

HARITZ SARDON MUGURUZA

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Education:

PhD in Material Science, University of the Basque Country, San Sebastian, Spain, June 2011.

Dissertation: “*Optimization of Organic-Inorganic Interphase in Hybrid Systems Based on Waterborne Polyurethane and Silica Nanostructures*”.

M.S. in Applied Chemistry and Polymeric Materials, University of the Basque Country, San Sebastian, Spain, June 2008.

B.S. in Chemistry (Macromolecules), University of the Basque Country, San Sebastian, Spain, April 2005.

Professional Experience:

2016 -present, Ikerbasque Research Fellow, UPV/EHU, San Sebastian, Spain, September 2016 to present

2015 -present Part-time Professor. University of Basque Country, UPV/EHU, San Sebastian, Spain, September 2015 to present

- a) Organic Chemistry (2nd and 3rd year undergraduate)
- b) Structural Characterization (Master in Polymeric Materials)

2014–2016. Innovative Polymers Group, POLYMAT-UPV/EHU, San Sebastian, Spain. January 2014 to present

Research Lines

- a) New applications of organocatalysis in polymer chemistry.
- b) Application of redox-polymer in nanomedicine.

2014 Visiting Postdoctoral-Scientist. A.N. Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Science, INEOS, Moscow, Russia May 2014-September 2014

Main achievements

- a) Synthesis of polymeric ionic liquids for CO₂ separation.
- b) Design of new approaches for the incorporation of cationic units on polyurethanes.

2012-2014 Postdoctoral-Scientist. Advanced Organic Materials, IBM-Almaden Research Center, San Jose, California USA. January 2012 to December 2013

Major contributor to the design of greener approaches for the synthesis of polyurethanes

- a) Synthesis of Innovative Polyurethanes using isocyanate free strategy for drug delivery applications (patent pending application)
- b) Design of novel organocatalyst for the synthesis of “metal catalyst free” polyurethanes for biomedical applications ranging from antimicrobial to gene therapy (patent pending application)

2010-2012 Scientist. Biomaterials Group, HistoCell, S.L., Derio, Spain. June 2010 to December 2011

Major contributor to the design and development of several innovative products:

- a) Hydrogels for the repair of osteochondral defects.
- b) 3D scaffolds for bone regeneration.
- c) Constructs for peripheral nerve regeneration.
- d) Hydrogels for oral mucosa repair and regeneration.

2006-2010 Graduate Research Assistant. Department of Science and Technology Department, UPV-EHU, Donostia, Spain, September 2005 to June 2011

- a) Synthesizing and characterizing new waterborne polyurethane hybrid systems for their application as coatings or adhesives.

2006-2007 Visiting Graduate Research Assistant. Laboratoire de Chimie et Procédés de Polymérisation (LCPP), CNRS, Villeurbanne, France, September 2007 to April 2008.

- a) Improving the interphase properties of waterborne polyurethane and silica nanostructures.

2005 Scientific Intern. New Materials Group, Cidetec, San Sebastian, Spain, April 2005 to October 2005

- a) Developing materials based on ionic liquids and polymeric ionic liquids for the production of novel electronic devices

2004-2005 Visiting Undergraduate Research Assistant. Manchester Metropolitan University (MMU), Manchester, England, September 2004 to April 2005

- a) Development and testing of titanium nanotube fillers as surface-improving coatings.

Awarded Grants and Honors:

- 2016 Ikerbasque Fellowship
- 2014 Iberdrola Research Award in Energy and Environment
- 2014 Postdoctoral grant from the Spanish Government
- 2011 Postdoctoral grant from the Basque Government, Spain
- 2006 Doctoral grant from the Ministry of Education and Science, Spain.

Principal Investigator/Research Projects

2014 Marie Skłodowska-Curie SUSPOL European Joint Doctorate Training Network (ITN-EJD) **Project Coordinator**

2014 Iberdrola Research project for young research in energy and environment

Publications:

