MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES

CURRICULUM VITAE (maximum 4 pages)

CV date	12/01/2021

Part A. PERSONAL INFORMATION

First and Family name	Alberto Gallardo Ruiz		
Social Security, Passport, ID number	12747876b	Age	55
Researcher numbers	Researcher ID	B-4794-2011	
	Orcid code	0000-0003-4614-4299	

A.1. Current position

Name of University/Institution	**Consejo Superior de Investigaciones Científicas, CSIC**		
Department	**Instituto de Ciencia y Tecnología de Polímeros, ICTP**		
Address and Country	Juan de la Cierva 3, 28006, Madrid		
Phone number	915618806-375	E-mail	gallardo@ictp.csic.es
Current position	Scientific Researcher	From	02/05/2006
Espec. cód. UNESCO	2304		
Palabras clave	Chain polymerization, polymer synthesis and characterization, polymer functionalization, crosslinkers and networks, supports for cell manipulation		

A.2. Education

PhD	University	Year
Ciencias Químicas	Universidad Complutense de Madrid	1993

A.3. JCR articles, h Index, thesis supervised…

Alberto Gallardo began his scientific activity in 1991 and has 130 articles in SCI journals, of which 78 are in the first quartile (Q1). It has been granted 6 *sexenios* (the last in the period 14-2019). In the last 10 years he has directed 4 doctoral theses. It has a total of 1999 citations, with an average of 74 citations per year. Its index h is 24. These data have been collected in the Web of Science.

Part B. CV SUMMARY *(max. 3500 characters, including spaces)*

Alberto Gallardo co-leads a team of about 10 researchers, expert in preparative methods of polymeric materials and their precursors, and has as its ultimate goal to offer technological and / or biomedical solutions to specific needs of society, such as new formulations of anti-aging paints, improvement of analytical techniques, structuring of surfaces, methods of catalysis in water, effective vectors in gene therapy, competitive supports in cellular manipulation, preparation of conjugates polymer-drug, hydrogels, etc.
For this, and because this search for solutions requires multidisciplinary approaches, it collaborates with a good number of groups and complementary companies that are experts in fields such as those mentioned above or others. This desire to transfer knowledge to society is reflected in the 11 patents of which it is an intellectual co-author (one of them licensed), in collaborations with companies (one in active), the foundation of a company (the EBT ReleasyCell in 2018) in its participation in teaching in different university master's degrees and courses and in the creation of informative tools (videos and software). The collaborative spirit is shown by the coauthors in the more than 126 articles of the CV (in the last 5 years articles in collaboration with more than 10 different groups), the vast majority published in magazines of the first quartile of the field of polymer chemistry or materials. It has been IP of two national projects during the last 8 years.
Alberto Gallardo also directs part of his efforts to the training of research personnel (he has directed 7 doctoral theses and 12 final Master's projects) to dissemination tasks (he has 3 videos on YouTube with more than 40,000 visits, he is the author of copol software for prediction of copolymerization reactions found in the CSIC repository, has participated in courses for teachers, in 17 book chapters and in more than 20 works in national and

international conferences in the last years) and teaching (has participated in three Masters University students with an accumulated of about 22 courses), as well as internationalization (he has participated in different international projects, several Europeans, has hosted stays of foreign students, has participated in bilateral Workshops, has carried out stays in different foreign universities). He is also involved in an artistic activity that uses science to create art. He has shown the result of this activity in the Science Week of CSIC in 2017.

Part C. RELEVANT MERITS

C.1. Publications (including books)

