

Francesco Marotti de Sciarra

List of Publications by Year in descending order

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96
papers

4,070
citations

81743

39
h-index

123241

61
g-index

100
all docs

100
docs citations

100
times ranked

1178
citing authors

#	ARTICLE	IF	CITATIONS
1	On the nonlocal bending problem with fractional hereditariness. <i>Meccanica</i> , 2022, 57, 807-820.	1.2	10
2	Finite element method for stress-driven nonlocal beams. <i>Engineering Analysis With Boundary Elements</i> , 2022, 134, 22-34.	2.0	28
3	Analytical Solutions of Viscoelastic Nonlocal Timoshenko Beams. <i>Mathematics</i> , 2022, 10, 477.	1.1	13
4	Nonlocal integral elasticity for third-order small-scale beams. <i>Acta Mechanica</i> , 2022, 233, 2393-2403.	1.1	4
5	Random vibrations of stress-driven nonlocal beams with external damping. <i>Meccanica</i> , 2021, 56, 1329-1344.	1.2	26
6	On the dynamics of nano-frames. <i>International Journal of Engineering Science</i> , 2021, 160, 103433.	2.7	30
7	Timoshenko nonlocal strain gradient nanobeams: Variational consistency, exact solutions and carbon nanotube Young moduli. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 1523-1536.	1.5	46
8	Elastostatics of Bernoulli-Euler Beams Resting on Displacement-Driven Nonlocal Foundation. <i>Nanomaterials</i> , 2021, 11, 573.	1.9	15
9	Stress-driven two-phase integral elasticity for Timoshenko curved beams. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems</i> , 2021, 235, 52-63.	0.5	4
10	Dynamics of Stress-Driven Two-Phase Elastic Beams. <i>Nanomaterials</i> , 2021, 11, 1138.	1.9	11
11	On the regularity of curvature fields in stress-driven nonlocal elastic beams. <i>Acta Mechanica</i> , 2021, 232, 2595-2603.	1.1	18
12	Limit behaviour of Eringen's two-phase elastic beams. <i>European Journal of Mechanics, A/Solids</i> , 2021, 89, 104315.	2.1	16
13	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
14	On torsion of nonlocal Lam strain gradient FG elastic beams. <i>Composite Structures</i> , 2020, 233, 111550.	3.1	29
15	A consistent variational formulation of Bishop nonlocal rods. <i>Continuum Mechanics and Thermodynamics</i> , 2020, 32, 1311-1323.	1.4	18
16	Nonlocal strain gradient torsion of elastic beams: variational formulation and constitutive boundary conditions. <i>Archive of Applied Mechanics</i> , 2020, 90, 691-706.	1.2	47
17	On thermomechanics of multilayered beams. <i>International Journal of Engineering Science</i> , 2020, 155, 103364.	2.7	25
18	Nonlocal Mechanical Behavior of Layered Nanobeams. <i>Symmetry</i> , 2020, 12, 717.	1.1	7

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19	Variationally consistent dynamics of nonlocal gradient elastic beams. International Journal of Engineering Science, 2020, 149, 103220.	2.7	62
20	ON NONLOCAL LAM STRAIN GRADIENT MECHANICS OF ELASTIC RODS. International Journal for Multiscale Computational Engineering, 2020, 18, 67-81.	0.8	7
21	Stress-Driven Approach for Stochastic Analysis of Noisy Nonlocal Beam. Lecture Notes in Mechanical Engineering, 2020, , 1670-1686.	0.3	0
22	A stress-driven local-nonlocal mixture model for Timoshenko nano-beams. Composites Part B: Engineering, 2019, 164, 590-598.	5.9	75
23	On nonlocal mechanics of curved elastic beams. International Journal of Engineering Science, 2019, 144, 103140.	2.7	53
24	Variational nonlocal gradient elasticity for nano-beams. International Journal of Engineering Science, 2019, 143, 73-91.	2.7	84
25	Nonlocal integral thermoelasticity: A thermodynamic framework for functionally graded beams. Composite Structures, 2019, 225, 111104.	3.1	27
26	Aifantis versus Lam strain gradient models of Bishop elastic rods. Acta Mechanica, 2019, 230, 2799-2812.	1.1	38
27	Stress-driven nonlocal integral elasticity for axisymmetric nano-plates. International Journal of Engineering Science, 2019, 136, 38-52.	2.7	93
28	Modified Nonlocal Strain Gradient Elasticity for Nano-Rods and Application to Carbon Nanotubes. Applied Sciences (Switzerland), 2019, 9, 514.	1.3	39
29	Nonlocal strain gradient exact solutions for functionally graded inflected nano-beams. Composites Part B: Engineering, 2019, 164, 667-674.	5.9	68
30	Axial and flexional behaviour of elastic nano-beams by stress-driven two-phase elasticity. , 2019, , 480-485.		1
31	Stress-driven modeling of nonlocal thermoelastic behavior of nanobeams. International Journal of Engineering Science, 2018, 126, 53-67.	2.7	121
32	Exact solutions of inflected functionally graded nano-beams in integral elasticity. Composites Part B: Engineering, 2018, 142, 273-286.	5.9	97
33	Stress-driven nonlocal integral model for Timoshenko elastic nano-beams. European Journal of Mechanics, A/Solids, 2018, 72, 275-286.	2.1	94
34	Closed-form solutions in stress-driven two-phase integral elasticity for bending of functionally graded nano-beams. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 97, 13-30.	1.3	93
35	Stress-driven integral elastic theory for torsion of nano-beams. Mechanics Research Communications, 2018, 87, 35-41.	1.0	82
36	Free vibrations of elastic beams by modified nonlocal strain gradient theory. International Journal of Engineering Science, 2018, 133, 99-108.	2.7	122

