



**Alberto Jimenez Suarez**

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## Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Prof. Alberto Jiménez Suárez is an Industrial Engineer from Universidad Carlos III de Madrid and holds a Ph.D. in Materials Science and Engineering from Universidad Rey Juan Carlos, awarded the "Europeus Doctor" distinction and the Extraordinary Doctorate Award. He also completed postgraduate studies, including a Master's in Structural Materials for New Technologies and a certification in the Finite Element Method.

Since 2012, he has been teaching at Universidad Rey Juan Carlos, becoming an Associate Professor in 2019 and Full Professor in 2025. From 2014 to 2019, he coordinated exchange students and internships for Industrial Organization Engineering and later became Degree Coordinator. In 2022, he obtained the position of Deputy Director of Master's Theses, Internships, and Corporate Relations, and since 2025 he has been the Director of the Official Masters School at Universidad Rey Juan Carlos. He has taught in six master's programs, supervised over 100 undergraduate and 12 Master's theses, and received the highest rating (EXCELLENT) in the DOCENTIA teaching evaluation.

His research focuses on multifunctional composite materials, incorporating carbon nanostructures into epoxy resins. His work spans from processing optimization to applications in structural health monitoring, heat dissipation, and self-healing. His current research explores thermal activation in nanoreinforced resins for self-detection via thermography, shape memory, and self-healing. Recently, he has focused on composite material sustainability, developing bio-based thermosets, vitrimers and recycling technologies.

He has authored more than 100 JCR-indexed scientific articles, mostly in Q1 journals, with more than 2700 citations and an h-index of 28. He has contributed to over 100 conferences, including three invited and four keynote talks. Since 2017, he has co-organized the "Multifunctional Materials" session at ACEX International Conference. He has completed five international research internships, including a 2019 Fulbright-funded visit to Stanford University.

He has supervised three Ph.D. thesis on 3D-printed multifunctional nanocomposites, dual-curing nanoreinforced epoxy matrices, and Multifunctional hybrid composites based on CANs (disulfide and poli-imine), and currently supervises two Ph.D. projects on self-healing coatings, and hybrid composites based on bio-based resins expected to conclude in 2026 and 2028, respectively.



He has participated in 12 competitive research projects, leading three of them. Additionally, he has taken part in more than 35 industry-funded projects and contracts, being PI of 14. Regarding technology transfer he is also co-author of two patents on nanoreinforced de-icing coatings and self-healing polymer coatings with recycled carbon fiber and he has three more under evaluation. He has coordinated multiple science dissemination activities since 2012.



## General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

h Index: 29 (WoS), 30 (Scopus)  
Total amount of cites: 2960 (Scopus)



## Alberto Jimenez Suarez

**Surname(s):** Jimenez Suarez  
**Name:** Alberto  
**DNI:** 53423313V  
**ORCID:** 0000-0001-8416-6398  
**ScopusID:** 37112453700  
**ResearcherID:** F-3391-2016  
**Date of birth:** 18/07/1983  
**Gender:** Male  
**Nationality:** Spain  
**Country of birth:** Spain  
**Aut. region/reg. of birth:** Madrid, Comunidad de  
**Contact province:** Madrid  
**City of birth:** MADRID  
**Contact address:** CALLE SAN ANASTASIO, 4, 13B-dcha  
**Postcode:** 28005  
**Contact country:** Spain  
**Contact aut. region/reg.:** Madrid, Comunidad de  
**Contact city:** MADRID  
**Land line phone:** (+34) 914887141  
**Email:** alberto.jimenez.suarez@urjc.es  
**Mobile phone:** (+34) 600202806

### Current professional situation

- 1 Employing entity:** Universidad Rey Juan Carlos  
**Department:** Matemática aplicada, ciencia e ingeniería de materiales y tecnología electrónica, Escuela Superior de Ciencias Experimentales y Tecnología  
**Professional category:** Catedrático de Universidad  
**City employing entity:** Móstoles, Madrid, Comunidad de, Spain  
**Phone:** (34) 914887141 **Email:** alberto.jimenez.suarez@urjc.es  
**Start date:** 02/06/2025  
**Type of contract:** Civil servant **Dedication regime:** Full time  
**Identify key words:** Electric properties; Mechanical properties; Polymers; Aircraft materials; Glass fiber  
**Area of leadership and/or management activity:** University
- 2 Employing entity:** Universidad Rey Juan Carlos **Type of entity:** University  
**Department:** Escuela de Másteres Oficiales  
**Professional category:** Director de Escuela  
**Start date:** 28/05/2025

### Previous positions and activities

	<b>Employing entity</b>	<b>Professional category</b>	<b>Start date</b>
1	Universidad Rey Juan Carlos	Profesor Titular de Universidad	30/12/2019
2	Universidad Rey Juan Carlos	Subdirector de TFM, Prácticas Externas y Relaciones con Empresa	01/03/2022
3	Universidad Rey Juan Carlos	Profesor Visitante	01/09/2017
4	Universidad Rey Juan Carlos	Profesor Ayudante Doctor	01/09/2012
5	Universidad Rey Juan Carlos	Personal Proyectos Investigación (Predoctoral FPI)	01/10/2010
6	Ministerio de Ciencia e Innovación	Becario Predoctoral Formación de Personal Investigador (FPI)	01/10/2008

- 1** **Employing entity:** Universidad Rey Juan Carlos **Type of entity:** University  
**Professional category:** Profesor Titular de Universidad  
**Start-End date:** 30/12/2019 - 01/06/2025 **Duration:** 4 years - 5 months - 2 days
- 2** **Employing entity:** Universidad Rey Juan Carlos **Type of entity:** University  
**Professional category:** Subdirector de TFM, Prácticas Externas y Relaciones con Empresa  
**Start-End date:** 01/03/2022 - 27/05/2025 **Duration:** 3 years - 1 month - 27 days
- 3** **Employing entity:** Universidad Rey Juan Carlos **Type of entity:** University  
**Professional category:** Profesor Visitante  
**Start-End date:** 01/09/2017 - 29/09/2019 **Duration:** 2 years - 3 months - 29 days
- 4** **Employing entity:** Universidad Rey Juan Carlos **Type of entity:** University  
**Professional category:** Profesor Ayudante Doctor  
**Start-End date:** 01/09/2012 - 31/08/2017 **Duration:** 5 years
- 5** **Employing entity:** Universidad Rey Juan Carlos **Type of entity:** University  
**Professional category:** Personal Proyectos Investigación (Predoctoral FPI)  
**Start-End date:** 01/10/2010 - 31/08/2012
- 6** **Employing entity:** Ministerio de Ciencia e Innovación **Type of entity:** Ministerio  
**Professional category:** Becario Predoctoral Formación de Personal Investigador (FPI)  
**Start-End date:** 01/10/2008 - 30/09/2010



## Education

### University education

#### 1st and 2nd cycle studies and pre-Bologna degrees

**University degree:** Higher degree

**Name of qualification:** Ingeniería Industrial (Doble Intesificación: Materiales y Organización Industrial - 2º Ciclo Bilingüe)

**Degree awarding entity:** Universidad Carlos III de Madrid      **Type of entity:** University

**Date of qualification:** 28/01/2008

#### Doctorates

**Doctorate programme:** Programa Oficial de Doctorado en Ciencia e Ingeniería de Materiales

**Degree awarding entity:** Universidad Rey Juan Carlos      **Type of entity:** University

**Date of degree:** 11/05/2012

## Scientific and technological experience

### Scientific or technological activities

#### R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Reciclaje y Nuevas Aplicaciones para el Desarrollo Sostenible de Materiales Compuestos Con Fibra de Carbono y Matrices de Origen Biológico.

**Entity where project took place:** Universidad Rey Juan Carlos      **Type of entity:** University

**Name principal investigator (PI, Co-PI....):** David Martínez Díaz; Alejandro Cortés Fernández

**Nº of researchers:** 7

**Funding entity or bodies:** Comunidad de Madrid      **Type of entity:** Public

**Start-End date:** 01/11/2024 - 31/10/2026

**Total amount:** 38.000 €
- 2** **Name of the project:** Hacia una economía circular en materiales compuestos: materiales multifuncionales basados en fibra de carbono corta reciclada y resinas epoxi reversibles de origen natural. (SMART-ECOCOMP)

**Entity where project took place:** Universidad Rey Juan Carlos      **Type of entity:** University

**Name principal investigator (PI, Co-PI....):** Silvia Gonzalez Prolongo



**Nº of researchers:** 14

**Funding entity or bodies:**

Agencia Estatal de Investigación

**Type of entity:** State agency

**Start-End date:** 01/09/2023 - 31/08/2026

**Total amount:** 117.325 €

**3 Name of the project:** Nuevas técnicas de reciclado, reutilización y conformado de materiales compuestos, basadas en calentamiento por radiación, efecto Joule e inducción magnética

**Entity where project took place:** Universidad Rey Juan Carlos **Type of entity:** University

**Name principal investigator (PI, Co-PI....):** Silvia González Prolongo; Alberto Jiménez Suárez

**Nº of researchers:** 8

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación

**Type of entity:** Ministerio

**Start-End date:** 01/12/2022 - 30/11/2024

**Duration:** 2 years

**Total amount:** 174.225 €

**4 Name of the project:** Nanocompuestos 4d-impresos y materiales multiescalares eléctricamente programables con capacidad de autorreparación y memoria de forma

**Entity where project took place:** Universidad Rey Juan Carlos **Type of entity:** University

**Name principal investigator (PI, Co-PI....):** Silvia González Prolongo; Mónica Campo Gómez

**Nº of researchers:** 12

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación

**Type of entity:** Ministerio

**Start-End date:** 01/06/2020 - 31/05/2023

**Total amount:** 108.900 €

**5 Name of the project:** Additive Manufacturing: from material to application (P2018/NMT-4411) (ADITIMAT-CM)

**Geographical area:** Regional

**Entity where project took place:** Universidad Rey Juan Carlos **Type of entity:** University

**Nº of researchers:** 20

**Start-End date:** 01/01/2019 - 31/12/2022

**Duration:** 4 years

**Participating entity/entities:** Consejo Superior de Investigaciones Científicas; Universidad Carlos III de Madrid; Universidad Complutense de Madrid; Universidad Politécnica de Madrid

**Total amount:** 861.250 €

**6 Name of the project:** Recubrimientos multicapa inteligentes para la mejora de la eficiencia y sostenibilidad en energía eólica

**Entity where project took place:** Universidad Rey Juan Carlos **Type of entity:** University

**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez

**Nº of researchers:** 7,5

**Funding entity or bodies:**

Comunidad de Madrid

**Type of entity:** Organismo Autónomo

**City funding entity:** Madrid, Madrid, Comunidad de, Spain

**Start-End date:** 01/01/2020 - 31/12/2021

**Total amount:** 36.665,53 €



- 7** **Name of the project:** Fabricación aditiva de resinas termoestables nanorreforzadas. Aplicación como materiales multifuncionales  
**Entity where project took place:** Universidad Rey Juan Carlos **Type of entity:** University  
**City of entity:** Móstoles, Madrid, Comunidad de, Spain  
**Name principal investigator (PI, Co-PI....):** Silvia González Prolongo; Alejandro Ureña Fernández  
**N° of researchers:** 13  
**Start-End date:** 30/12/2016 - 29/12/2019
- 8** **Name of the project:** Materiales Multifuncionales para los retos de la sociedad  
**Entity where project took place:** Universidad Rey Juan Carlos **Type of entity:** University  
**City of entity:** Móstoles, Madrid, Comunidad de, Spain  
**N° of researchers:** 20  
**Funding entity or bodies:** Consejería de Educación de la Comunidad de Madrid **Type of entity:** Public Research Body  
**City funding entity:** Madrid, Comunidad de, Spain  
**Start-End date:** 01/10/2014 - 30/09/2018  
**Total amount:** 176.552,26 €
- 9** **Name of the project:** Grupo de Excelencia Universidad Rey Juan Carlos  
**Entity where project took place:** Universidad Rey Juan Carlos **Type of entity:** University  
**City of entity:** Móstoles, Madrid, Comunidad de, Spain  
**Name principal investigator (PI, Co-PI....):** Joaquín Rams Ramos  
**N° of researchers:** 30  
**Funding entity or bodies:** Universidad Rey Juan Carlos **Type of entity:** University  
**City funding entity:** Móstoles, Madrid, Comunidad de, Spain  
**Start-End date:** 01/01/2015 - 31/12/2017  
**Total amount:** 32.422,71 €
- 10** **Name of the project:** Materiales multifuncionales con nanoestructuras de carbono (Grafeno y Nanotubos): uso como materiales compuestos, adhesivos y sensores estructurales  
**Entity where project took place:** Universidad Rey Juan Carlos **Type of entity:** University  
**City of entity:** Móstoles, Madrid, Comunidad de, Spain  
**Name principal investigator (PI, Co-PI....):** Alejandro Ureña Fernández; Silvia González Prolongo  
**N° of researchers:** 8  
**Start-End date:** 01/01/2014 - 31/12/2016  
**Total amount:** 111.616,33 €
- 11** **Name of the project:** Development of CNT doped reinforced aircraft composite parts and associated tooling, using the liquid resin infusion method (BULCANATU)  
**Entity where project took place:** Universidad Rey Juan Carlos **Type of entity:** University  
**City of entity:** Móstoles, Madrid, Comunidad de, Spain  
**Name principal investigator (PI, Co-PI....):** Silvia González Prolongo  
**N° of researchers:** 6  
**Funding entity or bodies:**



Unión Europea

**Type of entity:** Clean-Sky  
JTI-CS2012-2-GRA-01-050)

**Start-End date:** 01/08/2013 - 01/11/2014

**12 Name of the project:** Materiales compuestos multifuncionales en matrices epoxídicas nanorreforzadas: fabricación y nuevas aplicaciones (MAT2010-2074-C02-01).

