

Assimina A Pelegri

List of Publications by Citations

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55
papers

724
citations

13
h-index

26
g-index

77
ext. papers

839
ext. citations

3.6
avg, IF

4.09
L-index

#	Paper	IF	Citations
55	Numerical generation of a random chopped fiber composite RVE and its elastic properties. <i>Composites Science and Technology</i> , 2008 , 68, 2792-2798	8.6	128
54	Analysis of 3D random chopped fiber reinforced composites using FEM and random sequential adsorption. <i>Computational Materials Science</i> , 2008 , 43, 450-461	3.2	88
53	Nanoindentation on soft film/hard substrate and hard film/soft substrate material systems with finite element analysis. <i>Composites Science and Technology</i> , 2008 , 68, 147-155	8.6	74
52	Growth of internal delaminations under cyclic compression in composite plates. <i>Journal of the Mechanics and Physics of Solids</i> , 1995 , 43, 847-866	5	43
51	Finite element analysis on nanoindentation with friction contact at the film/substrate interface. <i>Composites Science and Technology</i> , 2007 , 67, 1311-1319	8.6	38
50	Numerical characterization of material elastic properties for random fiber composites. <i>Journal of Mechanics of Materials and Structures</i> , 2008 , 3, 1279-1298	1.2	35
49	Delamination growth during pre- and post-buckling phases of delaminated composite laminates. <i>International Journal of Solids and Structures</i> , 1998 , 35, 19-31	3.1	28
48	Nanoindentation Measurements on Low-k Porous Silica Thin Films Spin Coated on Silicon Substrates. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2003 , 125, 361-367 ¹⁸	1.8	23
47	Limiting role of crystalline domain orientation on the modulus and strength of aramid fibers. <i>Polymer</i> , 2018 , 140, 96-106	3.9	20
46	A transition model for finite element simulation of kinematics of central nervous system white matter. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 3443-6	5	17
45	Finite Element Modeling of CNS White Matter Kinematics: Use of a 3D RVE to Determine Material Properties. <i>Frontiers in Bioengineering and Biotechnology</i> , 2013 , 1, 19	5.8	16
44	A mechanical model to compute elastic modulus of tissues for harmonic motion imaging. <i>Journal of Biomechanics</i> , 2008 , 41, 2150-8	2.9	16
43	Mechanical Characterization of Thin Film Materials with Nanoindentation Measurements and FE Analysis. <i>Journal of Composite Materials</i> , 2006 , 40, 1393-1407	2.7	16
42	Optimization of Laminates Fracture Toughness Using Design of Experiments and Response Surface. <i>Journal of Composite Materials</i> , 2003 , 37, 579-596	2.7	13
41	Design of composites using a generic unit cell model coupled with a hybrid genetic algorithm. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 1433-1443	8.4	11
40	Molecular Dynamics Study of Cubic Boron Nitride Nanoparticles: Decomposition with Phase Segregation during Melting. <i>ACS Nano</i> , 2016 , 10, 10563-10572	16.7	10
39	Dynamic simulation of viscoelastic soft tissue in acoustic radiation force creep imaging. <i>Journal of Biomechanical Engineering</i> , 2014 , 136, 094502	2.1	10

