



Antonia Pajares Vicente

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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.

Nº de sexenios de investigación- 5 (fecha del último sexenio 1 de enero de 2020)

Nº de tesis doctorales dirigidas- 7

Web of Science:

Citas totales- 3400

Promedio citas/publicación- 42

Indice h- 34



- 1** **Employing entity:** Universidad de Extremadura **Type of entity:** University
Professional category: Titular de Universidad
Start-End date: 18/12/1997 - 12/11/2007

- 2** **Employing entity:** Universidad de Extremadura **Type of entity:** University
Professional category: Profesor Asociado
Start-End date: 01/11/1995 - 17/12/1997

- 3** **Employing entity:** Universidad de Extremadura **Type of entity:** University
Professional category: Profesor Ayudante
Start-End date: 01/10/1991 - 31/10/1995

- 4** **Employing entity:** Universidad de Extremadura **Type of entity:** University
Professional category: Becaria Plan Nacional Materiales
Start-End date: 01/01/1989 - 30/09/1991

- 5** **Employing entity:** Universidad de Extremadura **Type of entity:** University
Professional category: Profesor Titular Interino Escuela Universitaria
Start-End date: 01/03/1988 - 31/12/1988



Education

University education

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

- 1 University degree:** Higher degree
Name of qualification: Licenciado con Grado en Ciencias Físicas
Degree awarding entity: Universidad de Extremadura **Type of entity:** University
Date of qualification: 1987
- 2 University degree:** Higher degree
Name of qualification: Licenciado en Ciencias Físicas
Degree awarding entity: Universidad de Extremadura **Type of entity:** University
Date of qualification: 1986

Doctorates

Doctorate programme: Doctor en Ciencias Físicas
Degree awarding entity: Universidad de Extremadura **Type of entity:** University
Date of degree: 20/09/1993

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English		C1	C1	C1	C1

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Effect Of Coating On The Mechanical Behaviour And Bioactivity Of Robocast Bioceramic Scaffolds
Co-director of thesis: Pedro Miranda González
Entity: Universidad de Extremadura **Type of entity:** University
Student: Azadeh Motealleh
Obtained qualification: Sobresaliente cum laude
Date of reading: 15/12/2015
European doctorate: Yes **Date of recognition:** 15/12/2015



- 2** **Project title:** Efecto De Parámetros Geométricos En Las Prestaciones Mecánicas De Estructuras Porosas Cerámicas Y Estructuras Híbridas Interpenetradas Cerámico/Polímero Fabricadas Mediante Moldeo Robotizado
Co-director of thesis: Pedro Miranda González
Entity: Universidad de Extremadura **Type of entity:** University
Student: Carolina Godoy Romero
Obtained qualification: Sobresaliente cum laude
Date of reading: 09/12/2015

- 3** **Project title:** Robocasting Of Bioactive Glass-Ceramic Scaffolds For Tissue Engineering Applications
Co-director of thesis: Pedro Miranda González
Entity: Universidad de Extremadura **Type of entity:** University
Student: Siamak Eqtesadi
Obtained qualification: Sobresaliente Cum laude
Date of reading: 30/07/2015
European doctorate: Yes **Date of recognition:** 30/07/2015

- 4** **Project title:** Design and fabrication by robocasting of bioactive ceramic/polymer composites for bone implant applications.
Co-director of thesis: Pedro Miranda González
Entity: Universidad de Extremadura Facultad / Escuela: **Type of entity:** University
Escuela de Ingenierías Industriales
Student: Francisco Javier Martínez Vázquez
Obtained qualification: Sobresaliente Cum Laude (por unanimidad)
Date of reading: 28/03/2012
European doctorate: Yes **Date of recognition:** 28/03/2012

- 5** **Project title:** Desarrollo y optimización microestructural y mecánica de andamiajes biocerámicos para ingeniería de tejido óseo fabricados mediante moldeo robotizado.
Co-director of thesis: Pedro Miranda González
Entity: Universidad de Extremadura Facultad / Escuela: **Type of entity:** University
Escuela de Ingenierías Industriales
Student: Fidel Hugo Perera Martínez
Obtained qualification: Sobresaliente Cum Laude (por unanimidad)
Date of reading: 09/03/2012

- 6** **Project title:** Propiedades mecánicas de cerámicos bajo tensiones de contacto a temperaturas inferiores a 1500 °C
Co-director of thesis: Pedro Miranda González
Entity: Universidad de Extremadura Facultad / Escuela: **Type of entity:** University
Escuela de Ingenierías Industriales
Student: Estíbaliz Sánchez González
Obtained qualification: Sobresaliente Cum Laude (por unanimidad)
Date of reading: 13/06/2008

- 7** **Project title:** Diseño de materiales multicapa resistentes al daño por contacto
Co-director of thesis: Fernando Guiberteau Cabanillas
Entity: Universidad de Extremadura Facultad / Escuela: **Type of entity:** University
Escuela de Ingenierías Industriales
Student: Pedro Miranda González
Obtained qualification: Sobresaliente Cum Laude (por unanimidad)
Date of reading: 10/04/2003



Scientific and technological experience

Scientific or technological activities

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

- 1** **Name of the project:** Fabricacion aditiva de materiales híbridos ceramico/polimero con microestructuras bioinspiradas para aplicaciones dentales (PID2021-123218OB-100)
Entity where project took place: Universidad de Extremadura **Type of entity:** University
Name principal investigator (PI, Co-PI....): Pedro Miranda González
Nº of researchers: 3
Funding entity or bodies: Ministerio de Ciencia e Innovación **Type of entity:** State agency
Start-End date: 01/09/2022 - 31/08/2025
Total amount: 217.800 €
- 2** **Name of the project:** Additive Manufacturing of Actively Cooled Thermal Shields
Entity where project took place: Universidad de Extremadura **Type of entity:** University
Name principal investigator (PI, Co-PI....): Pedro Miranda González
Nº of researchers: 6
Funding entity or bodies: M-ERA.NET, Agencia Estatal de Investigación (Proyectos colaboracion Internacional, PCI)
Start-End date: 01/05/2022 - 30/04/2025
Participating entity/entities: CNRS-PROMES, France; IberEspacio, Spain; QuesTtek Europe AB, Sweden; University West, Sweden
Total amount: 287.500 €
- 3** **Name of the project:** Fabricación aditiva de piezas cerámicas reforzadas con núcleo dúctil (RTI2018-095566-B-100)
Entity where project took place: Universidad de Extremadura **Type of entity:** University
Name principal investigator (PI, Co-PI....): Pedro Miranda González
Nº of researchers: 3
Funding entity or bodies: Ministerio de Ciencia e Innovación. Universidades **Type of entity:** State agency
Start-End date: 01/01/2019 - 31/12/2021
Total amount: 96.800 €
- 4** **Name of the project:** Desarrollo de materiales híbridos basados en placas cerámicas multisegmentadas fabricadas mediante moldeo robotizado para protección personal y prevención de lesiones. (IB16094)
Entity where project took place: Universidad de Extremadura **Type of entity:** University
Name principal investigator (PI, Co-PI....): Pedro Miranda González
Nº of researchers: 4

**Funding entity or bodies:**

Gobierno de Extremadura

Start-End date: 03/06/2017 - 02/06/2020**Total amount:** 145.290 €

- 5 Name of the project:** DESARROLLO MEDIANTE MOLDEO ROBOTIZADO Y OPTIMIZACION MECÁNICA DE ANDAMIAJES HÍBRIDOS COAXIALES CERÁMICO/POLÍMERO PARA APLICACIONES BIOMÉDICAS

Entity where project took place: Universidad de Extremadura **Type of entity:** University

Name principal investigator (PI, Co-PI...): PEDRO MIRANDA GONZÁLEZ

Nº of researchers: 5

Funding entity or bodies:

MINISTERIO ECONOMIA Y COMPETITIVIDAD

Start-End date: 01/01/2016 - 31/12/2018**Total amount:** 145.200 €

- 6 Name of the project:** Optimización mecánica y caracterización in vitro de andamiajes vitrocerámicos bioactivos fabricados mediante moldeo robotizado para regeneración ósea

Entity where project took place: Universidad de Extremadura **Type of entity:** University

City of entity: Badajoz, Extremadura, Spain

Name principal investigator (PI, Co-PI...): Pedro Miranda González

Nº of researchers: 5

Funding entity or bodies:

Gobierno de Extremadura

Start-End date: 31/07/2014 - 30/07/2016**Total amount:** 58.960 €

- 7 Name of the project:** NATURAL INORGANIC POLYMERS AND SMART FUNCTIONALIZED MICRO-UNITS APPLIED IN CUSTOMIZED RAPID PROTOTYPING OF BIOACTIVE SCAFFOLDS

Entity where project took place: FP7-NMP-2013-EU-China (604036 Bio-Scaffolds CP-FP).