**Entity where project took place:** Universidad Rey Juan Carlos **Type of entity:** University

**City of entity:** Móstoles, Madrid, Comunidad de, Spain

**Nº of researchers:** 9

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación.

**Type of entity:** State agency

**City funding entity:** Spain

**Start-End date:** 01/01/2010 - 31/12/2013

**Total amount:** 90.000 €

**13 Name of the project:** Materiales estructurales avanzados - ESTRUMAT (S2009/MAT-1585).

**Entity where project took place:** Universidad Rey Juan Carlos **Type of entity:** University

**City of entity:** Móstoles, Madrid, Comunidad de, Spain

**Nº of researchers:** 26

**Start-End date:** 01/01/2010 - 31/12/2013

**Total amount:** 377.120,36 €

**14 Name of the project:** Incorporación de nanorrefuerzos de carbono en materiales compuestos epoxi-fibra de carbono para aplicaciones aeronáuticas: matrices y adhesivos nanorreforzados

**Entity where project took place:** Universidad Rey Juan Carlos **Type of entity:** University

**City of entity:** Móstoles, Madrid, Comunidad de, Spain

**Nº of researchers:** 8

**Funding entity or bodies:**

MINISTERIO DE EDUCACION Y CIENCIA

**City funding entity:** Spain

**Start-End date:** 01/01/2008 - 31/12/2011

**Total amount:** 78.650 €

**15 Name of the project:** Proyecto de innovación educativa y coordinación interdisciplinar en el contexto del EEES en el campo de los Biomateriales

**Entity where project took place:** Universidad Rey Juan Carlos **Type of entity:** University

**City of entity:** Móstoles, Madrid, Comunidad de, Spain

**Nº of researchers:** 5

**Funding entity or bodies:**

Universidad Rey Juan Carlos

**Type of entity:** University

**City funding entity:** Móstoles, Madrid, Comunidad de, Spain

**Start-End date:** 01/09/2010 - 31/07/2011

**Total amount:** 30.000 €



## R&D non-competitive contracts, agreements or projects with public or private entities

- 1 Name of the project:** Determinación de temperatura de transición vítrea por análisis térmico dinamomecánico de materiales compuestos

**Degree of contribution:** Coordinator of total project, network or consortium

**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez

**Nº of researchers:** 3

**Participating entity/entities:** Universidad Rey Juan Carlos

**Funding entity or bodies:**  
FUNDACION AITIIP

**Start date:** 17/06/2025 **Duration:** 3 months

**Total amount:** 4.180 €
- 2 Name of the project:** Medida del coeficiente de expansión térmica lineal y del grado de cristalinidad de muestras termoplásticas

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI....):** Silvia González Prolongo

**Nº of researchers:** 2

**Participating entity/entities:** Universidad Rey Juan Carlos

**Funding entity or bodies:**  
Airbus Operations **Type of entity:** Business

**Start date:** 14/05/2025 **Duration:** 3 months - 15 days
- 3 Name of the project:** Desarrollo de un estimulador táctil abdominal para el desarrollo de proceso perceptivos táctiles en niños con discapacidad visual temprana

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI....):** Álvaro García López

**Nº of researchers:** 6

**Participating entity/entities:** El Punto Genunio

**Start date:** 14/02/2024 **Duration:** 1 year - 6 months
- 4 Name of the project:** Materiales Compuestos

**Degree of contribution:** Scientific coordinator

**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez; Silvia González Prolongo

**Nº of researchers:** 3

**Start date:** 29/11/2023 **Duration:** 2 years
- 5 Name of the project:** Análisis composicional de muestras mediante difracción de rayos X (DRX) y microscopía electrónica de barrido (SEM) con microanálisis por dispersión de energías de rayos X (EDX)

**Degree of contribution:** Coordinator of total project, network or consortium

**Name principal investigator (PI, Co-PI....):** Alejandro Cortés Fernández; Alberto Jiménez Suárez

**Nº of researchers:** 2

**Funding entity or bodies:**  
Antonio Hernández Gálvez **Type of entity:** Business

**Start date:** 14/04/2023 **Duration:** 1 month

**Total amount:** 240 €



- 6** **Name of the project:** Análisis y ensayo de unfolding en material compuesto  
**Name principal investigator (PI, Co-PI....):** Alejandro Cortés Fernández; Javier Gómez Sánchez; Silvia González Prolongo; Xoan Xosé Fernández Sánchez-Romate; Alberto Jiménez Suárez  
**Nº of researchers:** 5  
**Funding entity or bodies:**  
Patentes Talgo, S.A. **Type of entity:** Business  
**Start date:** 10/03/2023 **Duration:** 7 months - 20 days  
**Total amount:** 20.000 €
- 7** **Name of the project:** Obtención de recubrimientos multifuncionales basados en la incorporación de material reciclado a blends con capacidad de autorreparación  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Name principal investigator (PI, Co-PI....):** Silvia González Prolongo; Xoan Xosé Fernández Sánchez-Romate; David Martínez Díaz; Alberto Jiménez Suárez  
**Nº of researchers:** 4  
**Funding entity or bodies:**  
Airbus Operations S.L. **Type of entity:** Business  
**Start date:** 26/01/2023 **Duration:** 2 years - 5 months - 10 days  
**Total amount:** 37.500 €
- 8** **Name of the project:** Electrical Conductivity of Nanoreinforced Rubber  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez  
**Nº of researchers:** 1  
**Funding entity or bodies:**  
Swansea University Bay Campus **Type of entity:** University  
**Start date:** 20/01/2023 **Duration:** 3 months  
**Total amount:** 200 €
- 9** **Name of the project:** Evaluación de la viscosidad isoterma de resinas y siliconas  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez; Alejandro Cortés Fernández  
**Nº of researchers:** 2  
**Funding entity or bodies:**  
Asea Brown Boveri **Type of entity:** Business  
**Start date:** 20/01/2023 **Duration:** 10 months  
**Total amount:** 1.960 €
- 10** **Name of the project:** Evaluación de la viscosidad isoterma de resinas y siliconas  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez; Alejandro Cortés Fernández  
**Nº of researchers:** 2  
**Funding entity or bodies:**  
Asea Brown Boveri **Type of entity:** Business  
**Start date:** 13/05/2022 **Duration:** 6 months
- 11** **Name of the project:** Dispersión y determinación de propiedades mecánicas y eléctricas de resinas dopadas con nanotubos de carbono para modelización de su comportamiento  
**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez; Alejandro Ureña Fernández



**Nº of researchers:** 5

**Funding entity or bodies:**

Universidad de Sevilla

**Type of entity:** University

**Start date:** 18/07/2021

**Duration:** 3 months

**Total amount:** 4.950 €

**12 Name of the project:** Ensayo de absorción de agua a largo plazo en tubería fabricada para saneamiento con o sin presión

**Name principal investigator (PI, Co-PI...):** Alberto Jiménez Suárez; Silvia González Prolongo

**Nº of researchers:** 2

**Funding entity or bodies:**

DUKO INZYNIERIA SPOLKA

**Type of entity:** Business

**City funding entity:** Poland

**Start date:** 21/06/2021

**Duration:** 3 months

**Total amount:** 4.950 €

**13 Name of the project:** Control de calidad de materiales: Antes y después de la instalación de las mangas de rehabilitación de tuberías

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI...):** Silvia González Prolongo

**Nº of researchers:** 2

**Funding entity or bodies:**

Licuas SA

**Type of entity:** Business

**City funding entity:** Spain

**Start date:** 26/04/2021

**Duration:** 1 year

**14 Name of the project:** Evaluación de la viscosidad en resinas para la fabricación de materiales compuestos

**Name principal investigator (PI, Co-PI...):** Alberto Jiménez Suárez

**Nº of researchers:** 3

**Funding entity or bodies:**

Asea Brown Boveri, S.A.

**Type of entity:** Business

**Start date:** 10/09/2020

**Duration:** 9 months - 20 days

**Total amount:** 810 €

**15 Name of the project:** Caracterización y análisis de material eléctrico

**Degree of contribution:** Researcher

**Nº of researchers:** 4

**Funding entity or bodies:**

CEIS S.L.

**Type of entity:** Business

**Start date:** 27/04/2020

**Duration:** 1 year

**16 Name of the project:** Hydrothermal ageing of PRFV pipes

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI...):** Silvia González Prolongo

**Nº of researchers:** 2

**Funding entity or bodies:**

Subor Boru Sanayi ve Ticaret A.S

**Start date:** 24/04/2020

**Duration:** 6 months



- 17** **Name of the project:** Ensayo de envejecimiento de tuberías de PRFV  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Xoan Xosé Fernández Sánchez-Romate; Silvia González Prolongo  
**Nº of researchers:** 3  
**Funding entity or bodies:** EMPRESA DE TRANSFORMACION AGRARIA, S.A.  
**City funding entity:** Spain  
**Start date:** 30/01/2020 **Duration:** 3 months
- 18** **Name of the project:** Determinación de las características de servicio de materiales compuestos de matriz termoplástica poliméricos para aplicaciones eléctricas  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Alejandro Ureña Fernández  
**Nº of researchers:** 7  
**Start date:** 17/12/2019 **Duration:** 1 year - 13 days
- 19** **Name of the project:** Identificación y análisis de componentes de corrosión en cables eléctricos- Segunda Parte  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez; Silvia González Prolongo  
**Nº of researchers:** 3  
**Funding entity or bodies:** CEIS S.L. **Type of entity:** Business  
**Start date:** 19/11/2019 **Duration:** 16 days  
**Total amount:** 1.500 €
- 20** **Name of the project:** Identificación y análisis de componentes de corrosión en cables eléctricos- Primera Parte  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez; Silvia González Prolongo  
**Nº of researchers:** 3  
**Funding entity or bodies:** CEIS S.L. **Type of entity:** Business  
**Start date:** 07/10/2019 **Duration:** 14 days  
**Total amount:** 1.500 €
- 21** **Name of the project:** Evaluación de la viscosidad en resinas para la fabricación de materiales compuestos  
**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez  
**Nº of researchers:** 3  
**Funding entity or bodies:** Asea Brown Boveri, S.A. **Type of entity:** Business  
**Start date:** 25/02/2019 **Duration:** 4 months  
**Total amount:** 810 €
- 22** **Name of the project:** Ensayos de corrosión de cuatro componentes  
**Degree of contribution:** Investigador Colaborador  
**Name principal investigator (PI, Co-PI....):** María Victoria Utrilla



**Nº of researchers:** 5  
**Participating entity/entities:** Universidad Rey Juan Carlos  
**Funding entity or bodies:**  
ZARDOYA OTIS, S.A.  
**City funding entity:** Spain

**Start date:** 18/04/2018

**Duration:** 1 year

**23 Name of the project:** Dispersiones de Pintura Intumescente  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez  
**Participating entity/entities:** Universidad Rey Juan Carlos  
**Funding entity or bodies:**  
Van Loon Chemical Innovations B.V  
**Type of entity:** Business  
**City funding entity:** Holland  
**Start date:** 21/03/2018  
**Duration:** 1 month  
**Total amount:** 5.615 €

**24 Name of the project:** ANÁLISIS DEL COMPORTAMIENTO DE TUBERÍAS EMPLEADAS EN ZONAS REGABLES  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Silvia González Prolongo  
**Nº of researchers:** 6  
**Participating entity/entities:** Universidad Rey Juan Carlos  
**Funding entity or bodies:**  
EMPRESA DE TRANSFORMACION AGRARIA, S.A.  
**City funding entity:** Spain  
**Start date:** 05/03/2018  
**Duration:** 2 years - 4 months

**25 Name of the project:** Estudio de las causas de agrietamiento de tubos de presión de material compuesto. Fase 1 y 2  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Alejandro Ureña Fernández  
**Nº of researchers:** 4  
**Participating entity/entities:** Universidad Rey Juan Carlos  
**Funding entity or bodies:**  
Protec Arisawa Europe S.A.  
**Type of entity:** Business  
**City funding entity:** País Vasco, Spain  
**Start date:** 12/01/2018  
**Duration:** 3 months - 28 days

**26 Name of the project:** Caracterización de tubos de Electrosteel y Saint Gobain  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Rocío del Carmen Moriche Tirado  
**Nº of researchers:** 3  
**Participating entity/entities:** Universidad Rey Juan Carlos  
**Funding entity or bodies:**  
EMPRESA DE TRANSFORMACION AGRARIA, S.A.  
**City funding entity:** Spain  
**Start date:** 01/10/2017  
**Duration:** 1 month



