

Bao-Zhong Sun

List of Publications by Year in descending order

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197
papers

6,492
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76196

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docs citations

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times ranked

4342
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#	ARTICLE	IF	CITATIONS
1	A Highly Stretchable and Washable All-Yarn-Based Self-Charging Knitting Power Textile Composed of Fiber Triboelectric Nanogenerators and Supercapacitors. <i>ACS Nano</i> , 2017, 11, 9490-9499.	7.3	419
2	A Stretchable Yarn Embedded Triboelectric Nanogenerator as Electronic Skin for Biomechanical Energy Harvesting and Multifunctional Pressure Sensing. <i>Advanced Materials</i> , 2018, 30, e1804944.	11.1	396
3	3D Orthogonal Woven Triboelectric Nanogenerator for Effective Biomechanical Energy Harvesting and as Self-Powered Active Motion Sensors. <i>Advanced Materials</i> , 2017, 29, 1702648.	11.1	321
4	Shape adaptable and highly resilient 3D braided triboelectric nanogenerators as e-textiles for power and sensing. <i>Nature Communications</i> , 2020, 11, 2868.	5.8	285
5	Versatile Core-Sheath Yarn for Sustainable Biomechanical Energy Harvesting and Real-Time Human-Interactive Sensing. <i>Advanced Energy Materials</i> , 2018, 8, 1801114.	10.2	212
6	Interfacial bonding strength of short carbon fiber/acrylonitrile-butadiene-styrene composites fabricated by fused deposition modeling. <i>Composites Part B: Engineering</i> , 2018, 137, 51-59.	5.9	145
7	Shape memory behavior and recovery force of 4D printed textile functional composites. <i>Composites Science and Technology</i> , 2018, 160, 224-230.	3.8	115
8	Characterization of residual stress and deformation in additively manufactured ABS polymer and composite specimens. <i>Composites Science and Technology</i> , 2017, 150, 102-110.	3.8	94
9	Shape memory behavior and recovery force of 4D printed laminated Miura-origami structures subjected to compressive loading. <i>Composites Part B: Engineering</i> , 2018, 153, 233-242.	5.9	86
10	Transverse impact behavior and energy absorption of three-dimensional orthogonal hybrid woven composites. <i>Composite Structures</i> , 2007, 81, 202-209.	3.1	79
11	Microstructural design for enhanced shape memory behavior of 4D printed composites based on carbon nanotube/poly(lactic acid) filament. <i>Composites Science and Technology</i> , 2019, 181, 107692.	3.8	69
12	Influence of the strain rate on the uniaxial tensile behavior of 4-step 3D braided composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 1477-1485.	3.8	66
13	Experimental and numerical analyses on the thermal conductive behaviors of carbon fiber/epoxy plain woven composites. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 501-517.	2.5	65
14	A unit cell approach of finite element calculation of ballistic impact damage of 3-D orthogonal woven composite. <i>Composites Part B: Engineering</i> , 2009, 40, 552-560.	5.9	64
15	Strong graphene-interlayered carbon nanotube films with high thermal conductivity. <i>Carbon</i> , 2017, 118, 659-665.	5.4	62
16	FEM simulation of 3D angle-interlock woven composite under ballistic impact from unit cell approach. <i>Computational Materials Science</i> , 2010, 49, 171-183.	1.4	60
17	Compressive behavior of 3-D angle-interlock woven fabric composites at various strain rates. <i>Polymer Testing</i> , 2005, 24, 447-454.	2.3	59
18	Compressive behaviors of warp-knitted spacer fabrics impregnated with shear thickening fluid. <i>Composites Science and Technology</i> , 2013, 88, 184-189.	3.8	55

