

Yizhuo Gu

List of Publications by Year in descending order

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95
papers

2,631
citations

172457

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223800

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95
docs citations

95
times ranked

2746
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial improvement of carbon fiber/epoxy composites using a simple process for depositing commercially functionalized carbon nanotubes on the fibers. Carbon, 2013, 52, 109-121.	10.3	259
2	Characterization of the interphase in carbon fiber/polymer composites using a nanoscale dynamic mechanical imaging technique. Carbon, 2010, 48, 3229-3235.	10.3	136
3	Highly aligned dense carbon nanotube sheets induced by multiple stretching and pressing. Nanoscale, 2014, 6, 4338-4344.	5.6	116
4	Radiation shielding property of structural polymer composite: Continuous basalt fiber reinforced epoxy matrix composite containing erbium oxide. Composites Science and Technology, 2017, 143, 67-74.	7.8	91
5	Effect of rapid curing process on the properties of carbon fiber/epoxy composite fabricated using vacuum assisted resin infusion molding. Materials & Design, 2014, 54, 624-631.	5.1	72
6	Interlocked CNT networks with high damping and storage modulus. Carbon, 2015, 86, 46-53.	10.3	68
7	Enhanced dielectric and mechanical properties in chlorine-doped continuous CNT sheet reinforced sandwich polyvinylidene fluoride film. Carbon, 2016, 107, 405-414.	10.3	62
8	Core-shell SiC/SiO ₂ whisker reinforced polymer composite with high dielectric permittivity and low dielectric loss. Materials and Design, 2016, 89, 933-940.	7.0	58
9	Enhancement of dielectric and electrical properties in BT/SiC/PVDF three-phase composite through microstructure tailoring. Composites Part A: Applied Science and Manufacturing, 2015, 74, 88-95.	7.6	52
10	Electromagnetic shielding property of carbon fiber felt made of different types of short-chopped carbon fibers. Composites Part A: Applied Science and Manufacturing, 2019, 121, 289-298.	7.6	52
11	Tuning carbon nanotube assembly for flexible, strong and conductive films. Nanoscale, 2015, 7, 3060-3066.	5.6	51
12	Gamma ray shielding property, shielding mechanism and predicting model of continuous basalt fiber reinforced polymer matrix composite containing functional filler. Materials and Design, 2017, 124, 121-130.	7.0	48
13	Improvement in mechanical and thermal properties of phenolic foam reinforced with multiwalled carbon nanotubes. Journal of Applied Polymer Science, 2013, 130, 1479-1488.	2.6	46
14	Nanoscale dynamic mechanical imaging of the skin-core difference: From PAN precursors to carbon fibers. Materials Letters, 2014, 128, 417-420.	2.6	46
15	Effect of γ irradiation on the properties of basalt fiber reinforced epoxy resin matrix composite. Journal of Nuclear Materials, 2015, 466, 100-107.	2.7	45
16	Mechanical enhancement effect of the interlayer hybrid CNT film/carbon fiber/epoxy composite. Composites Science and Technology, 2018, 166, 176-182.	7.8	44
17	The interfacial strength and fracture characteristics of ethanol and polymer modified carbon nanotube fibers in their epoxy composites. Carbon, 2013, 52, 550-558.	10.3	42
18	Effect of the filler structure of carbon nanomaterials on the electrical, thermal, and rheological properties of epoxy composites. Journal of Applied Polymer Science, 2013, 129, 3366-3372.	2.6	42

