

# Raimondo Luciano

## List of Publications by Year in descending order

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121  
papers

5,440  
citations

46918

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102304

66  
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121  
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times ranked

1912  
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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Structural integrity of shot peened Ti6Al4V specimens under fretting fatigue. <i>International Journal of Fracture</i> , 2022, 234, 45-55.	1.1	9
5	Fracture behaviour of nanobeams through Two-Phase Local/Nonlocal Stress-Driven model. <i>Composite Structures</i> , 2022, 280, 114957.	3.1	21
6	Band gap tuning through microscopic instabilities of compressively loaded lightened nacre-like composite metamaterials. <i>Composite Structures</i> , 2022, 282, 115032.	3.1	24
7	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
8	Meshless Computational Strategy for Higher Order Strain Gradient Plate Models. <i>Mathematical and Computational Applications</i> , 2022, 27, 19.	0.7	2
9	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
10	Free transverse vibrations of nanobeams with multiple cracks. <i>International Journal of Engineering Science</i> , 2022, 177, 103703.	2.7	29
11	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
12	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
13	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
14	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
15	Hygro-thermal vibrations and buckling of laminated nanoplates via nonlocal strain gradient theory. <i>Composite Structures</i> , 2021, 262, 113337.	3.1	40
16	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
17	Critical Temperatures for Vibrations and Buckling of Magneto-Electro-Elastic Nonlocal Strain Gradient Plates. <i>Nanomaterials</i> , 2021, 11, 87.	1.9	38
18	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

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19	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
20	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
21	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
22	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
23	Nanobeams with Internal Discontinuities: A Local/Nonlocal Approach. <i>Nanomaterials</i> , 2021, 11, 2651.	1.9	5
24	Stability analysis at the micro- and macro-scales in periodic bioinspired composites. <i>Procedia Structural Integrity</i> , 2021, 33, 1103-1114.	0.3	0
25	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
26	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
27	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
28	Size-dependent linear elastic fracture of nanobeams. <i>International Journal of Engineering Science</i> , 2020, 157, 103381.	2.7	28
29	Nonlocal layerwise formulation for interfacial tractions in layered nanobeams. <i>Mechanics Research Communications</i> , 2020, 109, 103595.	1.0	7
30	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
31	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
32	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
33	Higher modes of buckling in shear deformable nanobeams. <i>International Journal of Engineering Science</i> , 2020, 154, 103338.	2.7	50
34	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
35	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
36	Material Symmetries in Homogenized Hexagonal-Shaped Composites as Cosserat Continua. <i>Symmetry</i> , 2020, 12, 441.	1.1	24

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37	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.	0.3	6
38	Bending and Buckling of Timoshenko Nano-Beams in Stress-Driven Approach. Lecture Notes in Mechanical Engineering, 2020, , 832-841.	0.3	0
39	Free Vibrations of Sandwich Plates with Damaged Soft-Core and Non-Uniform Mechanical Properties: Modeling and Finite Element Analysis. Materials, 2019, 12, 2444.	1.3	20
40	A refined diffuse cohesive approach for the failure analysis in quasibrittle materialsâ€”part II: Application to plain and reinforced concrete structures. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2764-2781.	1.7	42
41	A stress-driven local-nonlocal mixture model for Timoshenko nano-beams. Composites Part B: Engineering, 2019, 164, 590-598.	5.9	75
42	A numerical model based on ALE formulation to predict fast crack growth in composite structures. Procedia Structural Integrity, 2019, 18, 422-431.	0.3	2
43	Solution for cross- and angle-ply laminated Kirchhoff nano plates in bending using strain gradient theory. Composites Part B: Engineering, 2019, 173, 107006.	5.9	36
44	Nonlocal strain gradient exact solutions for functionally graded inflected nano-beams. Composites Part B: Engineering, 2019, 164, 667-674.	5.9	68
45	Longitudinal vibrations of nano-rods by stress-driven integral elasticity. Mechanics of Advanced Materials and Structures, 2019, 26, 1307-1315.	1.5	103
46	Stress-driven two-phase integral elasticity for torsion of nano-beams. Composites Part B: Engineering, 2018, 145, 62-69.	5.9	65
47	Stress-driven modeling of nonlocal thermoelastic behavior of nanobeams. International Journal of Engineering Science, 2018, 126, 53-67.	2.7	121
48	Nonlinear effects in fracture induced failure of compressively loaded fiber reinforced composites. Composite Structures, 2018, 189, 688-699.	3.1	34
49	Nonlocal integral elasticity in nanostructures, mixtures, boundary effects and limit behaviours. Continuum Mechanics and Thermodynamics, 2018, 30, 641-655.	1.4	75
50	Exact solutions of inflected functionally graded nano-beams in integral elasticity. Composites Part B: Engineering, 2018, 142, 273-286.	5.9	97
51	A multiscale damage analysis of periodic composites using a couple-stress/Cauchy multidomain model: Application to masonry structures. Composites Part B: Engineering, 2018, 141, 50-59.	5.9	73
52	Stress-driven nonlocal integral model for Timoshenko elastic nano-beams. European Journal of Mechanics, A/Solids, 2018, 72, 275-286.	2.1	94
53	Local stress in periodic composites via the Riesz summability method. Composites Part B: Engineering, 2018, 150, 27-35.	5.9	1
54	Predictive model for the collapse load of masonry assemblage with two piers joined by a spandrel. Meccanica, 2018, 53, 1803-1817.	1.2	1

