

# Bao-Zhong Sun

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

191  
papers

4,626  
citations

34  
h-index

55  
g-index

203  
ext. papers

5,586  
ext. citations

4.6  
avg, IF

6.07  
L-index

#	Paper	IF	Citations
191	Full-field strain and temperature evolution of electroactive three-dimensional braided thermoplastic shape memory composites. <i>Composites Science and Technology</i> , <b>2022</b> , 219, 109250	8.6	0
190	Effects of thermo-oxidative aging on 3-D deformation field and mechanical behaviors of 3-D angle-interlock woven composites. <i>Composite Structures</i> , <b>2022</b> , 281, 115116	5.3	2
189	Degradation of torsional behaviors of 3-D braided thin-walled tubes after atmospheric thermal ageing. <i>Thin-Walled Structures</i> , <b>2022</b> , 170, 108555	4.7	0
188	Oxygen vacancy BiO/BiWO synchronous coupling with Bi metal for phenol removal via visible and near-infrared light irradiation. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 605, 342-353	9.3	9
187	Impact crack quantification analyses in 3-D angle-interlock woven composite using image segmentation method. <i>Engineering Fracture Mechanics</i> , <b>2022</b> , 108529	4.2	0
186	Electrothermally actuated properties of fabric-reinforced shape memory polymer composites based on core-shell yarn. <i>Composite Structures</i> , <b>2022</b> , 292, 115681	5.3	0
185	A Temperature-Sensitive Polymeric Rheology Modifier Used in Water-Based Drilling Fluid for Deepwater Drilling. <i>Gels</i> , <b>2022</b> , 8, 338	4.2	1
184	Investigations of defect effect on dynamic compressive failure of 3D circular braided composite tubes with numerical simulation method. <i>Thin-Walled Structures</i> , <b>2021</b> , 160, 107381	4.7	14
183	Damage initiation and propagation mechanisms of 3-D angle-interlock woven composites under thermo-oxidative aging. <i>Composite Structures</i> , <b>2021</b> , 259, 113462	5.3	2
182	Crack spatial distributions and dynamic thermomechanical properties of 3D braided composites during thermal oxygen ageing. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2021</b> , 144, 106355	8.4	8
181	Numerical and experimental investigation on 3D angle interlock woven fabric under ballistic impact. <i>Composite Structures</i> , <b>2021</b> , 266, 113778	5.3	5
180	Microstructure modeling multiple transverse impact damages of 3-D braided composite based on thermo-mechanical coupling approach. <i>Composites Part B: Engineering</i> , <b>2021</b> , 214, 108741	10	10
179	Finite element modeling on fracture toughness of 3D angle-interlock woven carbon/epoxy composites at microstructure level. <i>Mechanics of Advanced Materials and Structures</i> , <b>2021</b> , 28, 849-860	1.8	2
178	Mode I fracture toughness of fiber-reinforced polymer composites: A review. <i>Journal of Industrial Textiles</i> , <b>2021</b> , 50, 1165-1192	1.6	9
177	Electrothermal shape memory behavior and recovery force of four-dimensional printed continuous carbon fiber/polylactic acid composite. <i>Smart Materials and Structures</i> , <b>2021</b> , 30, 025040	3.4	9
176	Mode-I fracture crack growth behaviors of 3-D angle interlock woven composites under low-velocity wedge-loaded impact. <i>Engineering Fracture Mechanics</i> , <b>2021</b> , 242, 107468	4.2	3
175	Near-fiber nanomechanical mapping and impact failure mechanism of 3D braided composites subjected to thermo-oxidative environment. <i>Composites Science and Technology</i> , <b>2021</b> , 216, 109052	8.6	2