Name principal investigator (PI, Co-PI...): Pedro Miranda González (UEx).

Nº of researchers: 7

Funding entity or bodies:

Comisión Europea

Type of entity: Body, others**Start-End date:** 01/06/2013 - 31/05/2016**Duration:** 3 years

Participating entity/entities: Brno University of Technology; Ltd.; NanotecMARIN GmbH; Ortoma AB; Peking University; Shenzhen Lando Biomaterials Co.; Tsinghua University; Universidad de Extremadura (UEx); Universitätsmedizin der Johannes Gutenberg-Universität Mainz (Coordinador)

Total amount: 352.000 €

- 8 Name of the project:** ADQUISICIÓN DE CÁMARA DE ULTRA-ALTA VELOCIDAD CON GRAN RESOLUCION PARA EL ANÁLISIS DE PROCESOS MECÁNICOS O FLUIDOMECAÑICOS

Entity where project took place: Universidad de Extremadura **Type of entity:** University

Name principal investigator (PI, Co-PI...): EMILIO JOSÉ VEGA RODRÍGUEZ

Nº of researchers: 18

Funding entity or bodies:

MINISTERIO ECONOMIA Y COMPETITIVIDAD

Start-End date: 01/01/2013 - 31/12/2015



Total amount: 170.150 €

- 9** **Name of the project:** EQUIPAMIENTO DE FLUORESCENCIA DE RAYOS-X (WDXRF)
Entity where project took place: Universidad de Extremadura **Type of entity:** University
Name principal investigator (PI, Co-PI....): MARÍA LUISA GONZÁLEZ MARTÍN
Nº of researchers: 35
Funding entity or bodies: MINISTERIO ECONOMIA Y COMPETITIVIDAD
Start-End date: 01/01/2013 - 31/12/2015
Total amount: 214.290,72 €
- 10** **Name of the project:** HORNO DE S/INTERIZACIÓN POR DESCARGA ELÉCTRICA PULSADA
Entity where project took place: Universidad de Extremadura **Type of entity:** University
Name principal investigator (PI, Co-PI....): ÁNGEL LUIS ORTIZ SECO.
Nº of researchers: 30
Funding entity or bodies: MINISTERIO ECONOMIA Y COMPETITIVIDAD.
Start-End date: 01/01/2013 - 31/12/2015
Total amount: 252.000 €
- 11** **Name of the project:** SISTEMA DE LIMPIEZA Y LAVADO DE GAS DE SÍNTESIS GENERADO EN UNA PLANTA DE GASIFICACIÓN
Entity where project took place: Universidad de Extremadura **Type of entity:** University
Name principal investigator (PI, Co-PI....): JUAN FÉLIX GONZÁLEZ GONZÁLEZ.
Nº of researchers: 16
Funding entity or bodies: MINISTERIO ECONOMIA Y COMPETITIVIDAD.
Start-End date: 01/01/2013 - 31/12/2015
Total amount: 123.553 €
- 12** **Name of the project:** DESARROLLO Y OPTIMIZACIÓN MECÁNICA DE ANDAMIAJES HÍBRIDOS CERÁMICO/POLÍMERO PARA REGENERACIÓN DE TEJIDO ÓSEO FABRICADOS MEDIANTE MOLDEO ROTOTIZADO. (IB10006)
Entity where project took place: Universidad de Extremadura
Name principal investigator (PI, Co-PI....): Pedro Miranda González.
Nº of researchers: 5
Funding entity or bodies: Junta de Extremadura.
Start-End date: 2011 - 2012 **Duration:** 2 years
Participating entity/entities: UEx.
Total amount: 43.700 €
- 13** **Name of the project:** RED DE NANOMECÁNICA. (MAT2008-05071-E/MAT)
Name principal investigator (PI, Co-PI....): Marc Anglada Gomila.
Funding entity or bodies: MICINN



Start date: 01/04/2009

Participating entity/entities: Centro de Estudios e Investigaciones Técnicas de Gipuzkoa; Universidad de Extremadura; UPC; UPM.; Universidad Rey Juan Carlos

Total amount: 12 €

14 Name of the project: DESARROLLO DE ANDAMIAJES CERÁMICOS DE BETA-TCP CON GRADIENTE DE POROSIDAD MEDIANTE ROBOCASTING. (PET2008-0168-02)

Name principal investigator (PI, Co-PI....): PEDRO MIRANDA GONZÁLEZ.

Nº of researchers: 4

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Start date: 2009

Duration: 1 year

Participating entity/entities: ICTP-CSIC; Universidad Complutense de Madrid y las empresas Noricum y Oscatech Microinyección.; Universidad de Extremadura. Proyecto coordinado con ICMC-CSIC

Total amount: 17.182 €

15 Name of the project: RED DE NANOMECAÁNICA. (MAT2007-29286-E/)

Name principal investigator (PI, Co-PI....): Marc Anglada Gomila.

Funding entity or bodies:

Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency

Start date: 01/10/2007

Participating entity/entities: Centro de Estudios e Investigaciones Técnicas de Gipuzkoa; Universidad de Extremadura; UPC; UPM.; Universidad Rey Juan Carlos

Total amount: 15 €

16 Name of the project: OPTIMIZACIÓN DEL COMPORTAMIENTO MECÁNICO DE ESTRUCTURAS CERÁMICO/POLÍMERO FABRICADAS MEDIANTE ROBOCASTING PARA APLICACIONES EN INGENIERÍA DE TEJIDO ÓSEO. (MAT2006-08720)

Name principal investigator (PI, Co-PI....): ANTONIA PAJARES VICENTE.

Nº of researchers: 5

Funding entity or bodies:

Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency

Start date: 2006

Duration: 3 years

Participating entity/entities: UEx.

Total amount: 120 €

17 Name of the project: PROPIEDADES MECANICAS DE CAPAS CERAMICAS SOMETIDAS A TENSIONES DE CONTACTO A $T_a < T < 1500^\circ\text{C}$. (MAT2003-05584)

Name principal investigator (PI, Co-PI....): ANTONIA PAJARES VICENTE.

Nº of researchers: 5

Funding entity or bodies:

M.C.Y.T.

Start date: 2003

Duration: 3 years

Participating entity/entities: UEx.

Total amount: 150 €

18 Name of the project: RESPUESTA MECÁNICA DE MATERIALES MULTICAPA PROTOTIPO BAJO LA ACCIÓN DE TENSIONES DE CONTACTO.

Name principal investigator (PI, Co-PI....): ANTONIA PAJARES VICENTE.

Nº of researchers: 4

**Funding entity or bodies:**

Junta de Extremadura.

Start date: 2000**Duration:** 2 years**Participating entity/entities:** UEx.**Total amount:** 16.275 €**19 Name of the project:** MECANISMOS DE DAÑO POR CONTACTO EN CERÁMICOS AVANZADOS.**Name principal investigator (PI, Co-PI...):** FERNANDO GUIBERTEAU CABANILLAS.**Nº of researchers:** 4**Funding entity or bodies:**

Comisión de Intercambio Científico entre España y EEUU.

Start date: 01/06/1998**Duration:** 1 year**Participating entity/entities:** N.I.S.T. (U.S.A.) y UEx.**20 Name of the project:** COMPORTAMIENTO MECÁNICO DE MATERIALES MULTICAPA DEL SISTEMA Al₂O₃/ZrO₂. ESTUDIO A BAJAS TEMPERATURAS. (Proyecto nº MAT97-0562-CO2-02).**Name principal investigator (PI, Co-PI...):** FERNANDO GUIBERTEAU CABANILLAS.**Nº of researchers:** 4**Funding entity or bodies:**

C.I.C.Y.T.

Start date: 1997**Duration:** 2 years**Participating entity/entities:** Universidad de Sevilla y UEx.**21 Name of the project:** INFLUENCE OF MICROSTRUCTURE ON CRACK PROPAGATION AND IONIC CONDUCTIVITY OF Y-DOPED ZIRCONIA.**Name principal investigator (PI, Co-PI...):** Arturo Domínguez Rodríguez.**Nº of researchers:** 7**Funding entity or bodies:**

Acción Integrada Hispano-Alemana HA-022.

Start date: 1994**Duration:** 1 year**Participating entity/entities:** Uex y KFA-Alemania.; Universidad de Sevilla**22 Name of the project:** RECUBRIMIENTO ANTICORROSIVO DEL ACERO AUSTENÍTICO AISI 304 POR EL MÉTODO SOL-GEL. (Proyecto nº MAT94-0676).**Name principal investigator (PI, Co-PI...):** LUIS MARÍA ESQUIVIAS FEDRIANI.**Nº of researchers:** 5**Funding entity or bodies:**

C.I.C.Y.T.