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19	Numerical simulation of the impact behaviors of shear thickening fluid impregnated warp-knitted spacer fabric. <i>Composites Part B: Engineering</i> , 2015, 69, 191-200.	5.9	55
20	Accelerated thermal ageing of epoxy resin and 3-D carbon fiber/epoxy braided composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 85, 163-171.	3.8	55
21	Experimental and numerical investigation of the transverse impact damage and deformation of 3-D circular braided composite tubes from meso-structure approach. <i>Composites Part B: Engineering</i> , 2016, 86, 243-253.	5.9	55
22	Impact shear damage characterizations of 3D braided composite with X-ray micro-computed tomography and numerical methodologies. <i>Composite Structures</i> , 2017, 176, 43-54.	3.1	53
23	Structural modeling and mechanical characterizing of three-dimensional four-step braided composites: A review. <i>Composite Structures</i> , 2019, 207, 119-128.	3.1	51
24	Finite element analyses on transverse impact behaviors of 3-D circular braided composite tubes with different braiding angles. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 79, 52-62.	3.8	50
25	Multi-scale finite element analyses on the thermal conductive behaviors of 3D braided composites. <i>Composite Structures</i> , 2016, 143, 9-22.	3.1	50
26	Multi-scale structure modeling of damage behaviors of 3D orthogonal woven composite materials subject to quasi-static and high strain rate compressions. <i>Mechanics of Materials</i> , 2016, 94, 1-25.	1.7	50
27	Remotely and Sequentially Controlled Actuation of Electroactivated Carbon Nanotube/Shape Memory Polymer Composites. <i>Advanced Materials Technologies</i> , 2019, 4, 1900600.	3.0	50
28	Constitutive equations of basalt filament tows under quasi-static and high strain rate tension. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 3245-3252.	2.6	49
29	Thermal ageing degradation mechanisms on compressive behavior of 3-D braided composites in experimental and numerical study. <i>Composite Structures</i> , 2016, 140, 180-191.	3.1	49
30	Compressive behavior of multi-axial multi-layer warp knitted (MMWK) fabric composite at various strain rates. <i>Composite Structures</i> , 2007, 78, 84-90.	3.1	48
31	A mesoscale study of thermal expansion behaviors of epoxy resin and carbon fiber/epoxy unidirectional composites based on periodic temperature and displacement boundary conditions. <i>Polymer Testing</i> , 2016, 55, 44-60.	2.3	47
32	Dynamic properties of 3-D orthogonal woven composite T-beam under transverse impact. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008, 39, 1073-1082.	3.8	46
33	Comparisons of static bending and fatigue damage between 3D angle-interlock and 3D orthogonal woven composites. <i>Journal of Reinforced Plastics and Composites</i> , 2012, 31, 935-945.	1.6	46
34	A Numerical Simulation on Ballistic Penetration Damage of 3D Orthogonal Woven Fabric at Microstructure Level. <i>International Journal of Damage Mechanics</i> , 2012, 21, 237-266.	2.4	46
35	Multi-scale ageing mechanisms of 3D four directional and five directional braided composites' impact fracture behaviors under thermo-oxidative environment. <i>International Journal of Mechanical Sciences</i> , 2019, 155, 50-65.	3.6	46
36	Temperature-dependent thermal expansion behaviors of carbon fiber/epoxy plain woven composites: Experimental and numerical studies. <i>Composite Structures</i> , 2017, 176, 329-341.	3.1	45

