José A. Pomposo

UPV/EHU - IKERBASQUE

Research Professor

Materials Physics Center (Joint Center CSIC – UPV/EHU)

Paseo Manuel de Lardizabal 5

Donostia-San Sebastián 20.018 (Spain)

josetxo.pomposo@ehu.eus

ORCID ID: orcid.org/0000-0003-4620-807X

Researcher ID: G-9050-2012

Scopus Author ID: 6604071770

Positions

2010-Present	**Materials Physics Center**
	UPV/EHU - IKERBASQUE Research Professor
	http://www.ikerbasque.net/es/jos-pomposo
	Polymers & Soft Matter Group:
	http://www.sc.ehu.es/sqwpolim/PSMG
2009-2010	**Donostia International Physics Center**
	Scientist, temporary contract
1997-2008	**Centre for Electrochemical Technologies Cidetec**
	Head of the New Materials Department
1995-1996	**Saiolan Co.**
	Project Leader

Education

1994	**Ph.D., University of the Basque Country**
	Polymer Science & Technology
	Advisors: M. Cortazar, E. Calahorra
1988	**B. Sc. Chemistry, University of the Basque Country**

Awards and Affiliations

- WORLD´S TOP 2% SCIENTISTS (Category: POLYMERS) according to the 'RANKING OF THE WORLD SCIENTISTS' by Stanford University (California, USA) 2021.
- Assistant in the Technology Transfer Area (topic: Materials) for the National Evaluation and Foresight Agency (ANEP), from 2015 to 2018.
- Member of the RAFT ALLIANCE, 2009.
- TIERNET 2005 Award for the Development of the Innovative Electroactive Distributed Pressure Sensor Technology - patent WO 2007006833 / US 2008135310
- Contributor to the "Smart Displays in Intelligent Environment -White Paper" edited by the German Flat Display Forum (GFF) in 2004.
- Contributor to the "Nanotechnology - White Paper" edited by 3i, the Economist Intelligence Unit and the Institute of Nanotechnology (UK) in 2002
- Professional Member of the Institute of Nanotechnology (UK), 2002-9.
- Best Conference ASEFAPI Award during the EUROCOAT Congress (1998)
- Extraordinary Doctorate Award (1995) & Gonzalo Martín Guzmán PhD-Mention Award (1996)
- Member of RSEQ (www.rseq.org)
- Member of the Editorial Board of "*Designed Monomers and Polymers*" since 2012
- Member of the Editorial Board of "*Polymers*" since 2019
- Reviewer for papers of several Nanotechnology, Polymers & Materials Science Publications
- Proposals Evaluator for European Commission calls and other international agencies.

Citation report from Web of Science – Core Collection

- **Peer-Reviewed Papers:** 172
- **h-Index:** 46
- **Total Number of Citations:** 5869
- **Average Citations per Paper:** 34.1

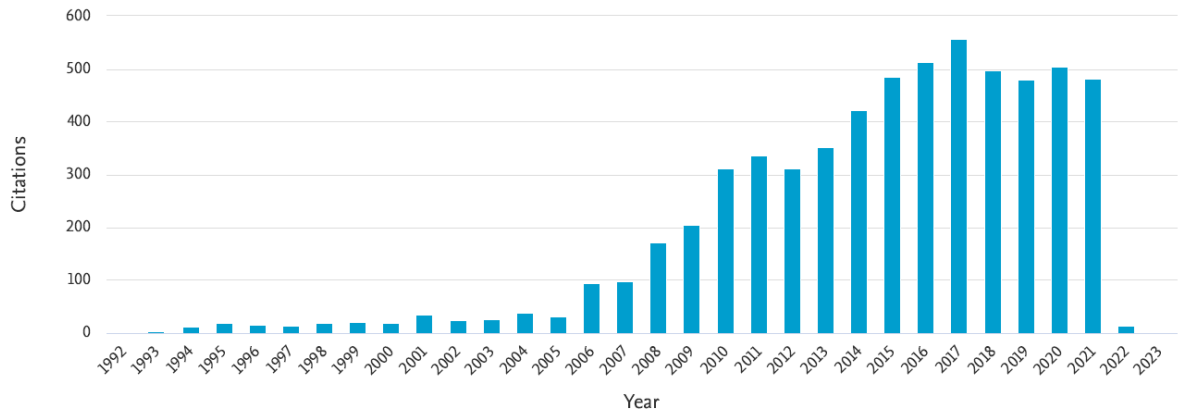
Citation report from Scopus

Citations	h-index	Publications
6094	46	174

Citation report from Google Scholar

	All	Since 2017
Citations	7622	3154
h-Index	52	31
i10-Index*	127	91

**i10-Index = the number of publications with at least 10 citations*



International Research Experience

- **VTT Microelectronics Centre** & **Helsinki Univ. of Technology (HUT). Espoo (Finland).**
- **European Project NANOEFFECTS – Nanocomposites with High Colouration Efficiency for Electrochromic Smart Plastic Devices** (Strep Project Contract no: 505664).
- **Collaboration Agreement** with **Prof. Boris Trofimov (Russian Academy of Sciences)**.
- **European Project MULTIPOL - Multifunctional Polymer Materials and Systems with Tailored Mechanical, Electrical and Optical Properties** (Strep Project Contract no: 033201).
- **European Project BASE - Bio-based functional materials form engineered self-assembing peptides** (Strep Project Contract no: 516961).
- **European Project NAPA – Emerging Nanopatterning Methods** (Integrated Project Contract no: 500120).
- **Several other short stays, Ph.D student exchanges and on-going collaborations**

International Patents from Espacenet

1- **WO2011012754 (A2) / ES2358657 (A1)** - Electrochemical sensor for the detection of analytes in liquid media

2- **WO2010109023 (A1)** - Temperature-time indicator system based on irreversible colour changes, and corresponding method

3- **WO2009150274 (A1) / EP2317368 (A1) / US2011164215 (A1) / ES2334960 (A1) -** Device for assisting and protecting vision

4- **WO2009153361 (A1) / EP2302104 (A4) / US2011266158 (A1)** - Method for electrochemically covering an insulating substrate

5- **WO2009095507 (A4) / EP2239626 (A4) / US2011003070 (A1) / ES2324807 (B1)** - Electrochromic compositions containing viologens, which can be formulated and used at ambient temperature

6- **EP1912051 (A2)/ WO2007006833 (A3)/ US2008135310 (A2) / JP2009501326 (A) / ES2264900 (B1) / ES2302436 (B1)** - Polythiophene-based large surface distributed pressure sensors

7- **WO 2007012605 (A3) / EP1910533 (A2) / BRPI0613922 (A2) / MA29697 (B1) / US2009130735 (A1) / MX2008001177 (A) / MD20080029 (A)/ JP2009502464 (A) / CN101233230 (A) / CA2616087 (A1) / AU2006274077 (A1)** / **NO20080908 (A)** - Static support bed for purification, separation, detection, modification and/or immobilization of target entities and method using thereof

8- **WO2005015301 (A1) / ES2223289 (B1)** - Electrochromic device based on conducting polymers, production method thereof and product thus obtained

9- **WO2005037889 (A1)/ AU2003274149 (A1)** - Highly-conductive polypyrrole compounds and preparation method thereof

Peer-Reviewed Journal Publications from Web of Science – Core Collection

1- **J. A. Pomposo**, A. Etxeberria, M. Cortázar. *Group Contribution Method for Predicting Polymer-Polymer Miscibility: Binary Blends of Poly (p-Vinyl phenol) and Ester-Containing Polymers.* Macromolecules 25, 6909-6914 (1992)

2- **J. A. Pomposo**, I. Eguiazabal, E. Calahorra, M. Cortázar. *Glass Transition Behaviour and Interactions in Poly (p-Vinyl phenol)/Polymethacrylate Blends.* Polymer 34, 95-102 (1993)

3- **J. A. Pomposo**, E. Calahorra, I. Eguiazabal, M. Cortázar. *Miscibility Behavior of Ternary Poly(methyl methacrylate)/Poly (ethymethacrylate) / Poly (p-vinyl phenol) Blends.* Macromolecules 26, 2104-2110 (1993)

4- P. Pedrosa, **J. A. Pomposo**, E. Calahorra, M. Cortázar. *On The Glass Transition Behavior, Interaction Energies, and Hydrogen-Bonding Strengths of Binary Poly(p-vinyl phenol)/Polyether Blends.* Macromolecules 27, 102-109 (1994)

