Antonio Pantano

List of Publications by Citations

47 papers	1,242 citations	17 h-index	35 g-index
49 ext. papers	1,383 ext. citations	3.6 avg, IF	4.59 L-index

#	Paper	IF	Citations
47	Mechanics of deformation of single- and multi-wall carbon nanotubes. *Journal of the Mechanics and Physics of Solids*, **2004**, 52, 789-821	5	433
46	Nonlinear structural mechanics based modeling of carbon nanotube deformation. *Physical Review Letters*, **2003**, 91, 145504	7.4	136
45	Mechanics of Axial Compression of Single and Multi-Wall Carbon Nanotubes. *Journal of Engineering Materials and Technology, Transactions of the ASME*, **2004**, 126, 279-284	1.8	78
44	Inspection of additive-manufactured layered components. *Ultrasonics*, **2015**, 62, 292-8	3.5	71
43	Multiwalled carbon nanotube reinforced polymer composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 486, 222-227	5.3	54
42	Numerical model for composite material with polymer matrix reinforced by carbon nanotubes. *Meccanica*, **2008**, 43, 263-270	2.1	43
41	A penalty-based finite element interface technology. *Computers and Structures*, **2002**, 80, 1725-1748	4.5	31
40	Rapid evaluation of notch stress intensity factors using the peak stress method: Comparison of commercial finite element codes for a range of mesh patterns. *Fatigue and Fracture of Engineering Materials and Structures*, **2018**, 41, 1044-1063	3	29
39	Numerical study for a new methodology of flaws detection in train axles. *Ultrasonics*, **2014**, 54, 841-9	3.5	27
38	Mechanical properties of carbon nanotube fibres: St Venant principle at the limit and the role of imperfections. *Carbon*, **2015**, 93, 1021-1033	10.4	27
37	A mesh-independent interface technology for simulation of mixed-mode delamination growth. *International Journal of Solids and Structures*, **2004**, 41, 3809-3831	3.1	26
36	3D simulations and experiments of guided wave propagation in adhesively bonded multi-layered structures. *NDT and E International*, **2010**, 43, 527-535	4.1	24
35	Simulation of laser generated ultrasound with application to defect detection. *Applied Physics A: Materials Science and Processing*, **2008**, 91, 521-528	2.6	24
34	Mixed finite element-tight-binding electromechanical analysis of carbon nanotubes. *Journal of Applied Physics*, **2004**, 96, 6756-6760	2.5	23
33	A penalty-based interface technology for coupling independently modeled 3D finite element meshes. *Finite Elements in Analysis and Design*, **2007**, 43, 271-286	2.2	21
32	Influence of laser beam profile on the generation of ultrasonic waves. *Applied Physics A: Materials Science and Processing*, **2011**, 105, 959-967	2.6	19
31	Parameters influencing the stiffness of composites reinforced by carbon nanotubes A numerical analytical approach. *Composite Structures*, **2014**, 109, 246-252	5.3	18