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37	Finite element analyses on three-point low-cyclic bending fatigue of 3-D braided composite materials at microstructure level. <i>International Journal of Mechanical Sciences</i> , 2014, 84, 41-53.	3.6	43
38	Oxygen vacancy BiO ₂ -x/Bi ₂ WO ₆ synchronous coupling with Bi metal for phenol removal via visible and near-infrared light irradiation. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 342-353.	5.0	43
39	Experimental investigation of high-strain rate properties of 3-D braided composite material in cryogenic field. <i>Composites Part B: Engineering</i> , 2015, 77, 379-390.	5.9	42
40	Meso-structure ageing mechanism of 3-D braided composite's compressive behaviors under accelerated thermo-oxidative ageing environment. <i>Mechanics of Materials</i> , 2017, 115, 47-63.	1.7	42
41	Wet-spinning assembly and in situ electrodeposition of carbon nanotube-based composite fibers for high energy density wire-shaped asymmetric supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2020, 569, 298-306.	5.0	42
42	Thermal-mechanical coupling modeling of 3D braided composite under impact compression loading and high temperature field. <i>Composites Science and Technology</i> , 2017, 140, 73-88.	3.8	41
43	Impact Damage of 3D Orthogonal Woven Composite Circular Plates. <i>Applied Composite Materials</i> , 2007, 14, 343-362.	1.3	38
44	Development of near infrared reflectance spectroscopy to predict chemical composition with a wide range of variability in beef. <i>Meat Science</i> , 2014, 98, 110-114.	2.7	38
45	Transient heat generation and thermo-mechanical response of epoxy resin under adiabatic impact compressions. <i>International Journal of Heat and Mass Transfer</i> , 2016, 95, 874-889.	2.5	37
46	High-speed visualizing and mesoscale modeling for deformation and damage of 3D angle-interlock woven composites subjected to transverse impacts. <i>International Journal of Mechanical Sciences</i> , 2018, 140, 119-132.	3.6	37
47	A simplified microstructure model of bi-axial warp-knitted composite for ballistic impact simulation. <i>Composites Part B: Engineering</i> , 2010, 41, 337-353.	5.9	36
48	High strain rate compressive behaviors and adiabatic shear band localization of 3-D carbon/epoxy angle-interlock woven composites at different loading directions. <i>Composite Structures</i> , 2019, 211, 502-521.	3.1	36
49	Damage and failure mechanism of 3D carbon fiber/epoxy braided composites after thermo-oxidative ageing under transverse impact compression. <i>Composites Part B: Engineering</i> , 2019, 161, 677-690.	5.9	36
50	Mode I fracture toughness of fiber-reinforced polymer composites: A review. <i>Journal of Industrial Textiles</i> , 2021, 50, 1165-1192.	1.1	36
51	Investigations of defect effect on dynamic compressive failure of 3D circular braided composite tubes with numerical simulation method. <i>Thin-Walled Structures</i> , 2021, 160, 107381.	2.7	36
52	Ballistic impact damages of 3-D angle-interlock woven composites based on high strain rate constitutive equation of fiber tows. <i>International Journal of Impact Engineering</i> , 2013, 57, 145-158.	2.4	35
53	Thermo-mechanical numerical modeling on impact compressive damage of 3-D braided composite materials under room and low temperatures. <i>Aerospace Science and Technology</i> , 2016, 54, 23-40.	2.5	34
54	3D angle-interlock woven structural wearable triboelectric nanogenerator fabricated with silicone rubber coated graphene oxide/cotton composite yarn. <i>Composites Part B: Engineering</i> , 2020, 200, 108244.	5.9	34

