

Alberto A Jimnez-Surez

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77
papers

1,432
citations

20
h-index

35
g-index

83
ext. papers

1,758
ext. citations

5.7
avg, IF

5.09
L-index

#	Paper	IF	Citations
77	Advantages and disadvantages of the addition of graphene nanoplatelets to epoxy resins. <i>European Polymer Journal</i> , 2014 , 61, 206-214	5.2	130
76	Effect of the carbon nanotube functionalization on flexural properties of multiscale carbon fiber/epoxy composites manufactured by VARIM. <i>Composites Part B: Engineering</i> , 2013 , 45, 1613-1619	10	112
75	In situ processing of epoxy composites reinforced with graphene nanoplatelets. <i>Composites Science and Technology</i> , 2013 , 86, 185-191	8.6	90
74	Morphological changes on graphene nanoplatelets induced during dispersion into an epoxy resin by different methods. <i>Composites Part B: Engineering</i> , 2015 , 72, 199-205	10	76
73	Strain monitoring mechanisms of sensors based on the addition of graphene nanoplatelets into an epoxy matrix. <i>Composites Science and Technology</i> , 2016 , 123, 65-70	8.6	71
72	Graphene nanoplatelets thickness and lateral size influence on the morphology and behavior of epoxy composites. <i>European Polymer Journal</i> , 2014 , 53, 292-301	5.2	63
71	Thermal conductivity and lap shear strength of GNP/epoxy nanocomposites adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2016 , 68, 407-410	3.4	51
70	Characterization of carbon nanofiber/epoxy nanocomposites by the nanoindentation technique. <i>Composites Part B: Engineering</i> , 2011 , 42, 638-644	10	51
69	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
68	Graphene nanoplatelets coated glass fibre fabrics as strain sensors. <i>Composites Science and Technology</i> , 2017 , 146, 59-64	8.6	44
67	Electrically conductive functionalized-GNP/epoxy based composites: From nanocomposite to multiscale glass fibre composite material. <i>Composites Part B: Engineering</i> , 2016 , 98, 49-55	10	41
66	Influence of Thickness and Lateral Size of Graphene Nanoplatelets on Water Uptake in Epoxy/Graphene Nanocomposites. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1550	2.6	34
65	The influence of mechanical dispersion of MWCNT in epoxy matrix by calendaring method: Batch method versus time controlled. <i>Composites Part B: Engineering</i> , 2013 , 48, 88-94	10	30
64	Effect of type, percentage and dispersion method of multi-walled carbon nanotubes on tribological properties of epoxy composites. <i>Wear</i> , 2015 , 324-325, 100-108	3.5	29
63	Influence of the functionalization of carbon nanotubes on calendaring dispersion effectiveness in a low viscosity resin for VARIM processes. <i>Composites Part B: Engineering</i> , 2012 , 43, 3482-3490	10	27
62	Novel approach to percolation threshold on electrical conductivity of carbon nanotube reinforced nanocomposites. <i>RSC Advances</i> , 2016 , 6, 43418-43428	3.7	25
61	Joule effect self-heating of epoxy composites reinforced with graphitic nanofillers. <i>Journal of Polymer Research</i> , 2016 , 23, 1	2.7	24

60	Sensitivity, influence of the strain rate and reversibility of GNPs based multiscale composite materials for high sensitive strain sensors. <i>Composites Science and Technology</i> , 2018 , 155, 100-107	8.6	24
59	Strain and crack growth sensing capability of SWCNT reinforced epoxy in tensile and mode I fracture tests. <i>Composites Science and Technology</i> , 2020 , 186, 107918	8.6	22
58	Epoxy Adhesives Modified with Graphene for Thermal Interface Materials 2014 , 90, 835-847		20
57	High sensitive damage sensors based on the use of functionalized graphene nanoplatelets coated fabrics as reinforcement in multiscale composite materials. <i>Composites Part B: Engineering</i> , 2018 , 149, 31-37	10	20
56	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
55	Dispersion of carbon nanofibres in a low viscosity resin by calendaring process to manufacture multiscale composites by VARIM. <i>Composites Part B: Engineering</i> , 2012 , 43, 3104-3113	10	18
54	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	9.5	16
53	Oxidation and tribological behaviour of an Fe-based MMC reinforced with TiCN particles. <i>International Journal of Refractory Metals and Hard Materials</i> , 2009 , 27, 360-366	4.1	16
52	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
51	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
50	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
49	Numerical study of static and dynamic fracture behaviours of neat epoxy resin. <i>Mechanics of Materials</i> , 2020 , 140, 103214	3.3	14
48	3D printed epoxy-CNTs/GNPs conductive inks with application in anti-icing and de-icing systems. <i>European Polymer Journal</i> , 2020 , 141, 110090	5.2	13
47	Reversible phenomena and failure localization in self-monitoring GNP/epoxy nanocomposites. <i>Composite Structures</i> , 2016 , 136, 101-105	5.3	13
46	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
45	Use of carbon nanotubes for strain and damage sensing of epoxy-based composites. <i>International Journal of Smart and Nano Materials</i> , 2012 , 3, 152-161	3.6	12
44	DLP 4D-Printing of Remotely, Modularly, and Selectively Controllable Shape Memory Polymer Nanocomposites Embedding Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2106774	15.6	12
43	Highly Multifunctional GNP/Epoxy Nanocomposites: From Strain-Sensing to Joule Heating Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	11