5- **J. A. Pomposo**, M. Cortázar, E. Calahorra. *Hydrogen Bonding in Polymer Systems Involving Poly(p-vinyl phenol): 1. Binary Blends with Poly(ethyl methacrylate-co-methyl methacrylate).* Macromolecules 27, 245-251(1994)

6- **J. A. Pomposo**, M. Cortázar, E. Calahorra. *Hydrogen Bonding in Polymer Systems Involving Poly (p-vinyl phenol): 2. Ternary Blends with Poly(ethyl methacrylate) and Poly(methyl methacrylate).* Macromolecules 27, 252-259 (1994)

7- P. Pedrosa, **J. A. Pomposo**, E. Calahorra, M. Cortázar. *Crystallization of Poly(ethylene oxide) in Binary Blends Containing Poly(p-vinyl phenol).* Polymer 36, 3889-3897 (1995)

8- **J. A. Pomposo**, R. de Juana, A. Múgica, M. Cortázar, M. A. Gómez. *Binary Poly(ethylene oxide)/ Poly(methyl methacrylate-co-ethyl methacrylate): Miscibility Predictions from Model Compound Mixtures vs Experimental Phase Behavior.* Macromolecules 29, 7038-7046 (1996)

9- **J. A. Pomposo**, A. Múgica, J. Aréizaga, M. Cortázar. *Modeling of the Phase Behavior of Binary and Ternary Blends Involving Copolymers of Styrene, Methyl Methacrylate and Cyclohexyl Methacrylate.* Acta Polymerica 49, 301-311 (1998)

10- **J. A. Pomposo**, J. Rodriguez, H. Grande. *Polypyrrole-Based Conducting Hot Melt Adhesives for EMI Shielding Applications.* Synthetic Metals 104, 107-111 (1999)

11- A. Múgica, M. Barral, **J. A. Pomposo**, M. Cortázar. *Effect of Monomer Architecture on Segmental Interaction Parameters of Binary Blends Involving Copolymers of Cyclohexyl Methacrylate, Methyl Methacrylate and Styrene Derivatives.* Acta Polymerica 50, 304-311 (1999)

12- D. Mecerreyes, **J. A. Pomposo**, M. Bengoetxea, H. Grande, C. Nguyen. *Synthesis of Polypyrrole-g-Polycaprolactone Copolymers: New Conductive Nanocomposites.* Abstracts of the American Chemical Society 219, 82-POLY (2000)

13- D. Mecerreyes, **J. A. Pomposo**, M. Bengoetxea, H. Grande. *Novel Pyrrole End-Functional Macromonomers Prepared by Ring Opening Atom Transfer Radical Polymerization.* Macromolecules 33, 5846-5849 (2000)

14- P. A. Calvo, J. Rodríguez, H. Grande D. Mecerreyes, **J. A. Pomposo**. *Chemical Oxidative Polymerizaton of Ppyrrole in the Presence of m-HBA and m-HCA-related compounds.* Synthetic Metals 126, 111-116 (2002)

15- D. Mecerreyes, R. Stevens, C. Nguyen, **J. A. Pomposo**, M. Bengoetxea, H. Grande. *Synthesis and Characterization of Polypyrrole-g-Polycaprolactone Copolymers: New Ellectrically Conductive Nanocomposites.* Synthetic Metals 126, 173-178 (2002)

16- D. Mecerreyes, V. Alvaro, I. Cantero, M. Bengoetxea, P. A. Calvo, J. Rodríguez, H. Grande, **J. A. Pomposo**. *Low Surface Energy Conducting Polypyrrole Doped with a Fluorinated Counterion.* Advanced Materials 14, 749-752 (2002)

17- I. Gonzalez, M. E. Muñoz, A. Santamaría, **J. A. Pomposo**, H. Grande, J. Rodríguez. *Highly Conducting Polyaniline Gels.* Macromolecular Rapid Communications 23, 659-663 (2002)

18- M. Vecino, I. Gonzalez, M. E. Muñoz, A. Santamaría, **J. A. Pomposo**. *Syneresis and Fibrillation of Conducting Polyaniline Gels.* Polymer 44, 5057-5059 (2003)

19- R. Marcilla, J. A. Blazquez, J. Rodríguez, **J. A. Pomposo**, D. Mecerreyes. *Tuning the Solubility of Polymerized Ionic Liquids by Simple Anion-Exchange Reactions.* J. Polym. Sci., A Polym. Chem. 42, 208-212 (2004)

20- N. Murillo, E. Ochoteco, Y. Alesanco, **J. A. Pomposo**, J. Rodríguez, J. Gonzalez, J. J. del Val, J. M. Gonzalez, F. M. Varela-Feria, A. R. de Arellano-Lopez. *CoFe2O4-Polypyrrole (PPy) Nanocomposites: New multifunctional materials.* Nanotechnology 15, S322-S327 (2004)

21- E. Serrano, M. Larrañaga, P. M. Remiro, I. Mondragón, P. M. Carrasco, **J. A. Pomposo**, D. Mecerreyes. *Synthesis and Characterization of Epoxidized Styrene-Butadiene Block Copolymers as Templates for Nanostructured Thermosets.* Macromol. Chem. & Phys. 205, 987-996 (2004)

22- I. Gonzalez, M. Vecino, M. E. Muñoz, A. Santamaría, **J. A. Pomposo**. *Electrically Conducting Gels Formed from Polyaniline /Ethyl-Cellulose/m-Cresol Ternary Solutions.* Macromol. Chem. & Phys. 205, 1379-1384 (2004)

23- D. Mecerreyes, R. Marcilla, E. Ochoteco, H. Grande, **J. A. Pomposo**, R. Vergaz, J. M. S. Pena. *A Simplified All-Polymer Flexible Electrochromic Device.* Electrochim. Acta 49, 3555-3559 (2004)

24- M. Vecino, I. Gonzalez, M. E. Muñoz, A. Santamaría, E. Ochoteco, **J. A. Pomposo**. *Synthesis of Polyaniline and Application in the Design of Formulations of Conductive Paints.* Polym. Adv. Tech. 15, 560-563 (2004)

25- R. Vergaz, J. M. S. Pena, A. B. Gonzalo, J. M. Ollero, C. Vazquez, **J. A. Pomposo**, H. Grande, D. Mecerreyes. *Characterization Of Novel All-Plastic Electrochromic Devices: Electro-Optic And Voltammetric Response.* Optical Engineering 43, 2967- 2975 (2004)

26- Vergaz, R; Barrios, D; Sanchez-Pena, JM; Vazquez, C; Pozo-Gonzalo, C; Mecerreyes, D; **Pomposo, J. A.** *Variable Optical Attenuator made by using new electrochromic devices.* Proceedings of the society of photo-optical instrumentation engineers (SPIE) 5840 (1-2), 389-396 (2005)

27- Ochoteco, E; **Pomposo, J. A.**; Grande, H; Rodriguez, J. *A self-supported polypyrrole artificial muscle: design optimization.* SMART SENSORS, ACTUATORS, AND MEMS II (SPIE) 5836*,* 649-656 (2005)

28- Marcilla R, Blazquez JA, Fernandez R, Grande H, **Pomposo JA**, Mecerreyes D. *Synthesis of novel polycations using the chemistry of ionic liquids.* Macromol. Chem. Phys. 206, 299-304 (2005)

29- Serrano E, Martin AD, Tercjak A, **Pomposo JA**, Mecerreyes D, Mondragon I. *Nanostructured thermosetting systems from epoxidized styrene butadiene block copolymers.* Macromol. Rapid Comm. 26, 982-985 (2005)

30- R. Marcilla, E. Ochoteco, C. Pozo, H. Grande, **J. A. Pomposo**, D. Mecerreyes. *New Organic Dispersions based on Intrinsically Conducting Polymers using Polymeric Ionic Liquids as Steric Stabilizers.* Macromol. Rapid Comm. 26, 1122-1126 (2005)

31- Vasil'tsov AM, Schmidt EY, Mikhaleva AI, Zorina NV, Zaitsev AB, Petrova OV, Krivdin LB, Petrushenko KB, Ushakov IA, Pozo-Gonzalo C, **Pomposo JA**, Grande HJ. *Synthesis and electrochemical characterization of dipyrroles separated by diphenyleneoxide and diphenylenesulfide spacers via the Trofimov reaction.* Tetrahedron 61, 7756- 7762 (2005)

