Paolo Lonetti

List of Publications by Year in descending order

89 papers	2,182 citations	147801 31 h-index	265206 42 g-index
91 all docs	91 docs citations	91 times ranked	1200 citing authors

#	ARTICLE	IF	CITATIONS
1	Band gap tuning through microscopic instabilities of compressively loaded lightened nacre-like composite metamaterials. Composite Structures, 2022, 282, 115032.	5.8	24
2	Crack propagation analysis in masonry structures via an inter-element cohesive fracture approach: assessment of mesh dependency issues. Procedia Structural Integrity, 2022, 39, 638-648.	0.8	1
3	Cracking analysis in Ultra-High-Performance Fiber-Reinforced Concrete with embedded nanoparticles via a diffuse interface approach. Procedia Structural Integrity, 2022, 39, 688-699.	0.8	1
4	On the combination of Moving Mesh technique and M-integral method for predicting crack propagation mechanisms in Functionally Graded Materials. Procedia Structural Integrity, 2022, 39, 649-662.	0.8	2
5	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. Frattura Ed Integrita Strutturale, 2022, 16, 464-487.	0.9	8
6	Investigation of mesh dependency issues in the simulation of crack propagation in quasi‐brittle materials by using a diffuse interface modeling approach. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 801-820.	3.4	17
7	An improved fracture approach to investigate the degradation of vibration characteristics for reinforced concrete beams under progressive damage. International Journal of Fatigue, 2022, 163, 107032.	5.7	22
8	Simulation of dynamic fracture in quasi-brittle materials using a finite element modeling approach enhanced by moving mesh technique and interaction integral method. Procedia Structural Integrity, 2022, 41, 576-588.	0.8	0
9	A Cohesive fracture approach for the nonlinear analysis of load-induced degradation of vibration characteristics in RC beams. Procedia Structural Integrity, 2022, 41, 618-630.	0.8	0
10	Dynamic fracture analysis in quasi-brittle materials via a finite element approach based on the combination of the ALE formulation and M̃-integral method. Engineering Failure Analysis, 2022, 141, 106627.	4.0	13
11	On the elastic and mixed-mode fracture properties of PVC foam. Theoretical and Applied Fracture Mechanics, 2021, 112, 102924.	4.7	24
12	Crack propagation modeling in functionally graded materials using Moving Mesh technique and interaction integral approach. Composite Structures, 2021, 269, 114005.	5.8	33
13	Crack propagation under thermo-mechanical loadings based on moving mesh strategy. Theoretical and Applied Fracture Mechanics, 2021, 114, 103033.	4.7	32
14	Impact mitigation measures for bridges under extreme flood actions. Journal of Fluids and Structures, 2021, 106, 103381.	3.4	9
15	An effective modeling approach based on the ALE and M-integral for simulating crack propagation under thermo-mechanical loadings. Procedia Structural Integrity, 2021, 33, 858-870.	0.8	0
16	Numerical prediction of transverse cracking and delamination in fiber-reinforced laminates by using a two-scale cohesive finite element approach. Procedia Structural Integrity, 2021, 33, 1042-1054.	0.8	0
17	A moving mesh FE methodology for vehicle–bridge interaction modeling. Mechanics of Advanced Materials and Structures, 2020, 27, 1256-1268.	2.6	30
18	A Practical Method for the Elastic Buckling Design of Network Arch Bridges. International Journal of Steel Structures, 2020, 20, 311-329.	1.3	18

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19	Vulnerability analysis of bridge superstructures under extreme fluid actions. Journal of Fluids and Structures, 2020, 93, 102843.	3.4	16
20	A Moving Interface Finite Element Formulation to Predict Dynamic Edge Debonding in FRP-Strengthened Concrete Beams in Service Conditions. Fibers, 2020, 8, 42.	4.0	32
21	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
22	Strategies to improve the structural integrity of tied-arch bridges affected by instability phenomena. Procedia Structural Integrity, 2020, 25, 454-464.	0.8	0
23	An investigation on the structural integrity of network arch bridges subjected to cable loss under the action of moving loads. Procedia Structural Integrity, 2020, 25, 305-315.	0.8	6
24	Visual programming for structural assessment of out-of-plane mechanisms in historic masonry structures. Journal of Building Engineering, 2020, 31, 101425.	3.4	27
25	Crack growth propagation modeling based on moving mesh method and interaction integral approach. Procedia Structural Integrity, 2020, 28, 1981-1991.	0.8	5
26	Numerical modeling based on moving mesh method to simulate fast crack propagation. Frattura Ed Integrita Strutturale, 2020, 14, 410-422.	0.9	4
27	An Inter-element Fracture Approach for the Analysis of Concrete Cover Separation Failure in FRP-Reinforced RC Beams. Lecture Notes in Mechanical Engineering, 2020, , 537-549.	0.4	6
28	On the elastic properties of PVC foam. Procedia Structural Integrity, 2020, 28, 1503-1510.	0.8	1
29	A numerical model based on ALE formulation to predict fast crack growth in composite structures. Procedia Structural Integrity, 2019, 18, 422-431.	0.8	2
30	Structural integrity of tied arch bridges affected by instability phenomena. Procedia Structural Integrity, 2019, 18, 891-902.	0.8	5
31	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
32	Dynamic crack growth based on moving mesh method. Composites Part B: Engineering, 2019, 174, 107053.	12.0	21
33	A crack growth strategy based on moving mesh method and fracture mechanics. Theoretical and Applied Fracture Mechanics, 2019, 102, 103-115.	4.7	34
34	Instability design analysis in tied-arch bridges. Mechanics of Advanced Materials and Structures, 2019, 26, 716-726.	2.6	23
35	A numerical model based on ALE formulation to predict crack propagation in sandwich structures. Frattura Ed Integrita Strutturale, 2019, 13, 277-293.	0.9	18
36	Numerical formulation based on moving mesh method for vehicle–bridge interaction. Advances in Engineering Software, 2018, 121, 75-83.	3.8	16