ResearcherID: C-4044-2015;

orcid.org/0000-0002-6268-0916

2017

1. *Andere Basterretxea¹, Elena Gabirondo, Ana Sanchez-Sanchez, Agustin Etxeberria, Olivier Coulembier, David Mecerreyes, **Haritz Sardon** Synthesis and characterization of poly (ε-caprolactam-co-lactide) polyesteramides using Brønsted acid or Brønsted base organocatalyst (Eur. Polym. J 10.1016/j.eurpolymj.2017.05.023)*
2. *Daniele Mantione, Isabel del Agua, Wandert Schaafsma, Mohammed ElMahmoudy, Ilke Uguz, Ana Sanchez-Sanchez, Haritz Sardón, Begoña Castro, George G. Malliaras, and David Mecerreyes Low temperature cross-linking of PEDOT:PSS films using divinylsulfone (accepted ACS applied and interfaces DOI: 10.1021/acsami.7b02296)*
3. *Jeremy P.K. Tan, Daniel J. Coady, Haritz Sardon, Alexander Yuen, Shrinivas Venkataraman, Amanda C. Engler, Robert Ono, Yi Yan Yang, James L. Hedrick Broad spectrum macromolecular antimicrobials with biofilm disruption capability and in vivo efficacy (accepted advanced healthcare materials)*
4. *Luca Porcarellia, Kasina Manojkumar, **Haritz Sardon**, Oihane Llorente, Alexander S. Shaplove, Kari Vijayakrishna, Claudio Gerbaldi, David Mecerreyes, Single Ion Conducting Polymer Electrolytes Based on Versatile Polyurethanes Electrochimica Acta 241 (2017) 526-534*
5. *Sofiem Garmendia, Daniele Mantione, Silvia Alonso-de Castro, Coralie Jehanno, Luis Lezama, James L. Hedrick, David Mecerreyes, Luca Salassa and Haritz Sardon* Polyurethane based organic macromolecular contrast agents (PU-ORCAs) for magnetic resonance imaging (Polym. Chem. DOI: 10.1039/C7PY00166E)*
6. *Leire Meabe, Nerea Lago, Laurent Rubatat, Chunmei Li, Alejandro J. Müller, Haritz Sardon, Michel Armand, David Mecerreyes Polycondensation as a Versatile Synthetic Route to Aliphatic Polycarbonates for Solid Polymer Electrolytes (Electrochimica Acta 237 (2017) 259–266)*
7. *Sofia M Morozova, Alexander S Shaplov, Elena I Lozinskaya¹, Petr S Vlasov, Haritz Sardon, David Mecerreyes, and Yakov S Vygodskii Poly(ionic liquid)-based polyurethanes having imidazolium, ammonium, morpholinium, or pyrrolidonium cations (accepted HPP)*
8. *Ana Sanchez-Sanchez^{a,‡} Ivan Rivilla^{b,‡} Maddalen Agirre^b, Andere Basterretxea^a, Agustin Etxeberria^d, Antonio Veloso^a, Haritz Sardon^{a,c,d}, David Mecerreyes^{a,c*} and Fernando P. Cossio^{b,e*} Enantioselective Ring-Opening Polymerization of rac-Lactide Dictated by Densely Substituted Aminoacids (J. Am. Chem. Soc., 2017, 139 (13), pp 4805–4814.)*
9. *Sofia Morozova, Alexander Shaplov, Elena Lozinskaya, David Mecerreyes, **Haritz Sardon**, Sonia Zulfiqar, Fabian Suárez-García, Yakov Vygodskii, Ionic polyurethanes as new family of poly(ionic liquid)s for efficient CO₂ capture (Macromolecules, 2017, 50 (7), pp 2814–2824)*

10. Julian M. W. Chan, Rudy J. Wojtecki, **Haritz Sardon**, Ashlynn L. Z. Lee, Cartney E. Smith, Artem Shkumatov, Shujun Gao, Hyunjoon Kong, Yi Yan Yang, James L. Hedrick Self-Assembled, Biodegradable Magnetic Resonance Imaging Agents: Organic Radical-Functionalized Diblock Copolymers *ACS Macro Lett.*, 2017, 6, pp 176–180
11. Amaury Bossion, Gavin O Jones, Daniel Taton, David Mecerreyes, James L Hedrick, Zhan Yuin Ong, Yi Yan Yang, and **Haritz Sardon** Non-Isocyanate Polyurethane Soft Nanoparticles Obtained by Surfactant-Assisted Interfacial Polymerization (*Langmuir*, 2017, 33 (8), pp 1959–1968)
12. Hamed Daemi, Mehdi Barikani, **Haritz Sardon** Transition-metal-free synthesis of supramolecular ionic alginate-based polyurethanes *Carbohydr. Polym.* 2017, 157, 1949–1954
13. Mehmet Isik, Mireia Agirre, Jon Zarate, Gustavo Puras, David Mecerreyes, **Haritz Sardon**, J. L. Pedraz Amine Containing Cationic Methacrylate Copolymers as Efficient Gene Delivery Vehicles to Retinal Epithelial Cells *J. Polym. Sci., Part A* 2017, 2, 280–287
14. Marta Ribeiro, Maria P. Ferraz, Fernando J. Monteiro, Maria H. Fernandes, Marisa M. Beppu, Daniele Mantione and **Haritz Sardon*** Antibacterial silk fibroin/nanohydroxyapatite hydrogels with silver and gold nanoparticles for bone regeneration *Nanomedicine: NBM* 2017, 1, 231–239