32- J A. Múgica, **J. A. Pomposo**, E. Calahorra, M. Cortázar. *Binary Poly(Cyclohexyl Methacrylate) / Poly(Styrene-co-Vinyl Phenol) blends: Comparisons of Phase Behaviour Predictions Using a Single and a Double Interassociation Model.* Polymer 46, 10741-10749 (2005)

33- E. Ochoteco, **J. A. Pomposo**, H. Grande, F. Martinez, G. Obieta, J. Lezama, J. M. Iriondo. *Distributed Pressure Sensor based on Electroactive Materials for Automotive Application.* Advanced Microsystems for Automotive Applications, 249-260 (2006)

34- **J. A. Pomposo**, E. Ochoteco, C. Pozo, P. Carrasco, H. Grande, J. Rodríguez. *Conductivity Enhancement in Raw Polypyrrole and Nanoparticle Polypyrrole Dispersions.* Polym. Adv. Tech. 17, 26-29 (2006)

35- R. Marcilla, F. Alcaide, H. Sardon, **J. A. Pomposo**, C. Pozo-Gonzalo, D. Mecerreyes. *Tailor-Made Polymer Electrolytes based upon Ionic Liquids and their Application in All-Plastic Electrochromic Devices.* Electrochem. Común. 8, 482-488 (2006)

36- Pedro M. Carrasco, Hans J. Grande, Milagros Cortazar, Juan M. Alberdi, Javier Areizaga, **Jose A.** Pomposo. *Structure – Conductivity Relationships in Chemical Polypyrroles of Low, Medium and High Conductivity.* Synth. Metals 156, 420-425 (2006)

37- El. Serrano, A. Tercjak, G. Kortaberria, **J. A. Pomposo**, D. Mecerreyes, N. E. Zafeiropoulos, M. Stamm, I. Mondragon *Nanostructured Thermosetting Systems by Modification with Epoxidized Styrene-Butadiene Block Copolymers. Effect of Epoxidation degree.* Macromolecules 39, 2254-2261 (2006)

38- R. Marcilla, L. Curri, I. Loinaz , H. Grande, **J. A. Pomposo**, D. Mecerreyes. *Nano-objects on a round trip from water to organics in a polymeric ionic liquid vehicle.* Small 2, 507-512 (2006)

39- R. Marcilla, C. Pozo-Gonzalo, J. Rodriguez, J. A. Alduncín, **J. A. Pomposo**, D. Mecerreyes. *Use of Polymeric Ionic Liquids as Stabilizers in the Synthesis of Polypyrrole Organic Dispersions.* Synth. Met. 156, 1133-1138(2006)

40- M. Bengoechea, I. Boyano, O. Miguel, I. Cantero, E. Ochoteco, **J. A. Pomposo**, H. Grande. *Chemical Reduction Method for Industrial Application of Undoped Polypyrrole Electrodes in Lithium-Ion Batteries.* J. Power Sources 160, 585-591 (2006)

41- V. Rumbau, R. Marcilla, E. Ochoteco, **J. A. Pomposo**, D. Mecerreyes. *Ionic Liquid Immobilized Enzyme for Biocatalytic Synthesis of Conducting Polyaniline.* Macromolecules 39, 8547-8549 (2006)

42- Ricardo Vergaz, David Barrios, José M. Sánchez-Pena, Cristina Pozo-Gonzalo, **José A. Pomposo**. *Electrical characterization of new electrochromic devices.* Proceedings of 2007 Spanish Conference on Electron. Devices 150-153 (2007)

43- Odriozola, Ibon; Loinaz, Iraida; **Pomposo, Jose A.**; Grande, Hans J. *Gold-glutathione supramolecular hydrogels.* Journal of Materials Chemistry 17, 4843-4845 (2007)

44- Estibalitz Ochoteco, **Jose A. Pomposo**, Hans Grande, Javier Rodriguez. *Assembled cation-exchange/anion-exchange Polypyrrole Layers as New Simplified Artificial Muscles.* Polym. Adv. Tech. 18, 64-66 (2007)

45- Ochoteco, Estibalitz; **Pomposo, Jose A.**; Macicior, Haritz; Arregui, Miguel A.; Martinez, Fernando; Obieta, Gregorio; Grande, Han. *Design of all-plastic distributed pressure sensors based on electroactive materials.* Proc. SPIE 6589, R5890 (2007)

46- Pedro M. Carrasco, Milagros Cortazar, Estibalitz Ochoteco, Elena Calahorra, **Jose A. Pomposo**. *Comparison of Surface and Bulk Doping Degrees in Chemical Polypyrroles of Low, Medium and High Conductivity.* Surf. Interface Anal. 39, 26-32 (2006)

47- C. Pozo-Gonzalo, **J. A. Pomposo**, J. Rodríguez, E. Y. Schmidt, A. M. Vasil'tsov, N. V. Zorina, A. V. Ivanov, B. A. Trofimov, A. I. Mikhaleva, A. B. Zaitsev. *Synthesis and electrochemical study of narrow band gap conducting polymers based on 2,2'-dipyrroles linked with conjugated aza-spacers.* Synth. Metals 157, 60-65 (2007)

48- Valérie Rumbau, **Jose A. Pomposo**, Juan A. Alduncin, Javier Rodriguez, Hans Grande, David Mecerreyes, Estibalitz Ochoteco. *First Enzymatic Synthesis of Water Soluble Conducting Poly(3,4-ethylenedioxy-thiophene).* Biomacromolecules 8, 315-317 (2007)

49- V. Rumbau, R. Marcilla, E. Ochoteco, **J. A. Pomposo**, D. Mecerreyes. *Ionic liquid immobilized enzyme for biocatalytic synthesis of conducting polyaniline. (vol 39, pg 8547, 2006)* Macromolecules 40, 770 (2007)

50- Cristina Pozo-Gonzalo, **José A. Pomposo**, Juan A. Alduncin, Maitane Salsamendi, Al'bina I. Mikhaleva, Leonid B. Krivdin, Boris A. Trofimov. *Orange to black electrochromic behaviour in poly(2-(2-thienyl)-1h-pyrrole) thin films.* Electrochim. Acta 52, 4784-4791 (2007)

51- Valerie Rumbau, **Jose A. Pomposo**, Juan.A. Alduncin, Hans Grande, David Mecerreyes. *A New Bifunctional Template for the Enzymatic Synthesis of Conducting Polyaniline.* Enzyme and Microbial Technology 40, 1412-1421 (2007)

52- Dobbelin, M; Marcilla, R; Salsamendi, M; Pozo-Gonzalo, C; Carrasco, PM; **Pomposo, JA**; Mecerreyes, D. *Influence of ionic liquids on the electrical conductivity and morphology of PEDOT : PSS films.* Chemistry of Materials 19, 2147-2149 (2007)

53- Tamborra, M; Striccoli, M; Curri, ML; Alducin, JA; Mecerreyes, D; **Pomposo, JA**; Kehagias, N; Reboud, V; Torres, CMS; Agostiano, A. *Nanocrystal-based luminescent composites for nanoimprinting lithography.* Small 3, 822-828 (2007)

54- A Genua, JA Alduncín, **JA Pomposo**, H Grande, N Kehagias, V Reboud, C Sotomayor, I Mondragon, D Mecerreyes. *Functional Patterns Obtained by Nanoimprinting Lithography and Subsequent Growth of Polymer Brushes.* Nanotechnology 18, Art. No. 215301 (2007)

55- Marcilla, Rebeca; Mecerreyes, David; Odriozola, Ibon; **Pomposo, Jose A.**; Rodriguez, Javier; Zalakain, Inaki; Mondragon, Inaki. *New Amine Functional Ionic Liquid as Building Block in Nanotechnology.* NANO 2, 169-173 (2007)

56- R. Pacios, R. Marcilla, C. Pozo-Gonzalo, **J. A. Pomposo**, H. Grande, J. Aizpurua, D. Mecerreyes. *Combined Electrochromic and Plasmonic Optical Responses in Conducting Polymer/Metal Nanoparticle Films.* J. Nanosci. & Nanotech. 7, 2938-2941 (2007)

