Through-thickness stress sensing of a carbon fiber poly electrical resistance measurement

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Citation Report

#	Article	IF	CITATIONS
1	Effect of CFRC layers on the electrical properties and failure mode of RC beams strengthened with CFRC composites. Smart Materials and Structures, 2007, 16, 2056-2062.	3.5	20
2	An Experimental Study of Self-diagnosis of Interlaminar Damage in Carbon-fiber Composites. Journal of Intelligent Material Systems and Structures, 2010, 21, 233-242.	2.5	11
4	Electrical Properties. Engineering Materials and Processes, 2010, , 203-275.	0.4	0
5	Indentation-Damage Visualization in CFRP by Resistive Heating: Analytical Verification of The Inspection of Aircraft Using Its Lightning Protection Systems. Journal of Solid Mechanics and Materials Engineering, 2012, 6, 213-226.	0.5	5
6	Impact-damage visualization in CFRP by resistive heating: Development of a new detection method for indentations caused by impact loads. Composites Part A: Applied Science and Manufacturing, 2012, 43, 53-64.	7.6	40
8	Carbon materials for structural self-sensing, electromagnetic shielding and thermal interfacing. Carbon, 2012, 50, 3342-3353.	10.3	507
9	Piezoresistive response to changes in contributive tunneling film network of carbon nanotube/silicone rubber composite under multi-load/unload. Sensors and Actuators A: Physical, 2013, 189, 45-54.	4.1	51
10	Through-thickness piezoresistivity in a carbon fiber polymer-matrix structural composite for electrical-resistance-based through-thickness strain sensing. Carbon, 2013, 60, 129-138.	10.3	63
11	Piezoresistive effect of a carbon nanotube silicone-matrix composite. Carbon, 2014, 71, 319-331.	10.3	75
12	Potential and prospective implementation of carbon nanotubes on next generation aircraft and space vehicles: A review of current and expected applications in aerospace sciences. Progress in Aerospace Sciences, 2014, 70, 42-68.	12.1	189
13	Self-sensing structural composites in aerospace engineering. , 2016, , 295-331.		3
14	Development of nanoparticle embedded sizing for enhanced structural health monitoring of carbon fiber composites. Proceedings of SPIE, 2017, , .	0.8	2
15	Sensing the stress in steel by capacitance measurement. Sensors and Actuators A: Physical, 2018, 274, 244-251.	4.1	16
16	Capacitance-based stress self-sensing in cement paste without requiring any admixture. Cement and Concrete Composites, 2018, 94, 255-263.	10.7	22
17	Effect of the planar coil and linear arrangements of continuous carbon fiber tow on the electromagnetic interference shielding effectiveness, with comparison of carbon fibers with and without nickel coating. Carbon, 2019, 152, 898-908.	10.3	43
19	A review of multifunctional polymer-matrix structural composites. Composites Part B: Engineering, 2019, 160, 644-660.	12.0	114
20	FEM-aided identification of gauge factors of unidirectional CFRP through multi-point potential measurements. Advanced Composite Materials, 2019, 28, 37-55.	1.9	12
21	Electret behavior of carbon fiber structural composites with carbon and polymer matrices, and its application in self-sensing and self-powering. Carbon, 2020, 160, 361-389.	10.3	31

#	Article	IF	CITATIONS
22	Self-healing and self-sensing smart polymer composites. , 2021, , 307-357.		1
23	Smart Protection of Carbon-Reinforced Composite Materials and CFRP-Metal Joints. , 2021, , 429-449.		1
24	FEM-aided Identification of Gage Factors of Unidirectional CFRP by Multipoint Potential Measurement. Journal of the Japan Society for Composite Materials, 2012, 38, 41-50.	0.2	0
25	Enhanced piezoresistive sensing of fiber-reinforced composites via embedded nanoparticles. , 2019, , .		0
26	Creep evaluation and temperature dependence in self-sensing micro carbon polymer-based composites for further development as an Internet of Things Sensor device. Journal of Composite Materials, 2022, 56, 961-973.	2.4	3
27	A review to elucidate the multi-faceted science of the electrical-resistance-based strain/temperature/damage self-sensing in continuous carbon fiber polymer-matrix structural composites. Journal of Materials Science, 2023, 58, 483-526.	3.7	7
28	High sensitivity self-sensing damage of thick carbon fiber 3D woven angle-interlock composites with oblique current. Composites Science and Technology, 2024, 248, 110472.	7.8	0
29	Anisotropy characteristics of electrical conductivity and compressive strength of 3D carbon fiber/epoxy angle-interlock woven composites. Composites Communications, 2024, 47, 101879.	6.3	ο

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