- 27** **Name of the project:** Estudio de las posibles causas de despegue del tope de las compuertas de PRFV  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez  
**Nº of researchers:** 2  
**Participating entity/entities:** Universidad Rey Juan Carlos  
**Funding entity or bodies:**  
EMPRESA DE TRANSFORMACION AGRARIA, S.A.  
**City funding entity:** Spain  
**Start date:** 01/10/2017 **Duration:** 1 month  
**Total amount:** 6.000 €
- 28** **Name of the project:** DETERMINACIÓN DE CARACTERÍSTICAS FÍSICAS Y MECÁNICAS DE UN FILM DE POLIUTERANO  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez  
**Nº of researchers:** 3  
**Participating entity/entities:** Universidad Rey Juan Carlos  
**Funding entity or bodies:**  
ALTRAN TECNOLOGIA E INNOVACION SL  
**City funding entity:** Spain  
**Start date:** 06/09/2017 **Duration:** 1 month  
**Total amount:** 2.500 €
- 29** **Name of the project:** CAUSAS DE LAS ROTURA DE TUBERÍAS DE REGADÍO DE POLÍMERO REFORZADO CON FIBRA DE VIDRIO EN BURGOS  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Silvia González Prolongo  
**Nº of researchers:** 4  
**Participating entity/entities:** Universidad Rey Juan Carlos  
**Funding entity or bodies:**  
EMPRESA DE TRANSFORMACION AGRARIA, S.A.  
**City funding entity:** Spain  
**Start date:** 04/05/2017 **Duration:** 5 months - 5 days
- 30** **Name of the project:** Determinacion de características de cauchos sintéticos puestos en servicio en pavimentos de vagones de tren  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez  
**Nº of researchers:** 6  
**Participating entity/entities:** Universidad Rey Juan Carlos  
**Funding entity or bodies:**  
Construcciones y Auxiliar de Ferrocarriles, S.A. **Type of entity:** Business  
**City funding entity:** Beasain, País Vasco, Spain  
**Start date:** 01/09/2016 **Duration:** 4 months  
**Total amount:** 10.000 €
- 31** **Name of the project:** ANÁLISIS SEM DE MUESTRAS METÁLICAS PROCEDENTES DE BLOQUE MOTOR  
**Degree of contribution:** Coordinator of total project, network or consortium



**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez

**N° of researchers:** 3

**Participating entity/entities:** Universidad Rey Juan Carlos

**Funding entity or bodies:**

Martinrea Honsel Spain S.L.U

**Type of entity:** Business

**City funding entity:** Móstoles, Madrid, Comunidad de, Spain

**Start date:** 25/04/2016

**Duration:** 6 months

**Total amount:** 3.100 €

**32 Name of the project:** I+D en nuevas tecnologías de fabricación de materiales compuestos avanzados

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI....):** Alejandro Ureña Fernández

**N° of researchers:** 12

**Participating entity/entities:** Universidad Rey Juan Carlos

**Funding entity or bodies:**

Universidad Rey Juan Carlos

**Type of entity:** University

**City funding entity:** Móstoles, Madrid, Comunidad de, Spain

**Start date:** 01/01/2016

**Duration:** 2 years

**Total amount:** 65.700 €

**33 Name of the project:** Análisis térmico y mecano-dinámico de polímeros

**Degree of contribution:** Coordinator of total project, network or consortium

**Name principal investigator (PI, Co-PI....):** Alberto Jiménez Suárez

**Participating entity/entities:** Universidad Rey Juan Carlos

**Funding entity or bodies:**

SVAP MANSILLAS S.L.

**Type of entity:** Business

**City funding entity:** Castilla-La Mancha, Spain

**Start date:** 20/02/2015

**Duration:** 1 month

**Total amount:** 990 €

**34 Name of the project:** DESARROLLO DE NUEVOS MATERIALES PARA APLICACIONES DE INTERFAZ TERMICA (TIM) BASADOS EN GRAFENO.

**Degree of contribution:** Investigador Colaborador

**Name principal investigator (PI, Co-PI....):** Rocío Moriche Tirado

**N° of researchers:** 6

**Participating entity/entities:** Universidad Rey Juan Carlos

**Funding entity or bodies:**

Iberdrola Ingeniería y Construcción

**Type of entity:** Business

**City funding entity:** Madrid, Madrid, Comunidad de, Spain

**Start date:** 01/09/2013

**Duration:** 1 year

**35 Name of the project:** DETERMINACIÓN DE CARACTERÍSTICAS DE SERVICIO DE MATERIALES COMPUESTOS PET-FIBRA DE VIDRIO PARA APLICACIONES ELÉCTRICAS

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI....):** Alejandro Ureña Fernández

**N° of researchers:** 6

**Participating entity/entities:** Universidad Rey Juan Carlos

**Funding entity or bodies:**

Electrónica Artech Smart Grid

**Type of entity:** Business



**City funding entity:** Spain

**Start date:** 15/07/2013

**Duration:** 2 months

**36 Name of the project:** Determinación de características de servicio de materiales compuestos polímero-fibra de vidrio para aplicaciones eléctricas

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI....):** Alejandro Ureña Fernández

**Nº of researchers:** 6

**Participating entity/entities:** Universidad Rey Juan Carlos

**Funding entity or bodies:**

Electrónica Artech Smart Grid

**Type of entity:** Business

**City funding entity:** Spain

**Start date:** 08/03/2012

**Duration:** 3 months

**37 Name of the project:** Tecnologías Inteligentes y Medioambientalmente Sostenibles para la Generación de Estructuras en Materiales Compuestos, TARGET

**Degree of contribution:** Researcher

**Nº of researchers:** 8

**Participating entity/entities:** Universidad Rey Juan Carlos

**Funding entity or bodies:**

Airbus Operations S.L.

**Type of entity:** Business

**City funding entity:** Madrid, Comunidad de, Spain

**Start date:** 01/01/2011

**Duration:** 3 years

**Total amount:** 145.000 €

## Results

### Industrial and intellectual property

**1 Title registered industrial property:** Multifunctional self-healing epoxy coatings reinforced with recycled carbon fibers

**Inventors/authors/obtainers:** Alberto Jiménez Suárez; Silvia González Prolongo; Xoan Xosé Fernández Sánchez-Romate; David Martínez Díaz; Pablo Vázquez Sánchez; Zulima Martín Moreno

**Entity holder of rights:** Universidad Rey Juan Carlos

**Nº of application:** EP 23382981.1

**Country of inscription:** Spain

**Date of register:** 27/09/2023

**2 Title registered industrial property:** Resinas reforzadas con nanopartículas de grafeno o con una combinación de nanopartículas

**Inventors/authors/obtainers:** Silvia González Prolongo; Rocío del Carmen Moriche Tirado; María Sánchez Martínez; Alberto Jiménez Suárez; Gilberto del Rosario Hernández; Alejandro Ureña Fernández

**Entity holder of rights:** Universidad Rey Juan Carlos

**Nº of application:** P 201630692

**Country of inscription:** Spain, Madrid, Comunidad de

**Date of register:** 27/05/2016

**Conferral date:** 06/09/2018



## Scientific and technological activities

### Scientific production

- 1** **H index:** 29  
**Date of application:** 05/12/2025  
**Source of H-Index:** WOS
- 2** **H index:** 30  
**Date of application:** 28/01/2025  
**Source of H-Index:** GOOGLE SCHOLAR
- 3** **H index:** 30  
**Date of application:** 04/07/2025  
**Source of H-Index:** SCOPUS

### Publications, scientific and technical documents

- 1** Alejandro Cortés Fernández; Andrea Cosola; Marco Sangermano; Mónica Campo Gómez; Silvia González Prolongo; Candido Fabrizio Pirri; Alberto Jiménez Suárez; Annalisa Chiappone. DLP 4D-Printing of Remotely, Modularly, and Selectively Controllable Shape Memory Polymer Nanocomposites Embedding Carbon Nanotubes. *Advanced Functional Materials*. 31 - 50, Wiley, 12/2021. ISSN 1616-301X  
**DOI:** 10.1016/j.compscitech.2021.109185  
**Type of production:** Scientific paper  
**Position of signature:** 7  
**Total no. authors:** 8  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 18.808  
**Position of publication:** 6  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 18.808  
**Position of publication:** 9  
**Relevant publication:** Yes  
**Format:** Journal  
**Corresponding author:** Yes  
**Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 106  
**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 162
- 2** Alberto Jiménez Suárez; Silvia González Prolongo; Margarita González Prolongo; Xoan Xosé Fernández Sánchez-Romate; Alejandro Cortés Fernández; Daniel Quintana Brito; Alberto Jiménez Suárez. Advanced thermoforming techniques of cured carbon fiber reinforced epoxy polymers based on a reshapable vitrimeric matrix. *Composites Part A: Applied Science and Manufacturing*. 200 - 109367, Elsevier, 01/2026. ISSN 1359-835X  
**DOI:** 10.1016/j.compositesa.2025.109367  
**Type of production:** Scientific paper  
**Position of signature:** 7  
**Total no. authors:** 7  
**Impact source:** SCOPUS (SJR)  
**Format:** Journal  
**Corresponding author:** No  
**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES



**Impact index in year of publication:** 8.9  
**Position of publication:** 6

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 34

- 3** María Isabel Rodríguez Tapiador; Tamara Ruíz Calleja; Alberto Jiménez Suárez; Susana María Fernández. Development of Sustainable Hydrophobic Coatings for Textiles Based on Sputtered Copper Nitride. *Fibers and Polymers*. Springer, 20/11/2025. ISSN 1875-0052

**DOI:** 10.1007/s12221-025-01256-w

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 3

**Total no. authors:** 4

**Corresponding author:** No

- 4** Ignacio Collado Roperó; Antonio Vázquez López; Alberto Jiménez Suárez; Silvia González Prolongo. Multifunctional sequential dual curing electroactive graphene Nanocomposites: Self-heating, de-icing and in-situ curing. *Composites Part B: Engineering*. 307, pp. 112911. Elsevier, 15/11/2025. ISSN 1359-8368

**DOI:** 10.1016/j.compositesb.2025.112911

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 3

**Total no. authors:** 4

**Corresponding author:** No

**Impact source:** WOS (JCR)

**Category:** ENGINEERING, MULTIDISCIPLINARY

**Impact index in year of publication:** 14.2

**Journal in the top 25%:** Yes

**Position of publication:** 1

**No. of journals in the cat.:** 179

- 5** Rosella Sesia; Javier Gómez Sánchez; Ignacio Collado Roperó; Alejandro Cortés Fernández; Alberto Jiménez Suárez; Minna Hakkarainen; Silvia Spriano; Sara Ferraris; Marco Sangermano. Polyphenols-derived epoxy vitrimers for smart applications: Electrical conductivity, Joule heating, and strain sensing. *Polymer*. 338, pp. 129044. Elsevier, 10/11/2025. ISSN 0032-3861

**DOI:** 10.1016/j.polymer.2025.129044

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 5

**Total no. authors:** 9

**Corresponding author:** No

**Impact source:** WOS (JCR)

**Category:** Science Edition - POLYMER SCIENCE

**Impact index in year of publication:** 4.1

**Journal in the top 25%:** No

**Position of publication:** 27

**No. of journals in the cat.:** 94

- 6** Ignacio Collado Roperó; Antonio Vázquez López; Alberto Jiménez Suárez; Silvia González Prolongo. Dual-Curing MWCNT nanocomposites for Energy-Efficient electroactive shape memory and In-Situ processing. *Chemical Engineering Journal*. 515, Elsevier B.V., 01/07/2025.

**DOI:** 10.1016/j.cej.2025.163471

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 3

**Total no. authors:** 4

**Corresponding author:** No

- 7** Ignacio Collado Roperó; Antonio Vázquez López; Simón Heredia; Jimena de la Vega; Alberto Jiménez Suárez; David Maestre; Silvia González Prolongo. Electromagnetic Interference Shielding of a Sequential Dual-Curing Thiol-Epoxy System Reinforced with GNPs with High Shape Memory. *ACS Applied Materials and Interfaces*. 17 - 12, American Chemical Society, 12/03/2025.

**DOI:** 10.1021/acsami.5c02049

**Type of production:** Scientific paper

**Position of signature:** 5

**Total no. authors:** 7

**Corresponding author:** No



- 8** Ignacio Collado Ropero; Antonio Vázquez López; Manuel Fernández; Jimena de la Vega; Alberto Jiménez Suárez; Silvia González Prolongo. Nanocomposites of sequential dual curing of thiol-epoxy systems with Fe<sub>3</sub>O<sub>4</sub> nanoparticles for remote/in situ applications: thermomechanical, shape memory, and induction heating properties. *Advanced Composites and Hybrid Materials*. 8 - 199, Springer, 04/03/2025. ISSN 2522-0128  
**DOI:** 10.1007/s42114-025-01264-7  
**Type of production:** Scientific paper  
**Position of signature:** 5  
**Total no. authors:** 6  
**Corresponding author:** No
- 9** Kazue Orikasa; Luiza Benedetti; Sang-Hyon Chu; Tyler Dolmetsch; Alberto Jiménez Suárez; Denny John; Teagan Smith; Tony Thomas; Benjamin Boesl; Cheol Park; Arvind Agarwal. The shape effect: Influence of 1D and 2D boron nitride nanostructures on the radiation shielding, thermal, and damping properties of high-temperature epoxy composites. *Composites Science and Technology*. 261, Elsevier LTD, 01/03/2025. ISSN 0266-3538  
**DOI:** 10.1016/j.compscitech.2024.110995  
**Type of production:** Scientific paper  
**Format:** Journal
- 10** Javier Gómez Sánchez; Xoan Xosé Fernández Sánchez Romate; Gilberto del Rosario; Silvia González Prolongo; Alberto Jiménez Suárez. Multifunctional multilayer coatings: Enhancing durability through self-healing mechanisms activated via Joule effect. *Progress in Organic Coatings*. 200, Elsevier, 03/2025. ISSN 0300-9440  
**DOI:** 10.1016/j.porgcoat.2024.109018  
**Type of production:** Scientific paper  
**Format:** Journal
- 11** Alejandro Cortés Fernández; Antonio González Jiménez; J. Gutiérrez; Alberto Jiménez Suárez; Silvia González Prolongo. Novel sustainable, smart, and multifunctional 4D-printed nanocomposites with reprocessing and shape memory capabilities. *Smart Materials and Structures*. 34 - 2, IOP Publishing Ltd., 28/01/2025. ISSN 0964-1726  
**DOI:** 10.1088/1361-665X/adac1e  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 5  
**Corresponding author:** No
- 12** Rocío Calderón Villajos; Antonio Vázquez López; Alberto Jiménez Suárez; Xoan Xosé Fernández Sánchez-Romate; Silvia González Prolongo. A comparative approach for self-healing of carbon nanotube epoxy/polycaprolactone composites: Joule, Infrared, and oven heatin. *Polymer Composites*. Wiley, 01/2025. ISSN 0272-8397  
**DOI:** 10.1002/pc.29466  
**Type of production:** Scientific paper  
**Format:** Journal
- 13** Isaac Isarn; Ignacio Collado Ropero; Alberto Jiménez Suárez; Silvia González Prolongo. Analysis of bio-based epoxy resins: Impact of amine hardeners on thermal, thermomechanical, optical and electrical properties of epoxidized resveratrol with high T<sub>g</sub>. *Reactive and Functional Polymers*. 205, Elsevier B.V., 12/2024. ISSN 1381-5148  
**Type of production:** Scientific paper  
**Format:** Journal
- 14** Alejandro Cortés Fernández; Alejandro Esperanza; Javier Gómez Sánchez; Xoan Xosé Fernández Sánchez-Romate; Silvia González Prolongo; Alberto Jiménez Suárez. Combining de-icing and self-healing for wind bladesthrough an innovative multilayer coating approach. *Polymer Composites*. 46, pp. 4469 - 4481. Wiley, 14/11/2024. ISSN 0272-8397  
**DOI:** 10.1002/pc.29252  
**Type of production:** Scientific paper  
**Format:** Journal  
**Position of signature:** 6  
**Total no. authors:** 6  
**Corresponding author:** Yes  
**Impact source:** WOS (JCR)  
**Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 4.7  
**Position of publication:** 24  
**No. of journals in the cat.:** 94