174	Electro-thermal coupling behavior and temperature distribution of 3-D braided composite under direct current. <i>Composites Science and Technology</i> , <b>2021</b> , 216, 109043	8.6	2
173	Ballistic penetration damages and energy absorptions of stacked cross-ply composite fabrics and laminated panels. <i>International Journal of Damage Mechanics</i> , <b>2020</b> , 29, 1465-1484	3	8
172	Shape adaptable and highly resilient 3D braided triboelectric nanogenerators as e-textiles for power and sensing. <i>Nature Communications</i> , <b>2020</b> , 11, 2868	17.4	143
171	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> , <b>2020</b> , 569, 298-306	9.3	15
170	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> , <b>2020</b> , 150, 106705	4.7	6
169	Influence of transverse compression on axial electromechanical properties of carbon nanotube fibers. <i>Materials and Design</i> , <b>2020</b> , 188, 108463	8.1	5
168	Modified Biosurfactant Cationic Alkyl Polyglycoside as an Effective Additive for Inhibition of Highly Reactive Shale. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 1680-1687	4.1	14
167	A flexible, high-strength, conductive shape memory composite fabric based on continuous carbon fiber/polyurethane yarn. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 085044	3.4	7
166	3D angle-interlock woven structural wearable triboelectric nanogenerator fabricated with silicone rubber coated graphene oxide/cotton composite yarn. <i>Composites Part B: Engineering</i> , <b>2020</b> , 200, 108244 <sup>10</sup>	10	14
165	Low-velocity penetration damage of Kevlar woven fabrics impregnated with shear thickening fluid penetrated with different tups. <i>Mechanics of Advanced Materials and Structures</i> , <b>2020</b> , 27, 1900-1907	1.8	2
164	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> , <b>2020</b> , 50, 23-45	1.6	5
163	Multiple transverse impact damage behaviors of 3-D-braided composite beams under room and high temperatures. <i>International Journal of Damage Mechanics</i> , <b>2020</b> , 29, 715-747	3	5
162	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> , <b>2020</b> , 29, 413-434	3	10
161	Microstructural design for enhanced shape memory behavior of 4D printed composites based on carbon nanotube/polylactic acid filament. <i>Composites Science and Technology</i> , <b>2019</b> , 181, 107692	8.6	43
160	Effect of pre-crack length on Mode I fracture toughness of 3-D angle-interlock woven composites from finite element analyses. <i>Journal of the Textile Institute</i> , <b>2019</b> , 110, 1445-1458	1.5	1
159	Numerical analysis of punch shear failure and stress characteristics of three-dimensional braided composite with different braiding angles. <i>International Journal of Damage Mechanics</i> , <b>2019</b> , 28, 1418-1437 <sup>3</sup>	3	2
158	Punch shear performance and damage mechanisms of three-dimensional braided composite with different thicknesses. <i>Textile Research Journal</i> , <b>2019</b> , 89, 2126-2141	1.7	3
157	Influence of Braiding Angle on Multiple Impact Damages of 3-D Braided Composite along Longitudinal Direction. <i>Applied Composite Materials</i> , <b>2019</b> , 26, 1261-1280	2	6

