

Raimondo Luciano

List of Publications by Year in descending order

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121
papers

5,440
citations

46918

47
h-index

102304

66
g-index

121
all docs

121
docs citations

121
times ranked

1912
citing authors

#	ARTICLE	IF	CITATIONS
1	Free vibrations of Bernoulli-Euler nano-beams by the stress-driven nonlocal integral model. <i>Composites Part B: Engineering</i> , 2017, 123, 105-111.	5.9	202
2	Functionally graded Timoshenko nanobeams: A novel nonlocal gradient formulation. <i>Composites Part B: Engineering</i> , 2016, 100, 208-219.	5.9	192
3	Homogenization technique and damage model for old masonry material. <i>International Journal of Solids and Structures</i> , 1997, 34, 3191-3208.	1.3	185
4	Free vibrations of elastic beams by modified nonlocal strain gradient theory. <i>International Journal of Engineering Science</i> , 2018, 133, 99-108.	2.7	122
5	Stress-driven modeling of nonlocal thermoelastic behavior of nanobeams. <i>International Journal of Engineering Science</i> , 2018, 126, 53-67.	2.7	121
6	Longitudinal vibrations of nano-rods by stress-driven integral elasticity. <i>Mechanics of Advanced Materials and Structures</i> , 2019, 26, 1307-1315.	1.5	103
7	Application of an enhanced version of the Eringen differential model to nanotechnology. <i>Composites Part B: Engineering</i> , 2016, 96, 274-280.	5.9	98
8	Exact solutions of inflected functionally graded nano-beams in integral elasticity. <i>Composites Part B: Engineering</i> , 2018, 142, 273-286.	5.9	97
9	Stress-driven nonlocal integral model for Timoshenko elastic nano-beams. <i>European Journal of Mechanics, A/Solids</i> , 2018, 72, 275-286.	2.1	94
10	Closed-form solutions in stress-driven two-phase integral elasticity for bending of functionally graded nano-beams. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 97, 13-30.	1.3	93
11	Torsion of functionally graded nonlocal viscoelastic circular nanobeams. <i>Composites Part B: Engineering</i> , 2015, 72, 217-222.	5.9	86
12	Free vibrations of FG elastic Timoshenko nano-beams by strain gradient and stress-driven nonlocal models. <i>Composites Part B: Engineering</i> , 2018, 154, 20-32.	5.9	85
13	Experimental investigation on masonry arches strengthened with PBO-FRCM composite. <i>Composites Part B: Engineering</i> , 2016, 100, 228-239.	5.9	83
14	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
15	Buckling loads of nano-beams in stress-driven nonlocal elasticity. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 869-875.	1.5	83
16	Stress-driven integral elastic theory for torsion of nano-beams. <i>Mechanics Research Communications</i> , 2018, 87, 35-41.	1.0	82
17	Variational formulations for functionally graded nonlocal Bernoulli-Euler nanobeams. <i>Composite Structures</i> , 2015, 129, 80-89.	3.1	79
18	Micromechanical analysis of interfacial debonding in unidirectional fiber-reinforced composites. <i>Computers and Structures</i> , 2006, 84, 2200-2211.	2.4	77

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19	Nonlocal integral elasticity in nanostructures, mixtures, boundary effects and limit behaviours. <i>Continuum Mechanics and Thermodynamics</i> , 2018, 30, 641-655.	1.4	75
20	A stress-driven local-nonlocal mixture model for Timoshenko nano-beams. <i>Composites Part B: Engineering</i> , 2019, 164, 590-598.	5.9	75
21	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.	5.9	73
22	Nonlocal inflected nano-beams: A stress-driven approach of bi-Helmholtz type. <i>Composite Structures</i> , 2018, 200, 239-245.	3.1	71
23	Carbon-FRCM materials for structural upgrade of masonry arch road bridges. <i>Composites Part B: Engineering</i> , 2015, 75, 355-366.	5.9	70
24	Experimental evaluations and modeling of the tensile behavior of polypropylene/single-walled carbon nanotubes fibers. <i>Composite Structures</i> , 2017, 174, 12-18.	3.1	70
25	Application of gradient elasticity to armchair carbon nanotubes: Size effects and constitutive parameters assessment. <i>European Journal of Mechanics, A/Solids</i> , 2017, 65, 1-13.	2.1	68
26	Nonlocal strain gradient exact solutions for functionally graded inflected nano-beams. <i>Composites Part B: Engineering</i> , 2019, 164, 667-674.	5.9	68
27	A gradient Eringen model for functionally graded nanorods. <i>Composite Structures</i> , 2015, 131, 1124-1131.	3.1	67
28	A theoretical and numerical stability analysis for composite micro-structures by using homogenization theory. <i>Composites Part B: Engineering</i> , 2011, 42, 382-401.	5.9	66
29	Stress-driven two-phase integral elasticity for torsion of nano-beams. <i>Composites Part B: Engineering</i> , 2018, 145, 62-69.	5.9	65
30	Some analytical solutions of functionally graded Kirchhoff plates. <i>Composites Part B: Engineering</i> , 2015, 68, 266-269.	5.9	63
31	Non-local constitutive response of a random laminate subjected to configuration-dependent body force. <i>Journal of the Mechanics and Physics of Solids</i> , 2001, 49, 431-444.	2.3	62
32	Analogies between Kirchhoff plates and functionally graded Saint-Venant beams under torsion. <i>Continuum Mechanics and Thermodynamics</i> , 2015, 27, 499-505.	1.4	62
33	An Eringen-like model for Timoshenko nanobeams. <i>Composite Structures</i> , 2016, 139, 104-110.	3.1	62
34	Exact solutions of isotropic viscoelastic functionally graded Kirchhoff plates. <i>Composite Structures</i> , 2014, 118, 448-454.	3.1	61
35	On torsion of random composite beams. <i>Composite Structures</i> , 2015, 132, 915-922.	3.1	58
36	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

