

Xiongqi Peng

List of Publications by Year in descending order

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62
papers

1,352
citations

394421

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all docs

62
docs citations

62
times ranked

841
citing authors

#	ARTICLE	IF	CITATIONS
1	A dual homogenization and finite element approach for material characterization of textile composites. <i>Composites Part B: Engineering</i> , 2002, 33, 45-56.	12.0	141
2	A non-orthogonal constitutive model for characterizing woven composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2003, 34, 183-193.	7.6	138
3	A simple anisotropic hyperelastic constitutive model for textile fabrics with application to forming simulation. <i>Composites Part B: Engineering</i> , 2013, 52, 275-281.	12.0	121
4	Textile composite double dome stamping simulation using a non-orthogonal constitutive model. <i>Composites Science and Technology</i> , 2011, 71, 1075-1081.	7.8	65
5	An anisotropic hyperelastic constitutive model for thermoplastic woven composite prepregs. <i>Composites Science and Technology</i> , 2016, 128, 17-24.	7.8	64
6	Validation of a non-orthogonal constitutive model for woven composite fabrics via hemispherical stamping simulation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 400-407.	7.6	58
7	Mechanical modeling of incompressible particle-reinforced neo-Hookean composites based on numerical homogenization. <i>Mechanics of Materials</i> , 2014, 70, 1-17.	3.2	54
8	Large deformation response of a hyperelastic fibre reinforced composite: Theoretical model and numerical validation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 1842-1851.	7.6	50
9	An approach in modeling the temperature effect in thermo-stamping of woven composites. <i>Composite Structures</i> , 2003, 61, 413-420.	5.8	47
10	On constitutive modelling of porous neo-Hookean composites. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 2338-2357.	4.8	47
11	An analytical model on through-thickness stresses and warpage of composite laminates due to tool-part interaction. <i>Composites Part B: Engineering</i> , 2016, 91, 408-413.	12.0	43
12	An anisotropic hyperelastic constitutive model with shear interaction for cord-rubber composites. <i>Composites Science and Technology</i> , 2013, 78, 69-74.	7.8	32
13	A 3D finite strain viscoelastic constitutive model for thermally induced shape memory polymers based on energy decomposition. <i>International Journal of Plasticity</i> , 2018, 110, 166-182.	8.8	31
14	An anisotropic visco-hyperelastic model for thermally-actuated shape memory polymer-based woven fabric-reinforced composites. <i>International Journal of Plasticity</i> , 2020, 129, 102697.	8.8	28
15	Draping of plain woven carbon fabrics over a double-curvature mold. <i>Composites Science and Technology</i> , 2014, 92, 64-69.	7.8	27
16	Fibre-matrix interaction in the human annulus fibrosus. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 5, 193-205.	3.1	22
17	Forming of thermoplastic plain woven carbon composites. <i>Journal of Thermoplastic Composite Materials</i> , 2015, 28, 730-742.	4.2	21
18	A lamination model for forming simulation of woven fabric reinforced thermoplastic prepregs. <i>Composite Structures</i> , 2018, 196, 89-95.	5.8	21

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19	Influence of tensionâ€‘shear coupling on draping of plain weave fabrics. <i>Journal of Materials Science</i> , 2019, 54, 6310-6322.	3.7	21
20	A comprehensive review of characterization and simulation methods for thermo-stamping of 2D woven fabric reinforced thermoplastics. <i>Composites Part B: Engineering</i> , 2020, 203, 108462.	12.0	20
21	A CNC grinding method and envelope residual model for face gear. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 79, 1689-1698.	3.0	19
22	Synergy effects of multi-walled carbon nanotube and graphene nanoplate filled epoxy adhesive on the shear properties of unidirectional composite bonded joints. <i>Polymer Testing</i> , 2020, 82, 106299.	4.8	18
23	Refinement of a 3D finite strain viscoelastic constitutive model for thermally induced shape memory polymers. <i>Polymer Testing</i> , 2021, 96, 107139.	4.8	18
24	Statistical modelling of tensile properties of natural fiber yarns considering probability distributions of fiber crimping and effective yarn elastic modulus. <i>Composites Science and Technology</i> , 2022, 218, 109142.	7.8	17
25	Characterization of inter-ply slipping behaviors in hot diaphragm preforming: Experiments and modelling. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 121, 28-35.	7.6	15
26	A Hyperelastic Constitutive Model for Chain-Structured Particle Reinforced Neo-Hookean Composites. <i>Materials and Design</i> , 2016, 95, 580-590.	7.0	13
27	An Anisotropic Hyperelastic Constitutive Model with Tensionâ€‘Shear Coupling for Woven Composite Reinforcements. <i>International Journal of Applied Mechanics</i> , 2017, 09, 1750083.	2.2	13
28	An anisotropic hyperelastic constitutive model for plain weave fabric considering biaxial tension coupling. <i>Textile Research Journal</i> , 2019, 89, 434-444.	2.2	13
29	Study on Macroscopic and Microscopic Mechanical Behavior of Magnetorheological Elastomers by Representative Volume Element Approach. <i>Advances in Condensed Matter Physics</i> , 2014, 2014, 1-8.	1.1	12
30	A Visco-Hyperelastic Constitutive Model for Human Spine Ligaments. <i>Cell Biochemistry and Biophysics</i> , 2015, 71, 1147-1156.	1.8	12
31	Comparison of Material Models for Spring Back Prediction in an Automotive Panel Using Finite Element Method. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 2990-2996.	2.5	10
32	Experimental investigation on fabrication and thermal-stamping of woven jute/poly(lactic acid) biocomposites. <i>Journal of Composite Materials</i> , 2019, 53, 851-861.	2.4	10
33	Thermal-Assisted Single Point Incremental Forming of Jute Fabric Reinforced Poly(lactic acid) Biocomposites. <i>Fibers and Polymers</i> , 2020, 21, 2373-2379.	2.1	10
34	Development and verification of a finite element model for double diaphragm preforming of unidirectional carbon fiber prepreg. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 135, 105924.	7.6	10
35	A hybrid lamination model for simulation of woven fabric reinforced thermoplastic composites solid-state thermo-stamping. <i>Materials and Design</i> , 2021, 200, 109419.	7.0	10
36	Enhancing mode I fracture toughness of adhesively bonded unidirectional composite joints using surfactant-stabilized multi-walled carbon nanotube and graphene nanoplate. <i>Polymer Testing</i> , 2021, 96, 107110.	4.8	9