- 15** Kazue Orikasa; Luiza Benedetti; Cheol Park; Sang-Hyon Chu; Alberto Jiménez; Tyler Dolmetsch; Tony Thomas; Arvind Agarwal. Smart Foams: Boron Nitride-Graphene Nanoplatelet Foams for Tunable Radiation Shielding and Strain Sensing. *Advanced Materials Technologies*. 9 - 18, John Wiley and Sons Inc, 18/09/2024.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 16** Emma Espeute; David Martín Díaz; Pablo Vázquez Sánchez; Zulima Martín; Gilberto del Rosario; Alberto Jiménez Suárez; Silvia González Prolongo. Smart electroactive self-repairable coating involving end-of-life aircraft prepregs by mechanical recycling. *Journal of Cleaner Production*. 469, Elsevier Ltd, 01/09/2024.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 17** Xoan Xosé Fernández Sánchez-Romate; Alberto Jiménez Suárez; José Manuel Sanz Ayet; Vanessa García Martínez; María Rodríguez Gude; Silvia González Prolongo. Double percolation approach for hybrid graphene Nanoplatelet-Carbon black nanocomposites based on electrical impedance Spectroscopy. *Composites Part A: Applied Science and Manufacturing*. 184, Elsevier Ltd, 09/2024.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 18** Tamara Ruíz Calleja; Alberto Jiménez Suárez; Rocío Calderón Villajos; Silvia González Prolongo. Characterization of conductive particle dispersion in textile coatings through Joule's effect monitoring analysis. *Textile Research Journal*. 94 - 15-16, pp. 1752 - 1760. SAGE Publications Ltd, 08/2024.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 19** Dumitru Moraru; Alejandro Cortés Fernández; David Martínez Díaz; Silvia González Prolongo; Alberto Jiménez Suárez; Marco Sangermano. Sustainable Electrically Conductive Bio-Based Composites via Radical-Induced Cationic Frontal Photopolymerization. *Polymers*. 16 - 15, 08/2024.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 20** Javier Gómez Sánchez; Xoan Xosé Fernández Sánchez-Romate; Lucía González; Alberto Jiménez Suárez; Silvia González Prolongo. Sustainable composite manufacturing from non-expiring carbon fiber/epoxy prepregs based on a vitrimeric matrix. *Journal of Manufacturing Processes*. 119, pp. 902 - 910. Elsevier Ltd, 15/06/2024.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 21** Ignacio Collado Roperro; Alberto Jiménez Suárez; Antonio Vázquez López; Gilberto del Rosario; Silvia González Prolongo. Ultrasonication Influence on the Morphological Characteristics of Graphene Nanoplatelet Nanocomposites and Their Electrical and Electromagnetic Interference Shielding Behavior. *Polymers*. 16 - 8, MDPI, 04/2024. ISSN 2073-4360  
**DOI:** 10.3390/polym16081068  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 2  
**Total no. authors:** 5 **Corresponding author:** No  
**Impact source:** WOS (JCR) **Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 4.967 **Journal in the top 25%:** Yes  
**Position of publication:** 16 **No. of journals in the cat.:** 90



- 22** Alejandro Cortés Fernández; Marino Bañón Veracruz; Alberto Jiménez Suárez; Mónica Campo Gómez; Margarita González Prolongo; Silvia González Prolongo. Enhancing efficiency and sustainability of digital light processing 3D-Printing by novel two-stage processing of carbon nanotube reinforced nanocomposites. *Journal of Materials Research and Technology*. 29, pp. 3237 - 3248. Elsevier Editor Ltd, 01/03/2024. ISSN 2238-7854  
**DOI:** 10.1016/j.jmrt.2024.02.018  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 3  
**Total no. authors:** 6 **Corresponding author:** No
- 23** Alberto Jiménez Suárez; Gonzalo Buendía Sánchez; Silvia González Prolongo. Temperature-dependent synergistic self-healing in thermoplastic-thermoset blends: Unraveling the role of thermoplastics and dynamic covalent networks. *Journal of Materials Research and Technology*. 29, pp. 550 - 557. Elsevier Editor Ltd, 01/03/2024.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 24** Javier Gómez Sánchez; Xoan Xosé Fernández Sánchez-Romate; Francisco Javier Espadas; Silvia González Prolongo; Alberto Jiménez Suárez. Electromechanical Properties of Smart Vitrimers Reinforced with Carbon Nanotubes for SHM Applications. *Sensors*. 24 - 3, MDPI, 02/2024. ISSN 1424-8220  
**DOI:** 10.3390/s24030806  
**Type of production:** Scientific paper **Format:** Journal
- 25** Alejandro Cortés Fernández; Xoan Xosé Fernández Sánchez-Romate; David Martínez Díaz; Silvia González Prolongo; Alberto Jiménez Suárez. Recyclable Multifunctional Nanocomposites Based on Carbon Nanotube Reinforced Vitrimers with Shape Memory and Joule Heating Capabilities. *Polymers*. 16 - 3, MDPI, 02/2024.  
**DOI:** 10.3390/polym16030388  
**Type of production:** Scientific paper **Format:** Journal
- 26** Javier Gómez Sánchez; Xoan Xosé Fernández Sánchez-Romate; Alberto Jiménez Suárez; Silvia González Prolongo. Self-Healing Activation by Conventional Resistive Heating through the Addition of Carbon Nanotubes in Epoxy Systems Based on Covalent Adaptable Networks. *ACS Applied Polymer Materials*. 6 - 2, pp. 1106 - 1115. American Chemical Society, 26/01/2024. ISSN 2637-6105  
**DOI:** 10.1021/acsapm.3c01022  
**Type of production:** Scientific paper **Format:** Journal
- 27** David Martínez Díaz; Emma Espeute; Alberto Jiménez Suárez; Silvia González Prolongo. Electrical and Joule Heating Capabilities of Multifunctional Coatings based on Recycled Carbon Fiber from Prepreg Scrap. *ACS Omega*. 8 - 49, pp. 46548 - 46559. ACS Publications, 28/11/2023. ISSN 2470-1343  
**DOI:** 10.1021/acsomega.3c05413  
**Type of production:** Scientific paper  
**Corresponding author:** No  
**Impact source:** WOS (JCR) **Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY  
**Impact index in year of publication:** 4.1 **Journal in the top 25%:** No  
**Position of publication:** 69 **No. of journals in the cat.:** 178
- 28** María Isabel Rodríguez Tapiador; Alberto Jiménez Suárez; Anil Lama; Nuria Gordillo; J.M. Asensi; Gilberto del Rosario; Jesús Merino; J Bertomeu; Arvind Agarwal; Susana Fernández. Effects of Deposition Temperature and Working Pressure on the Thermal and Nanomechanical Performances of Stoichiometric Cu<sub>3</sub>N: An Adaptable Material for Photovoltaic Applications. *Nanomaterials*. 13 - 22, MDPI, 15/03/2023.  
**Type of production:** Scientific paper  
**Corresponding author:** No



- 29** Rocío Calderón Villajos; Xoan Xosé Fernández Sánchez-Romate; Alberto Jiménez Suárez; Silvia González Prolongo. An Analysis of the Effect of Activation Temperature and Crack Geometry on the Healing Efficiency of Polycaprolactone (PCL)/Epoxy Blends. *Polymers*. 15 - 2, MDPI, 01/2023. ISSN 2073-4360  
**DOI:** 10.3390/polym15020336  
**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 4  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 4.967  
**Position of publication:** 16  
**Format:** Journal  
**Corresponding author:** Yes  
**Category:** Science Edition - POLYMER SCIENCE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 90
- 30** Luciana María Saiz; Margarita González Prolongo; María Victoria Bonache Bezoares; Alberto Jiménez Suárez; Silvia González Prolongo. Self-healing materials based on disulfide bond-containing acrylate networks. *Polymer Testing*. 117, Elsevier, 01/2023. ISSN 0142-9418  
**DOI:** 10.1016/j.polymertesting.2022.107832  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 5  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 4.931  
**Position of publication:** 18  
**Format:** Journal  
**Corresponding author:** No  
**Category:** Science Edition - POLYMER SCIENCE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 90  
**Impact source:** WOS (JCR)  
**Category:** Science Edition - MATERIALS SCIENCE, CHARACTERIZATION & TESTING  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 32  
**Impact index in year of publication:** 4.931  
**Position of publication:** 2
- 31** Ignacio Collado Roperro; Alberto Jiménez Suárez; Rocío Moriche Tirado; Gilberto del Rosario; Silvia González Prolongo. Electrical, Thermo-Electrical, and Electromagnetic Behaviour of Epoxy Composites Reinforced with Graphene Nanoplatelets with Different Average Surface Area. *Polymers*. 14 - 24, MDPI, 12/2022. ISSN 2073-4360  
**DOI:** 10.3390/polym14245520  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 5  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 4.967  
**Position of publication:** 16  
**Format:** Journal  
**Corresponding author:** No  
**Category:** Science Edition - POLYMER SCIENCE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 90
- 32** Alejandro Cortés Fernández; Alberto Jiménez Suárez; Alejandro Ureña Fernández; Silvia González Prolongo; Mónica Campo Gómez. Electrothermally Activated CNT/GNP-Doped Anti-icing and De-Icing Systems: A Comparison Study of 3D Printed Circuits versus Coatings. *Applied Sciences*. 09/2022. ISSN 20763417  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 5
- 33** David Martínez Díaz; Alejandro Cortés Fernández; Alberto Jiménez Suárez; Silvia González Prolongo. Hardener Isomerism and Content of Dynamic Disulfide Bond Effect on Chemical Recycling of Epoxy Networks. *ACS Applied Polymer Materials*. 08/07/2022. ISSN 26376105  
**DOI:** 10.1021/acsapm.2c00598  
**Type of production:** Scientific paper  
**Position of signature:** 3  
**Format:** Journal



**Total no. authors:** 4

- 34** Xoan Xosé Fernández Sánchez-Romate; Rodrigo Gutiérrez; Alejandro Cortés Fernández; Alberto Jiménez Suárez; Silvia González Prolongo. Multifunctional coatings based on GNP/epoxy systems: Strain sensing mechanisms and Joule's heating capabilities for de-icing applications. *Progress in Organic Coatings*. 167, 06/2022. ISSN 03009440  
**DOI:** 10.1016/j.porgcoat.2022.106829  
**Type of production:** Scientific paper
- 35** Rocío Calderón Villajos; Marilés Bonet Aracil; Eva Bou Belda; Jaime Gisbert Payá; Alberto Jiménez Suárez; Silvia González Prolongo. Thermoelectrical properties of graphene knife-coated cellulosic fabrics for defect monitoring in Joule-heated textiles. *Journal of Industrial Textiles*. pp. 8884 - 8895. 06/2022. ISSN 15280837  
**DOI:** 10.1177/15280837211056986  
**Type of production:** Scientific paper
- 36** Alejandro Cortés Fernández; Xoan Xosé Fernández Sánchez-Romate; José Luis Aguilar; Alberto Jiménez Suárez; Mónica Campo Gómez; Silvia González Prolongo. Electrothermally triggered selective shape memory capabilities of CNT doped nanocomposites by Digital Light Processing. *Composites Science and Technology*. 218, Elsevier, 08/02/2022. ISSN 0266-3538  
**DOI:** 10.1016/j.compscitech.2021.109185  
**Type of production:** Scientific paper  
**Format:** Journal  
**Position of signature:** 4  
**Corresponding author:** No  
**Total no. authors:** 6  
**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES  
**Impact source:** WOS (JCR)  
**Journal in the top 25%:** Yes  
**Impact index in year of publication:** 8.528  
**No. of journals in the cat.:** 28  
**Position of publication:** 2
- 37** Alejandro Cortés Fernández; Natalia Pérez Chao; Alberto Jiménez Suárez; Mónica Campo Gómez; Silvia González Prolongo. Sequential and selective shape memory by remote electrical control. *European Polymer Journal*. 164, Elsevier, 05/02/2022. ISSN 0014-3057  
**DOI:** 10.1016/j.eurpolymj.2021.110888  
**Type of production:** Scientific paper  
**Format:** Journal  
**Position of signature:** 3  
**Corresponding author:** No  
**Total no. authors:** 5  
**Category:** Polymer s  
**Impact source:** WOS (JCR)  
**Journal in the top 25%:** Yes  
**Impact index in year of publication:** 4.674  
**No. of journals in the cat.:** 90  
**Position of publication:** 15
- 38** Dasilva; Jiménez Suárez; Rodríguez; Gonzalez Prolongo. Quality assessment and structural health monitoring of CNT reinforced CFRP and Ti6Al4V multi-material joints. *Materials & Design*. 210, Elsevier, 15/11/2021. ISSN 0264-1275  
**DOI:** 10.1016/j.matdes.2021.110118  
**Type of production:** Scientific paper  
**Corresponding author:** No  
**Position of signature:** 2  
**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY  
**Total no. authors:** 4  
**Journal in the top 25%:** Yes  
**Impact source:** WOS (JCR)  
**No. of journals in the cat.:** 334  
**Impact index in year of publication:** 7.991  
**Position of publication:** 58