156	X-ray tomography and numerical study on low-velocity impact damages of three-dimensional angle-interlock woven composites. <i>Composite Structures</i> , <b>2019</b> , 230, 111525	5.3	15
155	Remotely and Sequentially Controlled Actuation of Electroactivated Carbon Nanotube/Shape Memory Polymer Composites. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900600	6.8	30
154	Synergistic effect enhanced shape recovery behavior of metal-4D printed shape memory polymer hybrid composites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 179, 107536	10	17
153	In situ measurement of strains at different locations in 3-D braided composites with FBG sensors. <i>Composite Structures</i> , <b>2019</b> , 230, 111527	5.3	4
152	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> , <b>2019</b> , 155, 50-65	5.5	27
151	Effect of braiding angle on dynamic mechanical properties of 3-D braided rectangular composites under multiple impact compressions. <i>Journal of Composite Materials</i> , <b>2019</b> , 53, 1827-1846	2.7	5
150	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> , <b>2019</b> , 211, 502-521	5.3	20
149	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> , <b>2019</b> , 161, 677-690	10	20
148	High strain rate compressive response of the Cf/SiC composite. <i>Ceramics International</i> , <b>2019</b> , 45, 6812-6818	18	4
147	Differences of transverse impact damages in 3D angle-interlock woven composites between warp and weft directions. <i>International Journal of Damage Mechanics</i> , <b>2019</b> , 28, 1203-1227	3	4
146	Comparisons on impact fracture behavior between three-dimensional four directional and five directional braided composite materials. <i>International Journal of Damage Mechanics</i> , <b>2019</b> , 28, 990-1020	3	8
145	Structural modeling and mechanical characterizing of three-dimensional four-step braided composites: A review. <i>Composite Structures</i> , <b>2019</b> , 207, 119-128	5.3	31
144	Impact fracture behaviors of three-dimensional braided composite U-notch beam subjected to three-point bending. <i>International Journal of Damage Mechanics</i> , <b>2019</b> , 28, 404-426	3	10
143	Finite element analyses on longitudinal compressive behaviors of 3D braided carbon /epoxy composite with different braided angles at low temperatures. <i>Journal of the Textile Institute</i> , <b>2019</b> , 110, 37-49	1.5	1
142	Numerical analyses on thermal stress distribution induced from impact compression in 3D carbon fiber/epoxy braided composite materials. <i>Journal of Thermal Stresses</i> , <b>2018</b> , 41, 903-919	2.2	18
141	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> , <b>2018</b> , 140, 119-132	5.5	25
140	Size effects on compressive behaviors of three-dimensional braided composites under high strain rates. <i>Journal of Composite Materials</i> , <b>2018</b> , 52, 3895-3908	2.7	8
139	Shape memory behavior and recovery force of 4D printed textile functional composites. <i>Composites Science and Technology</i> , <b>2018</b> , 160, 224-230	8.6	79

138	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> , <b>2018</b> , 52, 1139-1154	2.7	14
137	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> , <b>2018</b> , 27, 1380-1396	3	7
136	Experimental and numerical analyses of matrix shrinkage and compressive behavior of 3-D braided composite under thermo-oxidative ageing conditions. <i>Composite Structures</i> , <b>2018</b> , 204, 320-332	5.3	13
135	Using near-infrared reflectance spectroscopy to predict physical parameters of beef. <i>Spectroscopy Letters</i> , <b>2018</b> , 51, 163-168	1.1	6
134	Shape memory behavior and recovery force of 4D printed laminated Miura-origami structures subjected to compressive loading. <i>Composites Part B: Engineering</i> , <b>2018</b> , 153, 233-242	10	57
133	Versatile CoreSheath Yarn for Sustainable Biomechanical Energy Harvesting and Real-Time Human-Interactive Sensing. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801114	21.8	153
132	Interfacial bonding strength of short carbon fiber/acrylonitrile-butadiene-styrene composites fabricated by fused deposition modeling. <i>Composites Part B: Engineering</i> , <b>2018</b> , 137, 51-59	10	96
131	Impact damage and compression behaviours of three-dimensional angle-interlock woven composites after thermo-oxidation degradation. <i>Journal of Composite Materials</i> , <b>2018</b> , 52, 2085-2101	2.7	5
130	Experimental study on the bending fatigue behaviors of 3D five directional braided T-shaped composites. <i>Journal of the Textile Institute</i> , <b>2018</b> , 109, 603-613	1.5	8
129	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> , <b>2018</b> , 148, 730-744	5.5	20
128	Damage mechanisms of 3-D rectangular braided composite under multiple impact compressions. <i>Aerospace Science and Technology</i> , <b>2018</b> , 82-83, 46-60	4.9	20
127	A Stretchable Yarn Embedded Triboelectric Nanogenerator as Electronic Skin for Biomechanical Energy Harvesting and Multifunctional Pressure Sensing. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804944	24	278
126	Finite element analyses on punch shear behaviors of three-dimensional braided composites at microstructure level. <i>International Journal of Damage Mechanics</i> , <b>2017</b> , 26, 968-988	3	8
125	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> , <b>2017</b> , 26, 1003-1027	3	20
124	Thermal-mechanical coupling modeling of 3D braided composite under impact compression loading and high temperature field. <i>Composites Science and Technology</i> , <b>2017</b> , 140, 73-88	8.6	26
123	Ultrastrong and excellent dynamic mechanical properties of carbon nanotube composites. <i>Composites Science and Technology</i> , <b>2017</b> , 141, 137-144	8.6	25
122	Drop-weight impact behaviors of 3-D angle interlock woven composites after thermal oxidative aging. <i>Composite Structures</i> , <b>2017</b> , 166, 239-255	5.3	21
121	Transverse impact performance and finite element analysis of three dimensional braided composite tubes with different braiding layers. <i>Composite Structures</i> , <b>2017</b> , 168, 345-359	5.3	25