2016

15. Andere Basterretxea, Yuta Haga, Ana Sanchez-Sanchez, Mehmet Isik, Lourdes Irusta, Masaru Tanaka, Kazuki Fukushima and **Haritz Sardon*** Biocompatibility and hemocompatibility evaluation of polyether urethanes synthesized using DBU organocatalyst *Eur. Polym. J.* 2016, 84, 750–758
16. Mehmet Isik, Robert J. Ono, Jeremy P.K. Tan, David Mecerreyes, Yi Yan Yang, James L. Hedrick and **Haritz Sardon*** Tuning the antimicrobial properties of biodegradable polycarbonates by simple anion-exchange reactions (*Macro. Biosci.* 2016, 16, 1360–1367)
17. Jorge Fernandez Hernandez; Hegoi Amestoy; **Haritz Sardon**; Miren Aguirre; Jose-Ramon Sarasua Effect of the molecular weight on the mechanical properties an crystallization of poly(ethylene brassylate) homopolymers *J Mech. Behav. Biomed. Mater.* 2016, 64, 209–219
18. Jessica S. Desport, Daniele Mantione, Mónica Moreno, **Haritz Sardon**, María J. Barandiaran, David Mecerreyes, Synthesis of three different galactose-based methacrylate monomers for the production of sugar-based polymers *Carbohydrate research* 2016, 232, 50–54
19. Daniele Mantione, Isabel del Agua, Wandert Schaafsma, Javier Diez, Begona Castro, **Haritz Sardon**, David Mecerreyes Poly(3,4-ethylenedioxythiophene):GlycosAminGlycan (PEDOT:GAG) aqueous Dispersions: Towards Electrically Conductive Bioactive Materials for Neural Interfaces *Macro. Biosci* 2016, 16, 1227–1238
20. Ana Sanchez-Sanchez, Andere Basterrechea, Daniele Mantione, Agustin Etxeberria, Cristina Elizetxea, **Haritz Sardon**, David Mecerreyes Organo-mediated bulk polymerization of ϵ -Caprolactam and its Copolymerization with ϵ -Caprolactone using sulfonic acids *J. Polym. Sci., Part A* 2016, 54, 2394–2402
21. Julian Chan, Jeremy P. K. Tan, Amanda C. Engler, Xiyu Ke, Shujun Gao, Chuan Yang, **Haritz Sardon**, Yi Yan Yang and James L. Hedrick Organocatalytic Anticancer Drug Loading of Degradable Polymeric Mixed Micelles via a Biomimetic Mechanism *Macromolecules*, 2016, 49 (6), 2013–2021

22. Mehmet Isik, Fernando Ruiperez, **Haritz Sardon**, Alba Gonzalez, Sonia Zulfiqar, and David Mecerreyes, *Innovative Poly(ionic liquid)s by the Polymerization of Deep Eutectic Monomers Macro. Rapid Comm.*, 2016, 37, 1135–1142
23. Alexander Yuen, Fernando Ruipérez, Amaury Bossion, Mehmet Isik, James L. Hedrick, David Mecerreyes Yi Yan Yang, **Haritz Sardon*** Room temperature synthesis of isocyanate free poly(hydroxyurethanes) using highly reactive N-substituted 8-membered cyclic carbonates. *Polym. Chem.* 2016, 7, 2105-2111
24. A Hamed Daemi, Sareh Rajabi-Zeleti, **Haritz Sardon**, Mehdi Barikani, Ali Khademhosseini, and Hossein Baharvand A Robust Super-Tough Biodegradable Elastomer Engineered by Supramolecular Ionic Interactions. *Biomaterials* 2016, 84, 54-63.
25. Winnie Nzahou Ottou, **Haritz Sardon**, David Mecerreyes, Joan Vignolle, and Daniel Taton Update and challenges in organo-mediated polymerization reactions. *Prog. Polym. Sci.* 2016, 56, 64-115
26. Nerea Casado, Guiomar Hernandez, **Haritz Sardon***, David Mecerreyes Current Trends in Redox Polymers for Energy and Nanomedicine. *Prog. Polym. Sci.* 2016, 52, 107-135