57- Dobbelin, Markus, Marcilla, Rebeca, Tollan, Christopher, **Pomposo, Jose A.**, Sarasua, Jose-Ramon, Mecerreyes, David. *A new approach to hydrophobic and water-resistant poly(3,4-ethylenedioxythiophene): poly(styrenesulfonate) films using ionic liquids.* Journal of Materials Chemistry 18, 5354-5358 (2008)

58- Ibon Odriozola, Nerea Ormategui, Iraida Loinaz, **José A. Pomposo**, Hans J. Grande. *Coinage metal-glutathione thiolates as a new class of supramolecular hydrogelators.* Macromol. Symp. 266, 96-100 (2008)

59- Kehagias, N, Hu, W, Reboud, V, Lu, N, Dong, B, Chi, L, Fuchs, H, Genua, A, Alduncin, JA, **Pomposo JA**, Mecerreyes, D, Torres, C. M. Sotomayor. *Nanoimprint lithography and surface modification as prospective technologies for heterogeneous integration.* Physica Status Solidi C - Current topics in solid state physics 5, 3571-3575 (2008)

60- **José A. Pomposo**, Alaitz Ruiz, Hans Grande, and Agustín Etxeberria. *Key Role of Entropy in Nanoparticle Dispersion.* Physical Chemistry Chemical Physics 10, 650-651 (2008)

61- C. Pozo-Gonzalo, D. Mecerreyes, **JA Pomposo**, M. Salsamendi, R. Marcilla, H. Grande, R. Vergaz, D. Barrios, J. Sánchez-Pena. *All-plastic electrochromic devices based on PEDOT as switchable optical attenuator in the near IR.* Solar Energy Materials & Solar Cells 92, 101-106 (2008)

62- Ricardo Vergaz, David Barrios, J.M.S. Pena, Carlos Marcos, Cristina Pozo, **Jose A. Pomposo**. *Electro-optical Analysis of PEDOT Symmetrical Electrochromic Devices.* Solar Energy Materials & Solar Cells 92, 107-111 (2008)

63- Pozo-Gonzalo, C.; Marcilla, R.; Salsamendi, M.; Mecerreyes, D.; **Jose A. Pomposo**; Rodriguez, J.; Bolink, H. J. *PEDOT: Poly(1-vinyl-3-ethylirnidazolium) dispersions as alternative materials for optoelectronic devices.* Journal of Polymer Science, Part A-Polymer Chemistry 46, 3150-3154 (2008)

64- Salsamendi, M.; Marcilla, R.; Dobbelin, M.; Mecerreyes, D.; Pozo-Gonzalo, C.; **Pomposo, J. A.**; Pacios, R. *Simultaneous synthesis of gold nanoparticles and conducting poly(3,4-ethylenedioxy-thiophene): towards optoelectronic nanocomposites.* Physica Status Solidi A-Applications and Materials Science 205, 1451-1454 (2008)

65- Alaitz Ruiz de Luzuriaga, Nerea Ormategui, Hans J. Grande, **José A. Pomposo**, Iraida Loinaz. *Intramolecular Click Cycloaddition: An Efficient Room Temperature Route Towards Bioconjugable Polymeric Nanoparticles*. Macromol. Rapid Commun. 29, 1156-1160 (2008)

66- Ruiz de Luzuriaga, A; Etxeberria A; Rodriguez J; **Pomposo JA**. *Phase diagram and entropic interaction parameter of athermal all-polymer nanocomposites.* Polymers for Advanced Technologies 19, 756-761 (2008)

67- Ruiz de Luzuriaga A, Grande H, **Pomposo JA**. *A Theoretical Investigation of Polymer-Nanoparticles as Miscibility Improvers in All-Polymer Nanocomposites.* Journal of Nano Research 2, 105-114 (2008)

68- Ochoteco, E.; **Pomposo, J. A.**; Sikora, T.; Vidal, F.; Martinez, F.; Obieta, G.; Grande, H. *All-plastic distributed pressure sensors: taylor-made performance by electroactive materials design.* Microsystem Technologies-Micro-and Nanosystems-Information Storage and Processing Systems 14, 1089-1097 (2008)

69- Kari Vijayakrishna, Suresh K. Jewrajka, Alaitz Ruiz, Rebeca Marcilla, **Jose A. Pomposo**, David Mecerreyes, Daniel Taton, Yves Gnanou. *Synthesis by RAFT and Ionic Responsiveness of Double Hydrophilic Block Copolymers Based on Ionic Liquid Monomer Units.* Macromolecules 41, 6299-6308 (2008)

70- Ricardo Vergaz, David Barrios, José M. Sánchez-Pena, Cristina Pozo-Gonzalo, Maitane Salsamendi, **José A. Pomposo**. *Impedance Analysis and Equivalent Circuit of an All-plastic Viologen Based Electrochromic Device.* Displays 29, 401-407 (2008)

71- Pozo-Gonzalo, Cristina; Salsamendi, Maitane; **Pomposo, Jose A.**; Grande, Hans; Schmidt, Elena; Rusakov, Yu; Trofimov, Boris. *Influence of the introduction of short alkyl chains in Poly(2-(2-thienyl)-1H-Pyrrole) on its electrochromic behavior.* Macromolecules 41, 6886-6894 (2008)

72- Carrasco, Pedro-Maria, Pozo-Gonzalo, Cristina, Grande, Hans**, Pomposo, Jose A.**, Cortazar, Milagros, Deborde, Valerie, Hissler, Muriel, Reau, Regis. *Synthesis and Spectroelectrochemical Characterization of an Electrochromic Phosphole-EDOT Copolymer: poly([1-phenyl-2,5-bis(2-thienyl)thioxophosphole](0.14) -co- [3,4-ethylendioxythiophene] (0.86))* Polymer Bulletin 61, 713-724 (2008)

73- Trofimov BA, Schmidt EY, Mikhaleva AI, Pozo-Gonzalo C, **Pomposo JA**, Salsamendi M, Protzuk NI, Zorina NV, Afonin AV, Vashchenko AV, Levanova EP, Levkovskaya GG. *Synthesis of 2-(Selenophen-2-yl)pyrroles and Their Electropolymerization to Electrochromic Nanofilms.* Chemistry-A European Journal 15, 6435-6445 (2009)

74- Sarah Montes, Hans Grande, Agustín Etxeberria, **Jose A. Pomposo**. *Miscibility Enhancement in All-Polymer Nanocomposites Composed of Weakly-Charged Flexible Chains and Polar Nanoparticles.* Journal of Nano Research 6, 123-132 (2009)

75- H. Y. Fan, Y. F. Lu, G. Ramanath, **J. A. Pomposo**. *Emerging Multifunctional Nanostructures.* Journal of Nanomaterials Article ID 281721 (2009)

76- Sikora T Marcilla R, Mecerreyes D, Rodriguez J, **Pomposo JA**, Ochoteco E. *Enzymatic Synthesis of Water-Soluble Conducting Poly(3,4-ethylenedioxythiophene): A Simple Enzyme Immobilization Strategy for Recycling and Reusing.* J. Polym. Sci., A-Polym. Chem. 47, 306-309 (2009)

77- Casuso P, Loinaz I, Moller M, Carrasco P, **Pomposo JA**, Grande HJ, Odriozola I, *A thermoreversible supramolecular hydrogel inspired by poly(N,N-dimethylacrylamide)*. Supramolecular Chemistry 21, 581-584 (2009)

78- Tollan, CM, Marcilla R, **Pomposo JA**, Rodriguez J, Aizpurua J, Molina J, Mecerreyes D. *Irreversible Thermochromic Behavior in Gold and Silver Nanorod/Polymeric Ionic Liquid Nanocomposite Films*. ACS Applied Materials & Interfaces 1, 348-352 (2009)

79- Ruiz de Luzuriaga, A; Grande, HJ; **Pomposo JA**. *Phase diagrams in compressible weakly interacting all-polymer nanocomposites.* J. Chem. Phys. 130, 084905 (2009)

80- Ruiz de Luzuriaga A, **Pomposo JA**, Grande H, Etxeberria A. *Kinetics of Core-Shell Nanoparticle Formation by Two-Dimensional Nuclear Magnetic Resonance.* Macromolecular Rapid Communications 30, 932-935 (2009)

