# Alberto A JimÃ©nez-SuÃ¡rez

List of Publications by Year
in descending order



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|---|---|---|---|
| 83 papers | 2,099 citations | 257101 24 h-index | 264894 42 g-index |
| 83 all docs | 83 docs citations | 83 times ranked | 1869 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | 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 |
| 3 | Electrothermally triggered selective shape memory capabilities of CNT doped nanocomposites by Digital Light Processing. Composites Science and Technology, 2022, 218, 109185. | 3.8 | 5 |
| 4 | Sequential and selective shape memory by remote electrical control. European Polymer Journal, 2022, 164, 110888. | 2.6 | 7 |
| 5 | Multifunctional coatings based on GNP/epoxy systems: Strain sensing mechanisms and Joule's heating capabilities for de-icing applications. Progress in Organic Coatings, 2022, 167, 106829. | 1.9 | 6 |
| 6 | Hardener Isomerism and Content of Dynamic Disulfide Bond Effect on Chemical Recycling of Epoxy Networks. ACS Applied Polymer Materials, 2022, 4, 5068-5076. | 2.0 | 11 |
| 7 | Novel approach for damage detection in multiscale CNT-reinforced composites via wireless Joule heating monitoring. Composites Science and Technology, 2022, 227, 109614. | 3.8 | 5 |
| 8 | Crack sensing mechanisms of Mode-II and skin-stringer joints between dissimilar materials by using carbon nanotubes. Composites Science and Technology, 2021, 201, 108553. | 3.8 | 8 |
| 9 | 3D printed anti-icing and de-icing system based on CNT/GNP doped epoxy composites with self-curing and structural health monitoring capabilities. Smart Materials and Structures, 2021, 30, 025016. | 1.8 | 16 |
| 10 | 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 |
| 11 | Complex Geometry Strain Sensors Based on 3D Printed Nanocomposites: Spring, Three-Column Device and Footstep-Sensing Platform. Nanomaterials, 2021, 11, 1106. | 1.9 | 12 |
| 12 | Influence of Manufacturing Process in Structural Health Monitoring and Mechanical Behaviour of CNT Reinforced CFRP and Ti6Al4V Multi-Material Joints. Polymers, 2021, 13, 2488. | 2.0 | 4 |
| 13 | Electrical Properties and Strain Sensing Mechanisms in Hybrid Graphene Nanoplatelet/Carbon Nanotube Nanocomposites. Sensors, 2021, 21, 5530. | 2.1 | 9 |
| 14 | 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 |
| 15 | Electroactive shaping and shape memory of sequential dual-cured off-stoichiometric epoxy/CNT composites. Journal of Materials Research and Technology, 2021, 15, 2970-2981. | 2.6 | 6 |
| 16 | Carbon Nanotube Reinforced Poly(Îµ-caprolactone)/Epoxy Blends for Superior Mechanical and Self-Sensing Performance in Multiscale Glass Fiber Composites. Polymers, 2021, 13, 3159. | 2.0 | 5 |
| 17 | The addition of graphene nanoplatelets into epoxy/polycaprolactone composites for autonomous self-healing activation by Joule's heating effect. Composites Science and Technology, 2021, 213, 108950. | 3.8 | 23 |
| 18 | 4D-Printed Resins and Nanocomposites Thermally Stimulated by Conventional Heating and IR Radiation. ACS Applied Polymer Materials, 2021, 3, 5207-5215. | 2.0 | 8 |

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|---|---|---|---|
| 19 | DLP 4Dâ€Printing of Remotely, Modularly, and Selectively Controllable Shape Memory Polymer Nanocomposites Embedding Carbon Nanotubes. Advanced Functional Materials, 2021, 31, 2106774. | 7.8 | 56 |
| 20 | Quality assessment and structural health monitoring of CNT reinforced CFRP and Ti6Al4V multi-material joints. Materials and Design, 2021, 210, 110118. | 3.3 | 10 |
