Assimina A Pelegri

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Numerical generation of a random chopped fiber composite RVE and its elastic properties. Composites Science and Technology, 2008, 68, 2792-2798.	7.8	170
2	Analysis of 3D random chopped fiber reinforced composites using FEM and random sequential adsorption. Computational Materials Science, 2008, 43, 450-461.	3.0	113
3	Nanoindentation on soft film/hard substrate and hard film/soft substrate material systems with finite element analysis. Composites Science and Technology, 2008, 68, 147-155.	7.8	83
4	Growth of internal delaminations under cyclic compression in composite plates. Journal of the Mechanics and Physics of Solids, 1995, 43, 847-866.	4.8	50
5	Finite element analysis on nanoindentation with friction contact at the film/substrate interface. Composites Science and Technology, 2007, 67, 1311-1319.	7.8	46
6	Numerical characterization of material elastic properties for random fiber composites. Journal of Mechanics of Materials and Structures, 2008, 3, 1279-1298.	0.6	43
7	Limiting role of crystalline domain orientation on the modulus and strength of aramid fibers. Polymer, 2018, 140, 96-106.	3.8	33
8	Delamination growth during pre- and post-buckling phases of delaminated composite laminates. International Journal of Solids and Structures, 1998, 35, 19-31.	2.7	32
9	Finite Element Modeling of CNS White Matter Kinematics: Use of a 3D RVE to Determine Material Properties. Frontiers in Bioengineering and Biotechnology, 2013, 1, 19.	4.1	32
10	Nanoindentation Measurements on Low-k Porous Silica Thin Films Spin Coated on Silicon Substrates. Journal of Engineering Materials and Technology, Transactions of the ASME, 2003, 125, 361-367.	1.4	25
11	A Transition Model for Finite Element Simulation of Kinematics of Central Nervous System White Matter. IEEE Transactions on Biomedical Engineering, 2011, 58, 3443-3446.	4.2	22
12	A mechanical model to compute elastic modulus of tissues for harmonic motion imaging. Journal of Biomechanics, 2008, 41, 2150-2158.	2.1	20
13	The stability of delamination growth in compressively loaded composite plates. International Journal of Fracture, 1994, 65, 261-276.	2.2	19
14	Mechanical Characterization of Thin Film Materials with Nanoindentation Measurements and FE Analysis. Journal of Composite Materials, 2006, 40, 1393-1407.	2.4	18
15	Optimization of Laminates' Fracture Toughness Using Design of Experiments and Response Surface. Journal of Composite Materials, 2003, 37, 579-596.	2.4	17
16	Characterization of the three-dimensional kinematic behavior of axons in central nervous system white matter. Biomechanics and Modeling in Mechanobiology, 2015, 14, 1303-1315.	2.8	15
17	Molecular Dynamics Study of Cubic Boron Nitride Nanoparticles: Decomposition with Phase Segregation during Melting. ACS Nano, 2016, 10, 10563-10572.	14.6	15
18	Design of composites using a generic unit cell model coupled with a hybrid genetic algorithm. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1433-1443.	7.6	14