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19	Effect of acidification conditions on the properties of carbon nanotube fibers. <i>Applied Surface Science</i> , 2014, 292, 469-474.	6.1	42
20	Chemical interaction between carbon fibers and surface sizing. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2127-2132.	2.6	41
21	A simple method for the measurement of compaction and corresponding transverse permeability of composite preregs. <i>Polymer Composites</i> , 2007, 28, 61-70.	4.6	36
22	Numerical and Experimental Study on the Effect of Lay-Up Type and Structural Elements on Thickness Uniformity of L-Shaped Laminates. <i>Applied Composite Materials</i> , 2009, 16, 101-115.	2.5	36
23	A new method to characterize the cure state of epoxy prepreg by dynamic mechanical analysis. <i>Thermochimica Acta</i> , 2009, 487, 8-17.	2.7	36
24	A nanopump for low-temperature and efficient solar water evaporation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24311-24319.	10.3	34
25	Enhanced electromagnetic shielding property and anisotropic shielding behavior of corrugated carbon fiber felt composite and its sandwich structure. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106481.	7.6	34
26	Carbon nanotube film/epoxy composites with high strength and toughness. <i>Polymer Composites</i> , 2017, 38, 588-596.	4.6	33
27	Electromagnetic characteristics of carbon nanotube film materials. <i>Chinese Journal of Aeronautics</i> , 2015, 28, 1245-1254.	5.3	32
28	Effect of sizing on interfacial adhesion of commercial high strength carbon fiber reinforced resin composites. <i>Polymer Composites</i> , 2016, 37, 254-261.	4.6	32
29	Fabrication and characterization of structural/dielectric three-phase composite: Continuous basalt fiber reinforced epoxy resin modified with graphene nanoplates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 94, 199-208.	7.6	31
30	Numerical Simulation and Experimental Study on Consolidation of Toughened Epoxy Resin Composite Laminates. <i>Journal of Composite Materials</i> , 2006, 40, 2257-2277.	2.4	29
31	A modified spray-winding approach to enhance the tensile performance of array-based carbon nanotube composite films. <i>Carbon</i> , 2013, 65, 187-195.	10.3	29
32	Effects of Processing Parameters on the Forming Quality of C-Shaped Thermosetting Composite Laminates in Hot Diaphragm Forming Process. <i>Applied Composite Materials</i> , 2013, 20, 927-945.	2.5	29
33	Effects of carbon fiber surface characteristics on interfacial bonding of epoxy resin composite subjected to hygrothermal treatments. <i>Applied Surface Science</i> , 2014, 288, 666-672.	6.1	29
34	Ultrastrong carbon nanotube/ bismaleimide composite film with super-aligned and tightly packing structure. <i>Composites Science and Technology</i> , 2015, 117, 176-182.	7.8	29
35	Void formation model and measuring method of void formation condition during hot pressing process. <i>Polymer Composites</i> , 2010, 31, 1562-1571.	4.6	28
36	Effect of forming temperature on the quality of hot diaphragm formed C-shaped thermosetting composite laminates. <i>Journal of Reinforced Plastics and Composites</i> , 2012, 31, 1074-1087.	3.1	28

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37	Imaging the interphase of carbon fiber composites using transmission electron microscopy: Preparations by focused ion beam, ion beam etching, and ultramicrotomy. Chinese Journal of Aeronautics, 2015, 28, 1529-1538.	5.3	28
38	Enhanced microwave shielding effectiveness and suppressed reflection of chopped carbon fiber felt by electrostatic flocking of carbon fiber. Composites Part A: Applied Science and Manufacturing, 2020, 139, 106099.	7.6	28
39	Influences of in-plane and out-of-plane fiber waviness on mechanical properties of carbon fiber composite laminate. Journal of Reinforced Plastics and Composites, 2018, 37, 877-891.	3.1	27
40	Online monitoring and analysis of resin pressure inside composite laminate during zero-bleeding autoclave process. Polymer Composites, 2011, 32, 314-323.	4.6	26
41	Gamma Ray Shielding Property of Tungsten Powder Modified Continuous Basalt Fiber Reinforced Epoxy Matrix Composites. Polymer Composites, 2018, 39, E2106.	4.6	25
42	Enhanced tribological performance of hybrid polytetrafluoroethylene/Kevlar fabric composite filled with milled pitch-based carbon fibers. Journal of Applied Polymer Science, 2018, 135, 46269.	2.6	24
43	The loading-rate dependent tensile behavior of CNT film and its bismaleimide composite film. Materials and Design, 2017, 117, 37-46.	7.0	23
44	Experimental Investigation on the Co-Cure Processing of Honeycomb Structure with Self-Adhesive Prepreg. Applied Composite Materials, 2008, 15, 47-59.	2.5	22
45	Macro- and micro-interfacial properties of carbon fiber reinforced epoxy resin composite under hygrothermal treatments. Journal of Reinforced Plastics and Composites, 2014, 33, 369-379.	3.1	22
46	Atomic oxygen exposure behaviors of CVD-grown carbon nanotube film and its polymer composite film. Composites Part A: Applied Science and Manufacturing, 2015, 71, 116-125.	7.6	21
47	Thermal conductivity enhancement and heat transport mechanism of carbon fiber z-pin graphite composite structures. Composites Part B: Engineering, 2019, 172, 603-611.	12.0	21
48	Interply friction of carbon fiber/epoxy prepreg stacks under different processing conditions. Journal of Composite Materials, 2014, 48, 515-526.	2.4	20
49	Numerical simulation of two-dimensional flow and compaction during the consolidation of laminated composites. Polymer Composites, 2008, 29, 560-568.	4.6	19
50	Resistance heating forming process based on carbon fiber veil for continuous glass fiber reinforced polypropylene. Journal of Reinforced Plastics and Composites, 2018, 37, 366-380.	3.1	19
51	Numerical and Experimental Study of the Bleeder Flow in Autoclave Process. Applied Composite Materials, 2011, 18, 327-336.	2.5	18
52	Hybrid effect of carbon nanotube film and ultrathin carbon fiber prepreg composites. Journal of Reinforced Plastics and Composites, 2017, 36, 452-463.	3.1	18
53	Annealing effect on crystalline structure and mechanical properties in long glass fiber reinforced polyamide 66. Journal of Applied Polymer Science, 2017, 134, .	2.6	18
54	Numerical Simulation of Flow and Compaction During the Cure of Laminated Composites. Journal of Reinforced Plastics and Composites, 2007, 26, 251-268.	3.1	17