| 21 | Secondary Raw Materials from Residual Carbon Fiber-Reinforced Composites by An Upgraded Pyrolysis Process. Polymers, 2021, 13, 3408. | 2.0 | 7 |
| 22 | Electrical Properties of Carbon Nanotubes. , 2021, , 1-35. | | 0 |
| 23 | Numerical study of static and dynamic fracture behaviours of neat epoxy resin. Mechanics of Materials, 2020, 140, 103214. | 1.7 | 18 |
| 24 | Printable selfâ€heating coatings based on the use of carbon nanoreinforcements. Polymer Composites, 2020, 41, 271-278. | 2.3 | 9 |
| 25 | Strain and crack growth sensing capability of SWCNT reinforced epoxy in tensile and mode I fracture tests. Composites Science and Technology, 2020, 186, 107918. | 3.8 | 32 |
| 26 | Carbon nanotubes to enable autonomous and volumetric self-heating in epoxy/polycaprolactone blends. Composites Science and Technology, 2020, 199, 108321. | 3.8 | 20 |
| 27 | Tribological Properties of Different Types of Graphene Nanoplatelets as Additives for the Epoxy Resin. Applied Sciences (Switzerland), 2020, 10, 4363. | 1.3 | 9 |
| 28 | An experimental and numerical investigation of highly strong and tough epoxy based nanocomposite by addition of MWCNTs: Tensile and mode I fracture tests. Composite Structures, 2020, 252, 112692. | 3.1 | 25 |
| 29 | Reclamation of carbon fibers and added-value gases in a pyrolysis-based composites recycling process. Journal of Cleaner Production, 2020, 273, 123173. | 4.6 | 23 |
| 30 | 3D printed epoxy-CNTs/GNPs conductive inks with application in anti-icing and de-icing systems. European Polymer Journal, 2020, 141, 110090. | 2.6 | 22 |
| 31 | Highly Multifunctional GNP/Epoxy Nanocomposites: From Strain-Sensing to Joule Heating Applications. Nanomaterials, 2020, 10, 2431. | 1.9 | 20 |
| 32 | Effective addition of nanoclay in enhancement of mechanical and electromechanical properties of SWCNT reinforced epoxy: Strain sensing and crack-induced piezoresistivity. Theoretical and Applied Fracture Mechanics, 2020, 110, 102831. | 2.1 | 8 |
| 33 | Synergistic effects of double-walled carbon nanotubes and nanoclays on mechanical, electrical and piezoresistive properties of epoxy based nanocomposites. Composites Science and Technology, 2020, 200, 108459. | 3.8 | 17 |
| 34 | 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. Journal of Polymer Research, 2020, 27, 1. | 1.2 | 7 |
| 35 | Sensitive response of GNP/epoxy coatings as strain sensors: analysis of tensile-compressive and reversible cyclic behavior. Smart Materials and Structures, 2020, 29, 065012. | 1.8 | 10 |
| 36 | Monitoring crack propagation in skin-stringer elements using carbon nanotube doped adhesive films: Influence of defects and manufacturing process. Composites Science and Technology, 2020, 193, 108147. | 3.8 | 9 |

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|---|---|---|---|
| 37 | The role of graphene interactions and geometry on thermal and electrical properties of epoxy nanocomposites: A theoretical to experimental approach. Polymer Testing, 2020, 90, 106638. | 2.3 | 12 |
| 38 | Graphene Nanoplatelets. Applied Sciences (Switzerland), 2020, 10, 1753. | 1.3 | 34 |
| 39 | Piezoresistive characterization of epoxy based nanocomposites loaded with SWCNTsâ€ÐWCNTs in tensile and fracture tests. Polymer Composites, 2020, 41, 2598-2609. | 2.3 | 14 |
| 40 | 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 |
| 41 | Influence of Morphology on the Healing Mechanism of PCL/Epoxy Blends. Materials, 2020, 13, 1941. | 1.3 | 7 |
| 42 | Mechanical and Strain-Sensing Capabilities of Carbon Nanotube Reinforced Composites by Digital Light Processing 3D Printing Technology. Polymers, 2020, 12, 975. | 2.0 | 41 |