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55	Experimental and numerical investigation on the thermal conduction properties of 2.5D angle-interlock woven composites. <i>Composite Structures</i> , 2016, 154, 319-333.	3.1	33
56	High strain rate behavior of 4-step 3D braided composites under compressive failure. <i>Journal of Materials Science</i> , 2007, 42, 2463-2470.	1.7	32
57	Experimental and numerical analyses of the mechanical behaviors of three-dimensional orthogonal woven composites under compressive loadings with different strain rates. <i>International Journal of Damage Mechanics</i> , 2014, 23, 636-660.	2.4	32
58	Impact compressive behavior and failure modes of four-step three-dimensional braided composites-based meso-structure model. <i>International Journal of Damage Mechanics</i> , 2015, 24, 805-827.	2.4	32
59	Ultrastrong and excellent dynamic mechanical properties of carbon nanotube composites. <i>Composites Science and Technology</i> , 2017, 141, 137-144.	3.8	32
60	Transverse impact performance and finite element analysis of three dimensional braided composite tubes with different braiding layers. <i>Composite Structures</i> , 2017, 168, 345-359.	3.1	32
61	Synergistic effect enhanced shape recovery behavior of metal-4D printed shape memory polymer hybrid composites. <i>Composites Part B: Engineering</i> , 2019, 179, 107536.	5.9	31
62	Transverse impact behaviors of four-step 3-D rectangular braided composites from unit-cell approach. <i>Journal of Reinforced Plastics and Composites</i> , 2012, 31, 233-246.	1.6	30
63	X-ray tomography and numerical study on low-velocity impact damages of three-dimensional angle-interlock woven composites. <i>Composite Structures</i> , 2019, 230, 111525.	3.1	30
64	Shear Behavior of 3D Orthogonal Woven Fabric Composites under High Strain Rates. <i>Journal of Reinforced Plastics and Composites</i> , 2006, 25, 1833-1845.	1.6	29
65	Transverse impact damage and energy absorption of 3-D multi-structured knitted composite. <i>Composites Part B: Engineering</i> , 2009, 40, 572-583.	5.9	29
66	Numerical simulation of three-point bending fatigue of four-step 3-D braided rectangular composite under different stress levels from unit-cell approach. <i>Computational Materials Science</i> , 2012, 65, 239-246.	1.4	29
67	Electrothermal shape memory behavior and recovery force of four-dimensional printed continuous carbon fiber/poly(lactic acid) composite. <i>Smart Materials and Structures</i> , 2021, 30, 025040.	1.8	29
68	Drop-weight impact behaviors of 3-D angle interlock woven composites after thermal oxidative aging. <i>Composite Structures</i> , 2017, 166, 239-255.	3.1	28
69	Strain Rate Effect on Four-Step Three-Dimensional Braided Composite Compressive Behavior.. <i>AIAA Journal</i> , 2005, 43, 994-999.	1.5	26
70	Three-point bending fatigue behavior of 3D angle-interlock woven composite. <i>Journal of Composite Materials</i> , 2012, 46, 883-894.	1.2	26
71	Influence of temperature and strain rate on the longitudinal compressive crashworthiness of 3D braided composite tubes and finite element analysis. <i>International Journal of Damage Mechanics</i> , 2017, 26, 1003-1027.	2.4	26
72	The transverse impact responses of 3-D braided composite I-beam. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 94, 158-169.	3.8	26

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73	Numerical modeling on compressive behaviors of 3-D braided composites under high temperatures at microstructure level. <i>Composite Structures</i> , 2017, 160, 925-938.	3.1	26
74	Finite element modeling of multiple transverse impact damage behaviors of 3-D braided composite beams at microstructure level. <i>International Journal of Mechanical Sciences</i> , 2018, 148, 730-744.	3.6	26
75	Damage mechanisms of 3-D rectangular braided composite under multiple impact compressions. <i>Aerospace Science and Technology</i> , 2018, 82-83, 46-60.	2.5	26
76	Energy absorption of 3D orthogonal woven fabric under ballistic penetration of hemispherical-cylindrical projectile. <i>Journal of the Textile Institute</i> , 2011, 102, 875-889.	1.0	25
77	Experimental characterization of transverse impact behaviors of four-step 3-D rectangular braided composites. <i>Journal of Composite Materials</i> , 2012, 46, 3017-3029.	1.2	25
78	Mechanical Behaviors of 2D and 3D Basalt Fiber Woven Composites Under Various Strain Rates. <i>Journal of Composite Materials</i> , 2010, 44, 1779-1795.	1.2	24
79	Frequency features of co-woven-knitted fabric (CWKF) composite under tension at various strain rates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 446-452.	3.8	24
80	Comparison of stab behaviors of uncoated and coated woven fabrics from experimental and finite element analyses. <i>Textile Research Journal</i> , 2012, 82, 1337-1354.	1.1	24
81	Predicting dynamic in-plane compressive properties of multi-axial multi-layer warp-knitted composites with a meso-model. <i>Composites Part B: Engineering</i> , 2015, 77, 278-290.	5.9	24
82	Effects of temperature and strain rate on impact compression behaviors of three-dimensional carbon fiber/epoxy braided composites. <i>Journal of Composite Materials</i> , 2015, 49, 771-782.	1.2	24
83	Numerical analysis of thermal expansion behaviors and interfacial thermal stress of 3D braided composite materials. <i>Computational Materials Science</i> , 2017, 138, 77-91.	1.4	24
84	Experimental and numerical analyses of matrix shrinkage and compressive behavior of 3-D braided composite under thermo-oxidative ageing conditions. <i>Composite Structures</i> , 2018, 204, 320-332.	3.1	24
85	Energy absorptions and failure modes of 3D orthogonal hybrid woven composite struck by flat-ended rod. <i>Polymer Composites</i> , 2006, 27, 410-416.	2.3	23
86	Dynamic Response of 3D Biaxial Spacer Weft-knitted Composite under Transverse Impact. <i>Journal of Reinforced Plastics and Composites</i> , 2006, 25, 1629-1641.	1.6	22
87	Impact Damage of 3D Cellular Woven Composite from Unit-cell Level Analysis. <i>International Journal of Damage Mechanics</i> , 2011, 20, 323-346.	2.4	22
88	Low-Velocity Impact Response and Finite Element Analysis of Four-Step 3-D Braided Composites. <i>Applied Composite Materials</i> , 2013, 20, 397-413.	1.3	22
89	Tension-tension fatigue behavior of layer-to-layer 3-D angle-interlock woven composites. <i>Materials Chemistry and Physics</i> , 2013, 140, 183-190.	2.0	22
90	Frequency Analysis of Stress Waves in Testing 3-D Angle-interlock Woven Composite at High Strain Rates. <i>Journal of Composite Materials</i> , 2007, 41, 2915-2938.	1.2	21