Start date: 1994**Duration:** 2 years**Participating entity/entities:** Universidad de Cádiz y UEx.**23 Name of the project:** INFLUENCE OF MICROSTRUCTURE ON CRACK PROPAGATION BEHAVIOUR OF Y-DOPED ZIRCONIA.**Name principal investigator (PI, Co-PI...):** FERNANDO GUIBERTEAU CABANILLAS.**Nº of researchers:** 6**Funding entity or bodies:**

Acción Integrada Hispano-Alemana HA-086.

Start date: 1992**Duration:** 1 year



Participating entity/entities: Uex y KFA-Alemania.; Universidad de Sevilla

24 Name of the project: ESTUDIO MICROESTRUCTURAL Y COMPORTAMIENTO MECANICO EN POLICRISTALES DEL SISTEMA ZrO₂-Y₂O₃. (Proyecto nº MAT91-1196-C02-02).

Name principal investigator (PI, Co-PI....): FRANCISCO LUIS CUMBRERA HERNANDEZ.

Nº of researchers: 4

Funding entity or bodies:

C.I.C.Y.T.

Start date: 1991

Duration: 2 years

Participating entity/entities: Universidad de Sevilla y UEx.

25 Name of the project: COMPORTAMIENTO MECÁNICO Y ESTUDIO MICROESTRUCTURAL DE LA CIRCONIA PARCIALMENTE ESTABILIZADA CON Y₂O₂. (Proyecto nº MAT88-0181-CO2-02).

Name principal investigator (PI, Co-PI....): Fernando Guiberteau Cabanillas.

Nº of researchers: 4

Funding entity or bodies:

C.I.C.Y.T.

Start date: 1988

Duration: 2 years

Participating entity/entities: Universidad de Sevilla y UEx.

26 Name of the project: AYUDA A EQUIPOS DE INVESTIGACIÓN COMPETITIVOS DE LA UNIVERSIDAD DE EXTREMADURA. (Proyecto nº EIA95-19).

Name principal investigator (PI, Co-PI....): FERNANDO GUIBERTEAU CABANILLAS.

Nº of researchers: 4

Funding entity or bodies:

Junta de Extremadura.

Participating entity/entities: UEx.

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

1 Name of the project: Servicio de fabricación y caracterización de andamiajes paciente específico que se utilizarán para implantación en animales

Name principal investigator (PI, Co-PI....): Antonia Pajares

Nº of researchers: 2

Participating entity/entities: Universidad de Extremadura

Funding entity or bodies:

Universidad de Sevilla

Type of entity: University

City funding entity: Sevilla, Andalusia, Spain

Start date: 05/07/2019

Duration: 2 years

Total amount: 24.000 €

2 Name of the project: Caracterización del óxido de grafeno y del óxido de grafeno reducido

Name principal investigator (PI, Co-PI....): Pedro Miranda

Nº of researchers: 2

Participating entity/entities: Universidad de Extremadura

Funding entity or bodies:

Abalonyx AS

Type of entity: Business

City funding entity: Oslo, Norway



Start date: 11/07/2017
Total amount: 8.000 €

Duration: 2 years

3 Name of the project: Manufacturing of scaffolds for bone regeneration

Name principal investigator (PI, Co-PI....): Pedro Miranda

Nº of researchers: 2

Participating entity/entities: Universidad de Extremadura

Funding entity or bodies:

Affiliated Stomatology Hospital of Guangzhou Medical University

City funding entity: Guangzhou, China

Start date: 01/10/2016

Duration: 1 year

Total amount: 14.000 €

4 Name of the project: Análisis de la viabilidad científico-técnica sobre materiales plásticos y compuestos para desarrollar filamentos reciclados y ecológicos para impresión 3D FFF de bajo coste

Name principal investigator (PI, Co-PI....): Pedro Miranda

Nº of researchers: 2

Participating entity/entities: Universidad de Extremadura

Funding entity or bodies:

Pablo Gil Fernández (Dolphin Boy)

City funding entity: Badajoz, Extremadura, Spain

Start date: 17/06/2015

Duration: 4 years

Total amount: 2.420 €

5 Name of the project: Asesoramiento, fabricación y caracterización de materiales cerámicos diversos

Name principal investigator (PI, Co-PI....): Pedro Miranda

Nº of researchers: 5

Participating entity/entities: Universidad de Extremadura

Funding entity or bodies:

Ceramics 3D Design Develop Discover S.L.

City funding entity: Badajoz, Extremadura, Spain

Start date: 01/07/2011

Duration: 2 years - 7 months

Total amount: 1.666 €

Results

Industrial and intellectual property

Title registered industrial property: Andamiaje Híbrido Bioactivo, Método de Fabricación y Uso Para Ingeniería de Tejido Óseo

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Pedro Miranda González; Antonia Pajares Vicente; Fernando Guiberteau Cabanillas; Francisco Javier Martínez Vázquez; Fidel Hugo Perera Martínez

Entity holder of rights: Universidad de Extremadura

Nº of application: 2011311602

Country of inscription: Spain

Date of register: 2013

Conferral date: 05/09/2013



- 9** Azadeh Motealleh; Siamak Eqtesadi; Fidel Hugo Perera; Angel Luis Ortiz; Pedro Miranda; Antonia Pajares; Rune Wendelbo. Reinforcing 13-93 bioglass scaffolds fabricated by robocasting and pressureless spark plasma sintering with graphene oxide. *J. Mech. Behav. Biomed. Mater.*97, pp. 108 - 116. 2019.
Type of production: Scientific paper **Format:** Journal
- 10** Francisco J. Martínez-Vázquez; Antonia Pajares; Pedro Miranda. A Simple Graphite-Based Support Material For Robocasting Of Ceramic Parts. *J. Europ. Ceram Soc.*38, pp. 2247 - 2250. 2018.
Type of production: Scientific paper **Format:** Journal
- 11** Víctor Pablo Galván Chacón; Siamak Eqtesadi; Antonia Pajares Vicente; Pedro Miranda González; Fernando Guiberteau Cabanillas. Elucidating the role of 45S5 bioglass content in the density and flexural strength of robocast beta-TCP/45S5 composites. *Ceramic International.* 44 - 11, pp. 12717 - 12722. Elsevier, 2018.
Type of production: Scientific paper **Format:** Journal
- 12** Azadeh Motealleh; Siamak Eqtesadi; Antonia Pajares Vicente; Pedro Miranda Gonzalez. Enhancing the mechanical and in vitro performance of robocast bioglass scaffolds by polymeric coatings: Effect of polymer composition. *Journal of the Mechanical Behavior of Biomedical Materials.* 84, pp. 35 - 45. Elsevier, 2018.
Type of production: Scientific paper **Format:** Journal
- 13** Siamak Eqtesadi; Azadeh Motealleh; Fidel H. Perera; Pedro Miranda; Antonia Pajares; Rune Wendelbo; Fernando Guiberteau; Angel Luis Ortiz. Fabricating geometrically-complex B4C ceramic components by robocasting and pressureless spark plasma sintering. *Scripta Materialia.* 145, pp. 14 - 18. 2018.
Type of production: Scientific paper **Format:** Journal
- 14** Azadeh Motealleh; Siamak Eqtesadi; Antonia Pajares; Pedro Miranda; David Salamon; Gastkova Klara. Case study: Reinforcement of 45S5 bioglass robocast scaffolds by HA/PCL nanocomposite coatings. *Journal of the Mechanical Behavior of Biomedical Materials.* 75, pp. 114 - 118. Elsevier, 2017.
Type of production: Scientific paper **Format:** Journal
- 15** Francisco J. Martínez-Vázquez; Antonia Pajares; Pedro Miranda. Effect Of The Drying Process On The Compressive Strength And Cell Proliferation Of Hydroxyapatite-Derived Scaffolds. *Int. J. Appl. Ceram. Technol.*14, pp. 1101 - 1106. 2017.
Type of production: Scientific paper **Format:** Journal
- 16** Juan Mora Macías; Antonia Pajares Vicente; Pedro Miranda González; Jaime Domínguez Abascal; Esther Reina Romo. Mechanical characterization via nanoindentation of the woven bone developed during bone transport. *J. Mech. Behav. Biomed. Mater.*74, pp. 236 - 244. 2017.
Type of production: Scientific paper **Format:** Journal
- 17** Azadeh Motealleh; Siamak Eqtesadi; Ana Civantos; Antonia Pajares; Pedro Miranda. Robocast 45S5 bioglass scaffolds: in vitro behaviour. *Journal of Materials Science.* 52, pp. 9179 - 9191. 2017.
Type of production: Scientific paper **Format:** Journal
- 18** Siamak Eqtesadi; Azadeh Motealleh; Antonia Pajares Vicente; Fernando Guiberteau Cabanillas; Pedro Miranda González. Improving Mechanical Properties Of 13–93 Bioactive Glass Robocast Scaffold By Poly (Lactic Acid) And Poly (?-Caprolactone) Melt Infiltration. *Journal of Non-Crystalline Solids.* 432, pp. 111 - 119. 2016.
Type of production: Scientific paper **Format:** Journal
- 19** Siamak Eqtesadi; Azadeh Motealleh; Antonia Pajares Vicente; Fidel Hugo Perera; Pedro Miranda González. Poly-(Lactic Acid) Infiltration of 45S5 Bioglass® Robocast Scaffolds: Chemical Interaction and Its Deleterious Effect in Mechanical Enhancement. *Materials Letters.* 163, pp. 196 - 200. 2016.
Type of production: Scientific paper **Format:** Journal