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37	Limit analysis of masonry arches with externally bonded FRP reinforcements. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 196, 247-260.	3.4	55
38	Some closed-form solutions of functionally graded beams undergoing nonuniform torsion. <i>Composite Structures</i> , 2015, 123, 132-136.	3.1	54
39	Experimental Investigation on Bond Behavior of Cement-Matrix-Based Composites for Strengthening of Masonry Structures. <i>Journal of Composites for Construction</i> , 2016, 20, .	1.7	54
40	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
41	Debonding of FRP in multi-span masonry arch structures via limit analysis. <i>Composite Structures</i> , 2014, 108, 856-865.	3.1	53
42	Limit analysis of masonry arches with finite compressive strength and externally bonded reinforcement. <i>Composites Part B: Engineering</i> , 2012, 43, 3131-3145.	5.9	52
43	A Fully Gradient Model for Euler-Bernoulli Nanobeams. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-8.	0.6	51
44	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
45	Analytical Expressions for the Relaxation Moduli of Linear Viscoelastic Composites With Periodic Microstructure. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1995, 62, 786-793.	1.1	50
46	Boundary-layer corrections for stress and strain fields in randomly heterogeneous materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2003, 51, 1075-1088.	2.3	50
47	FE analysis of stress and strain fields in finite random composite bodies. <i>Journal of the Mechanics and Physics of Solids</i> , 2005, 53, 1505-1522.	2.3	50
48	Higher modes of buckling in shear deformable nanobeams. <i>International Journal of Engineering Science</i> , 2020, 154, 103338.	2.7	50
49	Bounds on non-local effective relations for random composites loaded by configuration-dependent body force. <i>Journal of the Mechanics and Physics of Solids</i> , 2000, 48, 1827-1849.	2.3	48
50	On methods for bounding the overall properties of periodic piezoelectric fibrous composites. <i>Journal of the Mechanics and Physics of Solids</i> , 1997, 45, 1329-1356.	2.3	43
51	An adaptive multiscale strategy for the damage analysis of masonry modeled as a composite material. <i>Composite Structures</i> , 2016, 153, 972-988.	3.1	43
52	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.	1.7	42
53	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.	1.7	42
54	Multiscale failure analysis of periodic masonry structures with traditional and fiber-reinforced mortar joints. <i>Composites Part B: Engineering</i> , 2017, 118, 75-95.	5.9	41

