

Overview of automotive structural composites technology

Composites Science and Technology

155, 221-246

DOI: [10.1016/j.compscitech.2017.09.015](https://doi.org/10.1016/j.compscitech.2017.09.015)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Potential repair techniques for automotive composites: A review. <i>Composites Part B: Engineering</i> , 2018, 145, 28-38.	5.9	100
2	A Study on Lightweight Design of Automotive Front Rails Using Tailored Blanks by Nonlinear Structural Optimization. <i>SAE International Journal of Materials and Manufacturing</i> , 2018, 12, 19-30.	0.3	4
3	Effect of through-thickness electrical conductivity of CFRPs on lightning strike damages. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 114, 429-438.	3.8	60
4	A new numerical method for the mechanical analysis of chopped carbon fiber tape-reinforced thermoplastics. <i>Composite Structures</i> , 2018, 201, 857-866.	3.1	13
5	Spatiotemporal characterization of 3D fracture behavior of carbon-fiber-reinforced polymer composites. <i>Composite Structures</i> , 2018, 203, 30-37.	3.1	8
6	Method to determine the required microstructure size to be represented by a second order fibre orientation tensor using X-ray micro computed tomography to evaluate compression moulded composites. <i>Composites Science and Technology</i> , 2019, 182, 107777.	3.8	6
7	Effect of moisture and temperature on the thermal and mechanical properties of a ductile epoxy adhesive for use in steel structures reinforced with CFRP. <i>Composites Part B: Engineering</i> , 2019, 176, 107194.	5.9	46
8	Novel modified distribution functions of fiber length in fiber reinforced thermoplastics. <i>Composites Science and Technology</i> , 2019, 182, 107749.	3.8	11
9	Approximation of Non-Linear Stress-Strain Curve for GFRP Tensile Specimens by Inverse Method. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3474.	1.3	3
10	Two-dimensional anisotropic electrochemical behavior of carbon fiber. <i>Electrochimica Acta</i> , 2019, 326, 135005.	2.6	6
11	Ultrasonic Welding of Thermoplastic Composites. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	55
12	Rapid Fabrication of Malleable Fiber Reinforced Composites with Vitriimer Powder. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2535-2542.	2.0	39
13	Investigation of the effects of femtosecond laser metal surface texturing on bonding of PA6 to steel. <i>Procedia Manufacturing</i> , 2019, 29, 313-320.	1.9	6
14	Improved environmental stability, electrical and EMI shielding properties of vapor-grown carbon fiber-filled polyaniline-based nanocomposite. <i>Polymer Engineering and Science</i> , 2019, 59, 956-963.	1.5	39
15	Multifunctional composite: Reinforcing fibreglass bundle for deformation self-sensing. <i>Composites Science and Technology</i> , 2019, 180, 78-85.	3.8	6
16	Influence of metal surface preparation on the flexural strength and impact damage behaviour of thermoplastic FRP reinforced metal laminate made by press forming. <i>Composites Part B: Engineering</i> , 2019, 173, 106883.	5.9	16
17	Ceramic molds suitable for rapid forming of CFRP composites via microwave irradiation. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 2380-2384.	1.1	1
18	Comparison of interfacial adhesion of hybrid materials of aluminum/carbon fiber reinforced epoxy composites with different surface roughness. <i>Composites Part B: Engineering</i> , 2019, 170, 11-18.	5.9	42

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20	The strain performance of thin CFRP-SPCC hybrid laminates for automobile structures. <i>Composite Structures</i> , 2019, 220, 11-18.	3.1	50
21	Feasibility of a concept out-of-autoclave carbon fibre reinforced polymer part manufacturing process. <i>International Journal of Automotive Composites</i> , 2019, 4, 137.	0.1	1
22	Study of the influence of cutting parameters on surface quality in AWJM machining of thermoplastic matrix composites. <i>Procedia Manufacturing</i> , 2019, 41, 233-240.	1.9	8
23	Effect of stress ratio on the fatigue fracture mechanism of adhesive single-lap joints: in case of GF/PP plates and an acrylic-based structural adhesive. <i>Procedia Structural Integrity</i> , 2019, 19, 224-230.	0.3	3
24	Kerf Taper Defect Minimization Based on Abrasive Waterjet Machining of Low Thickness Thermoplastic Carbon Fiber Composites C/TPU. <i>Materials</i> , 2019, 12, 4192.	1.3	28
25	Simple approach for modeling unidirectionally arrayed chopped strand laminates via the extended finite-element method. <i>Composite Structures</i> , 2019, 229, 111457.	3.1	2
26	Development and validation of recycled carbon fiber-based binder tapes for automated tape laying processes. <i>Journal of Composite Materials</i> , 2019, 53, 3257-3268.	1.2	20
27	Shear and tensile joint strengths of carbon fiber-reinforced thermoplastics using ultrasonic welding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 116, 126-137.	3.8	62
28	Melt processable polyacrylonitrile copolymer precursors for carbon fibers: Rheological, thermal, and mechanical properties. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 71, 112-118.	2.9	25
29	Interleaved MWCNT buckypaper between CFRP laminates to improve through-thickness electrical conductivity and reducing lightning strike damage. <i>Composite Structures</i> , 2019, 210, 581-589.	3.1	65
30	Deep drawing of organic sheets made of hybrid recycled carbon and thermoplastic polyamide 6 staple fiber yarns. <i>Journal of Thermoplastic Composite Materials</i> , 2020, 33, 754-778.	2.6	21
31	A generalized distribution function of fiber orientation for injection molded composites. <i>Composites Science and Technology</i> , 2020, 188, 107999.	3.8	5
32	Effect of Fiber Length on Mechanical Properties of Injection Molded Long-Fiber-Reinforced Thermoplastics. <i>Macromolecular Research</i> , 2020, 28, 433-444.	1.0	18
33	Residual modulus degradation model for woven fabric composite determined by impulse excitation technique. <i>International Journal of Fatigue</i> , 2020, 133, 105456.	2.8	4
34	Carbon nanotube- and graphene-reinforced multiphase polymeric composites: review on their properties and applications. <i>Journal of Materials Science</i> , 2020, 55, 2682-2724.	1.7	207
35	Design and manufacture of automotive composite front bumper assemble component considering interfacial bond characteristics between over-molded chopped glass fiber polypropylene and continuous glass fiber polypropylene composite. <i>Composite Structures</i> , 2020, 236, 111849.	3.1	28
36	Impact and damage behaviour of FRP-metal hybrid laminates made by the reinforcement of glass fibers on 22MnB5 metal surface. <i>Composites Science and Technology</i> , 2020, 187, 107949.	3.8	18
37	The effect of opposing notch geometry on the tensile strength of adhesively bonded single-lap joints. <i>Engineering Computations</i> , 2020, 37, 2895-2911.	0.7	2