120	Progressive failure of 3-D textile composites under impact loadings. <i>Composite Structures</i> , <b>2017</b> , 168, 710-724	5.3	15
119	Electromechanical behavior of carbon nanotube fibers under transverse compression. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 085303	3	5
118	Strong graphene-interlayered carbon nanotube films with high thermal conductivity. <i>Carbon</i> , <b>2017</b> , 118, 659-665	10.4	40
117	Temperature-dependent thermal expansion behaviors of carbon fiber/epoxy plain woven composites: Experimental and numerical studies. <i>Composite Structures</i> , <b>2017</b> , 176, 329-341	5.3	28
116	Impact shear damage characterizations of 3D braided composite with X-ray micro-computed tomography and numerical methodologies. <i>Composite Structures</i> , <b>2017</b> , 176, 43-54	5.3	44
115	The transverse impact responses of 3-D braided composite I-beam. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2017</b> , 94, 158-169	8.4	22
114	Meso-structure ageing mechanism of 3-D braided composite's compressive behaviors under accelerated thermo-oxidative ageing environment. <i>Mechanics of Materials</i> , <b>2017</b> , 115, 47-63	3.3	34
113	A Highly Stretchable and Washable All-Yarn-Based Self-Charging Knitting Power Textile Composed of Fiber Triboelectric Nanogenerators and Supercapacitors. <i>ACS Nano</i> , <b>2017</b> , 11, 9490-9499	16.7	320
112	Characterization of residual stress and deformation in additively manufactured ABS polymer and composite specimens. <i>Composites Science and Technology</i> , <b>2017</b> , 150, 102-110	8.6	64
111	3D Orthogonal Woven Triboelectric Nanogenerator for Effective Biomechanical Energy Harvesting and as Self-Powered Active Motion Sensors. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702648	24	225
110	Numerical analysis of thermal expansion behaviors and interfacial thermal stress of 3D braided composite materials. <i>Computational Materials Science</i> , <b>2017</b> , 138, 77-91	3.2	20
109	Numerical modeling on compressive behaviors of 3-D braided composites under high temperatures at microstructure level. <i>Composite Structures</i> , <b>2017</b> , 160, 925-938	5.3	18
108	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> , <b>2017</b> , 51, 2531-2547	2.7	10
107	High-Performance Composites and Their Applications <b>2017</b> , 341-368		2
106	Unit cells of composites with symmetric structures for the study of effective thermal properties. <i>Applied Thermal Engineering</i> , <b>2017</b> , 126, 602-619	5.8	8
105	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> , <b>2016</b> , 55, 44-60	4.5	32
104	Comparisons of thermal conductive behaviors of epoxy resin in unidirectional composite materials. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2016</b> , 124, 775-789	4.1	13
103	Mechanical behaviors of four-step 1 $\times$ 1 braided carbon/epoxy three-dimensional composite tubes under axial compression loading. <i>Polymer Composites</i> , <b>2016</b> , 37, 3210-3218	3	12