81- Dobbelin M, Pozo-Gonzalo C, Marcilla R, Blanco R, Segura JL, **Pomposo JA**, Mecerreyes D. *Electrochemical Synthesis of PEDOT Derivatives Bearing Imidazolium-Ionic Liquid Moieties.* Journal of Polymer Science, A-Polymer Chemistry 47, 3010-3021 (2009)

82- Tollan CM, Etxeberria J, Marcilla R, **Pomposo JA**, Mecerreyes D. *One-step growth of gold nanorods using a beta-diketone reducing agent.* Journal of Nanoparticle Research 11, 1241-1245 (2009)

83- Tollan CM, **Pomposo JA**, Mecerreyes D, *Synthesis of fulleropyrrolidine pyridinium salts by facile anion exchange and their solubility.* NANO 4, 299-302 (2009)

84- Dobbelin, M; Tena-Zaera, R; Marcilla, R; Iturri, J; Moya, S; **Pomposo, JA**; Mecerreyes, D. *Multiresponsive PEDOT-Ionic Liquid Materials for the Design of Surfaces with Switchable Wettability*. Advanced Functional Materials 19, 3326-3333 (2009)

85- Azaceta, E.Tena-Zaera, R.Marcilla, R.Fantini, S.Echeberria, **J. A. Pomposo**, J. A.Grande, H.Mecerreyes, D. *Electrochemical deposition of ZnO in a room temperature ionic liquid: 1-Butyl-1-methylpyrrolidinium bis(trifluoromethane sulfonyl)imide.* Electrochemistry Communications 11, 2184-2186 (2009)

86- Pozo-Gonzalo, C; Salsamendi, M; Vinuales, A; **Pomposo, JA**; Grande, H. *Highly transparent electrochromic plastic device that changes to purple and to blue by increasing the potential.* Solar Energy Materials and Solar Cells 93, 2093-2097 (2009)

87- A Ruiz de Luzuriaga, I Perez-Baena, S Montes, I Loinaz, I Odriozola, I García, **JA Pomposo**. *New Route to Polymeric Nanoparticles by Click Chemistry using Bifunctional Cross-linkers.* Macromolecular Symposia 296, 303-310 (2010)

88- Ruiz de Luzuriaga A, Garcia I, Mecerreyes D, Etxeberria A, **Pomposo JA** *Design and stabilization of block copolymer micelles via phenol-pyridine hydrogen-bonding interactions.* Polymer 51, 1355-1362 (2010)

89- Garcia I, Iturriza N, del Val JJ, Grande H, **Pomposo JA**, Gonzalez J. *Magnetic force microscopy characterization of heat and current treated Fe40Ni38Mo4B18 amorphous ribbons.* Journal of Magnetism and Magnetic Materials 322, 1822-1827 (2010)

90- Garcia I, **Pomposo JA**, Echeberria J, Ollo J, Ilyn M, Guslienko KY, Gonzalez JM. *Microstructural and Magnetic Properties of CoCu Nanoparticles Prepared by Wet Chemistry.* Journal of Nanoscience and Nanotechnology 10, 4246-4251 (2010)

91- Oria L, Aguado R, **Pomposo JA**, Colmenero J. *A Versatile "Click" Chemistry Precursor of Functional Polystyrene Nanoparticles.* Advanced Materials 22, 3038-3041 (2010)

92- Garcia-Etxarri A, Aizpurua J, Molina-Aldareguia J, Marcilla R, **Pomposo JA**, Mecerreyes D. *Chemical sensing based on the plasmonic response of nanoparticle aggregation: Anion sensing in nanoparticles stabilized by amino-functional ionic liquid.* Frontiers of Physics in China 5, 330-336 (2010)

93- Montes, S; Etxeberria, A; Rodriguez, J; **Pomposo, JA**. *Homogenization of mutually immiscible polymers using nanoscale effects: a theoretical study.* Edited by: Trimm, HH. Physical chemistry: chemical kinetics and reaction mechanisms. Research Progress in Chemistry, 331-341 (2011)

94- **Pomposo JA**, Ruiz de Luzuriaga A, Garcia I, Etxeberria A, Colmenero J. *A Nanotechnology Pathway to Arresting Phase Separation in Soft Nanocomposites* . Macromol. Rapid Commun. 32, 573-578 (2011)

95- **Pomposo JA**, Perez-Baena I, Buruaga L, Alegria A, Moreno AJ, Colmenero, J. *On the Apparent SEC Molecular Weight and Polydispersity Reduction upon Intramolecular Collapse of Polydisperse Chains to Unimolecular Nanoparticles.* Macromolecules 44, 8644-8649 (2011)

96- Lorea Buruaga, **JA Pomposo**. *Metal-Free Polymethyl Methacrylate (PMMA) Nanoparticles by Enamine Click Chemsitry.* CLICK CHEMISTRY IN POLYMER SCIENCE Special Issue. Polymers (by direct invitation of Editor Andrew Lowe). Doi:10.3390/polym3041673 (pp. 1673-1683)

97- Fabienne Barroso-Bujans, Virginie M. Boucher, **Jose A. Pomposo**, Lorea Buruaga, Angel Alegría and Juan Colmenero. *Easy-dispersible poly(glycidyl phenyl ether)-functionalized graphene sheets obtained by reaction of "living" anionic polymer chains.* Chem. Commun. 48, 2618-2620 (2012)

98- Fabienne Barroso-Bujans, Felix Fernández-Alonso, **Jose A. Pomposo**, Silvina Cerveny, Angel Alegría and Juan Colmenero. *Macromolecular Structure and Vibrational Dynamics of Confined Poly(ethylene oxide): From Subnanometer 2D-Intercalation into Graphite Oxide to Surface Adsorption onto Graphene Sheets*. ACS Macro Letters 1, 550-554 (2012)

99- Ana Sanchez-Sanchez, Isabel Asenjo-Sanz, Lorea Boruga and **Jose A. Pomposo**. *Nacked and Self-Clickable Propargylic-Decorated Single-Chain Nanoparticle Precursors via Redox-Initiated RAFT Polymerization.* Macromol. Rapid Commun. 33, 1262-1267 (2012)

100- Fabienne Barroso-Bujans, Felix Fernandez-Alonso, **Jose A. Pomposo**, Eduardo Enciso, Jose Luis G. Fierro and Juan Colmenero. *Tunable uptake of poly(ethylene oxide) in graphite-oxide-based materials.* Carbon 50, 5232-5241 (2012)

101- Pegah Khanjani, Lorea Buruaga, **José A. Pomposo**. *Unimolecular Nanoparticles by Carbon-Carbon "Click" Chemistry for All-Polymer Nanocomposites.* POLYMER BLENDS, Macromol. Symp. 321-322 (pp. 145-149) (2012).

102- Ana Sanchez-Sanchez, Irma Perez-Baena, **Jose A. Pomposo**. *Advances in click chemistry for single-chain nanoparticle construction.* Molecules 18, 3339-3355 (2013)

103- Barroso-Bujans, F; Alegria, A; **Pomposo, JA**; Colmenero, J. *Thermal Stability of Polymers Confined in Graphite Oxide.* Macromolecules 46, 1890-1898 (2013)

104- Sanchez-Sanchez, Ana; Akbari, Somayeh; Etxeberria, Agustin; Arbe, Arantxa; Gasser, Urs; Moreno, Angel; Colmenero, Juan; **Pomposo, Jose A.** *"Michael" Nanocarriers Mimicking Transient-Binding Disordered Proteins.* ACS Macro Letters 2, 491-495 (2013)

105- Pérez-Baena, Irma; Barroso-Bujans, Fabienne; Gasser, U.; Arbe, Arantxa; Moreno, Angel; Colmenero, Juan; **Pomposo, Jose A.** *Endowing Single-Chain Polymer Nanoparticles with Enzyme-Mimetic Activity.* ACS Macro Letters 2, 775-779 (2013)

106- Ana Sanchez-Sanchez, Somayeh Akbari, Angel J. Moreno, Federica Lo Verso, Arantxa Arbe, Juan Colmenero, **José A. Pomposo**. *Design and Preparation of Single-Chain Nanocarriers Mimicking Disordered Proteins for Combined Delivery of Dermal Bioactive Cargos.* Macromol. Rapid Commun. 34, 1681-1686 (2013). ***FRONT COVER of Volume 34 • Number 21 • November 14, 2013***