2015

27. Shrinivas Venkataraman, Victor W. L. Ng, Daniel J. Coady, Hans W. Horn, Gavin O. Jones, Tak Shun Fung, **Haritz Sardon**, Robert W. Waymouth, James L. Hedrick and Yi Yan Yang A Simple and Facile Approach to Functional Eight-Membered Aliphatic Cyclic Carbonates and Their Organo-catalytic Polymerization. *J. Am. Chem. Soc.* 2015, 137, 13851-13860.
28. Mehmet Isik Thomas Lanjaret , Esmá Ismailova, Georges maliaras, **Haritz Sardon**, Rebeca Marcilla and David Mecerreyes Cholinium Based Ion Gels as Electrolytes for Long-Term Cutaneous Recordings. *J. Mater. Chem. C*, 2015, 3, 8942-8948
29. **Haritz Sardon***, Jeremy P. K. Tan, Daniele Mantione, Julian M. W. Chan, David Mecerreyes, James L. Hedrick, and Yi Yan Yang Thermoresponsive Random Poly(ether urethane) based Nanoparticles with Tailorable LCSTs for Anticancer Drug Delivery. *Macromol. Rapid Comm.* 2015, 36 (19), 1761-1767
30. **Haritz Sardon***, Ana Pascual, David Mecerreyes Daniel Taton, Henri Cramail, and James L. Hedrick Synthesis of Polyurethanes using Organocatalysis: A Perspective *Macromolecules* 2015, 48, 3153–3165 (Front Cover)
31. Ana Pascual, Jeremy P. K. Tan, Julian M. W. Chan, Daniel J. Coady, David Mecerreyes, James L. Hedrick, Yi Yan Yang, and **Haritz Sardon*** Broad-Spectrum Antimicrobial Polycarbonate Hydrogels with Fast Degradability *Biomacromolecules* 2015, 16 (4), 1169–1178.
32. Qingxing Xu, **Haritz Sardon**, Julain M.W. Chan, James L. Hedrick, Yi Yan Yang Polyurethane-coated silica particles with broad-spectrum antibacterial properties *Polym. Chem* 2015,6, 2011-2022
33. **Haritz Sardon**, Alba González, María José Fernández-Berridi, Lourdes Irusta. Oxygen Barrier Properties of Waterborne Polyurethane/Silica Hybrids *J. Macromol. Sci. B.* 2015, 54, 711-721
34. Julian M. W. Chan, Xiangyi Zhang, Megan K. Brennan, **Haritz Sardon**, Amanda C. Engler, Courtney H. Fox, Curtis W. Frank, Robert M. Waymouth, and James L. Hedrick Organocatalytic Ring-Opening Polymerization of Trimethylene Carbonate to Yield a Biodegradable Polycarbonate *J. Chem. Educ.*, 2015, 92 (4), 708–713

35. Ana Pascual, **Haritz Sardon**, Fernando Ruipérez, Raquel Gracia, Pallavi Sudam, Antonio Veloso, David Mecerreyes *Experimental and Computational Studies of Ring Opening Polymerization of Ethylene Brassylate Macrolactone and Copolymerization with ϵ -caprolactone and TBD-guanidine Organic Catalyst* *J. Polym. Sci., Part A: Polym. Chem.* 2015, 53 (4), 552-561