102	Thermal ageing degradation mechanisms on compressive behavior of 3-D braided composites in experimental and numerical study. <i>Composite Structures</i> , <b>2016</b> , 140, 180-191	5.3	38
101	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> , <b>2016</b> , 107, 1584-1600	1.5	9
100	Transient heat generation and thermo-mechanical response of epoxy resin under adiabatic impact compressions. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 95, 874-889	4.9	24
99	Multi-scale structure finite element analyses of damage behaviors of multi-axial warp-knitted composite materials subjected to quasi-static and high strain rate compressions. <i>Journal of the Textile Institute</i> , <b>2016</b> , 107, 879-904	1.5	7
98	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> , <b>2016</b> , 25, 574-607	3	14
97	Transverse impact behaviors of 3D braided composites T-beam at elevated temperatures. <i>Journal of Composite Materials</i> , <b>2016</b> , 50, 3961-3971	2.7	9
96	Effect of temperature and strain rate on biaxial warp-knitted composite. <i>Journal of Reinforced Plastics and Composites</i> , <b>2016</b> , 35, 295-304	2.9	2
95	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> , <b>2016</b> , 94, 1-25	3.3	35
94	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> , <b>2016</b> , 23, 385-401	1.8	12
93	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> , <b>2016</b> , 86, 243-253	10	45
92	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> , <b>2016</b> , 50, 1635-1650	2.7	13
91	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> , <b>2016</b> , 102, 501-517	4.9	46
90	Responses of 3D four-directional and five-directional circular braided composite tubes under transverse impact. <i>International Journal of Crashworthiness</i> , <b>2016</b> , 21, 353-366	1	12
89	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> , <b>2016</b> , 50, 3905-3924	2.7	12
88	Accelerated thermal ageing of epoxy resin and 3-D carbon fiber/epoxy braided composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2016</b> , 85, 163-171	8.4	38
87	Quasi-static compression and compression-fatigue characteristics of 3D braided carbon/epoxy tube. <i>Journal of the Textile Institute</i> , <b>2016</b> , 107, 938-948	1.5	14
86	Multi-scale finite element analyses on the thermal conductive behaviors of 3D braided composites. <i>Composite Structures</i> , <b>2016</b> , 143, 9-22	5.3	35
85	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> , <b>2016</b> , 54, 23-40	4.9	26

84	Energy absorption of three-dimensional braided composites under impact punch shear loading. <i>Textile Reseach Journal</i> , <b>2016</b> , 86, 2080-2095	1.7	3
83	Experimental and numerical investigation on the thermal conduction properties of 2.5D angle-interlock woven composites. <i>Composite Structures</i> , <b>2016</b> , 154, 319-333	5.3	22
82	Numerical analyses of thermo-mechanical behaviors of 3-D rectangular braided composite under different temperatures. <i>Journal of the Textile Institute</i> , <b>2015</b> , 106, 173-186	1.5	10
81	Experimental investigation of high-strain rate properties of 3-D braided composite material in cryogenic field. <i>Composites Part B: Engineering</i> , <b>2015</b> , 77, 379-390	10	36
80	Experimental characterizations of three-point bending fatigue behavior of four-step three-dimensional braided composite T-beam. <i>Journal of Industrial Textiles</i> , <b>2015</b> , 45, 171-186	1.6	7
79	Predicting dynamic in-plane compressive properties of multi-axial multi-layer warp-knitted composites with a meso-model. <i>Composites Part B: Engineering</i> , <b>2015</b> , 77, 278-290	10	17
78	Longitudinal compressive behaviour of 3D braided composite under various temperatures and strain rates. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 118, 1315-1337	2.6	16
77	The bending fatigue comparison between 3D braided rectangular composites and T-beam composites. <i>Fibers and Polymers</i> , <b>2015</b> , 16, 634-639	2	8
76	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> , <b>2015</b> , 79, 52-62	8.4	40
75	Finite element modeling of compressive properties of three-dimensional woven composites under various strain rates. <i>Journal of Composite Materials</i> , <b>2015</b> , 49, 2519-2528	2.7	2
74	Numerical simulation of the impact behaviors of shear thickening fluid impregnated warp-knitted spacer fabric. <i>Composites Part B: Engineering</i> , <b>2015</b> , 69, 191-200	10	37
73	Effects of temperature and strain rate on impact compression behaviors of three-dimensional carbon fiber/epoxy braided composites. <i>Journal of Composite Materials</i> , <b>2015</b> , 49, 771-782	2.7	19
72	Finite element analyses of four-step 3D braided composite bending damage using repeating unit cell model. <i>International Journal of Damage Mechanics</i> , <b>2015</b> , 24, 59-75	3	18
71	Impact compressive behavior and failure modes of four-step three-dimensional braided composites-based meso-structure model. <i>International Journal of Damage Mechanics</i> , <b>2015</b> , 24, 805-827 <sup>3</sup>	3	26
70	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> , <b>2015</b> , 106, 67-79	1.5	18
69	Structural effects of three-dimensional angle-interlock woven composite undergoing bending cyclic loading. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2014</b> , 57, 501-511	3.6	10
68	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> , <b>2014</b> , 84, 41-53	5.5	32
67	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> , <b>2014</b> , 23, 636-660	3	24