1. E Martínez-Campos; A. Santos-Coquillat; M.E. Pérez-Ojeda; A. Civantos; C. Elvira; H. Reinecke; C. García; V. Ramos; J. Rodríguez-Hernández; ***A. Gallardo*** Thermosensitive hydrogel platforms with modulated ionic load for optimal cell sheet harvesting. European Polymer Journal, 2018, vol. 103, p. 400-409. (Q1)
2. C. García, ***A. Gallardo***, D. López, C. Elvira, A. Azzahti, E. López-Martínez, A. Cortajarena, A; C. González-Henríquez, M. Sarabia-Vallejos, J. Rodriguez-Hernandez, J. Smart pH-responsive antimicrobial hydrogel scaffolds prepared by Additive Manufacturing. ACS Applied Bio Materials, 2018, XXX, XXX-XXX (DOI 10.1021/acsabm.8b00297 (not ranked)
3. ***A. Gallardo***, A., Pereyra, Y., Martinez-Campos, E., Garcia, C., Acitores, D., Gómez, M. A.,… & Salavagione, H. J. (2017). Facile One-pot Exfoliation and Integration of 2D Layered Materials by Dispersion in a Photocurable Polymer Precursor. Nanoscale. 2017, 9, 10590 – 10595 (Q1)
4. 158. A. Civantos, E. Martínez Campos, M. E. Nash, ***A. Gallardo***, V. Ramos, I. Aranaz. Polymeric and non-polymeric platforms for cell sheet detachment, in Advanced Materials Interfaces 2016 (AMBS-1161). Chapter 13, WILEY-Scrivener Publishing LLC, USA
5. Reinecke, H.; ***Gallardo, A.***; García, Carolina; Elvira, Carlos; Perez-Perrino, Monica; Navarro, Rodrigo. Highly flexible PVC materials without plasticizer migration as obtained by efficient one-pot procedure using trichlorotriazine chemistry. ***Macromolecules***, 2016, 49, 2224, 2227 (Q1)
6. I. Aranaz; E. Martínez-Campos; M.E. Nash; M.G. Tardajos; H. Reinecke; C. Elvira; V. Ramos; J.L. López-Lacomba; ***A. Gallardo***. Año de publicación: 2014. Título: Pseudo-double network hydrogels with unique properties as supports for cell manipulation. ***Journal of Materials Chemistry B***. 2 - 24, pp. 3839 - 3848. 2014 (Q1)
7. J.A. Redondo; R. Navarro; E. Martínez-Campos; M. Pérez-Perrino; R. París; J.L. López-Lacomba; C. Elvira; H. Reinecke; ***A. Gallardo***. Año de publicación: 2014. Título: Prodendronic polyamines from stable or labile methacrylates obtained by selective Michael addition onto asymmetric diacrylic compounds. ***Journal of Polymer Science, Part A: Polymer Chemistry***. 52 - 16, pp. 2297 - 2305. 2014. (Q1)
8. J.A. Redondo; R. Navarro; E. Martínez-Campos; M. Pérez-Perrino; R. París; J.L. López-Lacomba; C. Elvira; H. Reinecke; ***A. Gallardo***. Año de publicación: 2014. Título: Prodendronic polyamines from stable or labile methacrylates obtained by selective Michael addition onto asymmetric diacrylic compounds. ***Journal of Polymer Science, Part A: Polymer Chemistry***. 52 - 16, pp. 2297 - 2305. 2014. (Q1)
9. Tardajos, M.G.; Aranaz, I.; Pérez, M.; López, D.; Reinecke, H.; Elvira, C.; ***Gallardo, A***. Año de publicación: 2013. Título: Self structuring in amphiphilic networks prepared by single conventional radical copolymerization of n-butyl methacrylate and vinylpyrrolidone. ***Macromolecules*** 2013, **46, 2018-2025. (Q1)**
10. A. Del Prado; N. Briz; R. Navarro; M. Pérez; ***A. Gallardo***; H. Reinecke. Año de publicación: 2012. Título: Transparent polystyrene substrates with controllable surface chlorosulfonation: Stable, versatile, and water-compatible precursors for functionalization. ***Macromolecules***. 45 - 6, pp. 2648 - 2653. 2012. (Q1)

C.2. Research projects and grants

- **202060E096**. Title of the project: **Resinas y filamentos para manufactura aditiva**. Financing entity: CSIC (Proyecto Intramural CSIC). Main researcher: Alberto Gallardo. Affiliation entity: ICTP-CSIC. Start-end date: 01/04/2020 – 31/09/2021. Budget: 28.000. Type of participation: Main researcher. Granted project.

