Rosa Penna

List of Publications by Year
in descending order

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41 papers	2,099 citations	201575 27 h-index	289141 40 g-index
42 all docs	42 docs citations	42 times ranked	1508 citing authors

#	Article	IF	Citations
1	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
2	Functionally graded Timoshenko nanobeams: A novel nonlocal gradient formulation. Composites Part B: Engineering, 2016, 100, 208-219.	5.9	192
3	Dimensional accuracy analysis of coupled fused deposition modeling and vapour smoothing operations for biomedical applications. Composites Part B: Engineering, 2017, 117, 138-149.	5.9	119
4	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
5	Exact solutions of inflected functionally graded nano-beams in integral elasticity. Composites Part B: Engineering, 2018, 142, 273-286.	5.9	97
6	On the recyclability of polyamide for sustainable composite structures in civil engineering. Composite Structures, 2018, 184, 704-713.	3.1	95
7	Free vibrations of FG elastic Timoshenko nano-beams by strain gradient and stress-driven nonlocal models. Composites Part B: Engineering, 2018, 154, 20-32.	5.9	85
8	Stress-driven integral elastic theory for torsion of nano-beams. Mechanics Research Communications, 2018, 87, 35-41.	1.0	82
9	Mechanical behavior of webâ€“flange junctions of thin-walled pultruded I-profiles: An experimental and numerical evaluation. Composites Part B: Engineering, 2013, 48, 18-39.	5.9	79
10	Friction welding for the manufacturing of PA6 and ABS structures reinforced with Fe particles. Composites Part B: Engineering, 2018, 132, 244-257.	5.9	75
11	Green Concrete: By-Products Utilization and Advanced Approaches. Sustainability, 2019, 11, 5145.	1.6	75
12	Investigations for Thermal and Electrical Conductivity of ABS-Graphene Blended Prototypes. Materials, 2017, 10, 881.	1.3	68
13	Stress-driven two-phase integral elasticity for torsion of nano-beams. Composites Part B: Engineering, 2018, 145, 62-69.	5.9	65
14	Web-flange behavior of pultruded GFRP I-beams: A lattice model for the interpretation of experimental results. Composites Part B: Engineering, 2016, 100, 257-269.	5.9	62
15	Investigation on interfacial defect criticality of FRP-bonded concrete beams. Composites Part B: Engineering, 2017, 113, 80-90.	5.9	62
16	Investigations for mechanical properties of Hap, PVC and PP based 3D porous structures obtained through biocompatible FDM filaments. Composites Part B: Engineering, 2018, 132, 237-243.	5.9	62
17	Numerical collapse load of multi-span masonry arch structures with FRP reinforcement. Composites Part B: Engineering, 2013, 54, 71-84.	5.9	57
18	An experimental investigation on freezing and thawing durability of high performance fiber reinforced concrete (HPFRC). Composite Structures, 2020, 234, 111673.	3.1	42

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19	Pilot study on the experimental behavior of GFRP-steel slip-critical connections. Composites Part B: Engineering, 2017, 115, 209-222.	5.9	41
20	Structural evaluation of axial and rotational flexibility and strength of webâ€“flange junctions of open-web pultruded composites. Composites Part B: Engineering, 2014, 66, 311-327.	5.9	38
21	Hygro-thermal bending behavior of porous FG nano-beams via local/nonlocal strain and stress gradient theories of elasticity. Composite Structures, 2021, 263, 113627.	3.1	38
22	Nonlinear free vibrations analysis of geometrically imperfect FG nano-beams based on stress-driven nonlocal elasticity with initial pretension force. Composite Structures, 2021, 255, 112856.	3.1	37
23	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
24	Analytical solution of cross- and angle-ply nano plates with strain gradient theory for linear vibrations and buckling. Mechanics of Advanced Materials and Structures, 2021, 28, 1201-1215.	1.5	36
25	An interface approach based on moving mesh and cohesive modeling in Z-pinned composite laminates. Composites Part B: Engineering, 2018, 135, 207-217.	5.9	34
26	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
27	Nonlinear compressive failure analysis of biaxially loaded fiber reinforced materials. Composites Part B: Engineering, 2018, 147, 240-251.	5.9	31
28	On torsion of nonlocal Lam strain gradient FG elastic beams. Composite Structures, 2020, 233, 111550.	3.1	29
29	Fourier series expansion in non-orthogonal coordinate system for the homogenization of linear viscoelastic periodic composites. Composites Part B: Engineering, 2013, 54, 241-245.	5.9	21
30	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
31	Hygro-Thermal Vibrations of Porous FG Nano-Beams Based on Local/Nonlocal Stress Gradient Theory of Elasticity. Nanomaterials, 2021, 11, 910.	1.9	15
32	Experimental investigation on cyclic response of RC elements repaired by CFRP external reinforcing systems. Composites Part B: Engineering, 2017, 112, 290-299.	5.9	14
33	Nano-beams under torsion: a stress-driven nonlocal approach. PSU Research Review, 2017, 1, 164-169.	1.3	10
34	Dynamic Response of Multilayered Polymer Functionally Graded Carbon Nanotube Reinforced Composite (FG-CNTRC) Nano-Beams in Hygro-Thermal Environment. Polymers, 2021, 13, 2340.	2.0	10
35	Nonlinear Dynamic Behavior of Porous and Imperfect Bernoulli-Euler Functionally Graded Nanobeams Resting on Winkler Elastic Foundation. Technologies, 2020, 8, 56.	3.0	8
36	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. Nanomaterials, 2022, 12, 2098.	1.9	8

#	Article	IF	Citations
37	A cracked-hinge approach to modelling high performance fiber-reinforced concrete. Composite Structures, 2021, 273, 114277.	3.1	5
38	A Note on Torsion of Nonlocal Composite Nanobeams. Modelling and Simulation in Engineering, 2016, 2016, 1-5.	0.4	3
39	On Bending of Bernoulli-Euler Nanobeams for Nonlocal Composite Materials. Modelling and Simulation in Engineering, 2016, 2016, 1-5.	0.4	2
40	Local stress in periodic composites via the Riesz summability method. Composites Part B: Engineering, 2018, 150, 27-35.	5.9	1
41	Design of an FRP Cable-Stayed Pedestrian Bridge. Morphology, Technology and Required Performances. Lecture Notes in Civil Engineering, 2022, , 46-62.	0.3	1