107- Angel J. Moreno, Federica Lo Verso, Ana Sanchez-Sanchez, Arantxa Arbe, Juan Colmenero and **Jose A. Pomposo**. *Advantages of Orthogonal Folding of Single Polymer Chains to Soft Nanoparticles.* Macromolecules 46, 9748-9759 (2013)

108- Ana Sanchez-Sanchez, David A. Fulton and **José A. Pomposo**. *pH-Responsive Single-Chain Polymer Nanoparticles Utilising Dynamic Covalent Enamine Bonds*. Chem. Commun. 50, 1871-1874 (2014)

109- Ana Sanchez-Sanchez, **José A. Pomposo**. *Single-Chain Polymer Nanoparticles via Non-Covalent and Dynamic Covalent Bonds* Part. Part. Syst. Charact. 31, 11-23 (2014)

110- F. Lo Verso, **Jose A. Pomposo**, J. Colmenero, A. J. Moreno. *Multi-orthogonal folding of single polymer chains into soft nanoparticles.* Soft Matter 10, 4813-4821 (2014)

111- I. Asenjo-Sanz, A. Veloso, J. I. Miranda, **José A. Pomposo**, F. Barroso-Bujans. *Zwitterionic polymerization of glycidyl monomers to cyclic polyethers with $B(C_6F_5)_3$.* Polym. Chem. 5, 6905-6908 (2014)

112- I. Pérez-Baena, A. J. Moreno, J. Colmenero and **José A. Pomposo**. *Single-chain nanoparticles vs. Star, hyperbranched and dendrimeric Polymers: Effect of nanoscopic architecture on the flow properties of diluted solutions.* Soft Matter 10, 9454-9459 (2014)

113- D. Bhowmik, **José A. Pomposo**, A. Arbe, J. Colmenero, F. Juranyi, V. Garcia-Sakai, M. Zamponi, Y. Su. *Microscopic Dynamics in Nano-Composites of Poly(ethylene oxide) and Poly(methyl methacrylate) Soft Nano-Particles: A Quasi-Elastic Neutron Scattering Study.* Macromolecules 47, 304-315 (2014)

114- **Jose A. Pomposo**. *Bioinspired Single-Chain Polymer Nanoparticles.* Polym. Int. 63, 589-592 (2014). ***INVITED PERSPECTIVE ARTICLE***

115- A. Sanchez-Sanchez, A. Arbe, J. Colmenero, and **José A. Pomposo**. *Metallo-Folded Single-Chain Nanoparticles with Catalytic Selectivity*. ACS Macro Letters 3, 439-443 (2014)

116- D. Bhowmik, **José A. Pomposo**, F. Juranyi, V. G. Sakai, M. Zamponi, A. Arbe, J. Colmenero. *Investigation of a Nanocomposite of 75 wt % Poly(methyl methacrylate) Nanoparticles with 25 wt % Poly(ethylene oxide) Linear Chains: A Quasielatic Neutron Scattering, Calorimetric, and WAXS Study*. Macromolecules 47, 3005-3016 (2014)

117- **José A. Pomposo**, I. Pérez-Baena, F. Lo Verso, A. J. Moreno, A. Arbe and J. Colmenero. *How far are single-chain polymer nanoparticles in solution from the globular state?* ACS Macro Lett. 3, 767-772 (2014). ***VIEWPOINT***

118- Irma Perez-Baena, Isabel Asenjo-Sanz, Arantxa Arbe, Angel J. Moreno, Federica Lo Verso, Juan Colmenero and **Jose A. Pomposo**. *Efficient Route to Compact Single-Chain Nanoparticles: Photoactivated Synthesis via Thiol-Yne Coupling Reaction.* Macromolecules 47, 8270-8280 (2014)

119- I. Asenjo-Sanz, A. Veloso, J. I. Miranda, **José A. Pomposo**, F. Barroso-Bujans. *Zwitterionic polymerization of glycidyl monomers to cyclic polyethers with $B(C_6F_5)_3$.* Polym. Chem. 6, 838-838 (2015)

120- Federica Lo Verso, **Jose A. Pomposo**, Juan Colmenero and Angel Moreno. *Simulation Guided Design of Globular Single-Chain Nanoparticles by Tuning the Solvent Quality.* Soft Matter 11, 1369-1375 (2015)

121- Ana Sanchez-Sanchez and **José A. Pomposo**. *Efficient Synthesis of Single-Chain Polymer Nanoparticles via Amide Formation.* Journal of Nanomaterials 2015, Article ID 723492 (2015)
INVITED ARTICLE

122- M. Gonzalez-Burgos, A. Latorre-Sanchez and **José A. Pomposo**. *Advances in Single Chain Technology.* Chem. Soc. Rev. 44, 6122-6142 (2015) ***(IF =40.2)***

123- A. Latorre-Sanchez and **José A. Pomposo**. *A simple, fast and highly sensitive colorimetric detection of zein in aqueous ethanol via zein-pyridine-gold interactions*. Chem. Commun. 51, 15736-15738 (2015)

124- I. Asenjo-Sanz, A. Veloso, J. I. Miranda, A. Alegría, **José A. Pomposo** and F. Barroso-Bujans. *Zwitterionic Ring-Opening Copolymerization of Tetrahydrofuran and Glycidyl Phenyl Ether with $B(C_6F_5)_3$.* Macromolecules 48, 1664-1672 (2015)

125- **José A. Pomposo**. *Endowing soft nano-objects with enzyme-mimetic activity via single-chain technology*. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY Volume: 250 Meeting Abstract: 91 Published: AUG 16 2015.

126- Ana Sanchez-Sanchez, Arantxa Arbe, Joachim Kohlbrecher, Juan Colmenero and **José A. Pomposo**. *Efficient Synthesis of Single Chain Globules Mimicking the Morphology and Polymerase Activity of Metalloenzymes*. Macromol. Rapid Commun. 36, 1592-1597 (2015)

127- I. Asenjo-Sanz, J. I. Santos, A. M. Bittner, **José A. Pomposo**, F. Barroso-Bujans. *Zwitterionic ring-opening polymerization for the facile, efficient and versatile grafting of functional polyethers onto graphene sheets*. Eur. Polym. J. 73, 413-422 (2015)

128- **José A. Pomposo**. *Polymers: Single-Chain Polymer Nanoparticles*. CRC CONCISE ENCYCLOPEDIA OF NANOTECHNOLOGY Pages: 942-950 Published: 2016

129- M. Gonzalez-Burgos, A. Alegría, A. Arbe, J. Colmenero, **J. A. Pomposo**. *An unexpected route to aldehyde-decorated single-chain nanoparticles from azides*. Polymer Chemistry 7, 6570-6574 (2016).

130- F. Lo Verso, **J. A. Pomposo**, J. Colmenero, A. J. Moreno. *Tunable Slow Dynamics in a New Class of Soft Colloids*. Soft Matter 12, 9039-9046 (2016)

131- J. Rubio-Cervilla, F. Barroso-Bujans, **José A. Pomposo**. *Merging of Zwitterionic ROP and Photoactivated Thiol-Yne Coupling for the Synthesis of Polyether Single-Chain Nanoparticles.* Macromolecules 49, 70-79 (2016)

132- A. J. Moreno, F. Lo Verso, A. Arbe, **José A. Pomposo** and J. Colmenero. *Concentrated solutions of single-chain nanoparticles: A simple model for intrinsically disordered proteins under crowding conditions.* The Journal of Physical Chemistry 7, 838-844 (2016)

133- A. Arbe, **José A. Pomposo**, I. Asenjo-Sanz, D. Bhowmik, O. Ivanova and J. Colmenero. *Single Chain Dynamic Structure Factor of Linear Polymers in an All-Polymer Nano-Composite.* Macromolecules 49, 2354-2364 (2016)

134- S. Basasoro, M. Gonzalez-Burgos, A. J. Moreno, F. Lo Verso, A. Arbe, J. Colmenero and **José A. Pomposo**. *A solvent-based strategy for tuming the internal structure of metallo-folded single-chain nanoparticles.* Macromol. Rapid Commun. 37, 1060-1065 (2016)

135- A. Latorre-Sanchez, A. Alegría, F. Lo Verso, A. J. Moreno, A. Arbe, J. Colmenero and **José A. Pomposo**. *A Useful Methodology for Determining the Compaction Degree of Single-Chain Nanoparticles by Conventional SEC.* Part. Part. Syst. Charact. 33, 373-381 (2016). ***INVITED ARTICLE***. "Advanced Particle Characterization Techniques" Special Issue

