

Luciano Feo

List of Publications by Year in descending order

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114
papers

6,685
citations

38720

50
h-index

66879

78
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116
all docs

116
docs citations

116
times ranked

4760
citing authors

#	ARTICLE	IF	CITATIONS
1	Recycling of plastic solid waste: A state of art review and future applications. Composites Part B: Engineering, 2017, 115, 409-422.	5.9	763
2	Experimental analysis on bond between PBO-FRCM strengthening materials and concrete. Composites Part B: Engineering, 2013, 44, 524-532.	5.9	235
3	Experimental study of the thermo-mechanical properties of recycled PET fiber-reinforced concrete. Composite Structures, 2011, 93, 2368-2374.	3.1	218
4	Experimental and analytical investigation on bond between Carbon-FRCM materials and masonry. Composites Part B: Engineering, 2013, 46, 15-20.	5.9	199
5	Functionally graded Timoshenko nanobeams: A novel nonlocal gradient formulation. Composites Part B: Engineering, 2016, 100, 208-219.	5.9	192
6	Bond-slip relations for PBO-FRCM materials externally bonded to concrete. Composites Part B: Engineering, 2012, 43, 2938-2949.	5.9	177
7	On the reinforcement of cement mortars through 3D printed polymeric and metallic fibers. Composites Part B: Engineering, 2016, 90, 76-85.	5.9	123
8	Multi-Material Additive Manufacturing of Sustainable Innovative Materials and Structures. Polymers, 2019, 11, 62.	2.0	118
9	Studies on FRP-concrete interface with hardening and softening bond-slip law. Composite Structures, 2012, 94, 3781-3792.	3.1	114
10	Graphene as biomedical sensing element: State of art review and potential engineering applications. Composites Part B: Engineering, 2018, 134, 193-206.	5.9	113
11	Friction welding of dissimilar plastic/polymer materials with metal powder reinforcement for engineering applications. Composites Part B: Engineering, 2016, 101, 77-86.	5.9	112
12	Weldability of thermoplastic materials for friction stir welding- A state of art review and future applications. Composites Part B: Engineering, 2018, 137, 1-15.	5.9	112
13	Bond strength of near surface-mounted FRP plate for retrofit of concrete structures. Composite Structures, 2013, 95, 719-727.	3.1	98
14	Application of an enhanced version of the Eringen differential model to nanotechnology. Composites Part B: Engineering, 2016, 96, 274-280.	5.9	98
15	Exact solutions of inflected functionally graded nano-beams in integral elasticity. Composites Part B: Engineering, 2018, 142, 273-286.	5.9	97
16	Experimental response of additively manufactured metallic pentamode materials confined between stiffening plates. Composite Structures, 2016, 142, 254-262.	3.1	96
17	Stress analysis of multi-bolted joints for FRP pultruded composite structures. Composite Structures, 2012, 94, 3769-3780.	3.1	94
18	Modeling of composite/concrete interface of RC beams strengthened with composite laminates. Composites Part B: Engineering, 2000, 31, 535-540.	5.9	88

