

Alberto A JimÃ©nez-SuÃ¡rez

List of Publications by Year in descending order

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83
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83
docs citations

83
times ranked

1869
citing authors

#	ARTICLE	IF	CITATIONS
1	Advantages and disadvantages of the addition of graphene nanoplatelets to epoxy resins. <i>European Polymer Journal</i> , 2014, 61, 206-214.	2.6	176
2	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.	5.9	139
3	In situ processing of epoxy composites reinforced with graphene nanoplatelets. <i>Composites Science and Technology</i> , 2013, 86, 185-191.	3.8	109
4	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.	3.8	97
5	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.	5.9	96
6	Graphene nanoplatelets thickness and lateral size influence on the morphology and behavior of epoxy composites. <i>European Polymer Journal</i> , 2014, 53, 292-301.	2.6	79
7	Thermal conductivity and lap shear strength of GNP/epoxy nanocomposites adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2016, 68, 407-410.	1.4	68
8	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
9	Characterization of carbon nanofiber/epoxy nanocomposites by the nanoindentation technique. <i>Composites Part B: Engineering</i> , 2011, 42, 638-644.	5.9	62
10	Graphene nanoplatelets coated glass fibre fabrics as strain sensors. <i>Composites Science and Technology</i> , 2017, 146, 59-64.	3.8	57
11	DLP 4D Printing of Remotely, Modularly, and Selectively Controllable Shape Memory Polymer Nanocomposites Embedding Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2021, 31, 2106774.	7.8	56
12	Influence of Thickness and Lateral Size of Graphene Nanoplatelets on Water Uptake in Epoxy/Graphene Nanocomposites. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1550.	1.3	51
13	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.	5.9	49
14	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.	1.5	42
15	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
16	Novel approach to percolation threshold on electrical conductivity of carbon nanotube reinforced nanocomposites. <i>RSC Advances</i> , 2016, 6, 43418-43428.	1.7	37
17	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.	5.9	36
18	Joule effect self-heating of epoxy composites reinforced with graphitic nanofillers. <i>Journal of Polymer Research</i> , 2016, 23, 1.	1.2	36

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19	The influence of mechanical dispersion of MWCNT in epoxy matrix by calendering method: Batch method versus time controlled. <i>Composites Part B: Engineering</i> , 2013, 48, 88-94.	5.9	34
20	Graphene Nanoplatelets. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1753.	1.3	34
21	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.	3.8	32
22	Epoxy Adhesives Modified with Graphene for Thermal Interface Materials. <i>Journal of Adhesion</i> , 2014, 90, 835-847.	1.8	31
23	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.	3.8	29
24	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.	5.9	27
25	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.	3.1	25
26	Reclamation of carbon fibers and added-value gases in a pyrolysis-based composites recycling process. <i>Journal of Cleaner Production</i> , 2020, 273, 123173.	4.6	23
27	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
28	Dispersion of carbon nanofibres in a low viscosity resin by calendering process to manufacture multiscale composites by VARIM. <i>Composites Part B: Engineering</i> , 2012, 43, 3104-3113.	5.9	22
29	3D printed epoxy-CNTs/GNPs conductive inks with application in anti-icing and de-icing systems. <i>European Polymer Journal</i> , 2020, 141, 110090.	2.6	22
30	Reversible phenomena and failure localization in self-monitoring GNP/epoxy nanocomposites. <i>Composite Structures</i> , 2016, 136, 101-105.	3.1	21
31	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
32	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
33	Highly Multifunctional GNP/Epoxy Nanocomposites: From Strain-Sensing to Joule Heating Applications. <i>Nanomaterials</i> , 2020, 10, 2431.	1.9	20
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.	4.0	18
35	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
36	Numerical study of static and dynamic fracture behaviours of neat epoxy resin. <i>Mechanics of Materials</i> , 2020, 140, 103214.	1.7	18