136- A. Latorre-Sanchez and **José A. Pomposo**. *Recent Bioinspired Applications of Single-Chain Nanoparticles.* Polymer International 65, 855-860 (2016). "BIOPOL-2015" Special Issue

137- A. Arbe, **J. A. Pomposo**, A. J. Moreno, F. Lo Verso, M. Gonzalez-Burgos, I. Asenjo-Sanz, A. Iturrospe, A. Radulescu, O. Ivanova, and J. Colmenero. *Structure and Dynamics of Single-Chain Nano-Particles in Solution*. Polymer 105, 532-544 (2016). ***INVITED ARTICLE***. "Structure and Dynamics of Polymers studied by X-ray, Neutron and Muon Scattering" Special Issue

138- P. Bacova, F. Lo Verso, A. Arbe, J. Colmenero, **J. A. Pomposo**, and A. J. Moreno. *The Role of the Topological Constraints in the Chain Dynamics in All-Polymer Nanocomposites*. Macromolecules 50, 1719-1731 (2017)

139- **J. A. Pomposo**, J. Rubio-Cervilla, A. J. Moreno, F. Lo Verso, P. Bacova, A. Arbe, and J. Colmenero. *Folding Single Chains to Single-Chain Nanoparticles via Reversible Interactions: What Size Reduction Can One Expect?* Macromolecules 50, 1732-1739 (2017)

140- J. De-La-Cuesta, E. González, A. J. Moreno, A. Arbe, J. Colmenero, and **J. A. Pomposo**. *Size of Elastic Single-Chain Nanoparticles in Solution and on Surfaces*. Macromolecules 50, 6323-6331 (2017)

141- J. Rubio-Cervilla, E. González, and **J. A. Pomposo**. *Advances in Single-Chain Nanoparticles for Catalysis Applications*. Nanomaterials 7, 341 (2017). ***INVITED ARTICLE***.

142- J. De-La-Cuesta, E. González, and **J. A. Pomposo**. *Advances in Fluorescent Single-Chain Nanoparticles*. Molecules 22, 1819 (2017). ***INVITED ARTICLE***.

143- A. Latorre-Sánchez, M. Johansson, Y. Zhang, M. Malkoch, and **J. A. Pomposo**. *Active quinine-based films able to release antimicrobial compounds via melt quaternization at low temperature*. Journal of Materials Chemistry B 6, 98-104 (2018)

144- A J Moreno, P Bacova, F Lo Verso, A Arbe, J Colmenero, and **J A Pomposo**. *Effect of chain stiffness on the structure of single-chain polymer nanoparticles*. Journal of Physics: Condensed Matter 30, 034001 (2018)

145- Gonzalez-Burgos, M; Arbe, A; Moreno, AJ; **Pomposo, JA**; Radulescu, A; Colmenero, J. *Crowding the Environment of Single-Chain Nanoparticles: A Combined Study by SANS and Simulations*. Macromolecules 51, 1573-1585 (2018)

146- Gonzalez-Burgos, M; Gonzalez, E; **Pomposo, JA**. *Excellent Stability in Water of Single-Chain Nanoparticles against Chain Scission by Sonication*. Macromol. Rapid Commun. 39, 1700675 (2018)

147- Gonzalez-Burgos, **Pomposo, JA**. *Mapping the Extra Solvent Power of Ionic Liquids for Monomers, Polymers, and Dry/Wet Globular Single-Chain Polymer Nanoparticles*. Langmuir 34, 3275-3282 (2018)

148- **Pomposo, JA**; Rubio-Cervilla, J; Gonzalez, E; Moreno, AJ; Arbe, A; Colmenero, J. *Ultrafiltration of single-chain polymer nanoparticles through nanopores and nanoslits*. Polymer 148, 61-67 (2018)

149- **Pomposo, JA**; Moreno, AJ; Arbe, A; Colmenero, J. *Local Domain Size in Single-Chain Polymer Nanoparticles*. ACS Omega 3, 8648-8654 (2018)

150- J. De-La-Cuesta and **J. A. Pomposo**. *Photoactivation of Aggregation-Induced Emission Molecules for Fast and Efficient Synthesis of Highly Fluorescent Single-Chain Nanoparticles*. ACS Omega 3, 15193-15199 (2018)

151- De-La-Cuesta, J; Asenjo-Sanz, I; Latorre-Sanchez, A; Gonzalez, E; Martinez-Tong, DE; **Pomposo, JA**. *Enzyme-mimetic synthesis of PEDOT from self-folded iron-containing single-chain nanoparticles*. Eur. Polym. J. 109, 447-452 (2018)

152- Jon Rubio-Cervilla, Hendrik Frisch, Christopher Barner-Kowollik, and **José A. Pomposo**. *Synthesis of Single-Ring Nanoparticles Mimicking Natural Cyclotides by a Stepwise Folding-Activation-Collapse Process*. Macromol. Rapid Commun. 40, 1800491 (2019)

153- Robles-Hernandez, B; Gonzalez-Burgos, M; **Pomposo, JA**; Colmenero, J; Alegria, A. *Glass-Transition Dynamics of Mixtures of Linear Poly(vinyl methyl ether) with Single-Chain Polymer Nanoparticles: Evidence of a New Type of Nanocomposite Materials*. Polymers 11, 533 (2019)

154.- Asenjo-Sanz, I; Moreno, AJ; Arbe, A; Colmenero, J; **Pomposo, JA**. *Brushes of elastic single-chain nanoparticles on flat surfaces*. Polymer 169, 207-214 (2019)

155- Isabel Asenjo-Sanz, Ester Verde-Sesto, **José A. Pomposo**. *Valuable structure-size relationships for tadpole-shaped single-chain nanoparticles with long and short flexible tails unveiled*. Phys. Chem. Chem. Phys. 21, 10884-10887 (2019)

156- Jon Rubio-Cervilla, Paula Malo de Molina, Beatriz Robles-Hernández, Arantxa Arbe, Angel J. Moreno, Angel Alegría, Juan Colmenero and **José A. Pomposo**. *Facile Access to Completely-Deuterated Single-Chain Nanoparticles Enabled by Intramolecular Azide Photodecomposition*. Macromol. Rapid Commun. 40, 1900046 (2019)

157- Julian Oberdisse, Marina Gonzalez-Burgos, Ander Mendia, Arantxa Arbe, Angel J. Moreno, **José A. Pomposo**, Aurel Radulescu, Juan Colmenero. *Effect of Molecular Crowding on Conformation and Interactions of Single-Chain Nanoparticles*. Macromolecules 52, 4295-4305 (2019)

158- Luciano Colazzo, Mohammed S. G. Mohammed, Aurelio Gallardo, Zakaria M. Abd El-Fattah, **José A. Pomposo**, Pavel Jelinek, Dimas G. de Oteyza. *Controlling the stereospecific bonding motif of Au-thiolate links*. Nanoscale 11, 15567-15575 (2019)

159- Robles-Hernandez, B; Monnier, X; **Pomposo, JA**; Gonzalez-Burgos, M; Cangialosi, D; Alegria, A. *Glassy Dynamics of an All-Polymer Nanocomposite Based on Polystyrene Single-Chain Nanoparticles.* Macromolecules 52, 6868-6877 (2019)

160- Arbe, A; Rubio-Cervilla, J; Alegria, A; Moreno, AJ; **Pomposo, JA**; Robles-Hernandez, B; de Molina, PM; Fouquet, P; Juranyi, F; Colmenero, J. *Mesoscale Dynamics in Melts of Single-Chain Polymeric Nanoparticles*. Macromolecules 52, 6935-6942 (2019)

161- Verde-Sesto, E; Blazquez-Martin, A; **Pomposo, JA.** *Advances in the Phototriggered Synthesis of Single-Chain Polymer Nanoparticles*. Polymers 11, 1903 (2019)

162- Arantxa Arbe, Jon Rubio, Paula Malo de Molina, Jon Maiz, **Jose A. Pomposo**, Peter Fouquet, Sylvain Prevost, Fanni Juranyi, Marina Khaneft, and Juan Colmenero. *Melts of Single Chain Nano-Particles: A Neutron Scattering Investigation*. J. Appl. Phys. 127, 044305 (2020)