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19	Three-Dimensional Numerical Simulation of Random Fiber Composites With High Aspect Ratio and High Volume Fraction. Journal of Engineering Materials and Technology, Transactions of the ASME, 2011, 133, .	1.4	14
20	Multiscale modeling of matrix cracking coupled with interfacial debonding in random glass fiber composites based on volume elements. Journal of Composite Materials, 2013, 47, 3389-3399.	2.4	12
21	Dynamic Simulation of Viscoelastic Soft Tissue in Acoustic Radiation Force Creep Imaging. Journal of Biomechanical Engineering, 2014, 136, 094502.	1.3	12
22	Fiberwalk: a random walk approach to fiber representative volume element creation. Acta Mechanica, 2014, 225, 1301-1312.	2.1	12
23	Approximate Analysis of the Buckling Behavior of Composites with Delamination. Journal of Composite Materials, 2003, 37, 673-685.	2.4	11
24	Progressive Damage Analysis of Random Chopped Fiber Composite Using Finite Elements. Journal of Engineering Materials and Technology, Transactions of the ASME, 2011, 133, .	1.4	11
25	Estimating axonal strain and failure following white matter stretch using contactin-associated protein as a fiduciary marker. Journal of Biomechanics, 2017, 51, 32-41.	2.1	11
26	Multiscale modeling of randomly interwoven fibers for prediction of KM2 Kevlar yarn strength and damage. Acta Mechanica, 2015, 226, 4149-4158.	2.1	10
27	A Bayesian approach for characterization of soft tissue viscoelasticity in acoustic radiation force imaging. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02741.	2.1	10
28	Tunable Electrical Properties of Embossed, Cellulose-Based Paper for Skin-like Sensing. ACS Applied Materials & Interfaces, 2020, 12, 51960-51968.	8.0	10
29	Growth behavior of internal delaminations in composite beam/plates under compression: effect of the end conditions. International Journal of Fracture, 1996, 75, 49-67.	2.2	8
30	Interfacial crack kinking subjected to contact effects. Journal of Mechanics of Materials and Structures, 2008, 3, 591-605.	0.6	8
31	Assessment of the Fracture Behavior of an Asymmetrically Loaded Cantilever Composite Structure. Journal of Engineering Materials and Technology, Transactions of the ASME, 2003, 125, 353-360.	1.4	7
32	Tensile properties of zinc coated aluminium. Surface and Coatings Technology, 1993, 57, 203-206.	4.8	6
33	Determining the Self-Limiting Electrospray Deposition Compositional Limits for Mechanically Tunable Polymer Composites. ACS Applied Polymer Materials, 2022, 4, 3511-3519.	4.4	6
34	Evolution of Interlayer and Intralayer Cracks Under Compressive Fatigue in Composites. Journal of Engineering Materials and Technology, Transactions of the ASME, 1999, 121, 430-435.	1.4	5
35	Influence of matrix plasticity and residual thermal stress on interfacial debonding of a single fiber composite. Journal of Mechanics of Materials and Structures, 2010, 5, 129-142.	0.6	5
36	Graphene-reinforced polymer matrix composites fabricated by in situ shear exfoliation of graphite in polymer solution: processing, rheology, microstructure, and properties. Nanotechnology, 2021, 32, 175703.	2.6	5

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37	Numerical Evaluation of Stiffness and Energy Absorption of a Hybrid Unidirectional/Random Glass Fiber Composite. Journal of Engineering Materials and Technology, Transactions of the ASME, 2011, 133,	1.4	4
38	Tests and analysis on the delamination fatigue growth in glass/epoxy composite plates. , 1996, , .		3
39	Interfacial Debonding of Glass Single Fiber Composites Using the Johnson-Cook Failure Model. , 2013, , .		3
40	A Hierarchical Model for Kevlar Fiber Failure. , 2013, , .		3
41	Modelling of global boundary effects on harmonic motion imaging of soft tissues. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 1021-1031.	1.6	3
42	Analytical model of nonlinear twist dependency for Kevlar yarn based on local filament strain. Acta Mechanica, 2017, 228, 561-574.	2.1	3
43	Experimental Investigation of Transverse Mechanical Properties of High-Performance Kevlar KM2 Single Fiber. , 2017, , .		3
44	Sensitivity analysis of effective transverse shear viscoelastic and diffusional properties of myelinated white matter. Physics in Medicine and Biology, 2021, 66, 035027.	3.0	3
45	Dynamic simulation of viscoelastic soft tissues in harmonic motion imaging application. Journal of Biomechanics, 2008, 41, 3031-3037.	2.1	2
46	On the transverse indentation moduli of high-performance KM2 single fibers using a curved area function. Acta Mechanica, 2020, 231, 2113-2124.	2.1	2
47	On the Transversely Isotropic, Hyperelastic Response of Central Nervous System White Matter Using a Hybrid Approach. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2021, 4, .	0.5	2
48	Nanoindentation of freestanding single Kevlar® fibers with an adjusted indentation area function. Journal of Materials Research and Technology, 2022, 19, 1472-1483.	5.8	2
49	On the Energy Release Rate of Fatigued Composites Subjected to Compressive Overloads. Journal of Engineering Materials and Technology, Transactions of the ASME, 2000, 122, 443-449.	1.4	1
50	Mapping of Regional Cancerous Tissue Mechanical Property Changes Using Harmonic Motion Imaging. , 2007, , .		1
51	Finite element dynamic analysis of soft tissues using state-space model. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 197-209.	1.6	1
52	Simulation of the Mechanical Behavior of White Matter Using a Micromechanics Finite Element Method. Materials Research Society Symposia Proceedings, 2011, 1301, 87.	0.1	1
53	Pseudo 3D RVE Based Finite Element Simulation on White Matter. , 2012, , .		1
54	Modeling Dynamic Responses of Viscoelastic Heterogeneous Soft Tissues to Step Acoustic Radiation Force. , 2013, , .		1