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19	Cyclic responses of reinforced concrete composite columns strengthened in the plastic hinge region by HPFRC mortar. <i>Composite Structures</i> , 2012, 94, 2246-2253.	3.1	88
20	Torsion of functionally graded nonlocal viscoelastic circular nanobeams. <i>Composites Part B: Engineering</i> , 2015, 72, 217-222.	5.9	86
21	Experimental investigation on masonry arches strengthened with PBO-FRCM composite. <i>Composites Part B: Engineering</i> , 2016, 100, 228-239.	5.9	83
22	A closed-form model for torsion of nanobeams with an enhanced nonlocal formulation. <i>Composites Part B: Engineering</i> , 2017, 108, 315-324.	5.9	83
23	Stress-driven integral elastic theory for torsion of nano-beams. <i>Mechanics Research Communications</i> , 2018, 87, 35-41.	1.0	82
24	On the use of R-PET strips for the reinforcement of cement mortars. <i>Composites Part B: Engineering</i> , 2013, 46, 207-210.	5.9	81
25	Matching effect of honeycomb-filled thin-walled square tube—Experiment and simulation. <i>Composite Structures</i> , 2016, 157, 494-505.	3.1	81
26	Mechanical behavior of web-flange junctions of thin-walled pultruded I-profiles: An experimental and numerical evaluation. <i>Composites Part B: Engineering</i> , 2013, 48, 18-39.	5.9	79
27	Variational formulations for functionally graded nonlocal Bernoulli-Euler nanobeams. <i>Composite Structures</i> , 2015, 129, 80-89.	3.1	79
28	A numerical evaluation of the interlaminar stress state in externally FRP plated RC beams. <i>Composites Part B: Engineering</i> , 2005, 36, 83-90.	5.9	75
29	On the pin-bearing failure load of GFRP bolted laminates: An experimental analysis on the influence of bolt diameter. <i>Composites Part B: Engineering</i> , 2010, 41, 482-490.	5.9	75
30	Green Concrete: By-Products Utilization and Advanced Approaches. <i>Sustainability</i> , 2019, 11, 5145.	1.6	75
31	An experimental investigation on the bearing failure load of glass fibre/epoxy laminates. <i>Composites Part B: Engineering</i> , 2009, 40, 197-205.	5.9	74
32	Nonlocal inflected nano-beams: A stress-driven approach of bi-Helmholtz type. <i>Composite Structures</i> , 2018, 200, 239-245.	3.1	71
33	Load carrying capacity of 2D FRP/strengthened masonry structures. <i>Composites Part B: Engineering</i> , 2005, 36, 619-626.	5.9	70
34	Surface roughness effects on the reinforcement of cement mortars through 3D printed metallic fibers. <i>Composites Part B: Engineering</i> , 2016, 99, 305-311.	5.9	70
35	Creep behavior of GFRP laminates and their phases: Experimental investigation and analytical modeling. <i>Composites Part B: Engineering</i> , 2017, 122, 136-144.	5.9	69
36	A gradient Eringen model for functionally graded nanorods. <i>Composite Structures</i> , 2015, 131, 1124-1131.	3.1	67

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37	Bending dominated response of layered mechanical metamaterials alternating pentamode lattices and confinement plates. <i>Composite Structures</i> , 2016, 157, 71-77.	3.1	67
38	Plasma surface modification and bonding enhancement for bamboo composites. <i>Composites Part B: Engineering</i> , 2018, 138, 157-167.	5.9	64
39	Web-flange behavior of pultruded GFRP I-beams: A lattice model for the interpretation of experimental results. <i>Composites Part B: Engineering</i> , 2016, 100, 257-269.	5.9	62
40	An Eringen-like model for Timoshenko nanobeams. <i>Composite Structures</i> , 2016, 139, 104-110.	3.1	62
41	Investigation on interfacial defect criticality of FRP-bonded concrete beams. <i>Composites Part B: Engineering</i> , 2017, 113, 80-90.	5.9	62
42	Enhancing mechanical properties of clay aerogel composites: An overview. <i>Composites Part B: Engineering</i> , 2016, 98, 314-329.	5.9	61
43	In-vitro studies of SS 316L biomedical implants prepared by FDM, vapor smoothing and investment casting. <i>Composites Part B: Engineering</i> , 2018, 132, 107-114.	5.9	58
44	An experimental study on the long-term behavior of CFRP pultruded laminates suitable to concrete structures rehabilitation. <i>Composites Part B: Engineering</i> , 2008, 39, 1147-1150.	5.9	57
45	Numerical collapse load of multi-span masonry arch structures with FRP reinforcement. <i>Composites Part B: Engineering</i> , 2013, 54, 71-84.	5.9	57
46	On a moderate rotation theory of thin-walled composite beams. <i>Composites Part B: Engineering</i> , 2000, 31, 141-158.	5.9	54
47	In-plane shear behavior of insulated precast concrete sandwich panels reinforced with corrugated GFRP shear connectors. <i>Composites Part B: Engineering</i> , 2015, 79, 419-429.	5.9	54
48	Some closed-form solutions of functionally graded beams undergoing nonuniform torsion. <i>Composite Structures</i> , 2015, 123, 132-136.	3.1	54
49	Limit analysis of FRP strengthened masonry arches via nonlinear and linear programming. <i>Composites Part B: Engineering</i> , 2012, 43, 439-446.	5.9	53
50	Debonding of FRP in multi-span masonry arch structures via limit analysis. <i>Composite Structures</i> , 2014, 108, 856-865.	3.1	53
51	Masonry arches strengthened with composite unbonded tendons. <i>Composite Structures</i> , 2013, 98, 323-329.	3.1	52
52	Size-dependent buckling analysis of nanobeams resting on two-parameter elastic foundation through stress-driven nonlocal elasticity model. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 2408-2416.	1.5	51
53	Deformation mode evolutionary mechanism of honeycomb structure when undergoing a shallow inclined load. <i>Composite Structures</i> , 2016, 147, 211-219.	3.1	45
54	Flexural performance of reinforced concrete beams strengthened with strain-hardening cementitious composite and high strength reinforcing steel bar. <i>Composites Part B: Engineering</i> , 2014, 56, 512-519.	5.9	44