2014

36. Victor W. L. Ng, Julian M. W. Chan, **Haritz Sardon**, Robert J. Ono, Jeannette M. Garcia, James L. Hedrick and Yi Yan Yang *Antimicrobial hydrogels: a new weapon in the arsenal against multidrug-resistant infections* *Adv. Drug Delivery Rev.* 2014, 78, 46-62.
37. Mehmet Isik, **Haritz Sardon**, Miriam Saenz, David Mecerreyes. *New amphiphilic block copolymers from lactic acid and cholinium building units* *RSC Adv.* 2014, 4, 53407-53410
38. Ana Pascual, **Haritz Sardon**, Antonio Veloso, Fernando Ruiperez, David Mecerreyes, *Organocatalyzed Synthesis of Aliphatic Polyesters from Ethylene Brassylate: a Cheap and Renewable Macrolactone* *ACS Macro Lett.* 2014, 3 (9), 849-853.
39. Mehmet Isik, **Haritz Sardon**, David Mecerreyes *Ionic Liquids and Cellulose: Dissolution, Chemical Modification and Preparation of New Celulosic Materials* *Int.J. Mol. Sci.* 2014, 15, 11922-11940
40. Julian M. W. Chan, Xiyu Ke, **Haritz Sardon**, Amanda C. Engler, Yi Yan Yang, and James L. Hedrick. *Chemically Modifiable N-Heterocycle-functionalized Polycarbonates as a Platform for Diverse Smart Biomimetic Nanomaterials* *Chem. Sci.* 2014, 5, 3294-3300.
41. **Haritz Sardon**, Lourdes Irusta, Roberto H. Aguirresarobe, Maria Jose Fernández-Berridi *Polymer/silica nanohybrids by means of tetraethoxysilane sol-gel condensation onto waterborne polyurethane particles.* *Prog. Org. Coat.* 2014, 77, 1436-1442.
42. **Haritz Sardon***, Julian M.W, Chan, Robert Ono, David Mecerreyes James L. Hedrick, *Highly Tunable Polyurethanes: Organocatalyzed Polyaddition and Subsequent Post-polymerization Modification of Pentafluorophenyl Ester Sidechains.* *Polym. Chem.* 2014, 5, 3547-3550.
43. Daniel P. Sanders, Daniel J. Coady, Manabu Yasumoto, Masaki Fujiwara, **Haritz Sardon**, James L. Hedrick, *Synthesis of functionalized cyclic carbonate monomers using a versatile pentafluorophenyl carbonate intermediate.* *Polym. Chem.* 2014, 5(2), 327-329.

2013

44. **Haritz Sardon***, Amanda C. Engler, Julian M. W. Chan, Jeannette M. García, Daniel J. Coady, Ana Pascual, David Mecerreyes, Gavin O. Jones, Julia E. Rice, Hans W. Horn, and James L. Hedrick *Organic Acid-Catalyzed Polyurethane Formation via a Dual-Activated Mechanism: Unexpected Preference of N-Activation over O-Activation of Isocyanates.* *J. Am. Chem. Soc.* 2013, 135, 16235-16241
45. Julian M. W. Chan, **Haritz Sardon**, Amanda C. Engler, Jeannette M. O'Brien, James L. Hedrick. *Tetra-n-butylammonium Fluoride as an Efficient Transesterification Catalyst for the Functionalization of Cyclic Carbonates and Aliphatic Polycarbonates.* *ACS Macro Lett.*, 2013, 2 (10) 860-864.
46. Ana Pascual, **Haritz Sardon**, James L. Hedrick, David Mecerreyes *Organocatálisis: hacia una nueva generación de catalizadores para la síntesis de polímeros* *Anales de Química* 2013, 109(3), 173-181

47. **Haritz Sardon**, Lourdes Irusta, Alba Gonzalez, María José Fernández-Berridi. *Waterborne hybrid polyurethane coatings functionalized with (3-aminopropyl)triethoxysilane: Adhesion properties*. *Prog. Org. Coat.* 2013, 76, 1230–1235
48. **Haritz Sardon***, Amanda C. Engler, Julian M. W. Chan, Daniel J. Coady, Jeannette M. O'Brien, David Mecerreyes, Yi Yan Yang, James L. Hedrick *Homogeneous isocyanate- and catalyst-free synthesis of polyurethanes in aqueous media*. *Green Chem.*, 2013, 15, (5), 1121-1126
49. Daniel J. Coady, Hans W. Horn, Gavin O. Jones, **Haritz Sardon**, Amanda C. Engler, Robert M. Waymouth, Julia E. Rice, Yi Yan Yang, James L. Hedrick *Polymerizing Base Sensitive Cyclic Carbonates Using Acid Catalysis* *ACS Macro Lett.* 2013, 2(4), 306-312.
50. Amanda C. Engler, Julian M. W. Chan, Daniel J. Coady, Jeannette M. O'Brien, **Haritz Sardon**, Alshakim Nelson, Daniel P. Sanders, Yi Yan Yang, James L. Hedrick *Accessing New Materials through Polymerization and Modification of a Polycarbonate with a Pendant Activated Ester*. *Macromolecules* 2013, 46 (4), 1283-1290

