

Damage detection using self-sensing concepts

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Aeronautics and astronautics: Recent progress and future trends. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2009, 223, 2767-2820.	1.1	30
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.	1.4	11
3	On the electrical resistance of carbon fiber polymer matrix composites. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1719-1727.	3.8	53
4	Electrical Properties. Engineering Materials and Processes, 2010, , 203-275.	0.2	0
5	Experimental study of high electric current effects in carbon/epoxy composites. Composites Science and Technology, 2011, 71, 1659-1664.	3.8	23
6	On the fatigue life prediction of CFRP laminates using the Electrical Resistance Change method. Composites Science and Technology, 2011, 71, 630-642.	3.8	107
7	Optical self-sensing of impact damage in composites using E-glass cloth. Smart Materials and Structures, 2012, 21, 045021.	1.8	10
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10	Short beam interlaminar shear behavior and electrical resistance-based damage self-sensing of woven carbon/epoxy composite laminates in a cryogenic environment. Journal of Composite Materials, 2014, 48, 119-128.	1.2	23
11	Monitoring the damage evolution of flexural fatigue in unidirectional carbon/carbon composites by electrical resistance change method. International Journal of Fatigue, 2014, 68, 248-252.	2.8	13
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14	In-situ damage sensing of woven composites using carbon nanotube conductive networks. Composites Part A: Applied Science and Manufacturing, 2015, 77, 229-236.	3.8	15
15	Self-Sensing of Damage Progression in Unidirectional Multiscale Hierarchical Composites Subjected to Cyclic Tensile Loading. Sensors, 2016, 16, 400.	2.1	29
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17	Self-sensing structural composites in aerospace engineering. , 2016, , 295-331.		3
18	Electrical thermal heating and piezoresistive characteristics of hybrid CuOâ€“woven carbon fiber/vinyl ester composite laminates. Composites Part A: Applied Science and Manufacturing, 2016, 85, 103-112.	3.8	26
19	Experimental investigation of fatigue destruction of CFRP using the electrical resistance change method. Measurement: Journal of the International Measurement Confederation, 2016, 87, 236-245.	2.5	19

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20	Sensory carbon fiber based textile-reinforced concrete for smart structures. Journal of Intelligent Material Systems and Structures, 2016, 27, 469-489.	1.4	51
21	Combined acoustic emission and multiple lead potential drop measurements in detailed examination of crack initiation and growth during interlaminar testing of ceramic matrix composites. Composites Part A: Applied Science and Manufacturing, 2017, 97, 93-99.	3.8	15
22	A neural network modeling and sliding mode control of self-sensing ionic polymer-metal composite actuator. Journal of Intelligent Material Systems and Structures, 2017, 28, 3163-3174.	1.4	3
23	Electrospun Polymeric Smart Materials for Tissue Engineering Applications. , 2017, , 251-282.		2
24	Micro and macro crack sensing in TRC beam under cyclic loading. Journal of Mechanics of Materials and Structures, 2017, 12, 579-601.	0.4	19
25	Self-sensing damage in <sc>CNT</sc> infused epoxy panels with and without glass-fibre reinforcement. Strain, 2018, 54, e12268.	1.4	5
26	Self-sensing and mechanical performance of CNT/GNP/UHMWPE biocompatible nanocomposites. Journal of Materials Science, 2018, 53, 7939-7952.	1.7	49
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35	Multifunctional application of carbon fiber reinforced polymer composites: Electrical properties of the reinforcing carbon fibers – A short review. Composites Part B: Engineering, 2019, 162, 331-343.	5.9	282
36	The role of electrical anisotropy and effective conducting thickness in understanding and interpreting static resistance measurements in CFRP composite laminates. Journal of Composite Materials, 2020, 54, 867-882.	1.2	8
37	Blood Pressure Sensors: Materials, Fabrication Methods, Performance Evaluations and Future Perspectives. Sensors, 2020, 20, 4484.	2.1	27
38	Self-healing and self-sensing smart polymer composites. , 2021, , 307-357.		1

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39	A Damage Sensing Method of Carbon Fiber Reinforced Polymer Composites Via Multi-frequency Electrical Impedance Fusion. <i>Experimental Mechanics</i> , 2022, 62, 35-48.	1.1	5
40	Smart Protection of Carbon-Reinforced Composite Materials and CFRP-Metal Joints. , 2021, , 429-449.		1
41	In Pursuit of Bio-inspired Triboluminescent Multifunctional Composites. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 55-65.	0.3	3
42	Self-Sensing of Flexural Damage in Large-Scale Steel-Reinforced Mortar Beams. <i>ACI Materials Journal</i> , 2019, 116, .	0.3	15
43	Electrical Impedance Spectroscopy for Structural Health Monitoring. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2015, , 1-11.	0.3	1
48	Real-time Self-damage Sensing of CFRP Laminates under Static Three Points Bending. , 2022, , .		0
49	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. <i>Journal of Materials Science</i> , 2023, 58, 483-526.	1.7	7