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37	Nonlinear effects in fracture induced failure of compressively loaded fiber reinforced composites. Composite Structures, 2018, 189, 688-699.	5.8	34
38	An interface approach based on moving mesh and cohesive modeling in Z-pinned composite laminates. Composites Part B: Engineering, 2018, 135, 207-217.	12.0	34
39	A coupled ALE-Cohesive formulation for interfacial debonding propagation in sandwich structures. Procedia Structural Integrity, 2018, 9, 92-100.	0.8	5
40	Shear Behavior of Variable-Depth Concrete Beams with Wound Fiberâ€"Reinforced Polymer Shear Reinforcement. Journal of Composites for Construction, 2018, 22, .	3.2	9
41	Dynamic impact analysis of masonry buildings subjected to flood actions. Engineering Structures, 2018, 167, 445-458.	5.3	27
42	Sandwich panels under interfacial debonding mechanisms. Composite Structures, 2018, 203, 310-320.	5.8	51
43	Survey and seismic vulnerability assessment of the Baptistery of San Giovanni in Tumba (Italy). Journal of Cultural Heritage, 2017, 26, 64-78.	3.3	87
44	Initiation and evolution of debonding phenomena in layered structures. Theoretical and Applied Fracture Mechanics, 2017, 92, 133-145.	4.7	32
45	Wound FRP Shear Reinforcement for Concrete Structures. Journal of Composites for Construction, 2017, 21, .	3.2	25
46	A coupled ALE-Cohesive formulation for layered structural systems. Procedia Structural Integrity, 2017, 3, 362-369.	0.8	6
47	Bend-strength of novel filament wound shear reinforcement. Composite Structures, 2017, 176, 244-253.	5.8	27
48	Dynamic debonding in layered structures: a coupled ALE-cohesive approach. Frattura Ed Integrita Strutturale, 2017, 11, 524-535.	0.9	11
49	Dynamic Behavior of Tied-Arch Bridges under the Action of Moving Loads. Mathematical Problems in Engineering, 2016, 2016, 1-17.	1.1	21
50	An optimization model for the design of network arch bridges. Computers and Structures, 2016, 170, 13-25.	4.4	39
51	A cohesive finite element model based ALE formulation for z-pins reinforced multilayered composite beams. Procedia Structural Integrity, 2016, 2, 452-459.	0.8	11
52	A moving interface finite element formulation for layered structures. Composites Part B: Engineering, 2016, 96, 325-337.	12.0	36
53	A numerical study on the structural integrity of self-anchored cable-stayed suspension bridges. Frattura Ed Integrita Strutturale, 2016, 10, 358-376.	0.9	8
54	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