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55	Tuning interlaminar fracture toughness of fine z-pin reinforced polymer composite. <i>Materials and Design</i> , 2021, 212, 110293.	7.0	17
56	Co-curing process combining resin film infusion with prepreg and co-cured interlaminar properties of carbon fiber composites. <i>Journal of Composite Materials</i> , 2014, 48, 1709-1724.	2.4	14
57	Reaction of carbon fiber sizing and its influence on the interphase region of composites. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	14
58	Role of Tool-Part Interaction in Consolidation of L-Shaped Laminates during Autoclave Process. <i>Applied Composite Materials</i> , 2012, 19, 583-597.	2.5	13
59	Characterization of interfacial toughness in carbon fiber/epoxy resin composite subjected to water aging using single-fiber fragmentation method in an energy-based model. <i>Polymer Composites</i> , 2012, 33, 716-722.	4.6	12
60	Strong, flexible and thermal-resistant CNT/polyarylacetylene nanocomposite films. <i>RSC Advances</i> , 2016, 6, 4077-4084.	3.6	12
61	Fiber distribution of long fiber reinforced polyamide and effect of fiber orientation on mechanical behavior. <i>Polymer Composites</i> , 2020, 41, 1531-1550.	4.6	12
62	Effects of resin storage aging on rheological property and consolidation of composite laminates. <i>Polymer Composites</i> , 2009, 30, 1081-1090.	4.6	11
63	Resin pressure and resin flow inside tapered laminates during zero-bleeding and bleeding processes. <i>Journal of Reinforced Plastics and Composites</i> , 2012, 31, 205-214.	3.1	11
64	Investigation of the nanoscale mechanical properties of carbon fiber/epoxy resin interphase. I. analysis of fiber-stiffening effect during the nanoindentation process based on numerical simulation. <i>Polymer Composites</i> , 2012, 33, 1387-1394.	4.6	11
65	Investigation of carbon fiber composite stiffened skin with vacuum assisted resin infusion/prepreg co-curing process. <i>Science China Technological Sciences</i> , 2014, 57, 1956-1966.	4.0	11
66	SiC@SiO ₂ core@shell filler reinforced polymer composites with high dielectric permittivity and low loss. <i>Materials Letters</i> , 2015, 160, 16-19.	2.6	11
67	Negative permittivity behavior of aligned carbon nanotube films. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	11
68	Numerical analysis of parametric effects on consolidation of angle-bended composite laminates. <i>Polymer Composites</i> , 2009, 30, 1510-1516.	4.6	10
69	Manufacture and characterization of carbon fiber composite stiffened skin by resin film infusion/prepreg co-curing process. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 1559-1573.	3.1	10
70	Geometrical Effect on Thermal Conductivity of Unidirectional Fiber-Reinforced Polymer Composite along Different In-plane Orientations. <i>Applied Composite Materials</i> , 2018, 25, 1255-1268.	2.5	9
71	Effect of processing temperature on the micro- and macro-interfacial properties of carbon fiber/epoxy composites. <i>Composite Interfaces</i> , 2014, 21, 443-453.	2.3	8
72	Structure Design of GFRP Composite Leaf Spring: An Experimental and Finite Element Analysis. <i>Polymers</i> , 2021, 13, 1193.	4.5	8

