



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.

**C****V****n**

CURRÍCULUM VÍTAE NORMALIZADO

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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

	Employing entity	Professional category	Start date
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

- 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
- 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
- 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
- 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
- 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
- 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

- 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 €
- 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

Juan Carlos

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

Juan Carlos

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

Juan Carlos

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

Juan Carlos

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
Nº 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
Nº 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
Nº 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
Nº 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
Nº 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 nanorreforzados 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

Nº 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

Nº 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

Nº 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

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: 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 Roperro; 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 Roperro; 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 Roperro; 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 Roperro; 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 Fe₃O₄ 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 Tg. *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 **Corresponding author:** Yes
Total no. authors: 6 **Category:** Science Edition - POLYMER SCIENCE
Impact source: WOS (JCR) **No. of journals in the cat.:** 94
Impact index in year of publication: 4.7
Position of publication: 24



- 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 Ropero; 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; Xoa 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; Xoa 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; Xoa 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 Cu₃N: 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
Impact source: WOS (JCR)
Impact index in year of publication: 4.931
Position of publication: 2
Format: Journal
Corresponding author: No
Category: Science Edition - POLYMER SCIENCE
Journal in the top 25%: Yes
No. of journals in the cat.: 90
Category: Science Edition - MATERIALS SCIENCE, CHARACTERIZATION & TESTING
Journal in the top 25%: Yes
No. of journals in the cat.: 32
- 31** Ignacio Collado Ropero; 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

Total no. authors: 6

Corresponding author: No

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

- 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

Total no. authors: 5

Corresponding author: No

Impact source: WOS (JCR)

Category: Polymer s

Impact index in year of publication: 4.674

Journal in the top 25%: Yes

Position of publication: 15

No. of journals in the cat.: 90

- 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

Position of signature: 2

Total no. authors: 4

Corresponding author: No

Impact source: WOS (JCR)

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 7.991

Journal in the top 25%: Yes

Position of publication: 58

No. of journals in the cat.: 334



- 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(ϵ -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
Position of signature: 3
Total no. authors: 4
Impact source: WOS (JCR)
Impact index in year of publication: 8.528
Position of publication: 2
Source of citations: WOS
Format: Journal
Category: Science Edition - MATERIALS SCIENCE, COMPOSITES
Journal in the top 25%: Yes
No. of journals in the cat.: 28
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
Position of signature: 2
Total no. authors: 5
Impact source: WOS (JCR)
Impact index in year of publication: 2.679
Position of publication: 38
Format: Journal
Category: Science Edition - ENGINEERING, MULTIDISCIPLINARY
Journal in the top 25%: No
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)
Impact index in year of publication: 3.576
Position of publication: 14
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: Yes
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
Impact source: WOS (JCR)
Impact index in year of publication: 4.329
Position of publication: 18
Corresponding author: No
Category: Science Edition - POLYMER SCIENCE
Journal in the top 25%: Yes
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 Esmaeili; 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 Esmaeili; 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 Esmeili; 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; Xoa 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
Position of signature: 3
Total no. authors: 5
Impact source: WOS (JCR)
Impact index in year of publication: 1.530
Position of publication: 54
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.: 87
Citations: 2
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
Impact source: WOS (JCR)
Impact index in year of publication: 3.164
Position of publication: 17
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: 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
Position of signature: 1
Total no. authors: 4
Impact source: WOS (JCR)
Impact index in year of publication: 2.972
Position of publication: 102
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: 1
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
Position of signature: 2
Total no. authors: 6
Impact source: WOS (JCR)
Format: Journal
Corresponding author: No

**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 Esmaeli. 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 calendering 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 calendering 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 calendering 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



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CURRÍCULUM VÍTAE NORMALIZADO

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