66	Large-scale finite element analysis of a 3D angle-interlock woven composite undergoing low-cyclic three-point bending fatigue. <i>Journal of the Textile Institute</i> , <b>2014</b> , 105, 275-293	1.5	7
65	Development of near infrared reflectance spectroscopy to predict chemical composition with a wide range of variability in beef. <i>Meat Science</i> , <b>2014</b> , 98, 110-4	6.4	26
64	Computational schemes on the bending fatigue deformation and damage of three-dimensional orthogonal woven composite materials. <i>Computational Materials Science</i> , <b>2014</b> , 91, 91-101	3.2	12
63	Tensile impact damage behaviors of co-woven-knitted composite materials with a simplified microstructure model. <i>Textile Reseach Journal</i> , <b>2014</b> , 84, 1742-1760	1.7	7
62	Numerical modeling of the mechanical response of basalt plain woven composites under high strain rate compression. <i>Journal of Reinforced Plastics and Composites</i> , <b>2014</b> , 33, 1087-1104	2.9	11
61	Damage Behaviors of Foam Sandwiched Composite Materials Under Quasi-Static Three-point Bending. <i>Applied Composite Materials</i> , <b>2013</b> , 20, 1231-1246	2	10
60	Low-Velocity Impact Response and Finite Element Analysis of Four-Step 3-D Braided Composites. <i>Applied Composite Materials</i> , <b>2013</b> , 20, 397-413	2	19
59	An Analytical Model for Predicting Stab Resistance of Flexible Woven Composites. <i>Applied Composite Materials</i> , <b>2013</b> , 20, 569-585	2	13
58	Strain rate effects on tensile failure of 3-D angle-interlock woven carbon fabric. <i>Materials &amp; Design</i> , <b>2013</b> , 46, 857-866		12
57	Compressive behaviors of warp-knitted spacer fabrics impregnated with shear thickening fluid. <i>Composites Science and Technology</i> , <b>2013</b> , 88, 184-189	8.6	45
56	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> , <b>2013</b> , 57, 145-158	4	30
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50	Finite element analyses of tensile impact behaviors of co-woven-knitted composite from unit-cell approach. <i>Journal of the Textile Institute</i> , <b>2013</b> , 104, 446-459	1.5	7
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48	Transverse impact behaviors of four-step 3-D rectangular braided composites from unit-cell approach. <i>Journal of Reinforced Plastics and Composites</i> , <b>2012</b> , 31, 233-246	2.9	27
47	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> , <b>2012</b> , 65, 239-246	3.2	25
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39	Frequency features of basalt filament tows under quasi-static and high strain rate tension. <i>Journal of Composite Materials</i> , <b>2012</b> , 46, 1285-1293	2.7	9
38	Experimental characterization of transverse impact behaviors of four-step 3-D rectangular braided composites. <i>Journal of Composite Materials</i> , <b>2012</b> , 46, 3017-3029	2.7	19
37	Impact tensile behavior and frequency response of 3D braided composites. <i>Textile Reseach Journal</i> , <b>2012</b> , 82, 280-287	1.7	15
36	Frequency features of co-woven-knitted fabric (CWKF) composite under tension at various strain rates. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 446-452	8.4	22
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33	Tensile behaviors of co-woven-knitted fabric reinforced composites under various strain rates. <i>Journal of Composite Materials</i> , <b>2011</b> , 45, 2495-2506	2.7	16
32	Impact Damage of 3D Cellular Woven Composite from Unit-cell Level Analysis. <i>International Journal of Damage Mechanics</i> , <b>2011</b> , 20, 323-346	3	22
31	Finite element simulation of three-dimensional angle-interlock woven fabric undergoing ballistic impact. <i>Journal of the Textile Institute</i> , <b>2011</b> , 102, 982-993	1.5	13