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91	Analytical modeling on mechanical responses and damage morphology of flexible woven composites under trapezoid tearing. <i>Textile Reseach Journal</i> , 2013, 83, 1297-1309.	1.1	21
92	Numerical analyses on thermal stress distribution induced from impact compression in 3D carbon fiber/epoxy braided composite materials. <i>Journal of Thermal Stresses</i> , 2018, 41, 903-919.	1.1	21
93	Modified Biosurfactant Cationic Alkyl Polyglycoside as an Effective Additive for Inhibition of Highly Reactive Shale. <i>Energy & Fuels</i> , 2020, 34, 1680-1687.	2.5	21
94	Numerical analyses of bending fatigue of four-step three-dimensional rectangular-braided composite materials from unit cell approach. <i>Journal of the Textile Institute</i> , 2015, 106, 67-79.	1.0	20
95	Quasi-static compression and compression fatigue characteristics of 3D braided carbon/epoxy tube. <i>Journal of the Textile Institute</i> , 2016, 107, 938-948.	1.0	20
96	Numerical and experimental investigation on 3D angle interlock woven fabric under ballistic impact. <i>Composite Structures</i> , 2021, 266, 113778.	3.1	20
97	Longitudinal compressive behaviour of 3D braided composite under various temperatures and strain rates. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 1315-1337.	1.1	19
98	Finite element analyses of four-step 3D braided composite bending damage using repeating unit cell model. <i>International Journal of Damage Mechanics</i> , 2015, 24, 59-75.	2.4	19
99	Finite element analysis of 3D circular braided composites tube damage based on three unit cell models under axial compression loading. <i>International Journal of Damage Mechanics</i> , 2016, 25, 574-607.	2.4	19
100	Thermo-mechanical behaviors of 3-D braided composite material subject to high strain rate compressions under different temperatures. <i>Mechanics of Advanced Materials and Structures</i> , 2016, 23, 385-401.	1.5	19
101	Progressive failure of 3-D textile composites under impact loadings. <i>Composite Structures</i> , 2017, 168, 710-724.	3.1	19
102	Crack spatial distributions and dynamic thermomechanical properties of 3D braided composites during thermal oxygen ageing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 144, 106355.	3.8	19
103	Microstructure modeling multiple transverse impact damages of 3-D braided composite based on thermo-mechanical coupling approach. <i>Composites Part B: Engineering</i> , 2021, 214, 108741.	5.9	19
104	Impact tensile behavior and frequency response of 3D braided composites. <i>Textile Reseach Journal</i> , 2012, 82, 280-287.	1.1	18
105	Experimental characterizations of bending fatigue of a four-step 3-D braided rectangular composite under different stress levels. <i>Journal of Reinforced Plastics and Composites</i> , 2011, 30, 1571-1582.	1.6	17
106	Comparisons of thermal conductive behaviors of epoxy resin in unidirectional composite materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 775-789.	2.0	17
107	Mechanical behaviors of four-step 1 Å— 1 braided carbon/epoxy three-dimensional composite tubes under axial compression loading. <i>Polymer Composites</i> , 2016, 37, 3210-3218.	2.3	17
108	Compressive behavior of biaxial spacer weft knitted fabric reinforced composite at various strain rates. <i>Polymer Composites</i> , 2007, 28, 224-232.	2.3	16