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55	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
56	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
57	Stress-driven integral elastic theory for torsion of nano-beams. <i>Mechanics Research Communications</i> , 2018, 87, 35-41.	1.0	82
58	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
59	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
60	Nonlocal inflected nano-beams: A stress-driven approach of bi-Helmholtz type. <i>Composite Structures</i> , 2018, 200, 239-245.	3.1	71
61	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
62	Modulated Linear Dynamics of Functionally Graded Nanobeams With Nonlocal and Gradient Elasticity. , 2018, , 293-323.		2
63	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
64	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
65	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
66	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
67	Nano-beams under torsion: a stress-driven nonlocal approach. <i>PSU Research Review</i> , 2017, 1, 164-169.	1.3	10
68	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
69	Strengthening Masonry Arches with Lime-Based Mortar Composite. <i>Buildings</i> , 2017, 7, 49.	1.4	38
70	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
71	Experimental investigation on masonry arches strengthened with PBO-FRCM composite. <i>Composites Part B: Engineering</i> , 2016, 100, 228-239.	5.9	83
72	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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73	Functionally graded Timoshenko nanobeams: A novel nonlocal gradient formulation. Composites Part B: Engineering, 2016, 100, 208-219.	5.9	192
74	An adaptive multiscale strategy for the damage analysis of masonry modeled as a composite material. Composite Structures, 2016, 153, 972-988.	3.1	43
75	An Eringen-like model for Timoshenko nanobeams. Composite Structures, 2016, 139, 104-110.	3.1	62
76	Irregular stone masonries: Analysis and strengthening with glass fibre reinforced composites. Composites Part B: Engineering, 2016, 92, 84-93.	5.9	35
77	Experimental Investigation on Bond Behavior of Cement-Matrix-Based Composites for Strengthening of Masonry Structures. Journal of Composites for Construction, 2016, 20, .	1.7	54
78	A Fully Gradient Model for Euler-Bernoulli Nanobeams. Mathematical Problems in Engineering, 2015, 2015, 1-8.	0.6	51
79	Carbon-FRCM materials for structural upgrade of masonry arch road bridges. Composites Part B: Engineering, 2015, 75, 355-366.	5.9	70
80	On torsion of random composite beams. Composite Structures, 2015, 132, 915-922.	3.1	58
81	Mixed-mode fracture in lightweight aggregate concrete by using a moving mesh approach within a multiscale framework. Composite Structures, 2015, 123, 88-97.	3.1	40
82	Torsion of functionally graded nonlocal viscoelastic circular nanobeams. Composites Part B: Engineering, 2015, 72, 217-222.	5.9	86
83	A gradient Eringen model for functionally graded nanorods. Composite Structures, 2015, 131, 1124-1131.	3.1	67
84	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
85	Variational formulations for functionally graded nonlocal Bernoulli-Euler nanobeams. Composite Structures, 2015, 129, 80-89.	3.1	79
86	A multiscale model for the numerical simulation of the anchor bolt pull-out test in lightweight aggregate concrete. Construction and Building Materials, 2015, 95, 860-874.	3.2	38
87	Some closed-form solutions of functionally graded beams undergoing nonuniform torsion. Composite Structures, 2015, 123, 132-136.	3.1	54
88	Analogies between Kirchhoff plates and functionally graded Saint-Venant beams under torsion. Continuum Mechanics and Thermodynamics, 2015, 27, 499-505.	1.4	62
89	Comparative micromechanical assessment of adobe and clay brick masonry assemblages based on experimental data sets. Composite Structures, 2015, 120, 208-220.	3.1	38
90	Some analytical solutions of functionally graded Kirchhoff plates. Composites Part B: Engineering, 2015, 68, 266-269.	5.9	63

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91	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
92	Critical surfaces for adobe masonry: Micromechanical approach. <i>Composites Part B: Engineering</i> , 2014, 56, 790-796.	5.9	29
93	Exact solutions of isotropic viscoelastic functionally graded Kirchhoff plates. <i>Composite Structures</i> , 2014, 118, 448-454.	3.1	61
94	Nonlinear homogenized properties of defected composite materials. <i>Computers and Structures</i> , 2014, 134, 102-111.	2.4	36
95	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
96	Debonding of FRP in multi-span masonry arch structures via limit analysis. <i>Composite Structures</i> , 2014, 108, 856-865.	3.1	53
97	Damage mechanics of cement concrete modeled as a four-phase composite. <i>Composites Part B: Engineering</i> , 2014, 65, 124-130.	5.9	33
98	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
99	Homogenised properties of composite materials in large deformations. <i>Composite Structures</i> , 2013, 103, 9-17.	3.1	17
100	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
101	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
102	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
103	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
104	Design Optimization of Road Continuous Girder Bridges. , 2010, , .		0
105	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
106	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
107	Micromechanical analysis of interfacial debonding in unidirectional fiber-reinforced composites. <i>Computers and Structures</i> , 2006, 84, 2200-2211.	2.4	77
108	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

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109	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
110	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
111	Non-local constitutive equations for functionally graded materials. <i>Mechanics of Materials</i> , 2004, 36, 1195-1206.	1.7	24
112	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
113	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
114	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
115	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
116	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
117	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
118	Bounds on the overall properties of composites with debonded frictionless interfaces. <i>Mechanics of Materials</i> , 1998, 28, 23-32.	1.7	38
119	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
120	Homogenization technique and damage model for old masonry material. <i>International Journal of Solids and Structures</i> , 1997, 34, 3191-3208.	1.3	185
121	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