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37	A temperature-dependent 3D anisotropic visco-hyperelastic constitutive model for jute woven fabric reinforced poly (butylene succinate) biocomposite in thermoforming. <i>Composites Part B: Engineering</i> , 2021, 208, 108584.	12.0	8
38	Shear stiffness of neo-Hookean materials with spherical voids. <i>Composite Structures</i> , 2016, 150, 21-27.	5.8	7
39	A 3D finite strain viscoelastic model with uncoupled structural and stress relaxations for shape memory polymers. <i>Polymer Testing</i> , 2021, 103, 107373.	4.8	7
40	Investigation on V-Bending and Springback of Laminated Steel Sheets. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015, 137, .	2.2	6
41	Effect of sacral slope on the biomechanical behavior of the low lumbar spine. <i>Experimental and Therapeutic Medicine</i> , 2017, 13, 2203-2210.	1.8	6
42	Development of a Carbon Fiber Reinforced Composite Chassis Longitudinal Arm. <i>Science of Advanced Materials</i> , 2016, 8, 2133-2141.	0.7	6
43	A new method for polygon effect analysis of saw chain. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 2705-2710.	1.5	5
44	Biomechanical analysis of C4-C6 spine segment considering anisotropy of annulus fibrosus. <i>Biomedizinische Technik</i> , 2013, 58, 343-51.	0.8	5
45	A Numerical Simulation Method for the One-Step Compression-Stamping Process of Continuous Fiber Reinforced Thermoplastic Composites. <i>Polymers</i> , 2021, 13, 3237.	4.5	5
46	Experimental and numerical analysis on mode II fracture toughness of CFRP adhesive joints using a nonlinear cohesive/friction coupled model. <i>International Journal of Adhesion and Adhesives</i> , 2022, 114, 103100.	2.9	5
47	A Visco-Hyperelastic Constitutive Model for Multilayer Polymer Membranes and its Application in Packaging Air Cushion. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1650062.	2.2	4
48	Crashworthiness of Thermoplastic Woven Glass Fabric Reinforced Composite Tubes Manufactured by Pultrusion. <i>Fibers and Polymers</i> , 2020, 21, 416-427.	2.1	4
49	Anisotropic Hyperelastic Constitutive Model for Woven Composite Fabrics under Large Deformation. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2012, 48, 45.	0.5	4
50	Modelling energy dissipation and hysteresis of woven fabrics with large deformation under single loading-unloading cycle. <i>Composite Structures</i> , 2022, 279, 114781.	5.8	4
51	A Phenomenological Thermal-Mechanical Viscoelastic Constitutive Modeling for Polypropylene Wood Composites. <i>Advances in Materials Science and Engineering</i> , 2012, 2012, 1-7.	1.8	3
52	Biomechanical analysis of lumbar interbody fusion with an anisotropic hyperelastic model for annulus fibrosis. <i>Archive of Applied Mechanics</i> , 2013, 83, 579-590.	2.2	3
53	Testing, characterizing, and forming of glass twill fabric/polypropylene prepregs. <i>Journal of Composite Materials</i> , 2019, 53, 3939-3950.	2.4	3
54	An anisotropic constitutive model with biaxial-tension coupling for woven composite reinforcements. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2

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55	FINITE ELEMENT CONTACT ANALYSIS OF A HUMAN SAGITTAL KNEE JOINT. Journal of Mechanics in Medicine and Biology, 2010, 10, 225-236.	0.7	1
56	NUMERICAL VALIDATION OF A FIBER-REINFORCED HYPERELASTIC CONSTITUTIVE MODEL FOR HUMAN INTERVERTEBRAL DISC ANNULUS FIBROSUS. Journal of Mechanics in Medicine and Biology, 2011, 11, 163-176.	0.7	1
57	Long-term hemodynamic effects of artery banding on patient-specific pulmonary flow. , 2014, , .		1
58	Optimization design of bonnet inner based on pedestrian head protection and stiffness requirements. International Journal of Computational Materials Science and Engineering, 2017, 06, 1750005.	0.7	1
59	A lamination model for shape memory polymer/woven fabric composites. International Journal of Computational Materials Science and Engineering, 2019, 08, 1950004.	0.7	1
60	Numerical Simulation of Textile Composite Stamping On Double Dome. , 2011, , .		0
61	Development and application of hyperelastic model for diaphragm considering the influence of temperature. International Journal of Computational Materials Science and Engineering, 2019, 08, 1950010.	0.7	0
62	A new method of grafting multi-walled carbon nanotubes on carbon fibers for improving the mechanical and thermal properties of woven fabric composites. Journal of Composite Materials, 2021, 55, 2559-2575.	2.4	0