, 153, 201-216.	4.4	48
8	An adaptive multiscale strategy for the damage analysis of masonry modeled as a composite material. Composite Structures, 2016, 153, 972-988.	5.8	43
9	A refined diffuse cohesive approach for the failure analysis in quasibrittle materials"part II: Application to plain and reinforced concrete structures. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2764-2781.	3.4	42
10	A refined diffuse cohesive approach for the failure analysis in quasibrittle materials"part I: Theoretical formulation and numerical calibration. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 221-241.	3.4	42
11	Adaptive multiscale modeling of fiber-reinforced composite materials subjected to transverse microcracking. Composite Structures, 2014, 113, 249-263.	5.8	41
12	Multiscale failure analysis of periodic masonry structures with traditional and fiber-reinforced mortar joints. Composites Part B: Engineering, 2017, 118, 75-95.	12.0	41
13	Mixed-mode fracture in lightweight aggregate concrete by using a moving mesh approach within a multiscale framework. Composite Structures, 2015, 123, 88-97.	5.8	40
14	A multiscale analysis of instability-induced failure mechanisms in fiber-reinforced composite structures via alternative modeling approaches. Composite Structures, 2020, 251, 112529.	5.8	39
15	Non-linear macroscopic response of fiber-reinforced composite materials due to initiation and propagation of interface cracks. Engineering Fracture Mechanics, 2012, 80, 92-113.	4.3	38
16	A novel approach based on ALE and delamination fracture mechanics for multilayered composite beams. Composites Part B: Engineering, 2015, 78, 447-458.	12.0	38
17	A multiscale model for the numerical simulation of the anchor bolt pull-out test in lightweight aggregate concrete. Construction and Building Materials, 2015, 95, 860-874.	7.2	38
18	An investigation about debonding mechanisms in FRP-strengthened RC structural elements by using a cohesive/volumetric modeling technique. Theoretical and Applied Fracture Mechanics, 2022, 117, 103199.	4.7	37

#	ARTICLE	IF	CITATIONS
19	Some Novel Numerical Applications of Cosserat Continua. <i>International Journal of Computational Methods</i> , 2018, 15, 1850054.	1.3	33
20	â€˜Explicitâ€™ and â€˜implicitâ€™ non-local continuous descriptions for a plate with circular inclusion in tension. <i>Meccanica</i> , 2020, 55, 927-944.	2.0	32
21	Nonlinear compressive failure analysis of biaxially loaded fiber reinforced materials. <i>Composites Part B: Engineering</i> , 2018, 147, 240-251.	12.0	31
22	Scale Effects in Orthotropic Composite Assemblies as Micropolar Continua: A Comparison between Weak- and Strong-Form Finite Element Solutions. <i>Materials</i> , 2019, 12, 758.	2.9	28
23	Macro- and micro-instabilities in incompressible bioinspired composite materials with nacre-like microstructure. <i>Composite Structures</i> , 2021, 269, 114004.	5.8	27
24	A cohesive fracture model for predicting crack spacing and crack width in reinforced concrete structures. <i>Engineering Failure Analysis</i> , 2022, 139, 106452.	4.0	27
25	Investigation of concrete cracking phenomena by using cohesive fracture-based techniques: A comparison between an embedded crack model and a refined diffuse interface model. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 115, 103062.	4.7	25
26	Band gap tuning through microscopic instabilities of compressively loaded lightened nacre-like composite metamaterials. <i>Composite Structures</i> , 2022, 282, 115032.	5.8	24
27	Micromodels for the in-plane failure analysis of masonry walls: Limit Analysis, FEM and FEM/DEM approaches. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 504-516.	0.9	23
28	Effects of microfracture and contact induced instabilities on the macroscopic response of finitely deformed elastic composites. <i>Composites Part B: Engineering</i> , 2016, 107, 233-253.	12.0	20
29	A detailed micro-model for brick masonry structures based on a diffuse cohesive-frictional interface fracture approach. <i>Procedia Structural Integrity</i> , 2020, 25, 334-347.	0.8	19
30	Investigation of mesh dependency issues in the simulation of crack propagation in quasi-brittle materials by using a diffuse interface modeling approach. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 801-820.	3.4	17
31	Nonlinear analysis of microscopic instabilities in fiber-reinforced composite materials. <i>Procedia Structural Integrity</i> , 2020, 25, 400-412.	0.8	13
32	Structural and seismic vulnerability assessment of the Santa Maria Assunta Cathedral in Catanzaro (Italy): classical and advanced approaches for the analysis of local and global failure mechanisms. <i>Frattura Ed Integrita Strutturale</i> , 2022, 16, 464-487.	0.9	8
33	Investigation of Microscopic Instabilities in Fiber-Reinforced Composite Materials by Using Multiscale Modeling Strategies. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 571-582.	0.4	6
34	An Inter-element Fracture Approach for the Analysis of Concrete Cover Separation Failure in FRP-Reinforced RC Beams. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 537-549.	0.4	6
35	â€˜Explicitâ€™ and â€˜Implicitâ€™ Non-local Continuum Descriptions: Plate with Circular Hole. <i>Springer Tracts in Mechanical Engineering</i> , 2021, , 311-338.	0.3	4
36	Prediction of Microscopic Interface Crack Onset in Fiber-Reinforced Composites by Using a Multi-Scale Homogenization Procedure. <i>Advanced Materials Research</i> , 0, 875-877, 1032-1036.	0.3	1

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37	Finite element analysis of concrete cracking: a comparative study between a diffuse interface model and an embedded crack model. <i>Procedia Structural Integrity</i> , 2021, 33, 954-965.	0.8	1
38	Crack propagation analysis in masonry structures via an inter-element cohesive fracture approach: assessment of mesh dependency issues. <i>Procedia Structural Integrity</i> , 2022, 39, 638-648.	0.8	1
39	Cracking analysis in Ultra-High-Performance Fiber-Reinforced Concrete with embedded nanoparticles via a diffuse interface approach. <i>Procedia Structural Integrity</i> , 2022, 39, 688-699.	0.8	1
40	Debonding failure analysis of FRP-plated RC beams via an inter-element cohesive fracture approach. <i>Procedia Structural Integrity</i> , 2022, 39, 677-687.	0.8	1
41	A hybrid cohesive/volumetric multiscale finite element model for the failure analysis of fiber-reinforced composite structures. <i>Procedia Structural Integrity</i> , 2022, 41, 439-451.	0.8	1
42	A Concurrent Multiscale Model for Crack Propagation Analysis in Composite Materials. <i>Springer Series in Solid and Structural Mechanics</i> , 2017, , 125-142.	0.2	0
43	Stability analysis at the micro- and macro-scales in periodic bioinspired composites. <i>Procedia Structural Integrity</i> , 2021, 33, 1103-1114.	0.8	0
44	Numerical prediction of transverse cracking and delamination in fiber-reinforced laminates by using a two-scale cohesive finite element approach. <i>Procedia Structural Integrity</i> , 2021, 33, 1042-1054.	0.8	0
45	Cracking behavior analysis of reinforced concrete structures by using a cohesive fracture model. <i>Procedia Structural Integrity</i> , 2022, 41, 598-609.	0.8	0