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55	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
56	Hygro-thermal vibrations and buckling of laminated nanoplates via nonlocal strain gradient theory. <i>Composite Structures</i> , 2021, 262, 113337.	3.1	40
57	A multiscale analysis of instability-induced failure mechanisms in fiber-reinforced composite structures via alternative modeling approaches. <i>Composite Structures</i> , 2020, 251, 112529.	3.1	39
58	Bounds on the overall properties of composites with debonded frictionless interfaces. <i>Mechanics of Materials</i> , 1998, 28, 23-32.	1.7	38
59	Hashinâ€™Shtrikman Based FE Analysis of the Elastic Behaviour of Finite Random Composite Bodies. <i>International Journal of Fracture</i> , 2006, 137, 261-273.	1.1	38
60	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.	3.2	38
61	Comparative micromechanical assessment of adobe and clay brick masonry assemblages based on experimental data sets. <i>Composite Structures</i> , 2015, 120, 208-220.	3.1	38
62	Strengthening Masonry Arches with Lime-Based Mortar Composite. <i>Buildings</i> , 2017, 7, 49.	1.4	38
63	Critical Temperatures for Vibrations and Buckling of Magneto-Electro-Elastic Nonlocal Strain Gradient Plates. <i>Nanomaterials</i> , 2021, 11, 87.	1.9	38
64	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
65	Nonlinear homogenized properties of defected composite materials. <i>Computers and Structures</i> , 2014, 134, 102-111.	2.4	36
66	Solution for cross- and angle-ply laminated Kirchhoff nano plates in bending using strain gradient theory. <i>Composites Part B: Engineering</i> , 2019, 173, 107006.	5.9	36
67	Analytical solution of cross- and angle-ply nano plates with strain gradient theory for linear vibrations and buckling. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 1201-1215.	1.5	36
68	Irregular stone masonries: Analysis and strengthening with glass fibre reinforced composites. <i>Composites Part B: Engineering</i> , 2016, 92, 84-93.	5.9	35
69	Trigonometric Solution for the Bending Analysis of Magneto-Electro-Elastic Strain Gradient Nonlocal Nanoplates in Hygro-Thermal Environment. <i>Mathematics</i> , 2021, 9, 567.	1.1	35
70	Nonlinear effects in fracture induced failure of compressively loaded fiber reinforced composites. <i>Composite Structures</i> , 2018, 189, 688-699.	3.1	34
71	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.	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	A mixed explicit-implicit time integration approach for nonlinear analysis of base-isolated structures. <i>Annals of Solid and Structural Mechanics</i> , 2018, 10, 17-29.	0.5	33
74	Exact closed-form solutions for nonlocal beams with loading discontinuities. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 694-704.	1.5	32
75	Critical surfaces for adobe masonry: Micromechanical approach. <i>Composites Part B: Engineering</i> , 2014, 56, 790-796.	5.9	29
76	Free transverse vibrations of nanobeams with multiple cracks. <i>International Journal of Engineering Science</i> , 2022, 177, 103703.	2.7	29
77	Size-dependent linear elastic fracture of nanobeams. <i>International Journal of Engineering Science</i> , 2020, 157, 103381.	2.7	28
78	Free flexural vibrations of nanobeams with non-classical boundary conditions using stress-driven nonlocal model. <i>Mechanics Research Communications</i> , 2020, 107, 103536.	1.0	27
79	Nonlocal strain and stress gradient elasticity of Timoshenko nano-beams with loading discontinuities. <i>International Journal of Engineering Science</i> , 2022, 173, 103620.	2.7	27
80	Novel local/nonlocal formulation of the stress-driven model through closed form solution for higher vibrations modes. <i>Composite Structures</i> , 2020, 252, 112688.	3.1	25
81	Non-local constitutive equations for functionally graded materials. <i>Mechanics of Materials</i> , 2004, 36, 1195-1206.	1.7	24
82	Variational approaches for bending and buckling of non-local stress-driven Timoshenko nano-beams for smart materials. <i>Mechanics Research Communications</i> , 2020, 103, 103470.	1.0	24
83	Material Symmetries in Homogenized Hexagonal-Shaped Composites as Cosserat Continua. <i>Symmetry</i> , 2020, 12, 441.	1.1	24
84	Band gap tuning through microscopic instabilities of compressively loaded lightened nacre-like composite metamaterials. <i>Composite Structures</i> , 2022, 282, 115032.	3.1	24
85	Micromechanical analysis of adobe masonry as two-component composite: Influence of bond and loading schemes. <i>Composite Structures</i> , 2014, 112, 254-263.	3.1	23
86	Eigenstrain and Fourier series for evaluation of elastic local fields and effective properties of periodic composites. <i>Composites Part B: Engineering</i> , 2015, 81, 251-258.	5.9	22
87	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.	2.8	22
88	Fourier series expansion in non-orthogonal coordinate system for the homogenization of linear viscoelastic periodic composites. <i>Composites Part B: Engineering</i> , 2013, 54, 241-245.	5.9	21
89	Fracture behaviour of nanobeams through Two-Phase Local/Nonlocal Stress-Driven model. <i>Composite Structures</i> , 2022, 280, 114957.	3.1	21
90	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.	5.9	20