38	Multiscale modeling of matrix cracking coupled with interfacial debonding in random glass fiber composites based on volume elements. <i>Journal of Composite Materials</i> , 2013 , 47, 3389-3399	2.7	10
37	The stability of delamination growth in compressively loaded composite plates. <i>International Journal of Fracture</i> , 1994 , 65, 261-276	2.3	10
36	A Bayesian approach for characterization of soft tissue viscoelasticity in acoustic radiation force imaging. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2016 , 32, e02741	2.6	9
35	Three-Dimensional Numerical Simulation of Random Fiber Composites With High Aspect Ratio and High Volume Fraction. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2011 , 133,	1.8	9
34	Approximate Analysis of the Buckling Behavior of Composites with Delamination. <i>Journal of Composite Materials</i> , 2003 , 37, 673-685	2.7	9
33	Fiberwalk: a random walk approach to fiber representative volume element creation. <i>Acta Mechanica</i> , 2014 , 225, 1301-1312	2.1	7
32	Progressive Damage Analysis of Random Chopped Fiber Composite Using Finite Elements. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2011 , 133,	1.8	7
31	Growth behavior of internal delaminations in composite beam/plates under compression: effect of the end conditions. <i>International Journal of Fracture</i> , 1996 , 75, 49-67	2.3	7
30	Estimating axonal strain and failure following white matter stretch using contactin-associated protein as a fiduciary marker. <i>Journal of Biomechanics</i> , 2017 , 51, 32-41	2.9	6
29	Characterization of the three-dimensional kinematic behavior of axons in central nervous system white matter. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015 , 14, 1303-15	3.8	6
28	Multiscale modeling of randomly interwoven fibers for prediction of KM2 Kevlar yarn strength and damage. <i>Acta Mechanica</i> , 2015 , 226, 4149-4158	2.1	6
27	Tensile properties of zinc coated aluminium. <i>Surface and Coatings Technology</i> , 1993 , 57, 203-206	4.4	6
26	Assessment of the Fracture Behavior of an Asymmetrically Loaded Cantilever Composite Structure. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2003 , 125, 353-360	1.8	5
25	Interfacial crack kinking subjected to contact effects. <i>Journal of Mechanics of Materials and Structures</i> , 2008 , 3, 591-605	1.2	5
24	Evolution of Interlayer and Intralayer Cracks Under Compressive Fatigue in Composites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1999 , 121, 430-435	1.8	4
23	Modelling of global boundary effects on harmonic motion imaging of soft tissues. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014 , 17, 1021-31	2.1	3
22	Interfacial Debonding of Glass Single Fiber Composites Using the Johnson-Cook Failure Model 2013 ,		3
21	A Hierarchical Model for Kevlar Fiber Failure 2013 ,		3

20	Numerical Evaluation of Stiffness and Energy Absorption of a Hybrid Unidirectional/Random Glass Fiber Composite. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2011 , 133,	1.8	3
19	Influence of matrix plasticity and residual thermal stress on interfacial debonding of a single fiber composite. <i>Journal of Mechanics of Materials and Structures</i> , 2010 , 5, 129-142	1.2	3
18	Tests and analysis on the delamination fatigue growth in glass/epoxy composite plates 1996 ,		3
17	Analytical model of nonlinear twist dependency for Kevlar yarn based on local filament strain. <i>Acta Mechanica</i> , 2017 , 228, 561-574	2.1	2
16	Experimental Investigation of Transverse Mechanical Properties of High-Performance Kevlar KM2 Single Fiber 2017 ,		1
15	Simulation of the Mechanical Behavior of White Matter Using a Micromechanics Finite Element Method. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1301, 87		1
14	Finite element dynamic analysis of soft tissues using state-space model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2009 , 12, 197-209	2.1	1
13	Mapping of Regional Cancerous Tissue Mechanical Property Changes Using Harmonic Motion Imaging 2007 ,		1
12	Dynamic simulation of viscoelastic soft tissues in harmonic motion imaging application. <i>Journal of Biomechanics</i> , 2008 , 41, 3031-7	2.9	1
11	On the Energy Release Rate of Fatigued Composites Subjected to Compressive Overloads. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2000 , 122, 443-449	1.8	1
10	Serration effects on interfacial cracks. <i>Journal of Mechanics of Materials and Structures</i> , 2007 , 2, 1773-1785		1
9	On the Transversely Isotropic, Hyperelastic Response of Central Nervous System White Matter Using a Hybrid Approach. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , 2021 , 4,	1	1
8	Tunable Electrical Properties of Embossed, Cellulose-Based Paper for Skin-like Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51960-51968	9.5	0
7	On the transverse indentation moduli of high-performance KM2 single fibers using a curved area function. <i>Acta Mechanica</i> , 2020 , 231, 2113-2124	2.1	0
6	Sensitivity analysis of effective transverse shear viscoelastic and diffusional properties of myelinated white matter. <i>Physics in Medicine and Biology</i> , 2021 , 66, 035027	3.8	0
5	Graphene-reinforced polymer matrix composites fabricated by in situ shear exfoliation of graphite in polymer solution: processing, rheology, microstructure, and properties. <i>Nanotechnology</i> , 2021 , 32, 175703	3.4	0
4	Dynamic Analysis of Soft Tissue Viscoelasticity Under Ultrasonic Radiation Force Using FEM 2007 , 121		
3	Special Issue on Durability and Damage Tolerance of Heterogeneous Materials and Structures. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2003 , 125, 345-345	1.8	

- 2 Failure prediction of graphite/epoxy laminates with induced intermittent load surge during fatigue. *Acta Materialia*, **2002**, 50, 4813-4821 8.4
- 1 Special Issue on Durability and Damage Tolerance of Heterogeneous Materials. *Journal of Engineering Materials and Technology, Transactions of the ASME*, **1999**, 121, 405-405 1.8