- **CSIC-COV19-137**. Title of the project: **Desarrollo y fabricación de hisopos por impresión 3D para la elaboración de kits de extracción de muestras COVID19: validación hospitalaria de su uso**. Financing entity: CSIC (Proyecto Intramural CSIC). Main researcher: Juan Rodríguez-Hernández. Affiliation entity: ICTP-CSIC. Start-end date: 10/06/2020 - 21/06/2021. Budget: 108.000. Type of participation: Researcher. Granted project.
- **202060E171**. Title of the project: **Textiles y recubrimientos poliméricos funcionales recargables con previsible actividad anti-sars-cov-2**. Financing entity: CSIC (Proyecto Intramural CSIC). Main researcher: Paula Bosch. Affiliation entity: ICTP-CSIC. Start-end date: 05/2020 - 05/2021. Budget: 120.000. Type of participation: Researcher. Granted project.
- P2018/BAA-4480. Title of the project: **Nuevas Tecnologías de Fabricación y Optimización de Tejidos: La piel como Sistema Modelo, BIOPIELTEC-CM**. Financing entity: Comunidad de Madrid. Main researcher: Pablo Acedo (UCIII, coordinator), Carlos Elvira (IP ICTP-CSIC). Affiliation entity: UCIII, UPM, HULP, ISCIII, ICTP-CSIC. Start-end date: 01/01/2019 – 31/12/2022. Budget: 848.737 € (ICTP 110.000 €). Type of participation: Researcher. Granted project.
- **H2020-CS2-CFP07-2017-02**. Title of the project: ***ADDITIVE MANUFACTURING OPTIMIZED TAILORED SEALS (ADDAPTTA SEALS)***. Financing entity: UE (H2020, Clean Sky 2 Call for Proposals 07). Main researcher: Juan Rodríguez. Affiliation entity: ICTP-CSIC. Start-end date: 01/10/2018 - 01/03/2020. Budget: 407.000 € (ICTP: 85.400 €). Type of participation: Researcher. Granted project.
- **MAT2013-42957-R**. Title of the project: ***Soportes poliméricos funcionalizados para medicina regenerativa***. Financing entity: MINECO (España). Call: Retos 2013. Main researcher (IP1, IP2): Alberto Gallardo; Helmut Reinecke. Affiliation entity: ICTP-CSIC. Start-end date: 01/01/2014 - 31/12/2016. Budget: 166.936. Type of participation: Main researcher. Finished project.
- **NMP, Nº contrato: 263289**. Title of the project: ***Substitution of materials or components utilizing "green nanotechnology", (Green Nano-Mesh)***. Financing entity: UE. Call: 7º Programa Marco. Main researcher (Coordinador; IP ICTP): Demetrius Zeugolis; Carlos Elvira. Affiliation entity: ICTP-CSIC. Start-end date: 001/06/2011 - 31/05/2015. Budget: 147.185. Type of participation: Researcher. Proyecto finalizado.
- **MAT2010-20001**. Title of the project: ***PVPilación de compuestos activos***. Financing entity: CICYT (España). Call: Proyectos de investigación fundamental no orientada 2010. Main researcher: Alberto Gallardo. Affiliation entity: ICTP-CSIC. Start-end date: 01/01/2011 - 31/06/2014. Budget: 100.000 y beca FPI. Type of participation: Main researcher. Finished project.
- **PIM2010IPO-00646**. Title of the project: ***Polimerización controlada en CO2 supercrítico de nuevos materiales sensibles a estímulos***. Financing entity: MICINN (España). Call: P N INTERNACIONALIZACION I & D 2010, MICINN (IUPAC Polymer Divison). Main researcher (Coordinador; IP ICTP): Fawaz Aldabbagh; Carlos Elvira. Affiliation entity: ICTP-CSIC. Start-end date: 01/11/2011 - 31/12/2013. Budget: 140.000. Type of participation: Researcher. Finished project.
- **MAT 2007-63355**. Title of the project: ***Regeneración Tisular: Diseño y aplicación de nuevos sistemas bioactivos***. Financing entity: CICYT (España). Call: Proyectos de investigación fundamental no orientada 2010. Main researcher: Julio San Román. Affiliation entity: ICTP-CSIC. Start-end date: 01/01/2008 - 31/12/2010. Budget: 510.620. Type of participation: Researcher. Finished project.