- 30** F. J. MARTÍNEZ-VÁZQUEZ; P. MIRANDA; F. GUIBERTEAU; A. PAJARES. Reinforcing Bioceramic Scaffolds With In-Situ Synthesized γ -Polycaprolactone Coatings. *J. Biomed. Mater. Res. Part A.* 101 - 12, pp. 3551 - 3559. 2013.
Type of production: Scientific paper **Format:** Journal
- 31** E. SANCHEZ-GONZALES; P. MIRANDA; F. GUIBERTEAU; A. PAJARES. Effect of microstructure on the mechanical properties of liquid-phase-sintered silicon carbide at pre-creep temperatures. *J. Eur. Ceram. Soc.*31, pp. 1131 - 1139. 2011.
Type of production: Scientific paper
- 32** F. H. PERERA; A. PAJARES; J. J. MELÉNDEZ. Strength of aluminium titanate/mullite composites containing thermal stabilizers. *J. Eur. Ceram. Soc.*31, pp. 1695 - 1701. 2011.
Type of production: Scientific paper
- 33** F. H. PERERA; F. J. MARTINEZ-VAZQUEZ; P. MIRANDA; A. L. ORTIZ; A. PAJARES. Clarifying the effect of sintering conditions on the microstructure and mechanical properties of γ -tricalcium phosphate,. *Ceramic International.* 36, pp. 1929 - 1935. 2010.
Type of production: Scientific paper
- 34** F. J. MARTINEZ-VAZQUEZ; F. H. PERERA; P. MIRANDA; A. PAJARES; F. GUIBERTEAU. Improving the compressive strength of bioceramic robocast scaffolds by polymer infiltration,. *Acta Biomaterialia.* 6, pp. 4361 - 4368. 2010.
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- 35** E. SANCHEZ-GONZALES; P. MIRANDA; F. GUIBERTEAU; A. PAJARES. Effect of temperature on the pre-creep mechanical properties of silicon nitride. *J. Eur. Ceram. Soc.*29(12), pp. 2635 - 2641. 2009.
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Source of citations: S

Works submitted to national or international conferences

- 1** **Title of the work:** Fabrication of bioinspired structures for dental applications by indirect DLP
Name of the conference: 15th Conference for Young Scientists in Ceramics (CYSC)
Type of participation: Participatory - oral communication
City of event: Novi Sad, Serbia
Date of event: 11/10/2023
End date: 14/10/2023
Sergio Moreno-Martínez; Antonia Pajares; Óscar Borrero-López; Pedro Miranda.



- 2** **Title of the work:** Towards The Development Through Additive Manufacturing Of Osteoregenerative Hybrid Ceramic/Polymer Scaffolds Suitable For Load-Bearing Applications
Name of the conference: 14th Pacific Rim Conference (PACRIM14)
Type of participation: Participatory - invited/keynote talk
City of event: Vancouver, Canada
Date of event: 13/12/2021
End date: 06/12/2021
Pedro Miranda; Claudia Paredes; Francisco Javier Martínez-Vázquez; Antonia Pajares.
- 3** **Title of the work:** Mechanical Performance Of Hybrid Coaxial Scaffolds Fabricated By Additive Manufacturing
Name of the conference: ACGMA
Type of participation: Participatory - oral communication
City of event: Brno, Czech Republic
Date of event: 04/11/2019
End date: 05/11/2019
Claudia Paredes; Francisco Javier Martínez-Vázquez; Antonia Pajares; Pedro Miranda.
- 4** **Title of the work:** Evaluation Of Direct Light Processing For The Fabrication Of Bioactive Ceramic Scaffolds
Name of the conference: YouCGMed
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 10/10/2019
End date: 11/10/2019
Claudia Paredes; Francisco Javier Martínez-Vázquez; Antonia Pajares; Pedro Miranda; H. Elsayed; Paolo Colombo.
- 5** **Title of the work:** Bioinspired Ceramic/Polymer Segmented Armour
Name of the conference: The 10th Pacific Rim International Conference on Advanced Materials and Processing (PRICM-10)
Type of participation: Participatory - invited/keynote talk
City of event: Xian, China
Date of event: 18/08/2019
End date: 22/08/2019
Pedro Miranda; Antonia Pajares; Carlos Galán; Fidel H. Perera; Mario Acedo; Marc A. Meyers.
- 6** **Title of the work:** Fabrication And Mechanical Behaviour Of Ceramic/Polymer Fabrication And Mechanical Behaviour Of Ceramic/Polymer Porous Scaffolds With Core/Shell Architecture For Bone Tissue Regeneration
Name of the conference: XVI ECerS CONFERENCE
Type of participation: Participatory - oral communication
City of event: Turin, Italy
Date of event: 16/06/2019
End date: 20/06/2019
Francisco Javier Martínez-Vázquez; Claudia Paredes; Antonia Pajares; Pedro Miranda.
- 7** **Title of the work:** Micro- and macro-wear of human dental enamel. A materials science perspective
Name of the conference: 88th Annual Meeting of the American-Association-of-Physical-Anthropologists (AAPA)
Type of participation: Participatory - poster
City of event: Cleveland, United States of America
Date of event: 27/03/2019



End date: 30/03/2019

Oscar Borrero López; Antonia Pajares Vicente; Paul J. Constantino; Brian Rich Lawn.

- 8** **Title of the work:** Development By Robocasting And Mechanical Characterization Of Hybrid Ceramic/Polymer Coaxial Scaffolds For Biomedical Applications
Name of the conference: V Congreso Hispano-Luso de Cerámica y Vidrio y LVI Congreso de la Sociedad Española de Cerámica y Vidrio
Type of participation: 'Participatory - poster
City of event: Barcelona, Spain
Date of event: 08/10/2018
End date: 11/10/2018
Claudia Isabel Paredes Sánchez; Francisco Javier Martínez Vázquez; Antonia Pajares Vicente; Fernando Guiberteau Cabanillas; Pedro Miranda González.
- 9** **Title of the work:** Strategies To Optimize The Mechanical Performance Of Bioceramic Scaffolds For Bone
Name of the conference: V Congreso Hispano-Luso de Cerámica y Vidrio y LVI Congreso de la Sociedad Española de Cerámica y Vidrio
Type of participation: Participatory - invited/keynote talk
City of event: Barcelona, Spain
Date of event: 08/10/2018
End date: 11/10/2018
Antonia Pajares Vicente; Claudia Isabel Paredes Sánchez; Azadeh Motealleh; Siamak Eqtesadi; Francisco Javier Martínez Vázquez; Fidel Hugo Perera Martínez; Pedro Miranda González; Fernando Guiberteau Cabanillas.
- 10** **Title of the work:** Developing Ceramic/Polymer Composites With Enhanced Mechanical Performance Using Robocasting
Name of the conference: International Materials Symposium
Type of participation: Participatory - invited/keynote talk
City of event: Providence, United States of America
Date of event: 16/07/2018
End date: 17/07/2018
Pedro Miranda González; Claudia Isabel Paredes Sánchez; Azadeh Motealleh; Siamak Eqtesadu; Francisco Javier Martínez Vázquez; Fidel Hugo Perera Martínez; Antonia Pajares Vicente; Fernando Guiberteau Cabanillas.
- 11** **Title of the work:** Development Of Hybrid TCP/PCL Coaxial Scaffolds Fabricated By Robocasting For Biomedical Applications
Name of the conference: Young Ceramists Additive Manufacturing Forum (Ycam 2018)
Type of participation: Participatory - oral communication
City of event: Padua, Italy
Date of event: 03/05/2018
End date: 04/05/2018
Claudia Isabel Paredes Sánchez; Francisco Javier Martínez Vázquez; Pedro Miranda González; Antonia Pajares Vicente.
- 12** **Title of the work:** Robocasting: A Mature Additive Manufacturing Technology For Ceramics / Moldeo Robotizado: Una Técnica Consolidada Para La Fabricación Aditiva De Materiales Cerámicos
Name of the conference: Vi Congreso Nacional De Pulvimetalurgia Y I Congreso Iberoamericano De Pulvimetalurgia
Type of event: Conference
Type of participation: Participatory - invited/keynote talk



City of event: Ciudad Real, Spain

Date of event: 07/06/2017

End date: 09/06/2017

Pedro Miranda González; Azadeh Motealleh; Siamak Eqtesadi; Francisco Javier Martínez Vázquez; Fidel Hugo Perera Martínez; Antonia Pajares Vicente; Fernando Guiberteau Cabanillas.