2012-2006

51. **Haritz Sardon**, Lourdes Irusta, Pablo Santamaria, María Jose Fernandez-Berridi *Adhesion properties of self-curable waterborne hybrid polyurethanes: effect of soft segment nature and APTES content*. *J. Polym. Res.* 2012, 19(9), 1-9.
52. **Haritz Sardon**, Lourdes Irusta, María José Fernández-Berridi, Joseba Luna, Muriel Lansalot, Elodie Bourgeat-Lami. *Waterborne polyurethane dispersions obtained by the acetone process: A study of colloidal features*. *J. Appl. Polym. Sci.* 2011, 120, 2054-2062.
53. **Haritz Sardon**, Lourdes Irusta, María José Fernández-Berridi, Muriel Lansalot, Elodie Bourgeat-Lami. *Synthesis of room temperature self-curable waterborne hybrid polyurethanes functionalized with (3-aminopropyl)triethoxysilane (APTES)*. *Polymer* 2010, 51, 5051-5057.
54. Lorea Buruaga, **Haritz Sardon**, Lourdes Irusta, Alba González, María José Fernández-Berridi, Juan José Iruin. *Electrospinning of waterborne polyurethanes*. *J. Appl. Polym. Sci.* 2010, 115, 1176-1179.
55. **Haritz Sardon**, Lourdes Irusta, María José Fernández-Berridi. *Synthesis of isophorone diisocyanate (IPDI) based waterborne polyurethanes: Comparison between zirconium and tin catalysts in the polymerization process*. *Prog. Org. Coat.* 2009, 66, 291-295.
56. Rebeca Marcilla, Francisco Alcaide, **Haritz Sardon**, José A. Pomposo, Cristina Pozo-Gonzalo, David Mecerreyes. *Tailor-made polymer electrolytes based upon ionic liquids and their application in all-plastic electrochromic devices*. *Electrochemistry Comm.* 2006, 8, 482-488.

Patents

1. **Haritz Sardon**, Amanda C. Engler, Julian M. W. Chan, Daniel J. Coady, Yi Yan Yang, James L. Hedrick *Catalyst Free-Method of Forming Polyurethanes From Pentafluorophenyl Carbonates* (Submitted International Patent)

2. **Haritz Sardon**, Julian M.W. Chan, Amanda C. Engler, James L. Hedrick *Polycarbonates Bearing Aromatic N-Heterocycles for Drug Delivery (Submitted International Patent)*

Book Chapters

1. Mehmet Isik, **Haritz Sardon** and David Mecerreyes “*Ionic Liquids and Cellulose: Dissolution, Chemical Modification and Preparation of New Cellulosic Materials*” Handbook of Ionic Liquids & Polymers. Springer, Publication date 2015

Lectures:

Invited:

1. Haritz Sardon *Biomedical Applications of Polyurethanes: Old Polymers for "New Applications"* Plenary Lecture JIP-JEPO 2015, San Sebastian (Spain).
2. Haritz Sardon *Organocatalyzed Polymerization of Polyurethanes*. Invited Lecture 2014. Pau Univeristy (France)
3. Haritz Sardon *New challenges in polyurethane synthesis*. Polycondensation 2014 Tokyo (Japan)
4. Haritz Sardon *Biomdedical application of Polyurethanes*, Invited Lecture 2014 Yamagata University (Japan)
5. Haritz Sardon. *Polimero Biodegradagarriak*. UEU (Udako Euskal Unibertsitatea), 2009, Eibar (Spain)

Communications:

