

Paolo Lonetti

List of Publications by Year in descending order

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89
papers

2,182
citations

147801

31
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265206

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91
all docs

91
docs citations

91
times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuum Damage-healing Mechanics with Application to Self-healing Composites. International Journal of Damage Mechanics, 2005, 14, 51-81.	4.2	149
2	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
3	An Inelastic Damage Model for Fiber Reinforced Laminates. Journal of Composite Materials, 2002, 36, 941-962.	2.4	79
4	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
5	Finite element continuum damage modeling of plain weave reinforced composites. Composites Part B: Engineering, 2005, 37, 137-147.	12.0	53
6	Sandwich panels under interfacial debonding mechanisms. Composite Structures, 2018, 203, 310-320.	5.8	51
7	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
8	Crack propagation analysis in composite materials by using moving mesh and multiscale techniques. Computers and Structures, 2015, 153, 201-216.	4.4	48
9	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
10	Vulnerability and failure analysis of hybrid cable-stayed suspension bridges subjected to damage mechanisms. Engineering Failure Analysis, 2014, 45, 470-495.	4.0	45
11	Optimum design analysis of hybrid cable-stayed suspension bridges. Advances in Engineering Software, 2014, 73, 53-66.	3.8	45
12	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
13	An analytical delamination model for laminated plates including bridging effects. International Journal of Solids and Structures, 2002, 39, 2435-2463.	2.7	40
14	A fracture-ALE formulation to predict dynamic debonding in FRP strengthened concrete beams. Composites Part B: Engineering, 2013, 46, 46-60.	12.0	40
15	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
16	An optimization model for the design of network arch bridges. Computers and Structures, 2016, 170, 13-25.	4.4	39
17	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
18	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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19	An analytical investigation of debonding problems in beams strengthened using composite plates. <i>Engineering Fracture Mechanics</i> , 2007, 74, 346-372.	4.3	37
20	Dynamic impact analysis of long span cable-stayed bridges under moving loads. <i>Engineering Structures</i> , 2008, 30, 1160-1177.	5.3	36
21	Mixed mode dynamic delamination in fiber reinforced composites. <i>Composites Part B: Engineering</i> , 2009, 40, 379-392.	12.0	36
22	A moving interface finite element formulation for layered structures. <i>Composites Part B: Engineering</i> , 2016, 96, 325-337.	12.0	36
23	Dynamic Mode I and Mode II Crack Propagation in Fiber Reinforced Composites. <i>Mechanics of Advanced Materials and Structures</i> , 2009, 16, 442-455.	2.6	35
24	Design analysis of the optimum configuration of self-anchored cable-stayed suspension bridges. <i>Structural Engineering and Mechanics</i> , 2014, 51, 847-866.	1.0	35
25	Nonlinear effects in fracture induced failure of compressively loaded fiber reinforced composites. <i>Composite Structures</i> , 2018, 189, 688-699.	5.8	34
26	An interface approach based on moving mesh and cohesive modeling in Z-pinned composite laminates. <i>Composites Part B: Engineering</i> , 2018, 135, 207-217.	12.0	34
27	A crack growth strategy based on moving mesh method and fracture mechanics. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 102, 103-115.	4.7	34
28	Influence of micro-cracking and contact on the effective properties of composite materials. <i>Simulation Modelling Practice and Theory</i> , 2008, 16, 861-884.	3.8	33
29	Crack propagation modeling in functionally graded materials using Moving Mesh technique and interaction integral approach. <i>Composite Structures</i> , 2021, 269, 114005.	5.8	33
30	Damage Model for Composites Defined in Terms of Available Data. <i>Mechanics of Advanced Materials and Structures</i> , 2001, 8, 299-315.	2.6	32
31	Initiation and evolution of debonding phenomena in layered structures. <i>Theoretical and Applied Fracture Mechanics</i> , 2017, 92, 133-145.	4.7	32
32	A Moving Interface Finite Element Formulation to Predict Dynamic Edge Debonding in FRP-Strengthened Concrete Beams in Service Conditions. <i>Fibers</i> , 2020, 8, 42.	4.0	32
33	Crack propagation under thermo-mechanical loadings based on moving mesh strategy. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 114, 103033.	4.7	32
34	A moving mesh FE methodology for vehicle-bridge interaction modeling. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 1256-1268.	2.6	30
35	Dynamic Analysis of Cable-Stayed Bridges Affected by Accidental Failure Mechanisms under Moving Loads. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-20.	1.1	29
36	Pre-buckling imperfection sensitivity of pultruded FRP profiles. <i>Composites Part B: Engineering</i> , 2015, 72, 206-212.	12.0	29