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55	Seismic improvement of RC beam-column joints using hexagonal CFRP bars combined with CFRP sheets. <i>Composite Structures</i> , 2013, 95, 464-470.	3.1	43
56	Modeling shear deformability of thin-walled composite beams with open cross-section. <i>Mechanics Research Communications</i> , 2010, 37, 320-325.	1.0	42
57	An experimental investigation on freezing and thawing durability of high performance fiber reinforced concrete (HPFRC). <i>Composite Structures</i> , 2020, 234, 111673.	3.1	42
58	Concrete cover rip-off of R/C beams strengthened with FRP composites. <i>Composites Part B: Engineering</i> , 2007, 38, 759-771.	5.9	41
59	Attempts to apply high performance fiber-reinforced cement composite (HPFRCC) to infrastructures in South Korea. <i>Composite Structures</i> , 2014, 109, 211-223.	3.1	41
60	Experimental response of FRP reinforced members without transverse reinforcement: Failure modes and design issues. <i>Composites Part B: Engineering</i> , 2016, 89, 397-407.	5.9	41
61	Pilot study on the experimental behavior of GFRP-steel slip-critical connections. <i>Composites Part B: Engineering</i> , 2017, 115, 209-222.	5.9	41
62	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.	3.1	40
63	A closed-form equation for the local buckling moment of pultruded FRP I-beams in major-axis bending. <i>Composites Part B: Engineering</i> , 2016, 97, 292-299.	5.9	39
64	Structural evaluation of axial and rotational flexibility and strength of web-flange junctions of open-web pultruded composites. <i>Composites Part B: Engineering</i> , 2014, 66, 311-327.	5.9	38
65	Hygro-thermal bending behavior of porous FG nano-beams via local/nonlocal strain and stress gradient theories of elasticity. <i>Composite Structures</i> , 2021, 263, 113627.	3.1	38
66	Physical properties of clay aerogel composites: An overview. <i>Composites Part B: Engineering</i> , 2016, 102, 29-37.	5.9	37
67	Epoxy/glass fibres composites for civil applications: Comparison between thermal and microwave crosslinking routes. <i>Composites Part B: Engineering</i> , 2017, 126, 100-107.	5.9	37
68	Nonlinear free vibrations analysis of geometrically imperfect FG nano-beams based on stress-driven nonlocal elasticity with initial pretension force. <i>Composite Structures</i> , 2021, 255, 112856.	3.1	37
69	On the statical behaviour of fibre-reinforced polymer thin-walled beams. <i>Composites Part B: Engineering</i> , 2000, 31, 643-654.	5.9	36
70	Irregular stone masonries: Analysis and strengthening with glass fibre reinforced composites. <i>Composites Part B: Engineering</i> , 2016, 92, 84-93.	5.9	35
71	Crack damage mitigation and shear behavior of shear-dominant reinforced concrete beams repaired with strain-hardening cement-based composite. <i>Composites Part B: Engineering</i> , 2015, 79, 6-19.	5.9	34
72	Damage mechanics of cement concrete modeled as a four-phase composite. <i>Composites Part B: Engineering</i> , 2014, 65, 124-130.	5.9	33