13 Title of the work: Mechanical And In Vitro Performance Of Bioceramic Robocast Scaffolds Coated With Biodegradable Polymers

Name of the conference: 6th International Congress On Ceramics

Type of participation: Participatory - oral communication

City of event: Dresden, Germany

Date of event: 2016

Pedro Miranda; Azadeh Motealleh; Siamak Eqtesadi; Francisco Javier Martínez-Vázquez; Fidel Hugo Perera; Antonia Pajares; Fernando Guiberteau.

14 Title of the work: Mechanical Performance Of Porous Ceramics Fabricated By Robocasting

Name of the conference: 6th International Congress On Ceramics

Type of participation: Participatory - oral communication

City of event: Dresden, Germany

Date of event: 2016

Pedro Miranda; Azadeh Motealleh; Siamak Eqtesadi; Francisco Javier Martínez-Vázquez; Fidel Hugo Perera; Antonia Pajares; Fernando Guiberteau.

15 Title of the work: Processing And Mechanical Behaviour Of Ceramic-Based Scaffolds By Robocasting
Name of the conference: 91st DKG Annual Conference & Symposium On High Performance Ceramics 2016

Type of participation: Participatory - oral communication

City of event: Freiberg, Germany

Date of event: 2016

Pedro Miranda; Azadeh Motealleh; Siamak Eqtesadi; Francisco Javier Martínez-Vázquez; Fidel Hugo Perera; Antonia Pajares; Fernando Guiberteau.

16 Title of the work: Design of titanium macroporous scaffolds combining gel-casting and robocasting techniques

Name of the conference: Creating Life In 3D "Frontiers In Material And Life Sciences"

Type of participation: Participatory - oral communication

City of event: Madrid, Spain

Date of event: 2015

End date: 16/12/2015

Esther Molero; Hugo Perera; Pedro Miranda; Antonia Pajares; Elena Gordo; Antonio J. Sanchez-Herencia; Begoña Ferrari.

17 Title of the work: Effects Of Dip Coating Parameters On Mechanical Properties Of Robocast Bioglass Scaffolds

Name of the conference: 14th International Conference of the European Ceramic Society (ECERS2015)

Type of participation: Participatory - poster

City of event: Toledo, Spain

Date of event: 2015

End date: 25/06/2015

Azadeh Motealleh; Siamak Eqtesadi; Fidel H. Perera; Pedro Miranda; Antonia Pajares; Fernando Guiberteau.



- 18** **Title of the work:** In Vitro Degradation Of Infiltrated 45S5 Bioglass Fabricated By Robocasting
Name of the conference: 14th International Conference of the European Ceramic Society (ECERS2015)
Type of participation: Participatory - oral communication
City of event: Toledo, Spain
Date of event: 2015
End date: 25/06/2015
Azadeh Motealleh; Siamak Eqtesadi; Fidel H. Perera; Pedro Miranda; Antonia Pajares.
- 19** **Title of the work:** The Influence Of Shape And Size Of HA Nanoparticles On Robocast 45S5 Scaffolds Coated With HA-PCL Composites
Name of the conference: Creating Life In 3D "Frontiers In Material And Life Sciences"
Type of participation: 'Participatory - poster
City of event: Brno, Czech Republic
Date of event: 2015
End date: 04/09/2015
Azadeh Motealleh; Siamak Eqtesadi; D Salamon; Pedro Miranda; Antonia Pajares.
- 20** **Title of the work:** Variación espacio-temporal de las propiedades mecánicas del hueso inmaduro durante el transporte óseo
Name of the conference: V Reunión del Capítulo Español de la Sociedad Europea de Biomecánica (ESB)
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 2015
End date: 20/11/2015
Juan Mora-Macias; Esther Reina-Romo; Antonia Pajares; Pedro Miranda; Jaime Dominguez.
- 21** **Title of the work:** Desarrollo Y Fabricación De Andamiajes Para Ingeniería De Tejido Óseo Mediante Moldeo
Name of the conference: LIV Congreso Anual de la Sociedad Española de Cerámica y Vidrio
Type of participation: Participatory - oral communication
City of event: Badajoz, Spain
Date of event: 2014
End date: 22/11/2014
Fidel H. Perera; A Heitor; Pedro Miranda; Antonia Pajares.
- 22** **Title of the work:** Development And Optimization Of Biphasic Bioceramics For Bone Tissue Engineering.
Name of the conference: LIV Congreso Anual de la Sociedad Española de Cerámica y Vidrio
Type of participation: 'Participatory - poster
City of event: Badajoz, Spain
Date of event: 2014
End date: 22/11/2014
Victor P. Galvan; Antonia Pajares; Pedro Miranda.
- 23** **Title of the work:** Development Of ??Tricalcium Phosphate/1393 Bioactive Glass Composites
Name of the conference: LIV Congreso Anual de la Sociedad Española de Cerámica y Vidrio
Type of participation: 'Participatory - poster
City of event: Badajoz, Spain
Date of event: 2014
End date: 22/11/2014
Azadeh Motelleh; Siamak Eqtesadi; Fernando Guiberteau; Antonia Pajares; Pedro Miranda.



- 24** **Title of the work:** Efecto Del Desplazamiento Entre Capas En La Resistencia A Fractura De Biomateriales Fabricados Mediante Moldeo Robotizado
Name of the conference: LIV Congreso Anual de la Sociedad Española de Cerámica y Vidrio
Type of participation: 'Participatory - poster
City of event: Badajoz, Spain
Date of event: 2014
End date: 22/11/2014
Carolina Godoy; Pedro Miranda; Fernando Guiberteau; Antonia Pajares.
- 25** **Title of the work:** Efecto Del Desplazamiento Entre Capas En Las Propiedades Mecánicas De Estructuras De TCP Y TCP/PLA Fabricados Mediante Moldeo Robotizado
Name of the conference: XIV Congreso de Propiedades Mecánicas de Sólidos
Type of participation: Participatory - oral communication
City of event: Linares, Spain
Date of event: 2014
End date: 19/09/2014
Carolina Godoy; Miguel Barrero; Laura Sánchez; Fernando Guiberteau; Pedro Miranda; Antonia Pajares.
- 26** **Title of the work:** Enhancing The Mechanical Performance Of 13-93 Bioactive Glass Robocast Scaffold By Polymer Infiltration
Name of the conference: 26th Symposium and Annual Meeting of the International Society for Ceramics in Medicine (BIOCERAMICS 26)
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 2014
End date: 08/11/2014
Siamak Eqtesadi; Azadeh Motealleh; Pedro Miranda; Antonia Pajares.
- 27** **Title of the work:** Improving Mechanical Properties Of Robocast 45S5 Bioglass® Scaffolds By Polymer-Melt Infiltration
Name of the conference: 1st Joint Meeting of DGG – ACerS GOMD
Type of participation: Participatory - oral communication
City of event: Aachen, Germany
Date of event: 2014
End date: 30/05/2014
Siamak Eqtesadi; Azadeh Motealleh; Pedro Miranda; Antonia Pajares.
- 28** **Title of the work:** Improving Mechanical Properties Of Robocast 45s5 Scaffolds By Polymeric Coating
Name of the conference: 26th Symposium and Annual Meeting of the International Society for Ceramics in Medicine (BIOCERAMICS 26)
Type of participation: 'Participatory - poster
City of event: Barcelona, Spain
Date of event: 2014
End date: 08/11/2014
Azadeh Motealleh; Siamak Eqtesadi; Pedro Miranda; Antonia Pajares.
- 29** **Title of the work:** Mejora De Las Propiedades Mecánicas De Andamiajes De Biovidrio 13-93 Fabricados Por Moldeo Robotizado Mediante Infiltración Con Polímero
Name of the conference: XIV Congreso de Propiedades Mecánicas de Sólidos
Type of participation: Participatory - oral communication
City of event: Linares, Spain
Date of event: 2014



End date: 19/09/2014

Siamak Eqtesadi; Azadeh Motealleh; Fernando Guiberteau; Antonia Pajares; Pedro Miranda.

30 Title of the work: Optimizing Processing Of 13-93 Bioactive Glass Fabricated By Robocasting Method

Name of the conference: 1st Joint Meeting of DGG – ACerS GOMD

Type of participation: Participatory - oral communication

City of event: Aachen, Germany

Date of event: 2014

End date: 30/05/2014

Azadeh Motealleh; Siamak Eqtesadi; Pedro Miranda; Antonia Pajares.