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37	An investigation on microscopic and macroscopic stability phenomena of composite solids with periodic microstructure. <i>International Journal of Solids and Structures</i> , 2010, 47, 2806-2824.	2.7	27
38	Dynamic propagation phenomena of multiple delaminations in composite structures. <i>Computational Materials Science</i> , 2010, 48, 563-575.	3.0	27
39	Bend-strength of novel filament wound shear reinforcement. <i>Composite Structures</i> , 2017, 176, 244-253.	5.8	27
40	Dynamic impact analysis of masonry buildings subjected to flood actions. <i>Engineering Structures</i> , 2018, 167, 445-458.	5.3	27
41	Visual programming for structural assessment of out-of-plane mechanisms in historic masonry structures. <i>Journal of Building Engineering</i> , 2020, 31, 101425.	3.4	27
42	Wound FRP Shear Reinforcement for Concrete Structures. <i>Journal of Composites for Construction</i> , 2017, 21, .	3.2	25
43	On the elastic and mixed-mode fracture properties of PVC foam. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 112, 102924.	4.7	24
44	Band gap tuning through microscopic instabilities of compressively loaded lightened nacre-like composite metamaterials. <i>Composite Structures</i> , 2022, 282, 115032.	5.8	24
45	Instability design analysis in tied-arch bridges. <i>Mechanics of Advanced Materials and Structures</i> , 2019, 26, 716-726.	2.6	23
46	An improved fracture approach to investigate the degradation of vibration characteristics for reinforced concrete beams under progressive damage. <i>International Journal of Fatigue</i> , 2022, 163, 107032.	5.7	22
47	Dynamic Behavior of Tied-Arch Bridges under the Action of Moving Loads. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-17.	1.1	21
48	Dynamic crack growth based on moving mesh method. <i>Composites Part B: Engineering</i> , 2019, 174, 107053.	12.0	21
49	A Parametric Study on the Dynamic Behavior of Combined Cable-Stayed and Suspension Bridges under Moving Loads. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2009, 10, 243-258.	2.1	20
50	A Practical Method for the Elastic Buckling Design of Network Arch Bridges. <i>International Journal of Steel Structures</i> , 2020, 20, 311-329.	1.3	18
51	A numerical model based on ALE formulation to predict crack propagation in sandwich structures. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 277-293.	0.9	18
52	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
53	Numerical formulation based on moving mesh method for vehicle-bridge interaction. <i>Advances in Engineering Software</i> , 2018, 121, 75-83.	3.8	16
54	Vulnerability analysis of bridge superstructures under extreme fluid actions. <i>Journal of Fluids and Structures</i> , 2020, 93, 102843.	3.4	16