- 39** González Prolongo; González Díaz-Maroto; Jiménez Suárez. Electroactive shaping and shape memory of sequential dual-cured off-stoichiometric epoxy/CNT composites. *Journal of Materials Research and Technology*. 15, pp. 2970 - 2981. Elsevier, 11/2021. ISSN 2238-7854  
**DOI:** 10.1016/j.jmrt.2021.09.102  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 3  
**Total no. authors:** 3  
**Impact source:** WOS (JCR) **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY  
**Impact index in year of publication:** 5.039 **Journal in the top 25%:** No  
**Position of publication:** 104 **No. of journals in the cat.:** 334  
**Impact source:** WOS (JCR) **Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING  
**Impact index in year of publication:** 5.039 **Journal in the top 25%:** Yes  
**Position of publication:** 9 **No. of journals in the cat.:** 80
- 40** Alejandro Cortés Fernández; José Luis Aguilar; Andrea Cosola; Xoan Xosé Fernández Sánchez-Romate; Alberto Jiménez Suárez; Marco Sangermano; Mónica Campo Gómez; Silvia González Prolongo. 4D-Printed Resins and Nanocomposites Thermally Stimulated by Conventional Heating and IR Radiation. *ACS Applied Polymer Materials*. 3 - 10, pp. 5207 - 5215. AMER CHEMICAL SOC, 08/10/2021. ISSN 2637-6105  
**DOI:** 10.1021/acsapm.1c00970  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 5  
**Total no. authors:** 8  
**Impact source:** WOS (JCR) **Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 4.089 **Journal in the top 25%:** Yes  
**Position of publication:** 22 **No. of journals in the cat.:** 90
- 41** Alexander López Urionabarrenechea; Naia Gastelu; Jiménez Suárez; Gonzalez Prolongo; Adriana Serras Malillos; Esther Acha; Blanca María Caballero. Secondary Raw Materials from Residual Carbon Fiber-Reinforced Composites by An Upgraded Pyrolysis Process. *Polymers*. 13 - 19, MDPI, 10/2021. ISSN 2073-4360  
**DOI:** 10.3390/polym13193408  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 3  
**Total no. authors:** 7 **Corresponding author:** No  
**Impact source:** WOS (JCR) **Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 4.329 **Journal in the top 25%:** Yes  
**Position of publication:** 18 **No. of journals in the cat.:** 90
- 42** Xoan Xosé Fernández Sánchez-Romate; Andrés Alvarado; Alberto Jiménez Suárez; Silvia González Prolongo. Carbon Nanotube Reinforced Poly( $\epsilon$ -caprolactone)/Epoxy Blends for Superior Mechanical and Self-Sensing Performance in Multiscale Glass Fiber Composites. *Polymers*. 13 - 18, MDPI, 18/09/2021. ISSN 2073-4360  
**DOI:** 10.3390/polym13183159  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 3  
**Total no. authors:** 4  
**Impact source:** WOS (JCR) **Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 4.329 **Journal in the top 25%:** Yes  
**Position of publication:** 18 **No. of journals in the cat.:** 90



- 43** Xoan Xosé Fernández Sánchez-Romate; Alejandro Sans Parra; Alberto Jiménez Suárez; Silvia González Prolongo. The addition of graphene nanoplatelets into epoxy/polycaprolactone composites for autonomous self-healing activation by Joule's heating effect. *Composites Science and Technology*. 213, Elsevier, 08/09/2021. ISSN 0266-3538  
**DOI:** 10.1016/j.compscitech.2021.108950  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 3  
**Total no. authors:** 4  
**Impact source:** WOS (JCR) **Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES  
**Impact index in year of publication:** 8.528 **Journal in the top 25%:** Yes  
**Position of publication:** 2 **No. of journals in the cat.:** 28  
**Source of citations:** WOS **Citations:** 1
- 44** Alejandro Cortés Fernández; Alberto Jiménez Suárez; Mónica Campo Gómez; Alejandro Ureña Fernández; Silvia González Prolongo. Assessment of Manufacturing Parameters for New 3D-Printed Heating Circuits Based on CNT-Doped Nanocomposites Processed by UV-Assisted Direct Write. *Applied Sciences-Basel*. 11 - 16, MDPI, 17/08/2021. ISSN 2076-3417  
**DOI:** 10.3390/app11167534  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 2  
**Total no. authors:** 5  
**Impact source:** WOS (JCR) **Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY  
**Impact index in year of publication:** 2.679 **Journal in the top 25%:** No  
**Position of publication:** 38 **No. of journals in the cat.:** 90
- 45** Xoan Xosé Fernández Sánchez-Romate; Alberto Jiménez Suárez; Mónica Campo Gómez; Alejandro Ureña Fernández; Silvia González Prolongo. Electrical Properties and Strain Sensing Mechanisms in Hybrid Graphene Nanoplatelet/Carbon Nanotube Nanocomposites. *Sensors*. 21 - 16, MDPI, 17/08/2021. ISSN 1424-8220  
**DOI:** 10.3390/s21165530  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 5  
**Impact source:** WOS (JCR) **Category:** Science Edition - INSTRUMENTS & INSTRUMENTATION  
**Impact index in year of publication:** 3.576 **Journal in the top 25%:** Yes  
**Position of publication:** 14 **No. of journals in the cat.:** 64
- 46** Dasilva; Jiménez Suárez; Rodríguez; Gonzalez Prolongo. Influence of Manufacturing Process in Structural Health Monitoring and Mechanical Behaviour of CNT Reinforced CFRP and Ti6Al4V Multi-Material Joints. *Polymers*. 13 - 15, MDPI, 08/2021. ISSN 2073-4360  
**DOI:** 10.3390/polym13152488  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 4 **Corresponding author:** No  
**Impact source:** WOS (JCR) **Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 4.329 **Journal in the top 25%:** Yes  
**Position of publication:** 18 **No. of journals in the cat.:** 90

**Source of citations:** WOS**Citations:** 1

- 47** Ali Esmaeili; Claudio Sbarufatti; K Youssef; Alberto Jiménez Suárez; Alejandro Ureña Fernández; AMS Hamouda. 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*. TAYLOR & FRANCIS INC, 29/07/2021. ISSN 1537-6494

**DOI:** 10.1080/15376494.2021.1958397**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 4**Total no. authors:** 6**Impact source:** WOS (JCR)**Category:** Science Edition - MATERIALS SCIENCE, CHARACTERIZATION & TESTING**Impact index in year of publication:** 4.03**Journal in the top 25%:** Yes**Position of publication:** 6**No. of journals in the cat.:** 32

- 48** Alejandro Cortés Fernández; Xoan Xosé Fernández Sánchez-Romate; Alberto Jiménez Suárez; Mónica Campo Gómez; Ali Esmaeili; Claudio Sbarufatti; Alejandro Ureña Fernández; Silvia González Prolongo. Complex Geometry Strain Sensors Based on 3D Printed Nanocomposites: Spring, Three-Column Device and Footstep-Sensing Platform. *Nanomaterials*. 11 - 5, MDPI, 25/04/2021. ISSN 2079-4991

**DOI:** 10.3390/nano11051106**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 3**Total no. authors:** 8**Impact source:** WOS (JCR)**Category:** Science Edition - PHYSICS, APPLIED**Impact index in year of publication:** 5.076**Journal in the top 25%:** Yes**Position of publication:** 35**No. of journals in the cat.:** 160**Source of citations:** WOS**Citations:** 2

- 49** Xoan Xosé Fernández Sánchez-Romate; Álvaro Coca de los Santos; Alberto Jiménez Suárez; María Sánchez Martínez; Alejandro Ureña Fernández. Crack sensing mechanisms of Mode-II and skin-stringer joints between dissimilar materials by using carbon nanotubes. *Composites Science and Technology*. 201, Elsevier, 05/01/2021. ISSN 0266-3538

**DOI:** 10.1016/j.compscitech.2020.108553**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 5**Impact source:** WOS (JCR)**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES**Impact index in year of publication:** 7.094**Journal in the top 25%:** Yes**Position of publication:** 2**No. of journals in the cat.:** 26

- 50** Alejandro Cortés Fernández; Xoan Xosé Fernández Sánchez-Romate; Alberto Jiménez Suárez; Mónica Campo Gómez; Margarita González Prolongo; Alejandro Ureña Fernández; Silvia González Prolongo. 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*. 30 - 2, IOP PUBLISHING LTD, 31/12/2020. ISSN 0964-1726

**DOI:** 10.1088/1361-665X/abd343**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 3**Total no. authors:** 7

**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.585**Position of publication:** 13**Source of citations:** WOS**Category:** Science Edition - INSTRUMENTS & INSTRUMENTATION**Journal in the top 25%:** Yes**No. of journals in the cat.:** 64**Citations:** 2

- 51** Alejandro Cortés Fernández; Alberto Jiménez Suárez; Mónica Campo Gómez; Alejandro Ureña Fernández; Silvia González Prolongo. 3D printed epoxy-CNTs/GNPs conductive inks with application in anti-icing and de-icing systems. European Polymer Journal. 141, Elsevier, 05/12/2020. ISSN 0014-3057

**DOI:** 10.1016/j.eurpolymj.2020.110090**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 2**Total no. authors:** 5**Impact source:** WOS (JCR)**Category:** Science Edition - POLYMER SCIENCE**Impact index in year of publication:** 3.862**Journal in the top 25%:** Yes**Position of publication:** 14**No. of journals in the cat.:** 89

- 52** Ali Esmaili; Claudio Sbarufatti; Riccardo Casati; Alberto Jiménez Suárez; Alejandro Ureña Fernández; AMS Hamouda. 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. 110, Elsevier, 12/2020. ISSN 0167-8442

**DOI:** 10.1016/j.tafmec.2020.102831**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 4**Total no. authors:** 6**Impact source:** WOS (JCR)**Category:** Science Edition - MECHANICS**Impact index in year of publication:** 3.021**Journal in the top 25%:** Yes**Position of publication:** 33**No. of journals in the cat.:** 136

- 53** Xoan Xosé Fernández Sánchez Romate; Alejandro Sans Parras; Alberto Jiménez Suárez; Mónica Campo Gómez; Alejandro Ureña Fernández; Silvia González Prolongo. Highly Multifunctional GNP/Epoxy Nanocomposites: From Strain-Sensing to Joule Heating Applications. Nanomaterials. 10 - 12, MDPI, 12/2020. ISSN 2079-4991

**DOI:** 10.3390/nano10122431**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 3**Total no. authors:** 5**Impact source:** WOS (JCR)**Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY**Impact index in year of publication:** 4.323**Journal in the top 25%:** No**Position of publication:** 42**No. of journals in the cat.:** 103**Impact source:** WOS (JCR)**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Impact index in year of publication:** 4.324**Journal in the top 25%:** No**Position of publication:** 89**No. of journals in the cat.:** 314

- 54** Ali Esmaili; D Ma; Andrea Manes; T. Oggioni; Alberto Jiménez Suárez; Alejandro Ureña Fernández; AMS Hamouda; Claudio Sbarufatti. 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. 252, Elsevier, 15/11/2020. ISSN 0263-8223

**DOI:** 10.1016/j.compstruct.2020.112692**Type of production:** Scientific paper**Position of signature:** 5**Total no. authors:** 8**Impact source:** WOS (JCR)**Impact index in year of publication:** 5,138**Position of publication:** 6**Source of citations:** WOS**Source of citations:** SCOPUS**Format:** Journal**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES**No. of journals in the cat.:** 26**Citations:** 1**Citations:** 2

- 55** A. López Urionabarrenechea; Naia Gastelu; E Acha; BM Caballero; A. Orue; Alberto Jiménez Suárez; Silvia González Prolongo; Isabel de Marco. Reclamation of carbon fibers and added-value gases in a pyrolysis-based composites recycling process. Journal of cleaner production. 273, Elsevier SCI LTD, 10/11/2020. ISSN 0959-6526

**Type of production:** Scientific paper**Position of signature:** 6**Total no. authors:** 8**Impact source:** WOS (JCR)**Impact index in year of publication:** 7,246**Position of publication:** 8**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - ENGINEERING, ENVIRONMENTAL**Journal in the top 25%:** Yes**No. of journals in the cat.:** 53**Citations:** 1