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73	Size effect and dynamic properties of 2D lattice materials. Composites Part B: Engineering, 2017, 112, 235-242.	5.9	33
74	Mechanical characterization of pultruded elements: Fiber orientation influence vs web-flange junction local problem. Experimental and numerical tests. Composites Part B: Engineering, 2018, 142, 68-84.	5.9	32
75	Synthesis and characterization of Pt-N-doped activated biocarbon composites for hydrogen storage. Composites Part B: Engineering, 2019, 161, 464-472.	5.9	31
76	Non-linear pre-buckling behavior of shear deformable thin-walled composite beams with open cross-section. Composites Part B: Engineering, 2013, 47, 379-390.	5.9	28
77	Analysis of masonry structures strengthened with polymeric net reinforced cementitious matrix materials. Composite Structures, 2014, 113, 264-271.	3.1	27
78	Determination of Forces and Moments Per Unit Length in Symmetric Exponential FG Plates with a Quasi-Triangular Hole. Symmetry, 2020, 12, 834.	1.1	24
79	Flexural analysis of RC beam strengthened by partially de-bonded NSM FRP strip. Composites Part B: Engineering, 2016, 101, 21-30.	5.9	23
80	Eigenstrain and Fourier series for evaluation of elastic local fields and effective properties of periodic composites. Composites Part B: Engineering, 2015, 81, 251-258.	5.9	22
81	Experimental investigations for mechanical and metallurgical properties of friction stir welded recycled dissimilar polymer materials with metal powder reinforcement. Composites Part B: Engineering, 2016, 103, 90-97.	5.9	20
82	Influence of reinforcement viscous properties on reliability of existing structures strengthened with externally bonded composites. Composite Structures, 2018, 200, 532-539.	3.1	20
83	On the Geometrically Nonlinear Elastic Response of Class $\hat{\mu}=1$ Tensegrity Prisms. Frontiers in Materials, 2018, 5, .	1.2	20
84	Cohesive interface behaviour and local shear strains in axially loaded composite annular tubes. Composite Structures, 2017, 160, 1126-1135.	3.1	19
85	Experimental and numerical evaluation of the axial stiffness of the web-to-flange adhesive connections in composite I-beams. Composite Structures, 2017, 176, 702-714.	3.1	18
86	On the minimal mass reinforcement of masonry structures with arbitrary shapes. Meccanica, 2017, 52, 1561-1576.	1.2	18
87	DEPENDENCE OF THE MECHANICAL PROPERTIES OF PENTAMODE MATERIALS ON THE LATTICE MICROSTRUCTURE. , 2016, , .		18
88	A Refined Finite Element Formulation for the Microstructure-Dependent Analysis of Two-Dimensional (2D) Lattice Materials. Materials, 2013, 6, 1-17.	1.3	17
89	The influence of the shear deformations on the local stress state of pultruded composite profiles. Mechanics Research Communications, 2013, 47, 44-49.	1.0	16
90	Hygro-Thermal Vibrations of Porous FG Nano-Beams Based on Local/Nonlocal Stress Gradient Theory of Elasticity. Nanomaterials, 2021, 11, 910.	1.9	15

