

Xoan Fernández Sánchez-Romate

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Critical parameters of carbon nanotube reinforced composites for structural health monitoring applications: Empirical results versus theoretical predictions. <i>Composites Science and Technology</i> , 2019, 171, 44-53.	3.8	67
2	A proof of concept of a structural supercapacitor made of graphene coated woven carbon fibers: EIS study and mechanical performance. <i>Electrochimica Acta</i> , 2021, 370, 137746.	2.6	42
3	Mechanical and Strain-Sensing Capabilities of Carbon Nanotube Reinforced Composites by Digital Light Processing 3D Printing Technology. <i>Polymers</i> , 2020, 12, 975.	2.0	41
4	Novel approach to percolation threshold on electrical conductivity of carbon nanotube reinforced nanocomposites. <i>RSC Advances</i> , 2016, 6, 43418-43428.	1.7	37
5	Effect of graphene nanoplatelets thickness on strain sensitivity of nanocomposites: A deeper theoretical to experimental analysis. <i>Composites Science and Technology</i> , 2019, 181, 107697.	3.8	33
6	The addition of graphene nanoplatelets into epoxy/polycaprolactone composites for autonomous self-healing activation by Joule's heating effect. <i>Composites Science and Technology</i> , 2021, 213, 108950.	3.8	23
7	Highly sensitive strain gauges with carbon nanotubes: From bulk nanocomposites to multifunctional coatings for damage sensing. <i>Applied Surface Science</i> , 2017, 424, 213-221.	3.1	20
8	Carbon nanotubes to enable autonomous and volumetric self-heating in epoxy/polycaprolactone blends. <i>Composites Science and Technology</i> , 2020, 199, 108321.	3.8	20
9	Highly Multifunctional GNP/Epoxy Nanocomposites: From Strain-Sensing to Joule Heating Applications. <i>Nanomaterials</i> , 2020, 10, 2431.	1.9	20
10	Carbon Nanotube-Doped Adhesive Films for Detecting Crack Propagation on Bonded Joints: A Deeper Understanding of Anomalous Behaviors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43267-43274.	4.0	18
11	Development of bonded joints using novel CNT doped adhesive films: Mechanical and electrical properties. <i>International Journal of Adhesion and Adhesives</i> , 2018, 86, 98-104.	1.4	18
12	Fatigue crack growth identification in bonded joints by using carbon nanotube doped adhesive films. <i>Smart Materials and Structures</i> , 2020, 29, 035032.	1.8	18
13	Ultrasensitive and highly stretchable sensors for human motion monitoring made of graphene reinforced polydimethylsiloxane: Electromechanical and complex impedance sensing performance. <i>Carbon</i> , 2022, 192, 234-248.	5.4	18
14	Mechanical and strain sensing properties of carbon nanotube reinforced epoxy/poly(caprolactone) blends. <i>Polymer</i> , 2020, 190, 122236.	1.8	17
15	An approach using highly sensitive carbon nanotube adhesive films for crack growth detection under flexural load in composite structures. <i>Composite Structures</i> , 2019, 224, 111087.	3.1	16
16	3D printed anti-icing and de-icing system based on CNT/GNP doped epoxy composites with self-curing and structural health monitoring capabilities. <i>Smart Materials and Structures</i> , 2021, 30, 025016.	1.8	16
17	Structural health monitoring of a CFRP structural bonded repair by using a carbon nanotube modified adhesive film. <i>Composite Structures</i> , 2021, 270, 114091.	3.1	16
18	Hydrothermal ageing on self-sensing bonded joints with novel carbon nanomaterial reinforced adhesive films. <i>Polymer Degradation and Stability</i> , 2020, 177, 109170.	2.7	12