| 43 | Coupled health monitoring system for CNT-doped self-sensing composites. Carbon, 2020, 166, 193-204. | 5.4 | 12 |
| 44 | Mechanical and strain sensing properties of carbon nanotube reinforced epoxy/poly(caprolactone) blends. Polymer, 2020, 190, 122236. | 1.8 | 17 |
| 45 | STEM STUDIES NOWADAYS: ANALYSIS OF PERCEPTION, ACTUAL ASPECTS AND NEED OF FURTHER INTERACTION DURING HIGH SCHOOL EDUCATION. , 2020, , . | | 0 |
| 46 | Exploring the mechanical and sensing capabilities of multi-material bonded joints with carbon nanotube-doped adhesive films. Composite Structures, 2019, 229, 111477. | 3.1 | 11 |
| 47 | Evaluation of sensitivity for detecting different failure modes of epoxy matrix composites doped with graphene nanoparticles. Composite Structures, 2019, 225, 111167. | 3.1 | 10 |
| 48 | An approach using highly sensitive carbon nanotube adhesive films for crack growth detection under flexural load in composite structures. Composite Structures, 2019, 224, 111087. | 3.1 | 16 |
| 49 | Critical parameters of carbon nanotube reinforced composites for structural health monitoring applications: Empirical results versus theoretical predictions. Composites Science and Technology, 2019, 171, 44-53. | 3.8 | 67 |
| 50 | Sensitivity, influence of the strain rate and reversibility of GNPs based multiscale composite materials for high sensitive strain sensors. Composites Science and Technology, 2018, 155, 100-107. | 3.8 | 29 |
| 51 | Influence of Thickness and Lateral Size of Graphene Nanoplatelets on Water Uptake in Epoxy/Graphene Nanocomposites. Applied Sciences (Switzerland), 2018, 8, 1550. | 1.3 | 51 |
| 52 | Development of bonded joints using novel CNT doped adhesive films: Mechanical and electrical properties. International Journal of Adhesion and Adhesives, 2018, 86, 98-104. | 1.4 | 18 |
| 53 | High sensitive damage sensors based on the use of functionalized graphene nanoplatelets coated fabrics as reinforcement in multiscale composite materials. Composites Part B: Engineering, 2018, 149, 31-37. | 5.9 | 27 |
| 54 | Monitoring of impact dynamics on carbon nanotube multiscale glass fiber composites by means of electrical measurements. , 2017, , . | | 0 |

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| 55 | Graphene nanoplatelets coated glass fibre fabrics as strain sensors. Composites Science and Technology, 2017, 146, 59-64. | 3.8 | 57 |
| 56 | Highly sensitive strain gauges with carbon nanotubes: From bulk nanocomposites to multifunctional coatings for damage sensing. Applied Surface Science, 2017, 424, 213-221. | 3.1 | 20 |
| 57 | A preliminary study on self sensing composite structures with carbon nanotubes. , 2017, , . | | 1 |
| 58 | Carbon Nanotube-Doped Adhesive Films for Detecting Crack Propagation on Bonded Joints: A Deeper Understanding of Anomalous Behaviors. ACS Applied Materials & Interfaces, 2017, 9, 43267-43274. | 4.0 | 18 |
| 59 | Effect of filtration in functionalized and non-functionalized CNTs and surface modification of fibers as an effective alternative approach. Composites Part B: Engineering, 2016, 94, 286-291. | 5.9 | 13 |
| 60 | Reversible phenomena and failure localization in self-monitoring GNP/epoxy nanocomposites. Composite Structures, 2016, 136, 101-105. | 3.1 | 21 |
| 61 | Novel approach to percolation threshold on electrical conductivity of carbon nanotube reinforced nanocomposites. RSC Advances, 2016, 6, 43418-43428. | 1.7 | 37 |
| 62 | Joule effect self-heating of epoxy composites reinforced with graphitic nanofillers. Journal of Polymer Research, 2016, 23, 1. | 1.2 | 36 |
