

Xoan Fernandez Sanchez-Romate

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ext. papers

459

ext. citations

5.2

avg, IF

4.1

L-index

#	Paper	IF	Citations
38	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	8.6	45
37	Novel approach to percolation threshold on electrical conductivity of carbon nanotube reinforced nanocomposites. <i>RSC Advances</i> , 2016 , 6, 43418-43428	3.7	25
36	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	8.6	21
35	Mechanical and Strain-Sensing Capabilities of Carbon Nanotube Reinforced Composites by Digital Light Processing 3D Printing Technology. <i>Polymers</i> , 2020 , 12,	4.5	19
34	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	8.5	16
33	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	3.4	16
32	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	6.7	14
31	Carbon nanotubes to enable autonomous and volumetric self-heating in epoxy/polycaprolactone blends. <i>Composites Science and Technology</i> , 2020 , 199, 108321	8.6	14
30	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	5.3	12
29	Highly Multifunctional GNP/Epoxy Nanocomposites: From Strain-Sensing to Joule Heating Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	11
28	Fatigue crack growth identification in bonded joints by using carbon nanotube doped adhesive films. <i>Smart Materials and Structures</i> , 2020 , 29, 035032	3.4	11
27	Mechanical and strain sensing properties of carbon nanotube reinforced epoxy/poly(caprolactone) blends. <i>Polymer</i> , 2020 , 190, 122236	3.9	10
26	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	6.7	10
25	Exploring the mechanical and sensing capabilities of multi-material bonded joints with carbon nanotube-doped adhesive films. <i>Composite Structures</i> , 2019 , 229, 111477	5.3	9
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	3.4	8
23	The addition of graphene nanoplatelets into epoxy/polycaprolactone composites for autonomous self-healing activation by Joule heating effect. <i>Composites Science and Technology</i> , 2021 , 213, 108950	8.6	8
22	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	8.6	6

21	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	4.5	6
20	Complex Geometry Strain Sensors Based on 3D Printed Nanocomposites: Spring, Three-Column Device and Footstep-Sensing Platform. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
19	Hydrothermal ageing on self-sensing bonded joints with novel carbon nanomaterial reinforced adhesive films. <i>Polymer Degradation and Stability</i> , 2020 , 177, 109170	4.7	4
18	Directional Response of Randomly Dispersed Carbon Nanotube Strain Sensors. <i>Sensors</i> , 2020 , 20,	3.8	4
17	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	4	4
16	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	8.6	4
15	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	3.4	4
14	Influence of Morphology on the Healing Mechanism of PCL/Epoxy Blends. <i>Materials</i> , 2020 , 13,	3.5	3
13	Mechanical and Crack-Sensing Capabilities of Mode-I Joints with Carbon-Nanotube-Reinforced Adhesive Films under Hydrothermal Aging Conditions. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
12	Electrical Properties and Strain Sensing Mechanisms in Hybrid Graphene Nanoplatelet/Carbon Nanotube Nanocomposites. <i>Sensors</i> , 2021 , 21,	3.8	3
11	Structural health monitoring of a CFRP structural bonded repair by using a carbon nanotube modified adhesive film. <i>Composite Structures</i> , 2021 , 270, 114091	5.3	3
10	4D-Printed Resins and Nanocomposites Thermally Stimulated by Conventional Heating and IR Radiation. <i>ACS Applied Polymer Materials</i> ,	4.3	3
9	Carbon Nanotube Reinforced Poly(E-caprolactone)/Epoxy Blends for Superior Mechanical and Self-Sensing Performance in Multiscale Glass Fiber Composites. <i>Polymers</i> , 2021 , 13,	4.5	2
8	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	10.4	2
7	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	2.6	1
6	Smart Coatings with Carbon Nanoparticles 2020 ,		1
5	Self-sensing of CNT-Doped GFRP Panels During Impact and Compression After Impact Tests. <i>Lecture Notes in Civil Engineering</i> , 2021 , 527-536	0.3	1
4	Multifunctional coatings based on GNP/epoxy systems: Strain sensing mechanisms and Joule heating capabilities for de-icing applications. <i>Progress in Organic Coatings</i> , 2022 , 167, 106829	4.8	1

- 3 Analysis of strain sensitivity under flexural load of 3D printed carbon nanotube-doped epoxy circuits. *Nanotechnology*, **2021**, 32, 185501 3-4 ○
- 2 Wearable Sensors Based on Graphene Nanoplatelets Reinforced Polydimethylsiloxane for Human Motion Monitoring: Analysis of Crack Propagation and Cycling Load Monitoring. *Chemosensors*, **2022**, 10, 75 4 ○
- 1 Electrical Properties of Carbon Nanotubes **2021**, 1-35