C.3. Contracts

- **Biopolymer Timer**. Contract: I+D; Company: Vastago Internacional S.L.; IP: Alberto Gallardo; Affiliation entity: ICTP-CSIC. 07/01/2020-07/12/2020; 62.463 €.
- **Non-migrating plasticizers for PVC**; Contract: I+D; Company: Plasgom S.A.; IP: Helmut Reinecke; Affiliation entity: ICTP-CSIC. 1/2018-12/2018; 70.000€.
- **Síntesis y caracterización de recubrimientos termosensibles para cultivo celular**; Contract: I+D; Company: RELEASYCELL S.L.; IP: Alberto Gallardo; Affiliation entity: ICTP-CSIC. 2018-2019; 32.000€.

- **Resin development for industrial coatings**. Contract: I+D; Company: Pinturas Hempel, S.A. IP: Helmut Reinecke. Affiliation entity: ICTP-CSIC. 15/03/2015 – 31/12/2017. 141.111€.

- **Study of anionic polymerization of Lactams**. Contract: I+D; Company: Acciona Infraestructuras S.A. IP: Helmut Reinecke. Affiliation entity: ICTP-CSIC. 01/01/2010 - 04/11/2011.: 141.000 €.

C.4. Patents

- A. Gallardo, C. Elvira, H. Reinecke, E. Martínez-Campos, J. Rodríguez-Hernández, C. García. P201830348. ***Hidrogeles basados en vinilcaprolactama***. PCT phase. April 5th 2018. Holder: CSIC.
- A. Gallardo; J. Rodríguez-Hernández; C. García; M.E. Pérez-Ojeda; A.M. Santos; A. Civantos; C. Elvira; H. Reinecke; E. Martínez Campos. PCT/E2018/070029. ***Vinyl-lactam based hydrogel coatings***. PCT phase. January 16th 2018. Holders: CSIC, UCM. Lisensed to Releasycell S.L.
- H. Reinecke, A. Gallardo, C. Elvira, C. García, R. Navarro, T. Marques. P201631436. ***Procedimiento de obtención de polímeros con grupos isocianato***. Spanish Patent (requested). 11/11/2016. Holder: CSIC
- A. Gallardo Ruiz, A. Fernandez-Mayoralas, A. Bastida-Codina, J. Rodríguez-Hernández. P201631683. ***Microchips porosos funcionalizados y su uso en la elaboración de sensores***. Spanish Patent (requested). Dec 2016. Holder: CSIC.
- A. Gallardo; I. Aranaz; M. Nash; M. Gómez Tardajos; C. Elvira; H. Reinecke; E. Martínez Campos; V. Ramos; J.L. López Lacomba. P201330851. ***Hidrogeles multicomponentes basados en vinilpirrolidona y su aplicación en ingeniería de tejidos y/o medicina regenerativa***. Spanish Patent (discontinued). 07/05/2013. Holder: CSIC, UCM.
- H. Reinecke; M. Pérez; R. Navarro; A. Gallardo; R. Niederstadt. EP20110156107. ***Thiolates as non-migrating PVC softener***. 19/05/2012. Holder: CSIC, Ecoatech. Lisensed to Ecoatech (discontinued).

C.5 Companies

- Co-founding of the company (EBT) Releasycell S.L; 2018.

C.6 Dissemination videos

http://youtu.be/3eRALuJ6mNA. http://youtu.be/qrTVFv1cIOg. http://youtu.be/vUKN4WQOUgk More than 40.000 views (12/01/2021). These videos have been used for dissemination purposes in the IES Luis García Berlanga of Guadalix de la Sierra.

C.7 Teaching

- Courses 2020-21, 19-20, 18-19, 17-18, 16-17, 15--16, 14-15, 13-14, 12, 13, 11-12, 10-11, 09-10, 08-09, 07-08, 06-07, 05-06, 04-05, 03-04, 02-03. Teacher of "***Química Macromolecular***" in the Máster UIMP-CSIC en Alta Especialización en Plásticos y Caucho.
- Courses 2011/12, 10-11, 09-10, 08-09. Teacher of "***Materiales Poliméricos***" in the Máster Universitario en Química Aplicada. Universidad Autónoma de Madrid (UAM)
- Courses 2020-21, 19-20. Teacher of 'Polímeros' in the Máster de Física. University of Valladolid (UVA)

C.8 Art

- Artistic project inspired in science. http://www2.ictp.csic.es/qm/fupol/artbeta/