42	Reclamation of carbon fibers and added-value gases in a pyrolysis-based composites recycling process. <i>Journal of Cleaner Production</i> , 2020 , 273, 123173	10.3	11
41	Mechanical and strain sensing properties of carbon nanotube reinforced epoxy/poly(caprolactone) blends. <i>Polymer</i> , 2020 , 190, 122236	3.9	10
40	An experimental and numerical investigation of highly strong and tough epoxy based nanocomposite by addition of MWCNTs: Tensile and mode I fracture tests. <i>Composite Structures</i> , 2020 , 252, 112692	5.3	10
39	Effect of filtration in functionalized and non-functionalized CNTs and surface modification of fibers as an effective alternative approach. <i>Composites Part B: Engineering</i> , 2016 , 94, 286-291	10	10
38	Piezoresistive characterization of epoxy based nanocomposites loaded with SWCNTs-DWCNTs in tensile and fracture tests. <i>Polymer Composites</i> , 2020 , 41, 2598-2609	3	9
37	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
36	Evaluation of sensitivity for detecting different failure modes of epoxy matrix composites doped with graphene nanoparticles. <i>Composite Structures</i> , 2019 , 225, 111167	5.3	8
35	Synergistic effects of double-walled carbon nanotubes and nanoclays on mechanical, electrical and piezoresistive properties of epoxy based nanocomposites. <i>Composites Science and Technology</i> , 2020 , 200, 108459	8.6	8
34	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
33	Study of efficiency of different commercial carbon nanotubes on manufacturing of epoxy matrix composites. <i>Journal of Composite Materials</i> , 2014 , 48, 3169-3177	2.7	8
32	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
31	A comparative study of the incorporation effect of SWCNT-OH and DWCNT with varied microstructural defects on tensile and impact strengths of epoxy based nanocomposite. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	7
30	Effective addition of nanoclay in enhancement of mechanical and electromechanical properties of SWCNT reinforced epoxy: Strain sensing and crack-induced piezoresistivity. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 110, 102831	3.7	6
29	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
28	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
27	Coupled health monitoring system for CNT-doped self-sensing composites. <i>Carbon</i> , 2020 , 166, 193-204	10.4	6
26	Printable self-heating coatings based on the use of carbon nanoreinforcements. <i>Polymer Composites</i> , 2020 , 41, 271-278	3	6
25	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

24	Optimum Dispersion Technique of Carbon Nanotubes in Epoxy Resin as a Function of the Desired Behaviour. <i>Journal of Nano Research</i> , 2013 , 26, 177-186	1	4
23	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
22	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	2.4	4
21	Influence of Morphology on the Healing Mechanism of PCL/Epoxy Blends. <i>Materials</i> , 2020 , 13,	3.5	3
20	High mobility of carbon nanotubes into thermosetting matrix. <i>European Polymer Journal</i> , 2016 , 74, 209-217	2.1	3
19	Tribological Properties of Different Types of Graphene Nanoplatelets as Additives for the Epoxy Resin. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4363	2.6	3
18	Influence of Manufacturing Process in Structural Health Monitoring and Mechanical Behaviour of CNT Reinforced CFRP and Ti6Al4V Multi-Material Joints. <i>Polymers</i> , 2021 , 13,	4.5	3
17	Electrical Properties and Strain Sensing Mechanisms in Hybrid Graphene Nanoplatelet/Carbon Nanotube Nanocomposites. <i>Sensors</i> , 2021 , 21,	3.8	3
16	4D-Printed Resins and Nanocomposites Thermally Stimulated by Conventional Heating and IR Radiation. <i>ACS Applied Polymer Materials</i> ,	4.3	3
15	Graphene nanoplatelets electrical networks as highly efficient self-heating materials for glass fiber fabrics. <i>Journal of Industrial Textiles</i> , 2020 , 152808372093148	1.6	2
14	Strain Sensing Based on Multiscale Composite Materials Reinforced with Graphene Nanoplatelets. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	2
13	GNPs Reinforced Epoxy Nanocomposites Used as Thermal Interface Materials. <i>Journal of Nano Research</i> , 2016 , 38, 18-25	1	2
12	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
11	Quality assessment and structural health monitoring of CNT reinforced CFRP and Ti6Al4V multi-material joints. <i>Materials and Design</i> , 2021 , 210, 110118	8.1	2
10	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
9	Electrothermally triggered selective shape memory capabilities of CNT doped nanocomposites by Digital Light Processing. <i>Composites Science and Technology</i> , 2022 , 218, 109185	8.6	1
8	Sequential and selective shape memory by remote electrical control. <i>European Polymer Journal</i> , 2022 , 164, 110888	5.2	1
7	Secondary Raw Materials from Residual Carbon Fiber-Reinforced Composites by An Upgraded Pyrolysis Process. <i>Polymers</i> , 2021 , 13,	4.5	1

6	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
5	Assessment of Manufacturing Parameters for New 3D-Printed Heating Circuits Based on CNT-Doped Nanocomposites Processed by UV-Assisted Direct Write. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7534	2.6	1
4	Electroactive shaping and shape memory of sequential dual-cured off-stoichiometric epoxy/CNT composites. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 2970-2970	5.5	1
3	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
2	Electrical Properties of Carbon Nanotubes 2021 , 1-35		
1	Enhanced tensile strength, fracture toughness and piezoresistive performances of CNT based epoxy nanocomposites using toroidal stirring assisted ultra-sonication. <i>Mechanics of Advanced Materials and Structures</i> , 1-10	1.8	