Rosa Penna

List of Publications by Year
in descending order

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41 papers	2,099 citations	201385 27 h-index	288905 40 g-index
42 all docs	42 docs citations	42 times ranked	1508 citing authors

#	Article	IF	Citations
1	Design of an FRP Cable-Stayed Pedestrian Bridge. Morphology, Technology and Required Performances. Lecture Notes in Civil Engineering, 2022, , 46-62.	0.3	1
2	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
3	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
4	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
5	Hygro-Thermal Vibrations of Porous FG Nano-Beams Based on Local/Nonlocal Stress Gradient Theory of Elasticity. Nanomaterials, 2021, 11, 910.	1.9	15
6	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
7	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
8	A cracked-hinge approach to modelling high performance fiber-reinforced concrete. Composite Structures, 2021, 273, 114277.	3.1	5
9	On torsion of nonlocal Lam strain gradient FG elastic beams. Composite Structures, 2020, 233, 111550.	3.1	29
10	An experimental investigation on freezing and thawing durability of high performance fiber reinforced concrete (HPFRC). Composite Structures, 2020, 234, 111673.	3.1	42
11	Nonlinear Dynamic Behavior of Porous and Imperfect Bernoulli-Euler Functionally Graded Nanobeams Resting on Winkler Elastic Foundation. Technologies, 2020, 8, 56.	3.0	8
12	Green Concrete: By-Products Utilization and Advanced Approaches. Sustainability, 2019, 11, 5145.	1.6	75
13	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
14	Stress-driven two-phase integral elasticity for torsion of nano-beams. Composites Part B: Engineering, 2018, 145, 62-69.	5.9	65
15	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
16	Nonlinear compressive failure analysis of biaxially loaded fiber reinforced materials. Composites Part B: Engineering, 2018, 147, 240-251.	5.9	31
17	Exact solutions of inflected functionally graded nano-beams in integral elasticity. Composites Part B: Engineering, 2018, 142, 273-286.	5.9	97
18	Local stress in periodic composites via the Riesz summability method. Composites Part B: Engineering, 2018, 150, 27-35.	5.9	1

#	Article	IF	Citations
19	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
20	On the recyclability of polyamide for sustainable composite structures in civil engineering. Composite Structures, 2018, 184, 704-713.	3.1	95
21	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
22	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
23	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
24	Stress-driven integral elastic theory for torsion of nano-beams. Mechanics Research Communications, 2018, 87, 35-41.	1.0	82
25	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
26	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
27	Investigation on interfacial defect criticality of FRP-bonded concrete beams. Composites Part B: Engineering, 2017, 113, 80-90.	5.9	62
28	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
29	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
30	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
31	Nano-beams under torsion: a stress-driven nonlocal approach. PSU Research Review, 2017, 1, 164-169.	1.3	10
32	Pilot study on the experimental behavior of GFRP-steel slip-critical connections. Composites Part B: Engineering, 2017, 115, 209-222.	5.9	41
33	Investigations for Thermal and Electrical Conductivity of ABS-Graphene Blended Prototypes. Materials, 2017, 10, 881.	1.3	68
34	On Bending of Bernoulli-Euler Nanobeams for Nonlocal Composite Materials. Modelling and Simulation in Engineering, 2016, 2016, 1-5.	0.4	2
35	A Note on Torsion of Nonlocal Composite Nanobeams. Modelling and Simulation in Engineering, 2016, 2016, 1-5.	0.4	3
36	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

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37	Functionally graded Timoshenko nanobeams: A novel nonlocal gradient formulation. Composites Part B: Engineering, 2016, 100, 208-219.	5.9	192
38	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
39	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
40	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
41	Numerical collapse load of multi-span masonry arch structures with FRP reinforcement. Composites Part B: Engineering, 2013, 54, 71-84.	5.9	57