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55	Dynamic fracture analysis in quasi-brittle materials via a finite element approach based on the combination of the ALE formulation and M ² integral method. <i>Engineering Failure Analysis</i> , 2022, 141, 106627.	4.0	13
56	A cohesive finite element model based ALE formulation for z-pins reinforced multilayered composite beams. <i>Procedia Structural Integrity</i> , 2016, 2, 452-459.	0.8	11
57	Dynamic debonding in layered structures: a coupled ALE-cohesive approach. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 524-535.	0.9	11
58	Interaction Between Interlaminar and Intralaminar Damage in Fiber-Reinforced Composite Laminates. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2008, 9, 358-373.	2.1	9
59	Shear Behavior of Variable-Depth Concrete Beams with Wound Fiber-Reinforced Polymer Shear Reinforcement. <i>Journal of Composites for Construction</i> , 2018, 22, .	3.2	9
60	Impact mitigation measures for bridges under extreme flood actions. <i>Journal of Fluids and Structures</i> , 2021, 106, 103381.	3.4	9
61	Application of Continuum Damage Healing Mechanics to Self-Healing Composites. , 2003, , 515.		8
62	A numerical study on the structural integrity of self-anchored cable-stayed suspension bridges. <i>Frattura Ed Integrita Strutturale</i> , 2016, 10, 358-376.	0.9	8
63	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
64	Energy release rate and mode partition for interlaminar crack in circular laminated beams. <i>International Journal of Solids and Structures</i> , 2006, 43, 1201-1223.	2.7	7
65	A coupled ALE-Cohesive formulation for layered structural systems. <i>Procedia Structural Integrity</i> , 2017, 3, 362-369.	0.8	6
66	An investigation on the structural integrity of network arch bridges subjected to cable loss under the action of moving loads. <i>Procedia Structural Integrity</i> , 2020, 25, 305-315.	0.8	6
67	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
68	Simulation of multiple delaminations in composite laminates under mixed-mode deformations. <i>Simulation Modelling Practice and Theory</i> , 2003, 11, 483-500.	3.8	5
69	A dynamic model to predict crack propagation in z-pinned composite structures. <i>Annals of Solid and Structural Mechanics</i> , 2011, 2, 143-157.	0.5	5
70	A coupled ALE-Cohesive formulation for interfacial debonding propagation in sandwich structures. <i>Procedia Structural Integrity</i> , 2018, 9, 92-100.	0.8	5
71	Structural integrity of tied arch bridges affected by instability phenomena. <i>Procedia Structural Integrity</i> , 2019, 18, 891-902.	0.8	5
72	Crack growth propagation modeling based on moving mesh method and interaction integral approach. <i>Procedia Structural Integrity</i> , 2020, 28, 1981-1991.	0.8	5

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73	Numerical modeling based on moving mesh method to simulate fast crack propagation. <i>Frattura Ed Integrità Strutturale</i> , 2020, 14, 410-422.	0.9	4
74	Multiscale modelling of dynamic impact on highly deformable compound rockfall fence nets. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 0, , 1-35.	1.6	3
75	A numerical model based on ALE formulation to predict fast crack growth in composite structures. <i>Procedia Structural Integrity</i> , 2019, 18, 422-431.	0.8	2
76	Dynamic interaction of cable supported bridges with traffic loads including the effect of an accidental failure in the cable system. <i>Bridge Maintenance, Safety and Management</i> , 2012, , 2827-2834.	0.1	2
77	On the combination of Moving Mesh technique and M-integral method for predicting crack propagation mechanisms in Functionally Graded Materials. <i>Procedia Structural Integrity</i> , 2022, 39, 649-662.	0.8	2
78	On the elastic properties of PVC foam. <i>Procedia Structural Integrity</i> , 2020, 28, 1503-1510.	0.8	1
79	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
80	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
81	Three-Dimensional Continuum Damage Model for Polymer Matrix Composites. , 2004, , 53.		0
82	An Interface-Multilayer Model for Delamination and Contact Analysis in Composite Plates. <i>Journal of the Mechanical Behavior of Materials</i> , 2009, 19, 177-186.	1.8	0
83	Strategies to improve the structural integrity of tied-arch bridges affected by instability phenomena. <i>Procedia Structural Integrity</i> , 2020, 25, 454-464.	0.8	0
84	Macroscopic Stability Analysis in Periodic Composite Solids. <i>Advanced Structured Materials</i> , 2010, , 213-242.	0.5	0
85	Dynamic Crack Propagation in Composite Structures. <i>Advanced Structured Materials</i> , 2010, , 57-81.	0.5	0
86	An effective modeling approach based on the ALE and M-integral for simulating crack propagation under thermo-mechanical loadings. <i>Procedia Structural Integrity</i> , 2021, 33, 858-870.	0.8	0
87	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
88	Simulation of dynamic fracture in quasi-brittle materials using a finite element modeling approach enhanced by moving mesh technique and interaction integral method. <i>Procedia Structural Integrity</i> , 2022, 41, 576-588.	0.8	0
89	A Cohesive fracture approach for the nonlinear analysis of load-induced degradation of vibration characteristics in RC beams. <i>Procedia Structural Integrity</i> , 2022, 41, 618-630.	0.8	0