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38	Recent advancements of plant-based natural fiber-reinforced composites and their applications. Composites Part B: Engineering, 2020, 200, 108254.	5.9	323
39	The structural response of the thermoplastic composite joint subjected to out-of-plane loading. International Journal of Impact Engineering, 2020, 145, 103691.	2.4	8
40	Effects of carbon nanofibers on carbon fiber reinforced thermoplastics made with in situ polymerizable polyamide 6. Composites Part A: Applied Science and Manufacturing, 2020, 138, 106051.	3.8	12
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43	Effect of surface post-oxidation of epoxy-sized carbon fibre on interlaminar shear strength of the polyamide 66 composites. Composite Interfaces, 0, , 1-22.	1.3	2
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49	Fracture strain of composite with nonuniformly distributed reinforcing fibers. Journal of Rheology, 2020, 64, 933-939.	1.3	1
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51	The influence of fiber orientation and geometry-induced strain concentration on the fatigue life of short carbon fibers reinforced polyamide-6. Materials and Design, 2020, 190, 108569.	3.3	24
52	Continuous manufacturing of CFRP sheets by rolling for rapid fabrication of long CFRP products. Composites Part B: Engineering, 2020, 189, 107896.	5.9	11
53	Delamination behavior and energy release rate evaluation of CFRP/SPCC hybrid laminates under ENF test: Corrected with residual thermal stresses. Composite Structures, 2020, 236, 111890.	3.1	22
54	Application of Artificial Neural Networks to predict fibre orientation in long fibre compression moulded composite materials. Composites Science and Technology, 2020, 190, 108034.	3.8	44
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57	Study of the surface quality of carbon fiber reinforced thermoplastic matrix composite (CFRTP) machined by abrasive water jet (AWJM). <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 3299-3313.	1.5	32
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64	2D electrical resistance (ER) mapping to Detect damage for carbon fiber reinforced polyamide composites under tensile and flexure loading. <i>Composites Science and Technology</i> , 2021, 201, 108480.	3.8	9
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73	The Determination of Quantity of Unreacted Components in <i>In-situ</i> Polymerized Carbon Fiber Reinforced Polyamide 6 Composites. <i>Journal of Textile Engineering</i> , 2021, 67, 33-40.	0.5	1
74	Mechanical properties and foaming behavior of polypropylene/elastomer/recycled carbon fiber composites. <i>Polymer Composites</i> , 2021, 42, 3482-3492.	2.3	20

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76	Current Advances In The Nanofiber (NF) Based Polymer Composites. <i>Turkish Journal of Computer and Mathematics Education</i> , 2021, 12, 07-22.	0.4	1
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83	Recent developments in the manufacturing technologies of composite components and their cost-effectiveness in the automotive industry: A review study. <i>Composite Structures</i> , 2021, 266, 113864.	3.1	92
84	Review: Filament Winding and Automated Fiber Placement with In Situ Consolidation for Fiber Reinforced Thermoplastic Polymer Composites. <i>Polymers</i> , 2021, 13, 1951.	2.0	58
85	Measurement of thermal diffusivity and evaluation of fiber condition of discontinuous fiber CFRP. <i>Infrared Physics and Technology</i> , 2021, 115, 103743.	1.3	8
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157	Mechanical properties of composites manufactured from low twist hybrid yarns made of discontinuous carbon and polyamide 6 fibres. <i>Journal of Thermoplastic Composite Materials</i> , 2023, 36, 3698-3717.	2.6	2
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