

# Lorenzo Leonetti

## List of Publications by Year in descending order

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45  
papers

1,181  
citations

236925

25  
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377865

34  
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45  
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docs citations

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times ranked

519  
citing authors

#	ARTICLE	IF	CITATIONS
1	Band gap tuning through microscopic instabilities of compressively loaded lightened nacre-like composite metamaterials. <i>Composite Structures</i> , 2022, 282, 115032.	5.8	24
2	An investigation about debonding mechanisms in FRP-strengthened RC structural elements by using a cohesive/volumetric modeling technique. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 117, 103199.	4.7	37
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	“Explicit” and “Implicit” Non-local Continuum Descriptions: Plate with Circular Hole. <i>Springer Tracts in Mechanical Engineering</i> , 2021, , 311-338.	0.3	4
12	Macro- and micro-instabilities in incompressible bioinspired composite materials with nacre-like microstructure. <i>Composite Structures</i> , 2021, 269, 114004.	5.8	27
13	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
14	Stability analysis at the micro- and macro-scales in periodic bioinspired composites. <i>Procedia Structural Integrity</i> , 2021, 33, 1103-1114.	0.8	0
15	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
16	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
17	A refined diffuse cohesive approach for the failure analysis in quasibrittle materials” part I: Theoretical formulation and numerical calibration. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 221-241.	3.4	42
18	Mechanical behavior of bio-inspired nacre-like composites: A hybrid multiscale modeling approach. <i>Composite Structures</i> , 2020, 233, 111625.	5.8	65

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19	“Explicit” and “implicit” non-local continuous descriptions for a plate with circular inclusion in tension. <i>Meccanica</i> , 2020, 55, 927-944.	2.0	32
20	Failure Analysis of Ultra High-Performance Fiber-Reinforced Concrete Structures Enhanced with Nanomaterials by Using a Diffuse Cohesive Interface Approach. <i>Nanomaterials</i> , 2020, 10, 1792.	4.1	51
21	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
22	A multiscale analysis of instability-induced failure mechanisms in fiber-reinforced composite structures via alternative modeling approaches. <i>Composite Structures</i> , 2020, 251, 112529.	5.8	39
23	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
24	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
25	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
26	Nonlinear analysis of microscopic instabilities in fiber-reinforced composite materials. <i>Procedia Structural Integrity</i> , 2020, 25, 400-412.	0.8	13
27	A refined diffuse cohesive approach for the failure analysis in quasibrittle materials”part II: Application to plain and reinforced concrete structures. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 2764-2781.	3.4	42
28	A study of concrete cover separation failure in FRP-plated RC beams via an inter-element fracture approach. <i>Composite Structures</i> , 2019, 212, 625-636.	5.8	57
29	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
30	Nonlinear compressive failure analysis of biaxially loaded fiber reinforced materials. <i>Composites Part B: Engineering</i> , 2018, 147, 240-251.	12.0	31
31	A multiscale damage analysis of periodic composites using a couple-stress/Cauchy multidomain model: Application to masonry structures. <i>Composites Part B: Engineering</i> , 2018, 141, 50-59.	12.0	73
32	Some Novel Numerical Applications of Cosserat Continua. <i>International Journal of Computational Methods</i> , 2018, 15, 1850054.	1.3	33
33	A MULTISCALE/MULTIDOMAIN MODEL FOR THE FAILURE ANALYSIS OF MASONRY WALLS: A VALIDATION WITH A COMBINED FEM/DEM APPROACH. <i>International Journal for Multiscale Computational Engineering</i> , 2018, 16, 325-343.	1.2	49
34	Multiscale failure analysis of periodic masonry structures with traditional and fiber-reinforced mortar joints. <i>Composites Part B: Engineering</i> , 2017, 118, 75-95.	12.0	41
35	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
36	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

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37	An adaptive multiscale strategy for the damage analysis of masonry modeled as a composite material. <i>Composite Structures</i> , 2016, 153, 972-988.	5.8	43
38	A novel approach based on ALE and delamination fracture mechanics for multilayered composite beams. <i>Composites Part B: Engineering</i> , 2015, 78, 447-458.	12.0	38
39	Mixed-mode fracture in lightweight aggregate concrete by using a moving mesh approach within a multiscale framework. <i>Composite Structures</i> , 2015, 123, 88-97.	5.8	40
40	Crack propagation analysis in composite materials by using moving mesh and multiscale techniques. <i>Computers and Structures</i> , 2015, 153, 201-216.	4.4	48
41	A multiscale model for the numerical simulation of the anchor bolt pull-out test in lightweight aggregate concrete. <i>Construction and Building Materials</i> , 2015, 95, 860-874.	7.2	38
42	Adaptive multiscale modeling of fiber-reinforced composite materials subjected to transverse microcracking. <i>Composite Structures</i> , 2014, 113, 249-263.	5.8	41
43	A two-scale failure analysis of composite materials in presence of fiber/matrix crack initiation and propagation. <i>Composite Structures</i> , 2013, 95, 582-597.	5.8	50
44	Non-linear macroscopic response of fiber-reinforced composite materials due to initiation and propagation of interface cracks. <i>Engineering Fracture Mechanics</i> , 2012, 80, 92-113.	4.3	38
45	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