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37	Constitutive boundary conditions for nonlocal strain gradient elastic nano-beams. International Journal of Engineering Science, 2018, 130, 187-198.	2.7	136
38	Modulated Linear Dynamics of Functionally Graded Nanobeams With Nonlocal and Gradient Elasticity. , 2018, , 293-323.		2
39	Application of gradient elasticity to armchair carbon nanotubes: Size effects and constitutive parameters assessment. European Journal of Mechanics, A/Solids, 2017, 65, 1-13.	2.1	68
40	Experimental evaluations and modeling of the tensile behavior of polypropylene/single-walled carbon nanotubes fibers. Composite Structures, 2017, 174, 12-18.	3.1	70
41	Free vibrations of Bernoulli-Euler nano-beams by the stress-driven nonlocal integral model. Composites Part B: Engineering, 2017, 123, 105-111.	5.9	202
42	Nano-beams under torsion: a stress-driven nonlocal approach. PSU Research Review, 2017, 1, 164-169.	1.3	10
43	Constitutive boundary conditions and paradoxes in nonlocal elastic nanobeams. International Journal of Mechanical Sciences, 2017, 121, 151-156.	3.6	403
44	A closed-form model for torsion of nanobeams with an enhanced nonlocal formulation. Composites Part B: Engineering, 2017, 108, 315-324.	5.9	83
45	Application of an enhanced version of the Eringen differential model to nanotechnology. Composites Part B: Engineering, 2016, 96, 274-280.	5.9	98
46	Functionally graded Timoshenko nanobeams: A novel nonlocal gradient formulation. Composites Part B: Engineering, 2016, 100, 208-219.	5.9	192
47	An Eringen-like model for Timoshenko nanobeams. Composite Structures, 2016, 139, 104-110.	3.1	62
48	On functionally graded Timoshenko nonisothermal nanobeams. Composite Structures, 2016, 135, 286-296.	3.1	53
49	A gradient elasticity model of Bernoulli-Euler nanobeams in non-isothermal environments. European Journal of Mechanics, A/Solids, 2016, 55, 243-255.	2.1	51
50	A higher-order Eringen model for Bernoulli-Euler nanobeams. Archive of Applied Mechanics, 2016, 86, 483-495.	1.2	46
51	Mixed Variational Principles in Nondissipative Coupled Thermoelasticity. Advances in Mechanical Engineering, 2015, 6, 684075-684075.	0.8	0
52	A Fully Gradient Model for Euler-Bernoulli Nanobeams. Mathematical Problems in Engineering, 2015, 2015, 1-8.	0.6	51
53	Flexural properties of multi-wall carbon nanotube/polypropylene composites: Experimental investigation and nonlocal modeling. Composite Structures, 2015, 131, 282-289.	3.1	62
54	A gradient model for torsion of nanobeams. Comptes Rendus - Mecanique, 2015, 343, 289-300.	2.1	12