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55	Brain White Matter Model of Orthotropic Viscoelastic Properties in Frequency Domain. , 2019, , .		1
56	Serration effects on interfacial cracks. Journal of Mechanics of Materials and Structures, 2007, 2, 1773-1785.	0.6	1
57	Emulating the Interfacial Kinematics of CNS White Matter With Finite Element Techniques. , 2011, , .		1
58	Special Issue on Durability and Damage Tolerance of Heterogeneous Materials. Journal of Engineering Materials and Technology, Transactions of the ASME, 1999, 121, 405-405.	1.4	0
59	Failure prediction of graphite/epoxy laminates with induced intermittent load surge during fatigue. Acta Materialia, 2002, 50, 4813-4821.	7.9	0
60	Special Issue on Durability and Damage Tolerance of Heterogeneous Materials and Structures. Journal of Engineering Materials and Technology, Transactions of the ASME, 2003, 125, 345-345.	1.4	0
61	Dynamic Analysis of Soft Tissue Viscoelasticity Under Ultrasonic Radiation Force Using FEM. , 2007, , 121.		0
62	Interfacial Debonding and Stress Field Analysis on a Single Fiber Composite Using FEM. , 2008, , .		0
63	Dynamic Analysis of Soft Tissues With Hard Inclusions. , 2008, , .		0
64	Finite Element Analysis on the Random Chopped Fiber Composites. , 2009, , .		0
65	Response of Random Chopped Fiber Reinforced Composite to Uniaxial Tensile Load. , 2009, , .		0
66	Numerical Test Method for Random Chopped Fiber Composites. , 2010, , .		0
67	Recent Advances on Composites and Heterogeneous Materials. Journal of Engineering Materials and Technology, Transactions of the ASME, 2011, 133, .	1.4	Ο
68	Strain Rate Effect on the Stiffness of Random Fiber Composites due to Matrix Cracking and Interfacial Debonding. , 2012, , .		0
69	Contrast-Transfer Efficiency of Localized Harmonic Motion Imaging for Viscoelastic Soft Tissues: A Simulation Study. , 2012, , .		Ο
70	On Interfacial Fracture Toughness Measurements of a Single Glass Fiber. , 2012, , .		0
71	A Micromechanical Model for Shear-Induced Platelet Damage in Capillaries Within Gray Matter. , 2013, ,		0
72	Computational-Experimental Investigation of Progressive Damage Using Johnson-Cook and Cohesive Zone Models in Fiberglass Composites. , 2017, , .		0

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73	A Computer Experiment Based Model for a Spirally-Wounded Lithium-Ion Cell. , 2017, , .		Ο
74	Integrated System for Soft Tissue Dynamic Simulation. , 2010, , .		0
75	Investigation of Cyclic and Frequency Nanoindentation Effects in Polydimethylsiloxane. , 2019, , .		Ο