

Yingjie Xu

List of Publications by Year in descending order

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papers

899
citations

394421

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37
all docs

37
docs citations

37
times ranked

744
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the design of laminated composite structures: constant and variable stiffness design and topology optimization. <i>Advanced Composites and Hybrid Materials</i> , 2018, 1, 460-477.	21.1	108
2	Finite element simulation of PMMA aircraft windshield against bird strike by using a rate and temperature dependent nonlinear viscoelastic constitutive model. <i>Composite Structures</i> , 2014, 108, 21-30.	5.8	62
3	Optimization of injection molding process parameters to improve the mechanical performance of polymer product against impact. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 76, 2199-2208.	3.0	62
4	Topology optimization of thermoelastic structures: mean compliance minimization or elastic strain energy minimization. <i>Structural and Multidisciplinary Optimization</i> , 2014, 49, 417-429.	3.5	60
5	An integrated micromechanical model and BP neural network for predicting elastic modulus of 3-D multi-phase and multi-layer braided composite. <i>Composite Structures</i> , 2015, 122, 308-315.	5.8	51
6	Hierarchically modeling the elastic properties of 2D needled carbon/carbon composites. <i>Composite Structures</i> , 2015, 133, 148-156.	5.8	46
7	A multi-layer integrated thermal protection system with C/SiC composite and Ti alloy lattice sandwich. <i>Composite Structures</i> , 2019, 230, 111507.	5.8	46
8	A 3D finite-strain-based constitutive model for shape memory alloys accounting for thermomechanical coupling and martensite reorientation. <i>Smart Materials and Structures</i> , 2017, 26, 065006.	3.5	44
9	Thermal conductivities of plain woven C/SiC composite: Micromechanical model considering PyC interphase thermal conductance and manufacture-induced voids. <i>Composite Structures</i> , 2018, 193, 212-223.	5.8	41
10	Numerical modeling of oxidized C/SiC microcomposite in air oxidizing environments below 800 Å°C: Microstructure and mechanical behavior. <i>Journal of the European Ceramic Society</i> , 2015, 35, 3401-3409.	5.7	37
11	A damage-based elastic-viscoplastic constitutive model for amorphous glassy polycarbonate polymers. <i>Materials and Design</i> , 2016, 97, 519-531.	7.0	33
12	Minimizing thermal residual stresses in C/SiC functionally graded material coating of C/C composites by using particle swarm optimization algorithm. <i>Computational Materials Science</i> , 2012, 61, 99-105.	3.0	30
13	Stress analysis of multi-phase and multi-layer plain weave composite structure using global/local approach. <i>Composite Structures</i> , 2010, 92, 1143-1154.	5.8	27
14	Thermal and strain rate sensitive compressive behavior of polycarbonate polymer - experimental and constitutive analysis. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	26
15	Microscale viscoplastic analysis of unidirectional CFRP composites under the influence of curing process. <i>Composite Structures</i> , 2021, 266, 113786.	5.8	26
16	Study of thermal buckling behavior of plain woven C/SiC composite plate using digital image correlation technique and finite element simulation. <i>Thin-Walled Structures</i> , 2018, 131, 385-392.	5.3	24
17	Two-scale micromechanical modeling of the time dependent relaxation modulus of plain weave polymer matrix composites. <i>Composite Structures</i> , 2015, 123, 35-44.	5.8	21
18	Multiconfiguration Shape Optimization of Internal Cooling Systems of a Turbine Guide Vane Based on Thermomechanical and Conjugate Heat Transfer Analysis. <i>Journal of Heat Transfer</i> , 2015, 137, .	2.1	21

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19	Predicting the low-velocity impact behavior of polycarbonate: Influence of thermal history during injection molding. <i>International Journal of Impact Engineering</i> , 2015, 86, 265-273.	5.0	21
20	Experimentation and Modeling of the Tension Behavior of Polycarbonate at High Strain Rates. <i>Polymers</i> , 2016, 8, 63.	4.5	19
21	Minimizing thermal residual stresses in ceramic matrix composites by using Iterative MapReduce guided particle swarm optimization algorithm. <i>Composite Structures</i> , 2013, 99, 388-396.	5.8	14
22	A coupled micro-meso-scale study on the damage mechanism of 2D SiC/SiC ceramic matrix composites. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 2083-2095.	2.6	13
23	Finite element simulation of thermomechanical training on functional stability of shape memory alloy wave spring actuator. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 1239-1251.	2.5	10
24	Multiscale model of micro curing residual stress evolution in carbon fiber-reinforced thermoset polymer composites. <i>Frontiers of Mechanical Engineering</i> , 2020, 15, 475-483.	4.3	10
25	A finite-strain thermomechanical model for severe superplastic deformation of Ti-6Al-4V at elevated temperature. <i>Journal of Alloys and Compounds</i> , 2019, 787, 1336-1344.	5.5	8
26	Experimental study on the low-velocity impact and post-impact flexural properties of curved CFRP laminates reinforced by pre-hole Z-pinning (PHZ) technique. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 3479-3490.	2.6	8
27	Processing-Induced Inhomogeneity of Yield Stress in Polycarbonate Product and Its Influence on the Impact Behavior. <i>Polymers</i> , 2016, 8, 72.	4.5	7
28	Finite element modeling of the damping capacity and vibration behavior of cellular shape memory alloy. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 2142-2155.	2.6	7
29	Optimizing Thermal-Elastic Properties of C/C-SiC Composites Using a Hybrid Approach and PSO Algorithm. <i>Materials</i> , 2016, 9, 222.	2.9	4
30	A 3D thermomechanical constitutive model for polycarbonate and its application in ballistic simulation. <i>Polymer Engineering and Science</i> , 2018, 58, 2237-2248.	3.1	4
31	Thermomechanical Modeling of Amorphous Glassy Polymer Undergoing Large Viscoplastic Deformation: 3-Points Bending and Gas-Blow Forming. <i>Polymers</i> , 2019, 11, 654.	4.5	3
32	Modeling the perforation failure of honeycomb sandwich structures through numerical homogenization. , 2013, , .		2
33	Experimental Studies of Mechanical Properties of Polycarbonate. , 2019, , 1-28.		2
34	A research methodology for crashworthiness evaluation of aero-structures under impact loading. , 2017, , .		0
35	Constitutive Models of Polycarbonate. , 2019, , 29-77.		0