31 Title of the work: Reinforcing Robocast 45S5 Bioglass Scaffolds By PCL Infiltration

Name of the conference: LIV Congreso Anual de la Sociedad Española de Cerámica y Vidrio

Type of participation: Participatory - oral communication

City of event: Badajoz, Spain

Date of event: 2014

End date: 22/11/2014

Siamak Eqtesadi; Azadeh Motealleh; Fidel H. Perera; Antonia Pajares; Pedro Miranda.

32 Title of the work: Efecto de Parámetros Geométricos en la Resistencia a Compresión de Andamiajes de TCP Fabricados Mediante Moldeo Robotizado

Name of the conference: LIII Congreso de la Sociedad Española de Cerámica y Vidrio

Type of participation: Participatory - poster

City of event: L'Alcora, Valencian Community, Spain

Date of event: 2013

End date: 10/2013

Carolina Godoy; Pedro Miranda; Fernando Guiberteau; Antonia Pajares.

33 Title of the work: Fabrication of Bioactive Glasses Scaffolds by Robocasting

Name of the conference: 13th Conference of the European Ceramic Society

Type of participation: Participatory - oral communication

City of event: Limoges, France

Date of event: 2013

End date: 06/2013

Pedro Miranda; Siamak Eqtesadi; Antonia Pajares; Azadeh Motealleh; Hugo Perera Martínez.

34 Title of the work: Microfabricación De Estructuras Mediante Moldeo Robotizado

Name of the conference: Workshop en Microsistemas y Nanotecnología IBERNAM 2013

Type of participation: Participatory - invited/keynote talk

City of event: Badajoz, Spain

Date of event: 2013

End date: 22/11/2013

Fidel Hugo Perera; Pedro Miranda; Antonia Pajares.

35 Title of the work: Processing And Mechanical Properties Of Organic-Inorganic Scaffolds By Robocasting
Name of the conference: Biobone Workshop: Mechanical characterization of ceramic-based materials at different scales

Type of participation: Participatory - invited/keynote talk

City of event: Villeurbanne, France

Date of event: 2013

End date: 07/11/2013



Pedro Miranda; Francisco Javier Martínez-Vázquez; Antonia Pajares; Fernando Guiberteau.

- 36** **Title of the work:** Propiedades Mecánicas y Bioactividad de Andamiajes de Biovidrio 45S5 Fabricados Mediante Moldeo Robotizado
Name of the conference: LIII Congreso de la Sociedad Española de Cerámica y Vidrio
Type of participation: Participatory - invited/keynote talk
City of event: L'Alcora, Valencian Community, Spain
Date of event: 2013
End date: 10/2013
Siamak Eqtesadi; Azadeh Motealleh; Pedro Miranda; Fernando Guiberteau; Antonia Pajares.
- 37** **Title of the work:** Resistencia del Esmalte Dental Humano al Desgaste por Contacto Deslizante
Name of the conference: LIII Congreso de la Sociedad Española de Cerámica y Vidrio
Type of participation: 'Participatory - poster
City of event: L'Alcora, Valencian Community, Spain
Date of event: 2013
End date: 10/2013
Alberto Palomares; Óscar Borrero; Antonia Pajares; Fernando Guiberteau.
- 38** **Title of the work:** Strengthening and Toughening of Tricalcium Phosphate Scaffolds by Coating with Polycaprolactone through Different Methods
Name of the conference: 13th Conference of the European Ceramic Society
Type of participation: 'Participatory - poster
City of event: Limoges, France
Date of event: 2013
End date: 06/2013
Pedro Miranda; Francisco J. Martínez Vázquez; Antonia Pajares; Fernando Guiberteau.
- 39** **Title of the work:** Developing Robocast Ceramic/Polymer Scaffolds For Bone Implants
Name of the conference: European Orthopaedic Research Society 20th Annual Meeting (EORS 2012)
City of event: Amsterdam, Holland
Date of event: 2012
P. Miranda; F. J. Martínez-Vázquez; F. H. Perera; A. Pajares; F. Guiberteau. 2012.
- 40** **Title of the work:** Fabricación De Andamiajes Cerámico/Polímero Mediante Moldeo Robotizado Para Implantes Óseos
Name of the conference: XIII Congreso Nacional de Propiedades Mecánicas de Sólidos (PMS 2012)
City of event: Alcoy, Spain
Date of event: 2012
F. J. Martínez-Vázquez; A. Pajares; P. Miranda; F. Guiberteau. 2012.
- 41** **Title of the work:** Influencia De La Molienda En Las Prestaciones Mecánicas De Materiales Compuestos TCP/PLA
Name of the conference: XIII Congreso Nacional de Propiedades Mecánicas de Sólidos (PMS 2012)
City of event: Alcoy, Spain
Date of event: 2012
D. Ciria; P. Miranda; F. Guiberteau; A. Pajares. 2012.
- 42** **Title of the work:** Optimización Mecánica De La Arquitectura De Poros De Andamiajes De HAp
Name of the conference: LII Congreso Anual de la Sociedad Española de Cerámica y Vidrio
City of event: Burgos, Spain



Date of event: 2012

C. Godoy; P. Miranda; F. Guiberteau; A. Pajares. 2012.

- 43 Title of the work:** An improvement of the compressive strength of robocast HAp scaffolds through hydrothermal apatite deposition
Name of the conference: 12 th Conference of the European Ceramic Society
City of event: Stockholm, Sweden
Date of event: 2011
F. H. Perera; Y. Liu; F. J. Martínez-Vázquez; P. Miranda; A. Pajares; Z. Shen; F. Guiberteau. 2011.
- 44 Title of the work:** Influence of microstructure on the pre-creep mechanical properties of liquid-phase sintered silicon carbide
Name of the conference: 12 th Conference of the European Ceramic Society
City of event: Stockholm, Sweden
Date of event: 2011
E. Sánchez-González; P. Miranda; A. Pajares; F. Guiberteau. 2011.
- 45 Title of the work:** Novel composite robocast scaffolds for bone tissue engineering
Name of the conference: Biofuture 2011
City of event: Ghent, Belgium
Date of event: 2011
F. J. Martínez-Vázquez; F. H. Perera; P. Miranda; A. Pajares. 2011.
- 46 Title of the work:** Robocast scaffolds for maxillofacial reconstruction
Name of the conference: 12 th Conference of the European Ceramic Society
City of event: Stockholm, Sweden
Date of event: 2011
P. Miranda; F. H. Perera; F. J. Martínez-Vázquez; A. Pajares; F. Guiberteau; F. L. López; R. Martínez. 2011.
- 47 Title of the work:** Efecto de la presencia de aditivos en la resistencia a fractura de composites titanato de aluminio/mullita
Name of the conference: XII Congreso Nacional de Propiedades Mecánicas de Sólidos
City of event: Aránzazu-Oñate,
Date of event: 2010
F. H. Perera; F. J. Martínez-Vázquez; A. Pajares; J. J. Meléndez. 2010.
- 48 Title of the work:** Estudio de sinterización de hidroxiapatita para aplicaciones en ingeniería de tejido óseo
Name of the conference: XII Congreso Nacional de Propiedades Mecánicas de Sólidos
City of event: Aránzazu-Oñate,
Date of event: 2010
F. H. Perera; F. J. Martínez-Vázquez; P. Miranda; A. Pajares; F. Guiberteau. 2010.
- 49 Title of the work:** FEM prediction of the fracture behavior of calcium phosphates scaffolds fabricated by robocasting
Name of the conference: The 6th Latin American Congress of Artificial Organs and Biomaterials
City of event: Gramado, Brazil
Date of event: 2010
F. H. Perera; F. J. Martínez-Vázquez; P. Miranda; A. Pajares; F. Guiberteau. 2010.