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73	Study on the resin flow and fiber compaction of tapered composite laminates during autoclave processing. <i>Journal of Reinforced Plastics and Composites</i> , 2011, 30, 1399-1411.	3.1	7
74	Densification of chlorine-doped continuous CNT sheet/polyvinylidene fluoride sandwich film and improvement of the mechanical and dielectric properties. <i>Nanotechnology</i> , 2018, 29, 035701.	2.6	7
75	Effect of microstructure on the piezoresistive behavior of carbon nanotube composite film. <i>Materials Research Express</i> , 2019, 6, 025034.	1.6	7
76	Carbon-Nanotube-Film-Based Electrical Impedance Tomography for Structural Damage Detection of Carbon-Fiber-Reinforced Composites. <i>ACS Applied Nano Materials</i> , 2021, 4, 5590-5597.	5.0	7
77	Pressure Transfer Behaviour of Rubber Mould and the Effects on Consolidation of L-Shape Composite Laminates. <i>Polymers and Polymer Composites</i> , 2010, 18, 167-174.	1.9	6
78	Interlaminar properties of carbon fiber composite laminates with resin transfer molding/prepreg co-curing process. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 2228-2241.	3.1	6
79	Structural modification for carbon nanotube film and the composite film by processing optimization. <i>Applied Surface Science</i> , 2015, 349, 156-162.	6.1	6
80	Piezoresistivity of resin-impregnated carbon nanotube film at high temperatures. <i>Nanotechnology</i> , 2018, 29, 365702.	2.6	6
81	Effects of curing time and de-molding temperature on the deformation of glass fiber/epoxy resin prepreg laminates fabricated by rapid hot press. <i>Polymers and Polymer Composites</i> , 2019, 27, 301-313.	1.9	6
82	Mode II interlaminar fracture toughness enhancement of fine pin reinforced carbon fiber composite with low fraction of pins. <i>Polymer Composites</i> , 2022, 43, 2992-3002.	4.6	6
83	Characterization of torsion behavior and fracture morphology of single carbon fiber. <i>Journal of Composite Materials</i> , 2014, 48, 1993-1999.	2.4	5
84	Permeabilities along fiber direction of ramie bundles and through-thickness of ramie fabric stack for liquid composite molding. <i>Journal of Reinforced Plastics and Composites</i> , 2017, 36, 40-52.	3.1	5
85	Interaction between carbon nanotubes with functional groups and epoxy resin and its effect on thermal properties of carbon nanotubes/epoxy composites. <i>Journal of Composite Materials</i> , 2022, 56, 1287-1298.	2.4	5
86	Influence of surface state on moisture sensitivity of carbon fiber and its composite interfacial properties. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 757-764.	1.0	4
87	Characterization and analysis of torsion property of carbon fiber bundle combined with epoxy resin. <i>Polymer Composites</i> , 2018, 39, E2529.	4.6	4
88	Experimental and numerical studies on compaction of carbon fiber composite joint with variable cross-section using thermal expansion process. <i>Polymer Composites</i> , 2019, 40, E1057.	4.6	4
89	Delamination properties and <i>in situ</i> damage monitoring of z-pinned carbon fiber/epoxy composites. <i>Science and Engineering of Composite Materials</i> , 2021, 28, 415-425.	1.4	4
90	The Fabrication and Properties of a Bendable High-Temperature Resistance Conductive Pitch-Based Carbon/CNT Film Nanocomposite. <i>Nanomaterials</i> , 2021, 11, 758.	4.1	4

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91	Pressure window analysis for thin laminated composites in autoclave process. <i>Polymer Composites</i> , 2009, 30, 169-175.	4.6	3
92	Resin flow monitoring inside composite laminate during resin film infusion process. <i>Polymer Composites</i> , 2014, 35, 681-690.	4.6	3
93	Characterization of intra-ply shear behaviors of unidirectional prepregs during hot diaphragm forming process. <i>Polymer Composites</i> , 2021, 42, 1008-1020.	4.6	3
94	Mechanical and electrical enhancement of super-aligned carbon nanotube film by organic and inorganic doping. <i>Nanotechnology</i> , 2020, 31, 075601.	2.6	2
95	Degradation mechanism for mechanical property of carbon fiber reinforced epoxy composite under simulated seawater absorption coupled with flexural load. <i>Journal of Materials Research and Technology</i> , 2022, 19, 4658-4671.	5.8	2