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37	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.	1.7	17
38	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.	3.8	17
39	Mechanical and strain sensing properties of carbon nanotube reinforced epoxy/poly(caprolactone) blends. <i>Polymer</i> , 2020, 190, 122236.	1.8	17
40	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
41	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
42	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.	2.0	14
43	Piezoresistive characterization of epoxy based nanocomposites loaded with SWCNTs and DWCNTs in tensile and fracture tests. <i>Polymer Composites</i> , 2020, 41, 2598-2609.	2.3	14
44	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.	5.9	13
45	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
46	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
47	Coupled health monitoring system for CNT-doped self-sensing composites. <i>Carbon</i> , 2020, 166, 193-204.	5.4	12
48	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
49	Hardener Isomerism and Content of Dynamic Disulfide Bond Effect on Chemical Recycling of Epoxy Networks. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5068-5076.	2.0	11
50	Evaluation of sensitivity for detecting different failure modes of epoxy matrix composites doped with graphene nanoparticles. <i>Composite Structures</i> , 2019, 225, 111167.	3.1	10
51	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
52	Quality assessment and structural health monitoring of CNT reinforced CFRP and Ti6Al4V multi-material joints. <i>Materials and Design</i> , 2021, 210, 110118.	3.3	10
53	Printable self-heating coatings based on the use of carbon nanoreinforcements. <i>Polymer Composites</i> , 2020, 41, 271-278.	2.3	9
54	Tribological Properties of Different Types of Graphene Nanoplatelets as Additives for the Epoxy Resin. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4363.	1.3	9

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55	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
56	Electrical Properties and Strain Sensing Mechanisms in Hybrid Graphene Nanoplatelet/Carbon Nanotube Nanocomposites. <i>Sensors</i> , 2021, 21, 5530.	2.1	9
57	Study of efficiency of different commercial carbon nanotubes on manufacturing of epoxy matrix composites. <i>Journal of Composite Materials</i> , 2014, 48, 3169-3177.	1.2	8
58	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.	2.1	8
59	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
60	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
61	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.	1.2	7
62	Influence of Morphology on the Healing Mechanism of PCL/Epoxy Blends. <i>Materials</i> , 2020, 13, 1941.	1.3	7
63	Secondary Raw Materials from Residual Carbon Fiber-Reinforced Composites by An Upgraded Pyrolysis Process. <i>Polymers</i> , 2021, 13, 3408.	2.0	7
64	Sequential and selective shape memory by remote electrical control. <i>European Polymer Journal</i> , 2022, 164, 110888.	2.6	7
65	Electroactive shaping and shape memory of sequential dual-cured off-stoichiometric epoxy/CNT composites. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2970-2981.	2.6	6
66	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
67	Optimum Dispersion Technique of Carbon Nanotubes in Epoxy Resin as a Function of the Desired Behaviour. <i>Journal of Nano Research</i> , 0, 26, 177-186.	0.8	5
68	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
69	Electrothermally triggered selective shape memory capabilities of CNT doped nanocomposites by Digital Light Processing. <i>Composites Science and Technology</i> , 2022, 218, 109185.	3.8	5
70	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
71	GNPs Reinforced Epoxy Nanocomposites Used as Thermal Interface Materials. <i>Journal of Nano Research</i> , 2016, 38, 18-25.	0.8	4
72	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, 2488.	2.0	4

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73	Assessment of Manufacturing Parameters for New 3D-Printed Heating Circuits Based on CNT-Doped Nanocomposites Processed by UV-Assisted Direct Write. Applied Sciences (Switzerland), 2021, 11, 7534.	1.3	4
74	High mobility of carbon nanotubes into thermosetting matrix. European Polymer Journal, 2016, 74, 209-217.	2.6	3
75	Strain Sensing Based on Multiscale Composite Materials Reinforced with Graphene Nanoplatelets. Journal of Visualized Experiments, 2016, , .	0.2	2
76	Graphene nanoplatelets electrical networks as highly efficient self-heating materials for glass fiber fabrics. Journal of Industrial Textiles, 2022, 51, 4410S-4423S.	1.1	2
77	Electrical Monitoring as a Novel Route to Understanding the Aging Mechanisms of Carbon Nanotube-Doped Adhesive Film Joints. Applied Sciences (Switzerland), 2020, 10, 2566.	1.3	2
78	A preliminary study on self sensing composite structures with carbon nanotubes. , 2017, , .		1
79	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
80	Enhanced tensile strength, fracture toughness and piezoresistive performances of CNT based epoxy nanocomposites using toroidal stirring assisted ultra-sonication. Mechanics of Advanced Materials and Structures, 2022, 29, 5557-5566.	1.5	1
81	Monitoring of impact dynamics on carbon nanotube multiscale glass fiber composites by means of electrical measurements. , 2017, , .		0
82	STEM STUDIES NOWADAYS: ANALYSIS OF PERCEPTION, ACTUAL ASPECTS AND NEED OF FURTHER INTERACTION DURING HIGH SCHOOL EDUCATION. , 2020, , .		0
83	Electrical Properties of Carbon Nanotubes. , 2021, , 1-35.		0