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55	Pre-buckling imperfection sensitivity of pultruded FRP profiles. Composites Part B: Engineering, 2015, 72, 206-212.	12.0	29
56	Crack propagation analysis in composite materials by using moving mesh and multiscale techniques. Computers and Structures, 2015, 153, 201-216.	4.4	48
57	Vulnerability and failure analysis of hybrid cable-stayed suspension bridges subjected to damage mechanisms. Engineering Failure Analysis, 2014, 45, 470-495.	4.0	45
58	Optimum design analysis of hybrid cable-stayed suspension bridges. Advances in Engineering Software, 2014, 73, 53-66.	3.8	45
59	Design analysis of the optimum configuration of self-anchored cable-stayed suspension bridges. Structural Engineering and Mechanics, 2014, 51, 847-866.	1.0	35
60	A fracture-ALE formulation to predict dynamic debonding in FRP strengthened concrete beams. Composites Part B: Engineering, 2013, 46, 46-60.	12.0	40
61	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
62	Dynamic Analysis of Cable-Stayed Bridges Affected by Accidental Failure Mechanisms under Moving Loads. Mathematical Problems in Engineering, 2013, 2013, 1-20.	1.1	29
63	Dynamic interaction of cable supported bridges with traffic loads including the effect of an accidental failure in the cable system. Bridge Maintenance, Safety and Management, 2012, , 2827-2834.	0.1	2
64	A dynamic model to predict crack propagation in z-pinned composite structures. Annals of Solid and Structural Mechanics, 2011, 2, 143-157.	0.5	5
65	An investigation on microscopic and macroscopic stability phenomena of composite solids with periodic microstructure. International Journal of Solids and Structures, 2010, 47, 2806-2824.	2.7	27
66	Dynamic propagation phenomena of multiple delaminations in composite structures. Computational Materials Science, 2010, 48, 563-575.	3.0	27
67	Macroscopic Stability Analysis in Periodic Composite Solids. Advanced Structured Materials, 2010, , 213-242.	0.5	0
68	Dynamic Crack Propagation in Composite Structures. Advanced Structured Materials, 2010, , 57-81.	0.5	0
69	Dynamic Mode I and Mode II Crack Propagation in Fiber Reinforced Composites. Mechanics of Advanced Materials and Structures, 2009, 16, 442-455.	2.6	35
70	A Parametric Study on the Dynamic Behavior of Combined Cable-Stayed and Suspension Bridges under Moving Loads. International Journal for Computational Methods in Engineering Science and Mechanics, 2009, 10, 243-258.	2.1	20
71	An Interface-Multilayer Model for Delamination and Contact Analysis in Composite Plates. Journal of the Mechanical Behavior of Materials, 2009, 19, 177-186.	1.8	0
72	Mixed mode dynamic delamination in fiber reinforced composites. Composites Part B: Engineering, 2009, 40, 379-392.	12.0	36

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73	Influence of micro-cracking and contact on the effective properties of composite materials. Simulation Modelling Practice and Theory, 2008, 16, 861-884.	3.8	33
74	Dynamic impact analysis of long span cable-stayed bridges under moving loads. Engineering Structures, 2008, 30, 1160-1177.	5.3	36
75	Interaction Between Interlaminar and Intralaminar Damage in Fiber-Reinforced Composite Laminates. International Journal for Computational Methods in Engineering Science and Mechanics, 2008, 9, 358-373.	2.1	9
76	An analytical investigation of debonding problems in beams strengthened using composite plates. Engineering Fracture Mechanics, 2007, 74, 346-372.	4.3	37
77	Energy release rate and mode partition for interlaminar crack in circular laminated beams. International Journal of Solids and Structures, 2006, 43, 1201-1223.	2.7	7
78	A 3D delamination modelling technique based on plate and interface theories for laminated structures. European Journal of Mechanics, A/Solids, 2005, 24, 127-149.	3.7	43
79	Finite element continuum damage modeling of plain weave reinforced composites. Composites Part B: Engineering, 2005, 37, 137-147.	12.0	53
80	Computation of Energy Release Rate and Mode Separation in Delaminated Composite Plates by Using Plate and Interface Variables. Mechanics of Advanced Materials and Structures, 2005, 12, 285-304.	2.6	39
81	Continuum Damage-healing Mechanics with Application to Self-healing Composites. International Journal of Damage Mechanics, 2005, 14, 51-81.	4.2	149
82	Three-Dimensional Continuum Damage Model for Polymer Matrix Composites. , 2004, , 53.		0
83	A coupled interface-multilayer approach for mixed mode delamination and contact analysis in laminated composites. International Journal of Solids and Structures, 2003, 40, 7245-7268.	2.7	47
84	Simulation of multiple delaminations in composite laminates under mixed-mode deformations. Simulation Modelling Practice and Theory, 2003, 11, 483-500.	3.8	5
85	Application of Continuum Damage Healing Mechanics to Self-Healing Composites. , 2003, , 515.		8
86	An Inelastic Damage Model for Fiber Reinforced Laminates. Journal of Composite Materials, 2002, 36, 941-962.	2.4	79
87	An analytical delamination model for laminated plates including bridging effects. International Journal of Solids and Structures, 2002, 39, 2435-2463.	2.7	40
88	Damage Model for Composites Defined in Terms of Available Data. Mechanics of Advanced Materials and Structures, 2001, 8, 299-315.	2.6	32
89	Multiscale modelling of dynamic impact on highly deformable compound rockfall fence nets. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 0, , 1-35.	1.6	3