30	A 3D Zig-Zag Sublaminate Model for Analysis of Thermal Stresses in Laminated Composite and Sandwich Plates. *Journal of Sandwich Structures and Materials*, **2000**, 2, 288-312	2.1	14
29	Numerical model for the characterization of biocomposites reinforced by sisal fibres. *Procedia Structural Integrity*, **2018**, 8, 517-525	1	13
28	Simulation of laser-generated ultrasonic wave propagation in solid media and air with application to NDE. *Applied Physics A: Materials Science and Processing*, **2010**, 98, 327-336	2.6	13
27	Numerical simulations demonstrate that the double tapering of the spatualae of lizards and insects maximize both detachment resistance and stability. *International Journal of Fracture*, **2011**, 171, 169-175	2.3	11
26	A numerical-analytical model for the characterization of composites reinforced by carbon nanotubes. *Applied Physics A: Materials Science and Processing*, **2010**, 99, 895-902	2.6	11
25	An Equivalent Orthotropic Representation of the Nonlinear Elastic Behavior of Multiwalled Carbon Nanotubes. *Journal of Engineering Materials and Technology, Transactions of the ASME*, **2007**, 129, 431-439	1.8	10
24	Surface waves on cylindrical solids: numerical and experimental study. *Ultrasonics*, **2013**, 53, 913-21	3.5	9
23	Guided Wave Propagation in a Plate Edge and Application to NDI of Rail Base. *Journal of Nondestructive Evaluation*, **2012**, 31, 245-252	2.1	8
22	Simulation of the electromechanical behavior of multiwall carbon nanotubes. *ACS Nano*, **2009**, 3, 3266-72	16.7	7
21	Carbon Nanotubes Dispersion Assessment in Nanocomposites by Means of a Pulsed Thermographic Approach. *Materials*, **2020**, 13,	3.5	7
20	Novel non-destructive evaluation technique for the detection of poor dispersion of carbon nanotubes in nanocomposites. *Composites Part B: Engineering*, **2019**, 163, 52-58	10	7
19	New Concept in Bioderived Composites: Biochar as Toughening Agent for Improving Performances and Durability of Agave-Based Epoxy Biocomposites. *Polymers*, **2021**, 13,	4.5	6
18	Impeller Optimization in Crossflow Hydraulic Turbines. *Water (Switzerland)*, **2021**, 13, 313	3	6
17	Finite Element Interface Technology for Modeling Delamination Growth in Composite Structures. *AIAA Journal*, **2004**, 42, 1252-1260	2.1	5
16	An Improved Thermal Lamination Model for Analysis of Heat Transfer in Composite Structures. *Journal of Composite Materials*, **2002**, 36, 701-719	2.7	5
15	Design of a telescopic tower for wind energy production with reduced environmental impact. *International Journal of Precision Engineering and Manufacturing - Green Technology*, **2020**, 7, 119-130	3.8	5
14	Mechanical Properties of CNT/Polymer **2018**, 201-232		4
13	Effects of mechanical deformation on electronic transport through multiwall carbon nanotubes. *International Journal of Solids and Structures*, **2017**, 122-123, 33-41	3.1	3

12	Cohesive Model for the Simulation of Crack Initiation and Propagation in Mixed-Mode I/II in Composite Materials. *Applied Composite Materials*, **2019**, 26, 1207-1225	2	3
11	Electronic properties of carbon nanotubes under torsion. *Applied Physics A: Materials Science and Processing*, **2013**, 110, 77-85	2.6	2
10	Rapid evaluation of notch stress intensity factors using the peak stress method with 3D tetrahedral finite element models: Comparison of commercial codes. *Fatigue and Fracture of Engineering Materials and Structures*,	3	2
9	Enhancement of Static and Fatigue Strength of Short Sisal Fiber Biocomposites by Low Fraction Nanotubes. *Applied Composite Materials*, **2021**, 28, 91-112	2	2
8	Electrical conductance of carbon nanotubes with misaligned ends. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	1
7	Stress Transfer within CNT Fibres: A FEA Approach. *Procedia Engineering*, **2015**, 109, 435-440		1
6	Design of a Low Cost 3D Printable Single-Component Compliant Mechanism for FWMAV Wing Actuation. *Lecture Notes in Mechanical Engineering*, **2022**, 39-49	0.4	1
5	Numerical Analytical Model for Nanotube-Reinforced Nanocomposites **2013**, 201-214		
4	Electromechanical Behavior of Single and Multiwall Carbon Nanotubes. *Advances in Science and Technology*, **2008**, 54, 390-395	0.1	
3	Electrical Conduction in Carbon Nanotubes under Mechanical Deformations. *Challenges and Advances in Computational Chemistry and Physics*, **2010**, 335-365	0.7	
2	Hybrid nanocomposites with ultra-low filling content by nano-coating fragmentation. *Polymer-Plastics Technology and Materials*,1-15	1.5	
1	Continuous Microfiber Wire Mandrel-Less Biofabrication for Soft Tissue Engineering Applications.. *Advanced Healthcare Materials*, **2022**, e2102613	10.1	