- 56** Ali Esmaili; Claudio Sbarufatti; Alberto Jiménez Suárez; Abdel Magid Hamouda; Ludovica Rovatti; Alejandro Ureña Fernández. Synergistic effects of double-walled carbon nanotubes and nanoclays on mechanical, electrical and piezoresistive properties of epoxy based nanocomposites. Composites Science and Technology. 200, ELSEVIER SCI LTD, 10/11/2020. ISSN 0266-3538

**DOI:** 10.1016/j.compscitech.2020.108459**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 6**Impact source:** WOS (JCR)**Impact index in year of publication:** 7.094**Position of publication:** 2**Source of citations:** WOS**Source of citations:** SCOPUS**Format:** Journal**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 26**Citations:** 1**Citations:** 1

- 57** Alberto Jiménez Suárez; Jonathan Martín González; Xoan Xosé Fernández Sánchez-Romate; Silvia González Prolongo. Carbon nanotubes to enable autonomous and volumetric self-heating in epoxy/polycaprolactone blends. Composites Science and Technology. 199, 20/10/2020. ISSN 0266-3538

**DOI:** 10.1016/j.compscitech.2020.108321**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 4**Impact source:** WOS (JCR)**Impact index in year of publication:** 7,094**Corresponding author:** Yes**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES**Journal in the top 25%:** Yes

**Position of publication:** 2**Source of citations:** WOS**Source of citations:** SCOPUS**No. of journals in the cat.:** 26**Citations:** 1**Citations:** 1

- 58** Xoan Xosé Fernández Sánchez-Romate; Virginia Saiz; Alberto Jiménez Suárez; Mónica Campo Gómez; Alejandro Ureña Fernández. The role of graphene interactions and geometry on thermal and electrical properties of epoxy nanocomposites: A theoretical to experimental approach. *Polymer Testing*. 90, 10/2020. ISSN 0142-9418

**DOI:** 10.1016/j.polymertesting.2020.106638**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 5**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.275**Position of publication:** 6**Source of citations:** WOS**Source of citations:** SCOPUS**Format:** Journal**Corresponding author:** No**Category:** Science Edition - MATERIALS SCIENCE, CHARACTERIZATION & TESTING**Journal in the top 25%:** Yes**No. of journals in the cat.:** 33**Citations:** 1**Citations:** 1

- 59** Kundo Park; Diego Scaccabarozzi; Claudio Sbarufatti; Alberto Jiménez Suárez; Alejandro Ureña Fernández; Seunghwa Ryu; Flavia Libonati. Coupled health monitoring system for CNT-doped self-sensing composites. *Carbon*. 166, pp. 193 - 204. PERGAMON-ELSEVIER SCIENCE LTD, 30/09/2020. ISSN 0008-6223

**DOI:** 10.1016/j.carbon.2020.04.060**Type of production:** Scientific paper**Position of signature:** 4**Total no. authors:** 7**Impact source:** WOS (JCR)**Impact index in year of publication:** 8.821**Position of publication:** 32**Format:** Journal**Corresponding author:** No**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 314

- 60** Ali Esmeali; Claudio Sbarufatti; D Ma; Andrea Manes; Alberto Jiménez Suárez; Alejandro Ureña Fernández; D Dellasega; A.M.S Hamouda. Piezoresistive characterization of epoxy based nanocomposites loaded with SWCNTs-DWCNTs in tensile and fracture tests. *Polymer Composites*. 41 - 7, pp. 2598 - 2609. Wiley, 07/2020. ISSN 0272-8397

**DOI:** 10.1002/pc.25558**Type of production:** Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 2.265**Position of publication:** 12**Source of citations:** WOS**Source of citations:** SCOPUS**Format:** Journal**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES**Journal in the top 25%:** No**No. of journals in the cat.:** 26**Citations:** 4**Citations:** 4

- 61** Xoan Xosé Fernández Sánchez-Romate; Rocío Moriche Tirado; Ángel Renato Pozo; Alberto Jiménez Suárez; María Sánchez Martínez; Alfredo Güemes Gordo; Alejandro Ureña Fernández. Monitoring crack propagation in skin-stringer elements using carbon nanotube doped adhesive films: Influence of defects and manufacturing process. *Composites Science and Technology*. 193, Elsevier, 16/06/2020. ISSN 0266-3538

**DOI:** 10.1016/j.compscitech.2020.108147

**Type of production:** Scientific paper

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 6.309

**Position of publication:** 2

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 25

**Citations:** 2

**Citations:** 2

- 62** Rocío Moriche Tirado; Miguel Ángel Moreno Avilés; Alberto Jiménez Suárez; Silvia González Prolongo; Alejandro Ureña Fernández. Graphene nanoplatelets electrical networks as highly efficient self-heating materials for glass fiber fabrics. JOURNAL OF INDUSTRIAL TEXTILES. SAGE PUBLICATIONS INC, 06/2020. ISSN 1528-0837

**DOI:** 10.1177/1528083720931482

**Type of production:** Scientific paper

**Position of signature:** 3

**Total no. authors:** 5

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 2.01

**Position of publication:** 4

**Format:** Journal

**Category:** Science Edition - MATERIALS SCIENCE, TEXTILES

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 24

- 63** Xoan Xosé Fernández Sánchez-Romate; Rocío Moriche Tirado; Alberto Jiménez Suárez; María Sánchez Martínez; Silvia González Prolongo; Alejandro Ureña Fernández. Sensitive response of GNP/epoxy coatings as strain sensors: analysis of tensile-compressive and reversible cyclic behavior. Smart Materials and Structures. 29 - 6, 06/2020. ISSN 0964-1726

**DOI:** 10.1088/1361-665X/ab8316

**Type of production:** Scientific paper

**Position of signature:** 3

**Total no. authors:** 6

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 3.613

**Position of publication:** 10

**Format:** Journal

**Category:** Science Edition - INSTRUMENTS & INSTRUMENTATION

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 64

- 64** Mónica Campo Gómez; Alberto Jiménez Suárez; Alejandro Ureña Fernández. Tribological Properties of Different Types of Graphene Nanoplatelets as Additives for the Epoxy Resin. APPLIED SCIENCES-BASEL. 10 - 12, 06/2020. ISSN 2076-3417

**DOI:** 10.3390/app10124363

**Type of production:** Scientific paper

**Position of signature:** 2

**Total no. authors:** 3

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 2.474

**Position of publication:** 32

**Format:** Journal

**Corresponding author:** Yes

**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 91



- 65** Ali Esmaeli; Claudio Sbarufatti; Alberto Jiménez Suárez; Alejandro Ureña Fernández; AMS Hamouda. 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*. 27 - 6, Springer, 16/05/2020. ISSN 1022-9760  
**DOI:** 10.1007/s10965-020-02135-z  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 3  
**Total no. authors:** 5  
**Impact source:** WOS (JCR) **Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 1.530 **Journal in the top 25%:** No  
**Position of publication:** 54 **No. of journals in the cat.:** 87  
**Source of citations:** WOS **Citations:** 2  
**Source of citations:** SCOPUS **Citations:** 2
- 66** Alejandro Cortés Fernández; Xoan Xosé Fernández Sánchez-Romate; Alberto Jiménez Suárez; Mónica Campo Gómez; Alejandro Ureña Fernández; Silvia González Prolongo. Mechanical and Strain-Sensing Capabilities of Carbon Nanotube Reinforced Composites by Digital Light Processing 3D Printing Technology. *Polymers*. 12, 22/04/2020. ISSN 2073-4360  
**DOI:** 10.3390/polym12040975  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** WOS (JCR) **Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 3.164 **Journal in the top 25%:** Yes  
**Position of publication:** 17 **No. of journals in the cat.:** 87  
**Source of citations:** SCOPUS **Citations:** 1
- 67** Alberto Jiménez Suárez; Gilberto del Rosario; Xoan Xosé Fernández Sánchez-Romate; Silvia González Prolongo. Influence of Morphology on the Healing Mechanism of PCL/Epoxy Blends. *Materials*. 193, MDPI, 20/04/2020. ISSN 1996-1944  
**DOI:** 10.3390/ma13081941  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 1  
**Total no. authors:** 4  
**Impact source:** WOS (JCR) **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY  
**Impact index in year of publication:** 2.972 **Journal in the top 25%:** No  
**Position of publication:** 102 **No. of journals in the cat.:** 293  
**Source of citations:** WOS **Citations:** 1  
**Source of citations:** SCOPUS **Citations:** 1
- 68** Xoan Xosé Fernández Sánchez-Romate; Alberto Jiménez Suárez; María Sánchez Martínez; Silvia González Prolongo; Alfredo Güemes Gordo; Alejandro Ureña Fernández. Electrical Monitoring as a Novel Route to Understanding the Aging Mechanisms of Carbon Nanotube-Doped Adhesive Film Joints. *Applied Sciences-Basel*. 10 - 7, 04/2020. ISSN 2076-3417  
**DOI:** 10.3390/app10072566  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 2 **Corresponding author:** No  
**Total no. authors:** 6  
**Impact source:** WOS (JCR)

**Impact index in year of publication:** 2.474**Position of publication:** 32**Source of citations:** WOS**Source of citations:** SCOPUS**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY**Journal in the top 25%:** No**No. of journals in the cat.:** 91**Citations:** 1**Citations:** 1

- 69** Xoan Xosé Fernández Sánchez-Romate; Jonathan Martín González; Alberto Jiménez Suárez; Silvia González Prolongo; Alejandro Ureña Fernández. Mechanical and strain sensing properties of carbon nanotube reinforced epoxy/poly(caprolactone) blends. *Polymer*. 190, ELSEVIER SCI LTD, 02/03/2020. ISSN 0032-3861

**DOI:** 10.1016/j.polymer.2020.122236**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 5**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.771**Position of publication:** 13**Source of citations:** WOS**Source of citations:** SCOPUS**Format:** Journal**Category:** Science Edition - POLYMER SCIENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 87**Citations:** 4**Citations:** 4

- 70** Ali Esmeali; Claudio Sbarufatti; D Ma; Andrea Manes; Alberto Jiménez Suárez; Alejandro Ureña Fernández; D Dellasega; A.M.S Hamouda. Strain and crack growth sensing capability of SWCNT reinforced epoxy in tensile and mode I fracture tests. *Composites Science and Technology*. 186, Elsevier, 20/01/2020. ISSN 0266-3538

**DOI:** 10.1016/j.compscitech.2019.107918**Type of production:** Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 6.309**Position of publication:** 2**Source of citations:** WOS**Source of citations:** SCOPUS**Format:** Journal**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 25**Citations:** 11**Citations:** 11

- 71** Dayou Ma; Abdel Magid Hamouda; Andrea Manes; Claudio Sbarufatti; Alberto Jiménez Suárez; Marco Giglio; Ali Esmali. Numerical study of static and dynamic fracture behaviours of neat epoxy resin. *Mechanics of Materials*. 140, ELSEVIER, 01/2020. ISSN 0167-6636

**DOI:** 10.1016/j.mechmat.2019.103214**Type of production:** Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 2.958**Position of publication:** 24**Source of citations:** WOS**Source of citations:** SCOPUS**Category:** Science Edition - MECHANICS**Journal in the top 25%:** Yes**No. of journals in the cat.:** 134**Citations:** 5**Citations:** 5



- 72** Xoan Xosé Fernández Sánchez-Romate; Lucía Baena; Alberto Jiménez Suárez; María Sánchez Martínez; Alfredo Güemes Gordo; Alejandro Ureña Fernández. Exploring the mechanical and sensing capabilities of multi-material bonded joints with carbon nanotube-doped adhesive films. COMPOSITE STRUCTURES. 229, 01/12/2019. ISSN 0263-8223  
**DOI:** 10.1016/j.compstruct.2019.111477  
**Type of production:** Scientific paper  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 4.829  
**Position of publication:** 6  
**Source of citations:** WOS  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 25  
**Citations:** 6  
**Citations:** 6
- 73** Sanchez, M.; Moriche, R. B.; Prolongo, S. G. A.; Marron, A. R.; Jimenez-Suarez, A.; Urena, A.. Evaluation of sensitivity for detecting different failure modes of epoxy matrix composites doped with graphene nanoparticles. COMPOSITE STRUCTURES. 225, 01/10/2019. ISSN 0263-8223  
**DOI:** 10.1016/j.compstruct.2019.111167  
**Type of production:** Scientific paper  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 5.138  
**Position of publication:** 6  
**Source of citations:** WOS  
**Source of citations:** SCOPUS  
**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 26  
**Citations:** 4  
**Citations:** 4
- 74** Sanchez-Romate, Xoan F.; Moriche, Rocio; Jimenez-Suarez, Alberto; Sanchez, Maria; Guemes, Alfredo; Urena, Alejandro. An approach using highly sensitive carbon nanotube adhesive films for crack growth detection under flexural load in composite structures. COMPOSITE STRUCTURES. 224, 15/09/2019. ISSN 0263-8223  
**DOI:** 10.1016/j.compstruct.2019.111087  
**Type of production:** Scientific paper  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 5.138  
**Position of publication:** 6  
**Source of citations:** WOS  
**Source of citations:** SCOPUS  
**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 26  
**Citations:** 7  
**Citations:** 7
- 75** Sanchez-Romate, Xoan F.; Artigas, Joaquin; Jimenez-Suarez, Alberto; Sanchez, Maria; Guemes, Alfredo; Urena, Alejandro. Critical parameters of carbon nanotube reinforced composites for structural health monitoring applications: Empirical results versus theoretical predictions. COMPOSITES SCIENCE AND TECHNOLOGY. 171, 08/02/2019. ISSN 0266-3538  
**DOI:** 10.1016/j.compscitech.2018.12.010  
**Type of production:** Scientific paper  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 7.094  
**Position of publication:** 2  
**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 26