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19	The role of graphene interactions and geometry on thermal and electrical properties of epoxy nanocomposites: A theoretical to experimental approach. <i>Polymer Testing</i> , 2020, 90, 106638.	2.3	12
20	Complex Geometry Strain Sensors Based on 3D Printed Nanocomposites: Spring, Three-Column Device and Footstep-Sensing Platform. <i>Nanomaterials</i> , 2021, 11, 1106.	1.9	12
21	Flexible Wearable Sensors Based in Carbon Nanotubes Reinforced Poly(Ethylene Glycol) Diglycidyl Ether (PEGDGE): Analysis of Strain Sensitivity and Proof of Concept. <i>Chemosensors</i> , 2021, 9, 158.	1.8	12
22	Wearable Sensors Based on Graphene Nanoplatelets Reinforced Polydimethylsiloxane for Human Motion Monitoring: Analysis of Crack Propagation and Cycling Load Monitoring. <i>Chemosensors</i> , 2022, 10, 75.	1.8	12
23	Exploring the mechanical and sensing capabilities of multi-material bonded joints with carbon nanotube-doped adhesive films. <i>Composite Structures</i> , 2019, 229, 111477.	3.1	11
24	Sensitive response of GNP/epoxy coatings as strain sensors: analysis of tensile-compressive and reversible cyclic behavior. <i>Smart Materials and Structures</i> , 2020, 29, 065012.	1.8	10
25	Monitoring crack propagation in skin-stringer elements using carbon nanotube doped adhesive films: Influence of defects and manufacturing process. <i>Composites Science and Technology</i> , 2020, 193, 108147.	3.8	9
26	Electrical Properties and Strain Sensing Mechanisms in Hybrid Graphene Nanoplatelet/Carbon Nanotube Nanocomposites. <i>Sensors</i> , 2021, 21, 5530.	2.1	9
27	Crack sensing mechanisms of Mode-II and skin-stringer joints between dissimilar materials by using carbon nanotubes. <i>Composites Science and Technology</i> , 2021, 201, 108553.	3.8	8
28	4D-Printed Resins and Nanocomposites Thermally Stimulated by Conventional Heating and IR Radiation. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5207-5215.	2.0	8
29	Easy-Scalable Flexible Sensors Made of Carbon Nanotube-Doped Polydimethylsiloxane: Analysis of Manufacturing Conditions and Proof of Concept. <i>Sensors</i> , 2022, 22, 5147.	2.1	8
30	Influence of Morphology on the Healing Mechanism of PCL/Epoxy Blends. <i>Materials</i> , 2020, 13, 1941.	1.3	7
31	Multifunctional coatings based on GNP/epoxy systems: Strain sensing mechanisms and Joule's heating capabilities for de-icing applications. <i>Progress in Organic Coatings</i> , 2022, 167, 106829.	1.9	6
32	Carbon Nanotube Reinforced Poly(μ -caprolactone)/Epoxy Blends for Superior Mechanical and Self-Sensing Performance in Multiscale Glass Fiber Composites. <i>Polymers</i> , 2021, 13, 3159.	2.0	5
33	Novel approach for damage detection in multiscale CNT-reinforced composites via wireless Joule heating monitoring. <i>Composites Science and Technology</i> , 2022, 227, 109614.	3.8	5
34	Directional Response of Randomly Dispersed Carbon Nanotube Strain Sensors. <i>Sensors</i> , 2020, 20, 2980.	2.1	4
35	Mechanical and Crack-Sensing Capabilities of Mode-I Joints with Carbon-Nanotube-Reinforced Adhesive Films under Hydrothermal Aging Conditions. <i>Nanomaterials</i> , 2020, 10, 2290.	1.9	3
36	Electrical Monitoring as a Novel Route to Understanding the Aging Mechanisms of Carbon Nanotube-Doped Adhesive Film Joints. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2566.	1.3	2

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37	Analysis of strain sensitivity under flexural load of 3D printed carbon nanotube-doped epoxy circuits. Nanotechnology, 2021, 32, 185501.	1.3	2
38	Smart Coatings with Carbon Nanoparticles. , 2020, , .		1
39	Self-sensing of CNT-Doped GFRP Panels During Impact and Compression After Impact Tests. Lecture Notes in Civil Engineering, 2021, , 527-536.	0.3	1
40	On the Dynamic Acquisition of Electrical Signals for Structural Health Monitoring of Carbon Nanotube Doped Composites. , 0, , .		1
41	Monitoring of impact dynamics on carbon nanotube multiscale glass fiber composites by means of electrical measurements. , 2017, , .		0
42	Electrical Properties of Carbon Nanotubes. , 2021, , 1-35.		0