1. Sofia M. Morozova, Alexander S. Shaplov, Elena I. Lozinskaya, **Haritz Sardon**, David Mecerreyes, Yakov S. Vygodskii *New polymeric ionic liquids derived from polyurethanes and polyimides*. JIP-JEPO 2015, San Sebastian (Spain).
2. **Haritz Sardon**, Ana Pascual, Jeremy P.K. Tan, James L. Hedrick, Yi Yan Yang. *Broad-spectrum antimicrobial polycarbonate hydrogels for wound dressing applications*. 27Th European Conference of Biomaterials Krakow, Poland, 2015.
3. **Haritz Sardon**, Lourdes Irusta, María José Fernández-Berridi *Mechanical and thermal properties of room temperature self-curable waterborne polyurethanes* 8th International Symposium of Molecular Order and Mobility in Polymer Systems St. Petersburg, Russia, 2014
4. **Haritz Sardon**, Ana Pascual, James L. Hedrick *Antimikrobiar hidrogelak: antibiotikoekiko erresistentzia garatutako mikororganismoak erasotzeko tresna* 2th Materialen Zientzia Kongresua, Donostia, Spain 2014
5. Julian M.W. Chan, **Haritz Sardon**, Amanda C. Engler, James L. Hedrick *Organocatalytic methods and postpolymerization modification strategies for functional aliphatic polycarbonate synthesis*. 247th ACS, Dallas, USA, 2014
6. Amanda C. Engler, Julian M.W. Chan, Daniel J. Coady, Jeanette M. O'Brien, **Haritz Sardon**, James L. Hedrick *Synthesis and post-polymerization modification of a polycarbonate containing a pendant activated ester* 246th ACS, Indianapolis, USA 2013

7. **Haritz Sardon**, Julian M.W. Chan, Amanda C. Engler, Jeanette M. O'Brien, Daniel J. Coady, James L. Hedrick, David Mecerreyes *Aqueous-phase polyurethane synthesis from activated carbonates under isocyanate- and catalyst-free conditions*. 246th ACS Indianapolis, USA 2013
8. Daniel J. Coady, **Haritz Sardon**, Yi Yan Yang, James L. Hedrick *Biodegradable water soluble polymers as an alternative to PEG*. 245th ACS New Orleans, USA, 2013
9. **Haritz Sardon**, Lourdes Irusta, María José Fernández-Berridi. *Poliuretanos híbridos en base acuosa: propiedades térmicas y mecánicas del material reticulado*. V JIP, Gerona, Spain 2010
10. **Haritz Sardon**, Joseba Luna, Lourdes Irusta, María José Fernández-Berridi. *Estudio del Proceso Sol-Gel en Sistemas Híbridos Basados en Poliuretano/SiO₂*. XI GEP, Valladolid Spain, 2009
11. **Haritz Sardon**, Elodie Bourgeat Lami, Muriel Lanelot, María José Fernández-Berridi, Lourdes Irusta. *Síntesis de poliuretanos híbridos en base agua*. IV JIP Castellon, Spain 2008

Posters:

1. Ana Sanchez-sanchez, **Haritz Sardon**, David Mecerreyes *Synthesis of Functional Polyurethanes using Organocatalysis*. International Symposium on Ionic Polymerization, 2015, Bordeaux France
2. Harry S. Rapoport, **Haritz Sardon**, Angel Herrero-Mendez, María H. Granado, B. Castro. 24th Conference of Biomaterials, Dublin, Ireland 2011
3. María José Fernández-Berridi, Lourdes Irusta, **Haritz Sardon**. *Synthesis and Characterization of Waterborne Polyurethane (WPU) Silica Nanostructures Through "In-Situ" Sol-Gel Process*. Silicon Containing Polymer Composites, California, USA, 2010
4. Lorea Buruaga, **Haritz Sardon**, Alba González, Lourdes Irusta, Juan José Iruin. *Electrospinning of Waterborne Polyurethanes*. 1th Frontiers in Polymer Science, Mainz, Germany 2009
5. **Haritz Sardon**, Elodie Bourgeat Lami, Muriel Lanelot, María José Fernández-Berridi, Lourdes Irusta *Synthesis of covalently bonded polyurethane/silica nanoparticles in aqueous media*. 1th Hybrid Materials, Tours, France, 2009
6. **Haritz Sardon**, Elodie Bourgeat Lami, Muriel Lanelot, María José Fernández-Berridi, Lourdes Irusta. *Stability of triethoxysilane terminated waterborne polyurethane nanoparticles*. 1th Nanospain Braga, Portugal 2008
7. **Haritz Sardon**, Katherine Williams, Lourdes Irusta, María José Fernández-Berridi. *Influencia de la naturaleza del catalizador en la síntesis de poliuretanos en base agua*. X GEP, Sevilla, Spain 2007