**Source of citations:** WOS**Citations:** 18**Source of citations:** SCOPUS**Citations:** 21

**76** Prolongo, Silvia G.; Moriche, Rocio; Jimenez-Suarez, Alberto; Delgado, Andrea; Urena, Alejandro. Printable self-heating coatings based on the use of carbon nanoreinforcements. POLYMER COMPOSITES. 01/2019. ISSN 0272-8397

**DOI:** 10.1002/pc.25367**Type of production:** Scientific paper**Impact source:** WOS (JCR)**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES**Impact index in year of publication:** 2.265**Journal in the top 25%:** No**Position of publication:** 12**No. of journals in the cat.:** 26**Source of citations:** WOS**Citations:** 1**Source of citations:** SCOPUS**Citations:** 2

**77** Sanchez-Romate, Xoan F.; Jimenez-Suarez, Alberto; Molinero, Javier; Sanchez, Maria; Guemes, Alfredo; Urena, Alejandro. Development of bonded joints using novel CNT doped adhesive films: Mechanical and electrical properties. INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES. 86, pp. 98 - 104. 11/2018. ISSN 0143-7496

**DOI:** 10.1016/j.ijadhadh.2018.09.001**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 6**Impact source:** WOS (JCR)**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Impact index in year of publication:** 2.501**Journal in the top 25%:** No**Position of publication:** 135**No. of journals in the cat.:** 293**Source of citations:** WOS**Citations:** 13**Source of citations:** SCOPUS**Citations:** 14

**78** Moriche, Rocio; Jimenez-Suarez, Alberto; Sanchez, Maria; Prolongo, Silvia G.; Urena, Alejandro. High sensitive damage sensors based on the use of functionalized graphene nanoplatelets coated fabrics as reinforcement in multiscale composite materials. COMPOSITES PART B-ENGINEERING. 149, pp. 31 - 37. 15/09/2018. ISSN 1359-8368

**DOI:** 10.1016/j.compositesb.2018.05.013**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 5**Impact source:** WOS (JCR)**Category:** Science Edition - MATERIALS SCIENCE, COATINGS & FILMS**Impact index in year of publication:** 6.864**Journal in the top 25%:** Yes**Position of publication:** 1**No. of journals in the cat.:** 25**Source of citations:** WOS**Citations:** 12**Source of citations:** SCOPUS**Citations:** 13

**79** Prolongo, Silvia G.; Jimenez-Suarez, Alberto; Moriche, Rocio; Urena, Alejandro. Influence of Thickness and Lateral Size of Graphene Nanoplatelets on Water Uptake in Epoxy/Graphene Nanocomposites. APPLIED SCIENCES-BASEL. 8 - 9, 09/2018. ISSN 2076-3417



**DOI:** 10.3390/app8091550

**Type of production:** Scientific paper

**Position of signature:** 2

**Total no. authors:** 4

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 2.217

**Position of publication:** 67

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Category:** Science Edition - PHYSICS, APPLIED

**Journal in the top 25%:** No

**No. of journals in the cat.:** 148

**Citations:** 12

**Citations:** 13

- 80** Moriche, R.; Jimenez-Suarez, A.; Sanchez, M.; Prolongo, S. G.; Urena, A.. Sensitivity, influence of the strain rate and reversibility of GNPs based multiscale composite materials for high sensitive strain sensors. COMPOSITES SCIENCE AND TECHNOLOGY. 155, pp. 100 - 107. 08/02/2018. ISSN 0266-3538

**DOI:** 10.1016/j.compscitech.2017.12.002

**Type of production:** Scientific paper

**Position of signature:** 2

**Total no. authors:** 5

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 6.309

**Position of publication:** 2

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 25

**Citations:** 13

**Citations:** 14

- 81** Fernandez Sanchez-Romate, Xoan Xose; Molinero, Javier; Jimenez-Suarez, Alberto; Sanchez, Maria; Guemes, Alfredo; Urena, Alejandro. Carbon Nanotube-Doped Adhesive Films for Detecting Crack Propagation on Bonded Joints: A Deeper Understanding of Anomalous Behaviors. ACS APPLIED MATERIALS & INTERFACES. 9 - 49, pp. 43267 - 43274. 13/12/2017. ISSN 1944-8244

**DOI:** 10.1021/acsami.7b16036

**PMID:** 29168386

**Type of production:** Scientific paper

**Position of signature:** 3

**Total no. authors:** 5

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 8.097

**Position of publication:** 26

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 285

**Citations:** 11

**Citations:** 16

- 82** Xoan Xosé Fernández Sánchez-Romate; Rocío Moriche Tirado; Alberto Jiménez Suárez; María Sánchez Martínez; Silvia González Prolongo; Alfredo Güemes Gordo; Alejandro Ureña Fernández. Highly sensitive strain gauges with carbon nanotubes: From bulk nanocomposites to multifunctional coatings for damage sensing. Applied Surface Science. 424, pp. 213 - 221. 01/12/2017. Available on-line at: <<http://dx.doi.org/10.1016/j.apsusc.2017.03.234>>. ISSN 0169-4332

**DOI:** 10.1016/j.apsusc.2017.03.23

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 3**Total no. authors:** 756**Impact source:** WOS (JCR)**Impact index in year of publication:** 4.439**Position of publication:** 1**Source of citations:** WOS**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Science Edition - MATERIALS SCIENCE, COATINGS & FILMS**Journal in the top 25%:** Yes**No. of journals in the cat.:** 19**Citations:** 10**83** Moriche, R.; Jimenez-Suarez, A.; Sanchez, M.; Prolongo, S. G.; Urena, A.. Graphene nanoplatelets coated glass fibre fabrics as strain sensors. COMPOSITES SCIENCE AND TECHNOLOGY. 146, pp. 59 - 64. ELSEVIER SCI LTD, 07/07/2017. ISSN 0266-3538**DOI:** 10.1016/j.compscitech.2017.04.019**Type of production:** Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 5.160**Position of publication:** 1**Source of citations:** WOS**Source of citations:** SCOPUS**Format:** Journal**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 26**Citations:** 35**Citations:** 36**84** Moriche, Rocio; Prolongo, Silvia G; Sanchez, Maria; Jimenez-Suarez, Alberto; Campo, Monica; Urena, Alejandro. Strain Sensing Based on Multiscale Composite Materials Reinforced with Graphene Nanoplatelets. Journal of visualized experiments : JoVE. 117, 07/11/2016. ISSN 1940-087X**DOI:** 10.3791/54512**Type of production:** Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 1.232**Position of publication:** 28**Source of citations:** WOS**Source of citations:** SCOPUS**Format:** Journal**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES**Journal in the top 25%:** No**No. of journals in the cat.:** 64**Citations:** 3**Citations:** 3**85** Prolongo, S. G.; Moriche, R.; Del Rosario, G.; Jimenez-Suarez, A.; Prolongo, M. G.; Urena, A.. Joule effect self-heating of epoxy composites reinforced with graphitic nanofillers. JOURNAL OF POLYMER RESEARCH. 23 - 9, SPRINGER, 15/08/2016. ISSN 1572-8935**DOI:** 10.1007/s10965-016-1092-4**Type of production:** Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 1.615**Position of publication:** 40**Source of citations:** WOS**Source of citations:** SCOPUS**Format:** Journal**Category:** Science Edition - POLYMER SCIENCE**Journal in the top 25%:** No**No. of journals in the cat.:** 86**Citations:** 12**Citations:** 12



- 86** Moriche, R.; Sanchez, M.; Jimenez-Suarez, A.; Prolongo, S. G.; Urena, A.. Electrically conductive functionalized-GNP/epoxy based composites: From nanocomposite to multiscale glass fibre composite material. COMPOSITES PART B-ENGINEERING. 98, pp. 49 - 55. ELSEVIER SCI LTD, 01/08/2016. ISSN 1879-1069  
**DOI:** 10.1016/j.compositesb.2016.04.081  
**Type of production:** Scientific paper  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 4.727  
**Position of publication:** 2  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 4.727  
**Position of publication:** 3  
**Source of citations:** WOS  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 25  
**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 85  
**Citations:** 31  
**Citations:** 31
- 87** Rocío Moriche Tirado; Silvia González Prolongo; María Sánchez Martínez; Alberto Jiménez Suárez; Francisco Javier Chamizo; Alejandro Ureña Fernández. Thermal conductivity and lap shear strength of GNP/epoxy nanocomposites adhesives. International Journal of Adhesion and Adhesives. 68, pp. 407 - 410. Elsevier Sci LTD, 07/2016. Available on-line at: <<http://dx.doi.org/10.1016/j.ijadhadh.2015.12.012>>. ISSN 0143-7496  
**DOI:** 10.1016/j.ijadhadh.2015.12.012  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 6  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 2.211  
**Position of publication:** 112  
**Source of citations:** WOS  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 275  
**Citations:** 29  
**Citations:** 32
- 88** Jimenez-Suarez, A.; Campo, M.; Prolongo, S. G.; Sanchez, M.; Urena, A.. Effect of filtration in functionalized and non-functionalized CNTs and surface modification of fibers as an effective alternative approach. COMPOSITES PART B-ENGINEERING. 94, pp. 286 - 291. ELSEVIER SCI LTD, 01/06/2016. ISSN 1879-1069  
**DOI:** 10.1016/j.compositesb.2016.02.063  
**Type of production:** Scientific paper  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 4.727  
**Position of publication:** 2  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 4.727  
**Position of publication:** 3  
**Source of citations:** WOS  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 25  
**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 85  
**Citations:** 9  
**Citations:** 9



- 89** Sanchez-Romate, Xoan F.; Jimenez-Suarez, Alberto; Sanchez, Maria; Guemes, Alfredo; Urena, Alejandro. Novel approach to percolation threshold on electrical conductivity of carbon nanotube reinforced nanocomposites. RSC ADVANCES. 6 - 49, pp. 43418 - 43428. ROYAL SOC CHEMISTRY, 18/04/2016. ISSN 2046-2069  
**DOI:** 10.1039/c6ra03619h  
**Type of production:** Scientific paper  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 3.108  
**Position of publication:** 59  
**Source of citations:** WOS  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 166  
**Citations:** 17  
**Citations:** 19
- 90** Moriche, R.; Sanchez, M.; Jimenez-Suarez, A.; Prolongo, S. G.; Urena, A.. Strain monitoring mechanisms of sensors based on the addition of graphene nanoplatelets into an epoxy matrix. COMPOSITES SCIENCE AND TECHNOLOGY. 123, pp. 65 - 70. ELSEVIER SCI LTD, 08/02/2016. ISSN 0266-3538  
**DOI:** 10.1016/j.compscitech.2015.12.002  
**Type of production:** Scientific paper  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 4.873  
**Position of publication:** 1  
**Source of citations:** WOS  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 25  
**Citations:** 53  
**Citations:** 55
- 91** Moriche, Rocio; Sanchez, Maria; Prolongo, Silvia G.; Jimenez-Suarez, Alberto; Urena, Alejandro. Reversible phenomena and failure localization in self-monitoring GNP/epoxy nanocomposites. COMPOSITE STRUCTURES. 136, pp. 101 - 105. ELSEVIER SCI LTD, 02/2016. ISSN 0263-8223  
**DOI:** 10.1016/j.compstruct.2015.10.006  
**Type of production:** Scientific paper  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 3.858  
**Position of publication:** 5  
**Source of citations:** WOS  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 25  
**Citations:** 11  
**Citations:** 11
- 92** Jimenez-Suarez, A.; Moriche, R.; Prolongo, S. G.; Sanchez, M.; Urena, A.. GNPs reinforced epoxy nanocomposites used as thermal interface materials. JOURNAL OF NANO RESEARCH. 38, pp. 18 - 25. TRANS TECH PUBLICATIONS LTD, 01/2016. ISSN 1661-9897  
**DOI:** 10.4028/www.scientific.net/JNanoR.38.18  
**Type of production:** Scientific paper  
**Impact source:** WOS (JCR)  
**Impact index in year of publication:** 0.511  
**Position of publication:** 140  
**Impact source:** WOS (JCR)  
**Format:** Journal  
**Category:** Science Edition - PHYSICS, APPLIED  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 148  
**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY



**Impact index in year of publication:** 0.511  
**Position of publication:** 247

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 0.511  
**Position of publication:** 82

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 275

**Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 87

**Citations:** 1

**Citations:** 1

- 93** Prolongo, S. G.; Jimenez-Suarez, A.; Del Rosario, G.; Urena, A.. High mobility of carbon nanotubes into thermosetting matrix. EUROPEAN POLYMER JOURNAL. 74, pp. 209 - 217. PERGAMON-ELSEVIER SCIENCE LTD, 01/2016. ISSN 0014-3057

**DOI:** 10.1016/j.eurpolymj.2015.11.029

**Type of production:** Scientific paper

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 3.531  
**Position of publication:** 13

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - POLYMER SCIENCE

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 86

**Citations:** 1

**Citations:** 1

- 94** Moriche, R.; Prolongo, S. G.; Sanchez, M.; Jimenez-Suarez, A.; Sayagues, M. J.; Urena, A.. Morphological changes on graphene nanoplatelets induced during dispersion into an epoxy resin by different methods. COMPOSITES PART B-ENGINEERING. 72, pp. 199 - 205. ELSEVIER SCI LTD, 04/2015. ISSN 1879-1069

**DOI:** 10.1016/j.compositesb.2014.12.012

**Type of production:** Scientific paper

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 3.85  
**Position of publication:** 3