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109	Tensile behaviors of co-woven-knitted fabric reinforced composites under various strain rates. <i>Journal of Composite Materials</i> , 2011, 45, 2495-2506.	1.2	16
110	Ballistic impact damage of biaxial multilayer knitted composite. <i>Journal of Composite Materials</i> , 2012, 46, 527-547.	1.2	16
111	An Analytical Model for Predicting Stab Resistance of Flexible Woven Composites. <i>Applied Composite Materials</i> , 2013, 20, 569-585.	1.3	16
112	Comparisons of axial compression behaviors between four-directional and five-directional braided composite tubes under high strain rate loading. <i>Journal of Composite Materials</i> , 2016, 50, 3905-3924.	1.2	16
113	Dynamic responses and damage evolutions of four-step three-dimensional braided composites subjected to high strain rate punch shear loading. <i>Journal of Composite Materials</i> , 2016, 50, 1635-1650.	1.2	16
114	Finite element analyses on bending fatigue of three-dimensional five-directional braided composite T-beam with mixed unit-cell model. <i>Journal of Composite Materials</i> , 2018, 52, 1139-1154.	1.2	16
115	Ballistic penetration damages and energy absorptions of stacked cross-plyed composite fabrics and laminated panels. <i>International Journal of Damage Mechanics</i> , 2020, 29, 1465-1484.	2.4	16
116	In-plane Compressive Behaviors of 3-D Textile Composites at Various Strain Rates. <i>Applied Composite Materials</i> , 2007, 14, 193-207.	1.3	15
117	Damage Behaviors of Foam Sandwiched Composite Materials Under Quasi-Static Three-point Bending. <i>Applied Composite Materials</i> , 2013, 20, 1231-1246.	1.3	15
118	Strain rate effects on tensile failure of 3-D angle-interlock woven carbon fabric. <i>Materials & Design</i> , 2013, 46, 857-866.	5.1	15
119	Structural influences of two-dimensional and three-dimensional carbon/epoxy composites on mode I fracture toughness behaviors with rate effects on damage evolution. <i>Journal of Industrial Textiles</i> , 2020, 50, 23-45.	1.1	15
120	Shear Behavior of 3-D Biaxial Spacer Weft Knitted Composite under High Strain Rates. <i>Journal of Composite Materials</i> , 2008, 42, 1747-1762.	1.2	14
121	Dynamic Behavior of 3D Biaxial Spacer Weft-Knitted Composite T-Beam Under Transverse Impact. <i>Mechanics of Advanced Materials and Structures</i> , 2009, 16, 356-370.	1.5	14
122	Finite element simulation of three-dimensional angle-interlock woven fabric undergoing ballistic impact. <i>Journal of the Textile Institute</i> , 2011, 102, 982-993.	1.0	14
123	Strain rate effects of tensile behaviors of 3-D orthogonal woven fabric: Experimental and finite element analyses. <i>Textile Research Journal</i> , 2013, 83, 337-354.	1.1	14
124	Low-velocity impact and residual flexural behaviors of 2.5-D woven composite under accelerated thermal ageing: Experiment and numerical modelling. <i>International Journal of Damage Mechanics</i> , 2020, 29, 413-434.	2.4	14
125	Tensile Impact Behavior of Multiaxial Multilayer Warp Knitted (MMWK) Fabric Reinforced Composites. <i>Journal of Reinforced Plastics and Composites</i> , 2006, 25, 1305-1315.	1.6	13
126	Frequency features of basalt filament tows under quasi-static and high strain rate tension. <i>Journal of Composite Materials</i> , 2012, 46, 1285-1293.	1.2	13