- 50** **Title of the work:** Fabricación y optimización de andamiajes cerámicos para regeneración de tejido óseo
Name of the conference: 50 Congreso de la Sociedad Española de Cerámica y Vidrio
City of event: Madrid.,
Date of event: 2010
P. Miranda; F. H. Perera; F. J. Martínez-Vázquez; A. Pajares; F. Guiberteau. 2010.
- 51** **Title of the work:** Optimizing the mechanical resistance of robocast ceramic/polymer scaffolds for bone implants
Name of the conference: The 6th Latin American Congress of Artificial Organs and Biomaterials
City of event: Gramado, Brazil
Date of event: 2010
A. Pajares; F. J. Martínez-Vázquez; F. H. Perera; P. Miranda; F. Guiberteau. 2010.
- 52** **Title of the work:** Effect of polimer infiltration on the mechanical behavior under uniaxial compression of robocast ceramic scaffolds for bone tissue engineering applications
Name of the conference: 22nd European Conference on Biomaterials
City of event: Lausanne, Switzerland
Date of event: 2009
F. J. Martínez-Vázquez; F. H. Perera; P. Miranda; A. Pajares; F. Guiberteau. 2009.
- 53** **Title of the work:** Effect of sintering parameters on the mechanical behaviour, grain growth and densification of beta-TCP
Name of the conference: 11th International Conference and Exhibition of the European Ceramic Society
City of event: Cracovia, Poland
Date of event: 2009
F. H. Perera; F. J. Martínez-Vázquez; P. Miranda; A. Pajares; F. Guiberteau. 2009.
- 54** **Title of the work:** Elastic-Plastic properties of silicon nitride from room temperature up to the onset of creep.
Name of the conference: 11th International Conference and Exhibition of the European Ceramic Society
City of event: Cracovia, Poland
Date of event: 2009
E. Sánchez-González; P. Miranda; F. Guiberteau; A. Pajares. 2009.
- 55** **Title of the work:** Application of Hertzian tests to measure mechanical properties of advanced ceramics up to the onset of creep
Name of the conference: International Workshop on Mechanics-Based Design of Materials.
City of event: Perth, Australia
Date of event: 2008
E. Sánchez-González; P. Miranda; J. J. Meléndez; F. Guiberteau; A. Pajares. 2008.
- 56** **Title of the work:** Efecto de la temperatura y el tiempo de sinterización en la resistencia a fractura, crecimiento de grano y densificación del beta-fosfato tricálcico
Name of the conference: XI Congreso Nacional de Propiedades Mecánicas de Sólidos.
City of event: El Bosque,
Date of event: 2008
F. J. Martínez-Vázquez; F. H. Perera; P. Miranda; A. Pajares; F. Guiberteau. 2008.
- 57** **Title of the work:** Effect of sol-gel thin coatings on the fracture strength of brittle materials
Name of the conference: International Workshop on Mechanics-Based Design of Materials.
City of event: Perth, Australia
Date of event: 2008



E. Sánchez-González; P. Miranda; A. D. Parralejo; A. Pajares; F. Guiberteau. 2008.

- 58** **Title of the work:** Evolución del tamaño de grano y densificación de β -fostato tricálcico con la temperatura y el tiempo de sinterización
Name of the conference: X Congreso Nacional de Materiales.
City of event: San Sebastian, Spain
Date of event: 2008
F. H. Perera; P. Miranda; A. L. Ortiz; A. Pajares; F. Guiberteau. 2008.
- 59** **Title of the work:** Mechanical optimization of robocast scaffolds for bone implants
Name of the conference: International Workshop on Mechanics-Based Design of Materials.
City of event: Perth, Australia
Date of event: 2008
P. Miranda; F. H. Perera; F. Guiberteau; A. Pajares. 2008.
- 60** **Title of the work:** Modelado mediante elementos finitos y predicción del comportamiento a fractura de andamiajes para ingeniería de tejidos fabricados por robocasting
Name of the conference: XI Congreso Nacional de Propiedades Mecánicas de Sólidos.
City of event: El Bosque,
Date of event: 2008
P. Miranda; F. H. Perera; F. J. Martínez-Vázquez; A. Pajares; F. Guiberteau. 2008.
- 61** **Title of the work:** Propiedades mecánicas de Y-TZP a temperaturas intermedias ($T < 1000^\circ\text{C}$)
Name of the conference: X Congreso Nacional de Materiales.
City of event: San Sebastian, Spain
Date of event: 2008
E. Sánchez-González; P. Miranda; J. J. Meléndez; A. Pajares; F. Guiberteau. 2008.
- 62** **Title of the work:** Propiedades mecánicas de cerámicos a base de alfa-SiC a temperaturas intermedias
Name of the conference: XI Congreso Nacional de Propiedades Mecánicas de Sólidos.
City of event: El Bosque,
Date of event: 2008
E. Sánchez-González; P. Miranda; A. Pajares; F. Guiberteau. 2008.
- 63** **Title of the work:** Compression fracture modes in robocast scaffold
Name of the conference: 21 European Conference in Biomaterials.
City of event: Brighton, United Kingdom
Date of event: 2007
P. Miranda; A. Pajares; E. Saiz; A. P. Tomsia; F. Guiberteau. 2007.
- 64** **Title of the work:** Mechanical behaviour under uniaxial compression of robocast calcium phosphate scaffold
Name of the conference: ECM8: Bond Tissue Engineering.
City of event: Davos, Switzerland
Date of event: 2007
P. Miranda; A. Pajares; E. Saiz; A. P. Tomsia; F. Guiberteau. 2007.
- 65** **Title of the work:** Determination of mechanical properties of Al_2O_3 at intermediate temperatures using hertzian tests.
Name of the conference: Mechanical Properties in Advanced Materials: Recent Insights.
City of event: Fuenteheridos-Huelva, Spain
Date of event: 2006



E. Sánchez-González; P. Miranda; J. J. Meléndez; F. Guiberteau; A. Pajares. 2006.

66 **Title of the work:** Hardness degradation of liquid-phased-sintered silicon carbide with prolonged sintering
Name of the conference: Mechanical Properties in Advanced Materials: Recent Insights.
City of event: Fuenteheridos-Huelva, Spain
Date of event: 2006

O. Borrero-López; A. Pajares; A. L. Ortiz; F. Guiberteau. 2006.

67 **Title of the work:** Propiedades mecánicas de cerámicos a temperaturas intermedias.
Name of the conference: IX Congreso Nacional de Materiales.
City of event: Vigo, Spain
Date of event: 2006

E. Sánchez-González; P. Miranda; J. J. Meléndez; F. Guiberteau A. Pajares. 2006.

68 **Title of the work:** Efecto de la temperatura en las propiedades mecánicas de la alúmina.
Name of the conference: X Congreso Nacional de Tratamientos Térmicos y de Superficie.
City of event: Sevilla, Spain
Date of event: 2005

E. Sánchez-González; P. Miranda; J. J. Meléndez-Martínez; A. Pajares F. Guiberteau. 2005.

69 **Title of the work:** Efecto de los recubrimientos sol-gel de zirconia sobre la fractura de materials frágiles.
Name of the conference: XXII Encuentro del Grupo Español de Fractura.
City of event: Almagro, Spain
Date of event: 2005

E. Sánchez-González; A. Pajares; P. Miranda; A. Díaz-Parralejo; F. Guiberteau. 2005.

70 **Title of the work:** Efecto de los recubrimientos sol-gel de zirconia sobre la fractura del vidrio.
Name of the conference: IX Congreso Nacional de Propiedades Mecánicas de Sólidos.
Type of participation: Participatory - poster
City of event: Fuenteheridos, Spain
Date of event: 2004

E. Sánchez-González; P. Miranda; A. Díaz-Parralejo; A. Pajares; F. Guiberteau .2004.

71 **Title of the work:** Effect of thin films on the strength of silicon in the region of small-scale flaws.
Name of the conference: MRS Fall Meeting.
City of event: Boston,
Date of event: 2004

Y. G. Yung; A. Pajares; B. R. Lawn. 2004.

72 **Title of the work:** Resistencia de materiales frágiles a escala nanométrica.
Name of the conference: IX Congreso Nacional de Propiedades Mecánicas de Sólidos.
City of event: Fuenteheridos, Spain
Date of event: 2004

A. Pajares; Y. G. Yung; R. Banerjee; B. R. Lawn. 2004.

73 **Title of the work:** Nanomechanic of ceramic-based materials issues of scale.
Name of the conference: MRS Spring Meeting.
City of event: San Francisco,
Date of event: 2003