30	Energy absorption of 3D orthogonal woven fabric under ballistic penetration of hemispherical-cylindrical projectile. <i>Journal of the Textile Institute</i> , <b>2011</b> , 102, 875-889	1.5	22
29	A Comparative Study of the Impact Response of 3D Textile Composites and Aluminum Plates. <i>Journal of Composite Materials</i> , <b>2010</b> , 44, 593-619	2.7	6
28	Dynamic Responses of 3-D Multi-structured Knitted Composite T-beam under Transverse Impact. <i>Journal of Composite Materials</i> , <b>2010</b> , 44, 157-180	2.7	7
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26	Mechanical Behaviors of 2D and 3D Basalt Fiber Woven Composites Under Various Strain Rates. <i>Journal of Composite Materials</i> , <b>2010</b> , 44, 1779-1795	2.7	20
25	Constitutive equations of basalt filament tows under quasi-static and high strain rate tension. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 3245-3252	5.3	39
24	A simplified microstructure model of bi-axial warp-knitted composite for ballistic impact simulation. <i>Composites Part B: Engineering</i> , <b>2010</b> , 41, 337-353	10	33
23	Dynamic Behavior of 3D Biaxial Spacer Weft-Knitted Composite T-Beam Under Transverse Impact. <i>Mechanics of Advanced Materials and Structures</i> , <b>2009</b> , 16, 356-370	1.8	9
22	Transverse impact damage and energy absorption of 3-D multi-structured knitted composite. <i>Composites Part B: Engineering</i> , <b>2009</b> , 40, 572-583	10	28
21	A unit cell approach of finite element calculation of ballistic impact damage of 3-D orthogonal woven composite. <i>Composites Part B: Engineering</i> , <b>2009</b> , 40, 552-560	10	53
20	Dynamic properties of 3-D orthogonal woven composite T-beam under transverse impact. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2008</b> , 39, 1073-1082	8.4	40
19	Shear Behavior of 3-D Biaxial Spacer Weft Knitted Composite under High Strain Rates. <i>Journal of Composite Materials</i> , <b>2008</b> , 42, 1747-1762	2.7	11
18	Compressive behavior of multi-axial multi-layer warp knitted (MMWK) fabric composite at various strain rates. <i>Composite Structures</i> , <b>2007</b> , 78, 84-90	5.3	43
17	Transverse impact behavior and energy absorption of three-dimensional orthogonal hybrid woven composites. <i>Composite Structures</i> , <b>2007</b> , 81, 202-209	5.3	70
16	Compressive behavior of biaxial spacer weft knitted fabric reinforced composite at various strain rates. <i>Polymer Composites</i> , <b>2007</b> , 28, 224-232	3	14
15	High strain rate behavior of 4-step 3D braided composites under compressive failure. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 2463-2470	4.3	29
14	In-plane Compressive Behaviors of 3-D Textile Composites at Various Strain Rates. <i>Applied Composite Materials</i> , <b>2007</b> , 14, 193-207	2	14
13	Impact Damage of 3D Orthogonal Woven Composite Circular Plates. <i>Applied Composite Materials</i> , <b>2007</b> , 14, 343-362	2	33

12	Frequency Analysis of Stress Waves in Testing 3-D Angle-interlock Woven Composite at High Strain Rates. <i>Journal of Composite Materials</i> , <b>2007</b> , 41, 2915-2938	2.7	17
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8	Energy absorptions and failure modes of 3D orthogonal hybrid woven composite struck by flat-ended rod. <i>Polymer Composites</i> , <b>2006</b> , 27, 410-416	3	20
7	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> , <b>2005</b> , 36, 1477-1485	8.4	60
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