| 63 | Strain Sensing Based on Multiscale Composite Materials Reinforced with Graphene Nanoplatelets. Journal of Visualized Experiments, 2016, , . | 0.2 | 2 |
| 64 | Electrically conductive functionalized-GNP/epoxy based composites: From nanocomposite to multiscale glass fibre composite material. Composites Part B: Engineering, 2016, 98, 49-55. | 5.9 | 49 |
| 65 | Thermal conductivity and lap shear strength of GNP/epoxy nanocomposites adhesives. International Journal of Adhesion and Adhesives, 2016, 68, 407-410. | 1.4 | 68 |
| 66 | GNPs Reinforced Epoxy Nanocomposites Used as Thermal Interface Materials. Journal of Nano Research, 2016, 38, 18-25. | 0.8 | 4 |
| 67 | High mobility of carbon nanotubes into thermosetting matrix. European Polymer Journal, 2016, 74, 209-217. | 2.6 | 3 |
| 68 | Strain monitoring mechanisms of sensors based on the addition of graphene nanoplatelets into an epoxy matrix. Composites Science and Technology, 2016, 123, 65-70. | 3.8 | 97 |
| 69 | Effect of type, percentage and dispersion method of multi-walled carbon nanotubes on tribological properties of epoxy composites. Wear, 2015, 324-325, 100-108. | 1.5 | 42 |
| 70 | Morphological changes on graphene nanoplatelets induced during dispersion into an epoxy resin by different methods. Composites Part B: Engineering, 2015, 72, 199-205. | 5.9 | 96 |
| 71 | Epoxy Adhesives Modified with Graphene for Thermal Interface Materials. Journal of Adhesion, 2014, 90, 835-847. | 1.8 | 31 |
| 72 | Study of efficiency of different commercial carbon nanotubes on manufacturing of epoxy matrix composites. Journal of Composite Materials, 2014, 48, 3169-3177. | 1.2 | 8 |

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| 73 | Graphene nanoplatelets thickness and lateral size influence on the morphology and behavior of epoxy composites. European Polymer Journal, 2014, 53, 292-301. | 2.6 | 79 |
| 74 | Advantages and disadvantages of the addition of graphene nanoplatelets to epoxy resins. European Polymer Journal, 2014, 61, 206-214. | 2.6 | 176 |
| 75 | In situ processing of epoxy composites reinforced with graphene nanoplatelets. Composites Science and Technology, 2013, 86, 185-191. | 3.8 | 109 |
| 76 | The influence of mechanical dispersion of MWCNT in epoxy matrix by calendering method: Batch method versus time controlled. Composites Part B: Engineering, 2013, 48, 88-94. | 5.9 | 34 |
| 77 | Effect of the carbon nanotube functionalization on flexural properties of multiscale carbon fiber/epoxy composites manufactured by VARIM. Composites Part B: Engineering, 2013, 45, 1613-1619. | 5.9 | 139 |
| 78 | Use of carbon nanotubes for strain and damage sensing of epoxy-based composites. International Journal of Smart and Nano Materials, 2012, 3, 152-161. | 2.0 | 14 |
| 79 | Influence of the functionalization of carbon nanotubes on calendering dispersion effectiveness in a low viscosity resin for VARIM processes. Composites Part B: Engineering, 2012, 43, 3482-3490. | 5.9 | 36 |
| 80 | Dispersion of carbon nanofibres in a low viscosity resin by calendering process to manufacture multiscale composites by VARIM. Composites Part B: Engineering, 2012, 43, 3104-3113. | 5.9 | 22 |
| 81 | Characterization of carbon nanofiber/epoxy nanocomposites by the nanoindentation technique. Composites Part B: Engineering, 2011, 42, 638-644. | 5.9 | 62 |
| 82 | Oxidation and tribological behaviour of an Fe-based MMC reinforced with TiCN particles. International Journal of Refractory Metals and Hard Materials, 2009, 27, 360-366. | 1.7 | 17 |
| 83 | Optimum Dispersion Technique of Carbon Nanotubes in Epoxy Resin as a Function of the Desired Behaviour. Journal of Nano Research, 0, 26, 177-186. | 0.8 | 5 |