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55	A gradient Eringen model for functionally graded nanorods. <i>Composite Structures</i> , 2015, 131, 1124-1131.	3.1	67
56	Variational formulations for functionally graded nonlocal Bernoulli-Euler nanobeams. <i>Composite Structures</i> , 2015, 129, 80-89.	3.1	79
57	Analogies between nonlocal and local Bernoulli-Euler nanobeams. <i>Archive of Applied Mechanics</i> , 2015, 85, 89-99.	1.2	53
58	A Nonlocal Model of Plasticity and Damage with Different Internal Lengths. <i>Advanced Structured Materials</i> , 2015, , 171-184.	0.3	0
59	Exact solutions for a coupled nonlocal model of nanobeams. , 2014, , .		0
60	Small-scale effects in nanorods. <i>Acta Mechanica</i> , 2014, 225, 1945-1953.	1.1	43
61	Finite element modelling of nonlocal beams. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 59, 144-149.	1.3	45
62	A new nonlocal bending model for Euler-Bernoulli nanobeams. <i>Mechanics Research Communications</i> , 2014, 62, 25-30.	1.0	51
63	A gradient model for Timoshenko nanobeams. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 62, 1-9.	1.3	37
64	On thermodynamic functions in thermoelasticity without energy dissipation. <i>European Journal of Mechanics, A/Solids</i> , 2014, 46, 84-95.	2.1	31
65	A Nonlocal Model for Carbon Nanotubes under Axial Loads. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-6.	1.0	46
66	A Nonlocal Finite Element Approach to Nanobeams. <i>Advances in Mechanical Engineering</i> , 2013, 5, 720406.	0.8	8
67	Some Variational Principles for Coupled Thermoelasticity. <i>Journal of Engineering (United States)</i> , 2013, 2013, 1-8.	0.5	0
68	Hardening plasticity with nonlocal strain damage. <i>International Journal of Plasticity</i> , 2012, 34, 114-138.	4.1	37
69	Novel variational formulations for nonlocal plasticity. <i>International Journal of Plasticity</i> , 2009, 25, 302-331.	4.1	24
70	On non-local and non-homogeneous elastic continua. <i>International Journal of Solids and Structures</i> , 2009, 46, 651-676.	1.3	40
71	A nonlocal model with strain-based damage. <i>International Journal of Solids and Structures</i> , 2009, 46, 4107-4122.	1.3	42
72	Variational formulations, convergence and stability properties in nonlocal elastoplasticity. <i>International Journal of Solids and Structures</i> , 2008, 45, 2322-2354.	1.3	29

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73	Variational formulations and a consistent finite-element procedure for a class of nonlocal elastic continua. International Journal of Solids and Structures, 2008, 45, 4184-4202.	1.3	41
74	A general theory for nonlocal softening plasticity of integral-type. International Journal of Plasticity, 2008, 24, 1411-1439.	4.1	22
75	On Stability for Elastoplasticity of Integral-Type. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2008, , 107-116.	0.1	0
76	A nonlocal formulation of plasticity. , 2005, , 115-125.		1
77	Nonlocal and gradient rate plasticity. International Journal of Solids and Structures, 2004, 41, 7329-7349.	1.3	11
78	Relations between enhanced strain methods and the HR method. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 2661-2677.	3.4	2
79	Well-posedness and numerical performances of the strain gap method. International Journal for Numerical Methods in Engineering, 2001, 51, 103-126.	1.5	13
80	The B-bar method and the limitation principles. International Journal of Solids and Structures, 1999, 36, 5177-5206.	1.3	3
81	General Theory of Damage Elastoplastic Models. Journal of Engineering Mechanics - ASCE, 1997, 123, 1003-1011.	1.6	9
82	Direct and dual theorems of castigliano and clapeyron for generalized elastic models. Acta Mechanica, 1997, 124, 107-130.	1.1	1
83	A new variational theory and a computational algorithm for coupled elastoplastic damage models. International Journal of Solids and Structures, 1997, 34, 1761-1796.	1.3	9
84	Compatible mixed formulations for elastoplastic models. Mechanics Research Communications, 1996, 23, 339-348.	1.0	0
85	Automatic analysis of multicell thin-walled sections. Computers and Structures, 1996, 59, 641-655.	2.4	6
86	A consistent approach to continuum and discrete rate elastoplastic structural problems. Computer Methods in Applied Mechanics and Engineering, 1996, 137, 207-238.	3.4	0
87	Mixed finite element formulations and related limitation principles: a general treatment. Computer Methods in Applied Mechanics and Engineering, 1996, 138, 105-130.	3.4	5
88	Authors' closure. International Journal of Solids and Structures, 1995, 32, 1479-1480.	1.3	0
89	Variational principles for a class of finite step elastoplastic problems with non-linear mixed hardening. Computer Methods in Applied Mechanics and Engineering, 1993, 109, 293-314.	3.4	12
90	Variational formulations of non-linear and non-smooth structural problems. International Journal of Non-Linear Mechanics, 1993, 28, 195-208.	1.4	17

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91	A variational theory for finite-step elasto-plastic problems. International Journal of Solids and Structures, 1993, 30, 2317-2334.	1.3	24
92	An internal variable theory of inelastic behaviour derived from the uniaxial rigid-perfectly plastic law. International Journal of Engineering Science, 1993, 31, 1105-1120.	2.7	19
93	A potential theory for monotone multivalued operators. Quarterly of Applied Mathematics, 1993, 51, 613-631.	0.5	21
94	Buckling of thin-walled beams with open and generically variable section. Computers and Structures, 1992, 44, 843-849.	2.4	11
95	Dynamic behavior of nanobeams under axial loads: Integral elasticity modeling and size-dependent eigenfrequencies assessment. Mathematical Methods in the Applied Sciences, 0, , .	1.2	5
96	Elasticity problems of beams on reaction-driven nonlocal foundation. Archive of Applied Mechanics, 0, , .	1.2	4