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 3.85  
**Position of publication:** 4

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 25

**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 85

**Citations:** 59

**Citations:** 64

- 95** Campo, M.; Jimenez-Suarez, A.; Urena, A.. Effect of type, percentage and dispersion method of multi-walled carbon nanotubes on tribological properties of epoxy composites. WEAR. 324, pp. 100 - 108. ELSEVIER SCIENCE SA, 15/02/2015. ISSN 1873-2577

**DOI:** 10.1016/j.wear.2014.12.013

**Type of production:** Scientific paper

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 2.323  
**Position of publication:** 19

**Format:** Journal

**Category:** Science Edition - ENGINEERING, MECHANICAL

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 132



**Impact source:** WOS (JCR)

**Impact index in year of publication:** 2.323

**Position of publication:** 80

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 271

**Citations:** 22

**Citations:** 26

- 96** Prolongo, S. G.; Moriche, R.; Jimenez-Suarez, A.; Sanchez, M.; Urena, A.. Advantages and disadvantages of the addition of graphene nanoplatelets to epoxy resins. EUROPEAN POLYMER JOURNAL. 61, pp. 206 - 214. PERGAMON-ELSEVIER SCIENCE LTD, 12/2014. ISSN 1873-1945

**DOI:** 10.1016/j.eurpolymj.2014.09.022

**Type of production:** Scientific paper

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 3.005

**Position of publication:** 19

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - POLYMER SCIENCE

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 82

**Citations:** 96

**Citations:** 102

- 97** Prolongo, S. G.; Meliton, B. E.; Jimenez-Suarez, A.; Urena, A.. Study of efficiency of different commercial carbon nanotubes on manufacturing of epoxy matrix composites. JOURNAL OF COMPOSITE MATERIALS. 48 - 25, pp. 3169 - 3177. SAGE PUBLICATIONS LTD, 10/2014. ISSN 0021-9983

**DOI:** 10.1177/0021998313507617

**Type of production:** Scientific paper

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 1.173

**Position of publication:** 11

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES

**Journal in the top 25%:** No

**No. of journals in the cat.:** 24

**Citations:** 7

**Citations:** 7

- 98** Prolongo, S. G.; Moriche, R.; Jimenez-Suarez, A.; Sanchez, M.; Urena, A.. Epoxy Adhesives Modified with Graphene for Thermal Interface Materials. JOURNAL OF ADHESION. 90 - 10, pp. 835 - 847. TAYLOR & FRANCIS LTD, 20/05/2014. ISSN 0021-8464

**Type of production:** Scientific paper

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 1.417

**Position of publication:** 63

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 1.417

**Position of publication:** 64

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - MECHANICS

**Journal in the top 25%:** No

**No. of journals in the cat.:** 137

**Category:** Science Edition - ENGINEERING, CHEMICAL

**Journal in the top 25%:** No

**No. of journals in the cat.:** 135

**Citations:** 12

**Citations:** 12



- 99** Prolongo, S. G.; Jimenez-Suarez, A.; Moriche, R.; Urena, A.. Graphene nanoplatelets thickness and lateral size influence on the morphology and behavior of epoxy composites. EUROPEAN POLYMER JOURNAL. 53, pp. 292 - 301. PERGAMON-ELSEVIER SCIENCE LTD, 01/04/2014. ISSN 1873-1945

DOI: 10.1016/j.eurpolymj.2014.01.019

**Type of production:** Scientific paper

**Position of signature:** 2

**Total no. authors:** 4

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 3.005

**Position of publication:** 19

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** Science Edition - POLYMER SCIENCE

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 82

**Citations:** 42

**Citations:** 48

- 100** Prolongo, S. G.; Jimenez-Suarez, A.; Meliton, B. G.; Campo, M.; Urena, A.. Optimum Dispersion Technique of Carbon Nanotubes in Epoxy Resin as a Function of the Desired Behaviour. JOURNAL OF NANO RESEARCH. 26, pp. 177 - 186. TRANS TECH PUBLICATIONS LTD, 01/2014. ISSN 1662-5250

DOI: 10.4028/www.scientific.net/JNanoR.26.177

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 5

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 0.564

**Position of publication:** 129

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 0.564

**Position of publication:** 221

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 0.564

**Position of publication:** 76

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** Science Edition - PHYSICS, APPLIED

**Journal in the top 25%:** No

**No. of journals in the cat.:** 144

**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 260

**Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 80

**Citations:** 3

**Citations:** 4

- 101** Prolongo, S. G.; Jimenez-Suarez, A.; Moriche, R.; Urena, A.. In situ processing of epoxy composites reinforced with graphene nanoplatelets. COMPOSITES SCIENCE AND TECHNOLOGY. 86, pp. 185 - 191. ELSEVIER SCI LTD, 24/09/2013. ISSN 0266-3538

DOI: 10.1016/j.compscitech.2013.06.020

**Type of production:** Scientific paper

**Position of signature:** 2

**Total no. authors:** 4

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 3.633

**Position of publication:** 1

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 24



**Source of citations:** WOS

**Citations:** 67

**Source of citations:** SCOPUS

**Citations:** 71

- 102** Jimenez-Suarez, A.; Campo, M.; Gaztelumendi, I.; Markaide, N.; Sanchez, M.; Urena, A.. The influence of mechanical dispersion of MWCNT in epoxy matrix by calendaring method: Batch method versus time controlled. COMPOSITES PART B-ENGINEERING. 48, pp. 88 - 94. ELSEVIER SCI LTD, 05/2013. ISSN 1879-1069

**DOI:** 10.1016/j.compositesb.2012.12.011

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** WOS (JCR)

**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES

**Impact index in year of publication:** 2.602

**Journal in the top 25%:** Yes

**Position of publication:** 5

**No. of journals in the cat.:** 24

**Impact source:** WOS (JCR)

**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY

**Impact index in year of publication:** 2.602

**Journal in the top 25%:** Yes

**Position of publication:** 7

**No. of journals in the cat.:** 87

**Source of citations:** WOS

**Citations:** 21

**Source of citations:** SCOPUS

**Citations:** 27

- 103** Sanchez, M.; Campo, M.; Jimenez-Suarez, A.; Urena, A.. Effect of the carbon nanotube functionalization on flexural properties of multiscale carbon fiber/epoxy composites manufactured by VARIM. COMPOSITES PART B-ENGINEERING. 45 - 1, pp. 1613 - 1619. ELSEVIER SCI LTD, 01/02/2013. ISSN 1359-8368

**DOI:** 10.1016/j.compositesb.2012.09.063

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** WOS (JCR)

**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES

**Impact index in year of publication:** 2.602

**Journal in the top 25%:** Yes

**Position of publication:** 5

**No. of journals in the cat.:** 24

**Impact source:** WOS (JCR)

**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY

**Impact index in year of publication:** 2.602

**Journal in the top 25%:** Yes

**Position of publication:** 7

**No. of journals in the cat.:** 87

**Source of citations:** WOS

**Citations:** 97

**Citations:** 77

- 104** Jimenez-Suarez, A.; Campo, M.; Sanchez, M.; Romon, C.; Urena, A.. Dispersion of carbon nanofibres in a low viscosity resin by calendaring process to manufacture multiscale composites by VARIM. COMPOSITES PART B-ENGINEERING. 43 - 8, pp. 3104 - 3113. ELSEVIER SCI LTD, 12/2012. ISSN 1359-8368

**DOI:** 10.1016/j.compositesb.2012.04.030

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 1

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 5

**Impact source:** WOS (JCR)

**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES

**Impact index in year of publication:** 2.143

**Journal in the top 25%:** Yes



**Position of publication:** 5

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 2.143

**Position of publication:** 7

**Source of citations:** WOS

**Source of citations:** SCOPUS

**No. of journals in the cat.:** 24

**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 90

**Citations:** 12

**Citations:** 16

**105** Jimenez-Suarez, A.; Campo, M.; Sanchez, M.; Romon, C.; Urena, A.. Influence of the functionalization of carbon nanotubes on calendring dispersion effectiveness in a low viscosity resin for VARIM processes. COMPOSITES PART B-ENGINEERING. 43 - 8, pp. 3482 - 3490. ELSEVIER SCI LTD, 12/2012. ISSN 1879-1069

**DOI:** 10.1016/j.compositesb.2011.12.009

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 5

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 2.143

**Position of publication:** 5

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 2.143

**Position of publication:** 7

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 24

**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 90

**Citations:** 23

**Citations:** 30

**106** J. Rams; M. Sánchez; A. Ureña; A. Jiménez-Suárez; M. Campo; A. Gemes. Use of carbon nanotubes for strain and damage sensing of epoxy-based composites. International Journal of Smart and Nano Materials. 3 - 2, pp. 152 - 161. 13/01/2012. Available on-line at: <<http://dx.doi.org/10.1080/19475411.2011.651508>>.

**DOI:** 10.1080/19475411.2011.651508

**Type of production:** Scientific paper

**Position of signature:** 4

**Impact source:** SCOPUS (SJR)

**Impact index in year of publication:** 0.412

**Position of publication:** 191

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** General Materials Science

**Journal in the top 25%:** No

**No. of journals in the cat.:** 408

**Citations:** 11

**Citations:** 16

**107** Sanchez, M.; Rams, J.; Campo, M.; Jimenez-Suarez, A.; Urena, A.. Characterization of carbon nanofiber/epoxy nanocomposites by the nanoindentation technique. COMPOSITES PART B-ENGINEERING. 42 - 4, pp. 638 - 644. ELSEVIER SCI LTD, 06/2011. ISSN 1359-8368

**DOI:** 10.1016/j.compositesb.2011.02.017

**Type of production:** Scientific paper

**Impact source:** WOS (JCR)

**Format:** Journal



**Impact index in year of publication:** 1.731

**Position of publication:** 5

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 1.731

**Position of publication:** 9

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 24

**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 90

**Citations:** 47

**Citations:** 55

**108** Beatriz Gómez; Alberto Jiménez Suárez; Elena Gordo Odériz. Oxidation and tribological behaviour of an Fe-based MMC reinforced with TiCN particles. International Journal of Refractory Metals and Hard Materials. 27 - 2, pp. 360 - 366. 03/2009. Available on-line at: <<http://dx.doi.org/10.1016/j.ijrmhm.2008.10.012>>. ISSN 0263-4368

**DOI:** 10.1016/j.ijrmhm.2008.10.012

**Type of production:** Scientific paper

**Position of signature:** 2

**Total no. authors:** 3

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 1.263

**Position of publication:** 7

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 70

**Citations:** 13

**Citations:** 13

**109** Alberto Jiménez Suárez; Silvia González Prolongo. Graphene Nanoplatelets. Applied Sciences - Basel. 10 - 5, MDPI, 03/2020. ISSN 2076-3417

**DOI:** 10.3390/app10051753

**Type of production:** Scientific edition

**Position of signature:** 1

**Total no. authors:** 2

**Impact source:** WOS (JCR)

**Impact index in year of publication:** 2.217

**Position of publication:** 151

**Source of citations:** WOS

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 293

**Citations:** 2

**Citations:** 2



## Other achievements

### Stays in public or private R&D centres

- 1** **Entity:** Los Alamos National Laboratory **Type of entity:** Public Research Body  
**Faculty, institute or centre:** Materials Physics and Applications  
**City of entity:** Los Álamos, United States of America  
**Start-End date:** 15/04/2024 - 14/06/2024 **Duration:** 2 months  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Ensayos no destructivos para la caracterización del comportamiento termomecánico y del carácter vitrímico de nuevos materiales basados en resinas termoestables  
**Type of stay:** Investigación
- 2** **Entity:** Florida International University **Type of entity:** University  
**Faculty, institute or centre:** College of Engineering & Computing  
**City of entity:** Miami, United States of America  
**Start-End date:** 18/04/2023 - 25/07/2023 **Duration:** 3 months - 7 days  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Nanoindentación de películas delgadas, generación de estructuras tridimensionales a partir de refuerzos nano- y micro-métricos  
**Type of stay:** Investigación
- 3** **Entity:** Stanford University **Type of entity:** University  
**Faculty, institute or centre:** Dauskardt Group  
**City of entity:** Stanford, United States of America  
**Start-End date:** 02/04/2019 - 31/07/2019 **Duration:** 4 months  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Deposición de recubrimientos de capa delgada en sustratos de silicio y metálicos
- 4** **Entity:** ENSAM - Paristech **Type of entity:** University  
**City of entity:** París, Île de France, France  
**Start-End date:** 15/05/2012 - 15/08/2012 **Duration:** 3 months  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Envejecimiento térmico de resinas nanorreforzadas con GNP y estudio del comportamiento termomecánico
- 5** **Entity:** Technische Universität Hamburg-Harburg **Type of entity:** University  
**Faculty, institute or centre:** Grupo Prof. Ing. Karl Schulte  
**City of entity:** Hamburgo, Hamburg, Germany  
**Start-End date:** 01/05/2010 - 31/07/2010 **Duration:** 3 months  
**Goals of the stay:** Doctorate  
**Provable tasks:** Estudio de cinética de curado, reología y comportamiento electromecánico de materiales compuestos nanorreforzados base epoxi con CNF, MWCNT y MWCNT-NH2
- 6** **Entity:** INASMET Tecnalia **Type of entity:** Technological Centre  
**City of entity:** San Sebastián, País Vasco, Spain  
**Start-End date:** 01/09/2009 - 30/11/2009 **Duration:** 3 months  
**Goals of the stay:** Doctorate



**Provable tasks:** Optimización de la dispersión de MWCNT por agitación toroidal y calandrado