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91	Free Vibrations of Sandwich Plates with Damaged Soft-Core and Non-Uniform Mechanical Properties: Modeling and Finite Element Analysis. <i>Materials</i> , 2019, 12, 2444.	1.3	20
92	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.	0.3	19
93	Linear eigenvalue analysis of laminated thin plates including the strain gradient effect by means of conforming and nonconforming rectangular finite elements. <i>Computers and Structures</i> , 2021, 257, 106676.	2.4	18
94	Homogenised properties of composite materials in large deformations. <i>Composite Structures</i> , 2013, 103, 9-17.	3.1	17
95	Fracture analysis of nanobeams based on the stress-driven non-local theory of elasticity. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 1967-1976.	1.5	17
96	Tensile stiffness and strength of fiber-reinforced concrete. <i>Journal of the Mechanics and Physics of Solids</i> , 2000, 48, 1987-2008.	2.3	15
97	Nonlocal layerwise formulation for bending of multilayered/functionally graded nanobeams featuring weak bonding. <i>European Journal of Mechanics, A/Solids</i> , 2021, 86, 104193.	2.1	15
98	Non-local effective relations for fibre-reinforced composites loaded by configuration-dependent body forces. <i>Journal of the Mechanics and Physics of Solids</i> , 2001, 49, 2705-2717.	2.3	14
99	Analysis of the Influence of Incremental Material Response on the Structural Stability. <i>Mechanics of Advanced Materials and Structures</i> , 2005, 12, 363-377.	1.5	14
100	Micromechanical analysis of periodic composites by prescribing the average stress. <i>Annals of Solid and Structural Mechanics</i> , 2010, 1, 117-137.	0.5	14
101	Analysis of bond behavior of injected anchors in masonry elements by means of Finite Element Modeling. <i>Composite Structures</i> , 2020, 241, 112099.	3.1	14
102	Semi-analytical static analysis of nonlocal strain gradient laminated composite nanoplates in hygrothermal environment. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	12
103	Calibration of the length scale parameter for the stress-driven nonlocal elasticity model from quasi-static and dynamic experiments. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 3518-3524.	1.5	12
104	Nano-beams under torsion: a stress-driven nonlocal approach. <i>PSU Research Review</i> , 2017, 1, 164-169.	1.3	10
105	Optimization of a Radial Point Interpolation Meshless strategy for strain gradient nanoplates. <i>Engineering Analysis With Boundary Elements</i> , 2022, 140, 70-78.	2.0	10
106	Structural integrity of shot peened Ti6Al4V specimens under fretting fatigue. <i>International Journal of Fracture</i> , 2022, 234, 45-55.	1.1	9
107	Numerical Investigation on the Use of Flat-Jack Test for Detecting Masonry Deformability. <i>Journal of Testing and Evaluation</i> , 2021, 49, 537-549.	0.4	9
108	Micro- and macro-failure models of heterogeneous media with micro-structure. <i>Simulation Modelling Practice and Theory</i> , 2003, 11, 433-448.	2.2	8

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109	Nonlocal layerwise formulation for interfacial tractions in layered nanobeams. <i>Mechanics Research Communications</i> , 2020, 109, 103595.	1.0	7
110	Modeling of buckling of nanobeams embedded in elastic medium by local-nonlocal stress-driven gradient elasticity theory. <i>Composite Structures</i> , 2022, 297, 115907.	3.1	7
111	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.	0.3	6
112	Nanobeams with Internal Discontinuities: A Local/Nonlocal Approach. <i>Nanomaterials</i> , 2021, 11, 2651.	1.9	5
113	A micromechanical four-phase model to predict the compressive failure surface of cement concrete. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 19-27.	0.5	2
114	Modulated Linear Dynamics of Functionally Graded Nanobeams With Nonlocal and Gradient Elasticity. , 2018, , 293-323.		2
115	A numerical model based on ALE formulation to predict fast crack growth in composite structures. <i>Procedia Structural Integrity</i> , 2019, 18, 422-431.	0.3	2
116	Meshless Computational Strategy for Higher Order Strain Gradient Plate Models. <i>Mathematical and Computational Applications</i> , 2022, 27, 19.	0.7	2
117	Local stress in periodic composites via the Riesz summability method. <i>Composites Part B: Engineering</i> , 2018, 150, 27-35.	5.9	1
118	Predictive model for the collapse load of masonry assemblage with two piers joined by a spandrel. <i>Meccanica</i> , 2018, 53, 1803-1817.	1.2	1
119	Design Optimization of Road Continuous Girder Bridges. , 2010, , .		0
120	Bending and Buckling of Timoshenko Nano-Beams in Stress-Driven Approach. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 832-841.	0.3	0
121	Stability analysis at the micro- and macro-scales in periodic bioinspired composites. <i>Procedia Structural Integrity</i> , 2021, 33, 1103-1114.	0.3	0