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127	Numerical analyses of thermo-mechanical behaviors of 3-D rectangular braided composite under different temperatures. <i>Journal of the Textile Institute</i> , 2015, 106, 173-186.	1.0	13
128	Responses of 3D four-directional and five-directional circular braided composite tubes under transverse impact. <i>International Journal of Crashworthiness</i> , 2016, 21, 353-366.	1.1	13
129	Axial compressive deformation and damage of four-step 3-D circular braided composite tubes under various strain rates. <i>Journal of the Textile Institute</i> , 2016, 107, 1584-1600.	1.0	13
130	Modeling the coupling effects of braiding structure and thermo-oxidative aging on the high-speed impact responses of 3D braided composites. <i>Thin-Walled Structures</i> , 2020, 150, 106705.	2.7	13
131	Impact Tension Damage Mechanism Analyses of Co-Woven-Knitted Composite from Hilbert's Huang Transform. <i>International Journal of Damage Mechanics</i> , 2012, 21, 493-523.	2.4	12
132	Numerical modeling of the mechanical response of basalt plain woven composites under high strain rate compression. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 1087-1104.	1.6	12
133	Computational schemes on the bending fatigue deformation and damage of three-dimensional orthogonal woven composite materials. <i>Computational Materials Science</i> , 2014, 91, 91-101.	1.4	12
134	Coupling effect of temperature and braided angle on compressive behaviors of 3D braided carbon/epoxy composite at low temperature. <i>Journal of Composite Materials</i> , 2017, 51, 2531-2547.	1.2	12
135	High strain rate compressive response of the Cf/SiC composite. <i>Ceramics International</i> , 2019, 45, 6812-6818.	2.3	12
136	Comparisons on impact fracture behavior between three-dimensional four directional and five directional braided composite materials. <i>International Journal of Damage Mechanics</i> , 2019, 28, 990-1020.	2.4	12
137	Near-fiber nanomechanical mapping and impact failure mechanism of 3D braided composites subjected to thermo-oxidative environment. <i>Composites Science and Technology</i> , 2021, 216, 109052.	3.8	12
138	Effects of thermo-oxidative aging on 3-D deformation field and mechanical behaviors of 3-D angle-interlock woven composites. <i>Composite Structures</i> , 2022, 281, 115116.	3.1	12
139	Experimental investigation and numerical simulation of three-point bending fatigue of 3D orthogonal woven composite. <i>Journal of the Textile Institute</i> , 2012, 103, 1312-1327.	1.0	11
140	The bending fatigue comparison between 3D braided rectangular composites and T-beam composites. <i>Fibers and Polymers</i> , 2015, 16, 634-639.	1.1	11
141	Experimental study on the bending fatigue behaviors of 3D five directional braided T-shaped composites. <i>Journal of the Textile Institute</i> , 2018, 109, 603-613.	1.0	11
142	Impact fracture behaviors of three-dimensional braided composite U-notch beam subjected to three-point bending. <i>International Journal of Damage Mechanics</i> , 2019, 28, 404-426.	2.4	11
143	Structural effects of three-dimensional angle-interlock woven composite undergoing bending cyclic loading. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 501-511.	2.0	10
144	Transverse impact behaviors of 3D braided composites T-beam at elevated temperatures. <i>Journal of Composite Materials</i> , 2016, 50, 3961-3971.	1.2	10

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145	Size effects on compressive behaviors of three-dimensional braided composites under high strain rates. <i>Journal of Composite Materials</i> , 2018, 52, 3895-3908.	1.2	10
146	Effects of yarn defects and specimen size on impact compressive damages of 3-D angle interlock woven composites. <i>International Journal of Damage Mechanics</i> , 2018, 27, 1380-1396.	2.4	10
147	Influence of transverse compression on axial electromechanical properties of carbon nanotube fibers. <i>Materials and Design</i> , 2020, 188, 108463.	3.3	10
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