B. R. Lawn; A. Pajares; H. Chai.2003.



- 74** **Title of the work:** Caracterización mecánica de recubrimientos Sol-Gel de zirconia.
Name of the conference: VIII Congreso Nacional de propiedades mecánicas de sólidos.
City of event: Valencia, Spain
Date of event: 2002
C. Pérez; A. Diaz-Parralejo; R. Caruso; P. Miranda; A. Pajares; F. Guiberteau.2002.
- 75** **Title of the work:** Diseño de materiales multicapa para aplicaciones de contacto.
Name of the conference: VII Reunión Nacional de Materiales.
City of event: Madrid, Spain
Date of event: 2002
P. Miranda; A. Pajares; F. Guiberteau; F.L. Cumbreira; B. R. Lawn.2002.
- 76** **Title of the work:** Fatiga de sistemas bicapa cerámico/polímero.
Name of the conference: VIII Congreso Nacional de propiedades mecánicas de sólidos.
City of event: Valencia, Spain
Date of event: 2002
J. Sánchez; P. Miranda; A. Pajares; F. Guiberteau; C. S. Lee; B. R. Lawn.2002.
- 77** **Title of the work:** Influencia de la distribución de defectos en la fractura de recubrimientos frágiles.
Name of the conference: XIX Encuentro del Grupo Español de Fractura.
City of event: Gerona, Spain
Date of event: 2002
P. Miranda; A. Pajares; F. Guiberteau; F.L. Cumbreira; B. R. Lawn.2002.
- 78** **Title of the work:** Rate effects in radial fracture of ceramic/polymer bilayers.
Name of the conference: AustCeram 2002.
City of event: Perth, Australia
Date of event: 2002
J. Sánchez; P. Miranda; A. Pajares; F. Guiberteau; C.S. Lee; D.K. Kim; B. R. Lawn.2002.
- 79** **Title of the work:** Propiedades mecánicas de cerámicos.
Name of the conference: Reunión Nacional de Física de Estado Sólido.
City of event: Madrid, Spain
Date of event: 2001
A. Pajares.2001.
- 80** **Title of the work:** Caracterización mecánica de materiales para aplicaciones dentales.
Name of the conference: VII Congreso Nacional de propiedades mecánicas de sólidos.
City of event: Segovia, Spain
Date of event: 2000
A. Pajares; P. Miranda; F. Guiberteau; F.L. Cumbreira.2000.
- 81** **Title of the work:** Contact damage modes in multilayered structures for dental applications.
Name of the conference: 2000 MRS Fall Meeting.
City of event: Boston,
Date of event: 2000
P. Miranda A. Pajares; F. Guiberteau; F.L. Cumbreira; B. R. Lawn.2000.
- 82** **Title of the work:** Modos de fractura en materiales multicapa.
Name of the conference: VII Congreso Nacional de propiedades mecánicas de sólidos.
City of event: Segovia, Spain



Date of event: 2000

P. Miranda; A. Pajares; F. Guiberteau; F.L. Cumbreira.2000.

83 Title of the work: Fractura de materiales multicapa bajo la acción de tensiones de contacto.

Name of the conference: VI Reunión Nacional de Materiales.

City of event: San Sebastián, Spain

Date of event: 1999

A. Pajares; P. Miranda; F.L. Cumbreira; F. Guiberteau.1999.

84 Title of the work: Effect of contact damage on strength in infiltrated alumina.

Name of the conference: 99th Annual Meeting of the American Ceramic Society.

City of event: Cincinnati,

Date of event: 1997

I.M. Peterson; A. Pajares and B.R. Lawn.1997.

85 Title of the work: Analysis of contact damage in YSZ Plasma-Sprayed Coatings.

Name of the conference: 98th Annual Meeting of the American Ceramic Society.

City of event: Indianapolis,

Date of event: 1996

S. Wuttiaphan; A. Pajares and B.R. Lawn.1996.

86 Title of the work: Contact damage in dental ceramics.

Name of the conference: Gordon Research Conference on Solid State Studies in Ceramics.

City of event: Meriden,

Date of event: 1996

I. Peterson; A. Pajares and B.R. Lawn.1996.

87 Title of the work: Damage and Fatigue in Mg-PSZ at Hertzian Contacts.

Name of the conference: 97th Annual Meeting of the American Ceramic Society.

City of event: Cincinnati,

Date of event: 1995

A. Pajares; L. Wei; F. Guiberteau and B.R. Lawn.1995.

88 Title of the work: Tensiones residuales de Indentación en 4Y-PSZ.

Name of the conference: XI Encuentro del Grupo Español de Fractura.

City of event: San Sebastián, Spain

Date of event: 1994

A. Pajares; F. Guiberteau; F.L. Cumbreira; A. Domínguez-Rodríguez.1994.

89 Title of the work: Stable Growth of Indentation Cracks in Ytria Stabilized Zirconia.

Name of the conference: European Ceramic Society, Third Conference.

City of event: Madrid,

Date of event: 1993

A. Pajares; F. Guiberteau; A. Domínguez-Rodríguez; G.W. Dransmann and R.W. Steinbrech.1993.

90 Title of the work: Estudio del campo de tensiones residuales alrededor de impresas Vickers en 4Y-PSZ.

Name of the conference: III Reunión de propiedades mecánicas de sólidos.

City of event: La Rábida, Spain

Date of event: 1992

A. Pajares; F. Guiberteau; A. Domínguez-Rodríguez; G.W. Dransmann and R.W. Steinbrech.1992.



- 91** **Title of the work:** Un modelo para explicar la configuración de fisuras generales mediante ensayos Vickers a diferentes cargas en 4Y-PSZ.
Name of the conference: IX Encuentro del grupo español de Fractura y I Encuentro Hispano-Francés de Fractura.
City of event: Aiguablava,
Date of event: 1992
A. Pajares; F. Guiberteau; F.L. Cumbreira; A. Domínguez-Rodríguez.1992.
- 92** **Title of the work:** Propagation of short surface cracks in Y-TZP.
Name of the conference: European Ceramic Society, Second Conference.
City of event: Augsburg, Germany
Date of event: 1991
A. Pajares; F. Guiberteau; A. Domínguez-Rodríguez; G.W. Dransmann and R.W. Steinbrech.1991.
- 93** **Title of the work:** Configuración de Fisuras Introducidas en Y-PSZ mediante ensayos Vickers.
Name of the conference: II Reunión de Propiedades Mecánicas de Sólidos.
City of event: La Rábida, Spain
Date of event: 1990
J.C. Chavero; A. Pajares; F. Guiberteau; A. Domínguez-Rodríguez.1990.
- 94** **Title of the work:** Configuración de fisuras introducidas por Indentación sobre Caras (100) de FSZ (Y2O3 9.4 mol%). Determinación de la tenacidad.
Name of the conference: XXVII Reunión Anual de la Sociedad Española de Cerámica y Vidrio.
City of event: Mérida, Spain
Date of event: 1987
A. Pajares; F. Guiberteau; A. Domínguez-Rodríguez.1987.

R&D management and participation in scientific committees

Organization of R&D activities

- 1** **Title of the activity:** 14th International Conference European Ceramic Society
Type of activity: Congreso
City of event: Toledo, Castile-La Mancha, Spain
Type of participation: Organiser
Start-End date: 21/06/2015 - 25/06/2015
- 2** **Title of the activity:** LIV Congreso de la Sociedad Española de Cerámica y Vidrio (SECV)
Type of activity: Congreso
City of event: Badajoz, Extremadura, Spain
Type of participation: Secretary
Start-End date: 19/11/2014 - 22/11/2014
- 3** **Title of the activity:** VI Congreso Nacional de Propiedades Mecánicas de Sólidos.
Type of activity: Secretaria del Comité Organizador. **Geographical area:** N
Start date: 1998
- 4** **Title of the activity:** X Encuentro del Grupo Español de Fractura y II Encuentro Hispano-Luso de Fractura.
Type of activity: Secretaria Comité Organizador. **Geographical area:** I
Start date: 1993

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** MATERIALS SCIENCE AND ENGINEERING LABORATORY. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.
City of entity: GAITHERSBURG, M.D.,
Start date: 2002
Name of programme: Resistencia de materiales frágiles a escala nanométrica.
Goals of the stay: Guest
- 2** **Entity:** MATERIALS SCIENCE AND ENGINEERING LABORATORY. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.
City of entity: GAITHERSBURG, M.D.,
Start date: 2000
Name of programme: Influencia del estado superficial en los modos de daño por contacto.
Goals of the stay: Guest
- 3** **Entity:** MATERIALS SCIENCE AND ENGINEERING LABORATORY. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.
City of entity: GAITHERSBURG, M.D.,
Start date: 1999
Name of programme: Modos de fractura en materiales multicapa.
Goals of the stay: Guest
- 4** **Entity:** MATERIALS SCIENCE AND ENGINEERING LABORATORY. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.
City of entity: GAITHERSBURG, M.D.,
Start date: 1998
Name of programme: Mecanismos de daño por contacto en cerámicos avanzados.
Goals of the stay: Guest
- 5** **Entity:** MATERIALS SCIENCE AND ENGINEERING LABORATORY. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.
City of entity: GAITHERSBURG, M.D.,
Start date: 1996
Name of programme: Deformación y fractura de cerámicos utilizados en restauraciones dentales.
Goals of the stay: Guest
- 6** **Entity:** MATERIALS SCIENCE AND ENGINEERING LABORATORY. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY.
City of entity: GAITHERSBURG, M.D.,
Start date: 1994
Name of programme: Fatiga por contacto de cerámicos tenaces.
Goals of the stay: Post-doctoral
- 7** **Entity:** FORSCHUNGSZENTRUM JULICH GMBH.
City of entity: JULICH, Germany
Start date: 1990



CURRÍCULUM VITAE NORMALIZADO

c26f0b0fed820f97b866ffe9cb276073

Name of programme: Fractura en policristales Y-PSZ (4 mol %).

Goals of the stay: Doctorate