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91	A critical review of numerical methods for the simulation of pultruded fiber-reinforced structural elements. <i>Composite Structures</i> , 2021, 273, 114284.	3.1	15
92	Special issue on composite lattices and multiscale innovative materials and structures. <i>Composites Part B: Engineering</i> , 2017, 115, 1-2.	5.9	14
93	Physical-mechanical characterization of biodegradable Mg-3Si-HA composites. <i>PSU Research Review</i> , 2018, 2, 152-174.	1.3	14
94	Nano-beams under torsion: a stress-driven nonlocal approach. <i>PSU Research Review</i> , 2017, 1, 164-169.	1.3	10
95	Dynamic Response of Multilayered Polymer Functionally Graded Carbon Nanotube Reinforced Composite (FG-CNTRC) Nano-Beams in Hygro-Thermal Environment. <i>Polymers</i> , 2021, 13, 2340.	2.0	10
96	Carbon/epoxy interface debond growth using the Contour Integral/Cohesive zone method. <i>Composites Part B: Engineering</i> , 2018, 142, 102-107.	5.9	9
97	Numerical failure analysis of built-up columns composed of closely spaced pultruded FRP channels. <i>Composite Structures</i> , 2019, 207, 478-487.	3.1	9
98	An analysis of the stress-strain state of a timber-concrete Tcrosssection. <i>Composites Part B: Engineering</i> , 2013, 45, 148-158.	5.9	8
99	Nonlinear Dynamic Behavior of Porous and Imperfect Bernoulli-Euler Functionally Graded Nanobeams Resting on Winkler Elastic Foundation. <i>Technologies</i> , 2020, 8, 56.	3.0	8
100	3D finite element non linear analysis on the stress state at bone-implant interface in dental osteointegrated implants. <i>ORAL and Implantology</i> , 2010, 3, 26-37.	0.3	8
101	Application of the Higher-Order Hamilton Approach to the Nonlinear Free Vibrations Analysis of Porous FG Nano-Beams in a Hygrothermal Environment Based on a Local/Nonlocal Stress Gradient Model of Elasticity. <i>Nanomaterials</i> , 2022, 12, 2098.	1.9	8
102	Advances in damage mechanics of polymer composites. <i>Composites Part B: Engineering</i> , 2014, 65, 1.	5.9	7
103	Concrete Open-Wall Systems Wrapped with FRP under Torsional Loads. <i>Materials</i> , 2012, 5, 2055-2068.	1.3	6
104	A cracked-hinge approach to modelling high performance fiber-reinforced concrete. <i>Composite Structures</i> , 2021, 273, 114277.	3.1	5
105	A Note on Torsion of Nonlocal Composite Nanobeams. <i>Modelling and Simulation in Engineering</i> , 2016, 2016, 1-5.	0.4	3
106	On Bending of Bernoulli-Euler Nanobeams for Nonlocal Composite Materials. <i>Modelling and Simulation in Engineering</i> , 2016, 2016, 1-5.	0.4	2
107	Residual stiffness of bonded joints for fibre-reinforced polymer profiles. <i>Composites Part B: Engineering</i> , 2018, 144, 237-253.	5.9	2
108	STRUCTURAL ANALYSIS OF ADHESIVE BONDING FOR THICK-WALLED TUBULAR COMPOSITE PROFILES. , 2016, , .		2

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109	Increasing the cyclic strength of threaded joints through the unloading of cracked sections. Journal of Mining and Metallurgy, Section B: Metallurgy, 2012, 48, 291-307.	0.3	1
110	An Experimental and Numerical Investigation on the Plating of Reinforced Concrete Beams with FRP Laminates. Lecture Notes in Applied and Computational Mechanics, 2005, , 303-314.	2.0	1
111	Design of an FRP Cable-Stayed Pedestrian Bridge. Morphology, Technology and Required Performances. Lecture Notes in Civil Engineering, 2022, , 46-62.	0.3	1
112	Structural evaluation of coaxial joints for FRP rebars using winding wet fabrics composites. World Journal of Engineering, 2014, 11, 37-40.	1.0	0
113	On the equilibrium problem and infinitesimal mechanisms of class theta tensegrity systems. , 2019, , .		0
114	On the Plating of Reinforced Concrete Beams with Composite Laminates. Lecture Notes in Applied and Computational Mechanics, 2004, , 277-284.	2.0	0