163- Mohammed S. G. Mohammed, Colazzo, Luciano Colazzo, Aurelio Gallardo, **Jose A. Pomposo**, Pavel Jelinek, Dimas G. de Oteyza. *Steering alkyne homocoupling with on-surface synthesized metal-organic complexes*. Chem. Commun. 56, 8659-8662 (2020)

164- E. Verde-Sesto, A. Arbe, A.J. Moreno, D. Cangialosi, A. Alegria, J. Colmenero, **Jose A. Pomposo**. *Single-chain nanoparticles: opportunities provided by internal and external confinement*. Mater. Horiz. 7, 2292-2313 (2020)

165- Marina Gonzalez-Burgos, Isabel Asenjo-Sanz, **Jose A. Pomposo**, Aurel Radulescu, Oxana Ivanova, Stefano Pasini, Arantxa Arbe, Juan Colmenero. *Structure and Dynamics of Irreversible Single-Chain Nanoparticles in Dilute Solution. A Neutron Scattering Investigation*. Macromolecules 53, 8068-8082 (2020)

166- Beatriz Robles-Hernandez, Edurne Gonzalez, **Jose A. Pomposo**, Juan Colmenero, Alegría, Angel. *Water dynamics and self-assembly of single-chain nanoparticles in concentrated solutions*. Soft Matter 16, 9738-9745 (2020)

167- Martinez-Tong, DE; Verde-Sesto, E; **Pomposo, JA**. *Triggering Forces at the Nanoscale: Technologies for Single-Chain Mechanical Activation and Manipulation*. Macromol. Rapid Commun. 42, 2000654 (2021)

168- De-La-Cuesta, J; Verde-Sesto, E; Arbe, A.; **Pomposo, JA**. *Self-Reporting of Folding and Aggregation by Orthogonal Hantzsch Luminophores Within a Single Polymer Chain*. Angew. Chem. Int. Ed. 60, 3534-3539 (2021)

169- Blazquez-Martin, A; Verde-Sesto, E; Moreno, AJ; Arbe, A; Colmenero, J; **Pomposo, JA.** *Advances in the Multi-Orthogonal Folding of Single Polymer Chains into Single-Chain Nanoparticles*. Polymers 13, 293 (2021)

170- Maiz, J; Verde-Sesto, E; Asenjo-Sanz, I; Fouquet, P; Porcar, L; **Pomposo, JA**; de Molina, PM; Arbe, A; Colmenero, J. *Collective Motions and Mechanical Response of a Bulk of Single-Chain Nano-Particles Synthesized by Click-Chemistry*. Polymers 13, 50 (2021)

171- Maiz, J; Verde-Sesto, E; Asenjo-Sanz, I; de Molina, PM; Frick, B; **Pomposo, JA**; Arbe, A; Colmenero, J. *Dynamic Processes and Mechanisms Involved in Relaxations of Single-Chain Nano-Particle Melts*. Polymers 13, 2316 (2021)

172- Asenjo-Sanz, I; Claros, T; Gonzalez, E; Pinacho-Olaciregui, J; Verde-Sesto, E; **Pomposo, JA**. *Significant effect of intra-chain distribution of catalytic sites on catalytic activity in "clickase" single-chain nanoparticles*. Materials Letters 304, 130622 (2021)

173- Asenjo-Sanz, I; Verde-Sesto, E; **Pomposo, JA**. *A method to estimate the size of single-chain nanoparticles under severe crowding conditions*. RSC Advances 12, 1571 (2022)

Other Publications: Submitted / Accepted / Online

174- Maiz, J; Verde-Sesto, E; Asenjo-Sanz, I; Mangin-Thro, L; Frick, B; **Pomposo, JA**; Arbe, A; Colmenero, J. *Disentangling Component Dynamics in an All-Polymer Nanocomposite based on Single-Chain Nanoparticles by means of Quasielastic Neutron Scattering*. Macromolecules (Submitted)

175- Sharifi, S; Asenjo-Sanz, I; **Pomposo, JA**; Alegria, A. *Intra- vs Inter-Molecular Cross-Links in Poly(Methyl Methacrylate) Networks containing Enamine Bonds*. Macromolecules (Submitted)

Peer-Reviewed Book Chapters / Invited Reviews / Editor Activities

1- E. Ochoteco, N. Murillo, J. Rodriguez, **J. A. Pomposo**, H. Grande. "Conducting Polymer Based Electrochemical Sensors" In *Encyclopedia of Sensors*, Craig A. Grimes, Elizabeth C. Dickey, and Michael V. Pishko Eds. American Scientific Publishers 2006; Vol. 2, pp 259-278. ISBN: 1-58883-056-2

2- N. Iturriza, J. J. del Val, A. P. Zhukov, I. Garcia, **J. A. Pomposo**, J. Gonzalez. "Novel Amorphous and Nanocrystalline Soft Magnetic Materials" In *Amorphous Materials Research, Technology and Applications*, Jason R. Telle, Norman A. Pearlstine Eds. Nova Science Publishers 2009. Chap. 2. ISBN: 978-1-60692-235-4

3- E. Jubete, O. Loaiza, E. Ochoteco, **J. A. Pomposo**, H. Grande. "Nanotechnology: A Tool for Improved Performance on Electrochemical Screen-Printed (Bio)Sensors". Journal of Nanomaterials Article ID 842575 (2009). Invited review

4- **J. A. Pomposo**, E Ochoteco, D Mecerreyes, H Grande, J Rodriguez. "Industrial Applications of Intrinsically Conducting Polymers". Gaia (2004). Editor activity

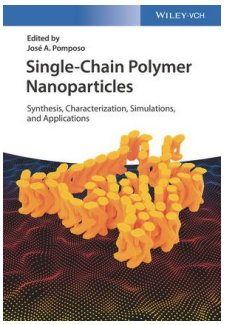
5- H. Y. Fan, Y. F. Lu, G. Ramanath, **J. A. Pomposo**. "Emerging Multifunctional Nanostructures", Special Issue 2009 in Journal of Nanomaterials (Hindawi Publishing Co.). Guest Editor

6- **J. A. Pomposo**. "Construction of block copolymer micelles and single-chain nanoparticles in non-selective solvents". In *Micelles: Structural Biochemistry, Formation and Functions & Usage* (e-book). ISBN: 978-1-62948-445-7 (2013)

7- **J. A. Pomposo**. "Single-Chain Nanoparticles for Nanomedicine" In *Encyclopedia of Biomedical Polymers and Polymeric Biomaterials.* Editor: M. Mishra. ISBN: 1439898790 (2015)

8- **J. A. Pomposo**. "Polymers: Single-Chain Polymer Nanoparticles". In *CRC Concise Encyclopedia of Nanotechnology.* Editor: B. I. Kharisov. ISBN: 9781466580343 (2015)

9- **J. A. Pomposo**. EDITOR of WILEY´S BOOK: **"SINGLE-CHAIN POLYMER NANOPARTICLES - Synthesis, Characterization, Simulations and Applications"** ISBN: 978-3-527-34242-6. E-book ISBN: 978-3-527-80639-3 (2017).



10- J. Rubio-Cervilla, E. González, **J. A. Pomposo**. "Applications of Single-Chain Polymer Nanoparticles". In *SINGLE-CHAIN POLYMER NANOPARTICLES - Synthesis, Characterization, Simulations and Applications* . Editor: J A Pomposo. ISBN: 978-3-527-34242-6. E-book ISBN: 978-3-527-80639-3 (2017).

Additional Publications (non-ISI Web of Knowledge)

1- A Ruiz de Luzuriaga, H Grande, **JA Pomposo**. *A Theoretical Investigation of Polymer-Nanoparticles as Miscibility Improvers in All-Polymer Nanocomposites*. Journal of Nano Research 2, 105-114 (2008)

2- Linazasoro, G; **Pomposo, JA** et al. *Potential applications of nanotechnologies to Parkinson's disease therapy.* Parkinsonism & Related Disorders 19, 383-392 (2008)

3- Isabel Asenjo-Sanz, Maite Del-Corte, Jokin Pinacho-Olaciregui, Marina González-Burgos, Edurne González, Ester Verde-Sesto, Arantxa Arbe, Juan Colmenero, **José A. Pomposo**. *Preparation and Preliminary Evaluation of Povidone Single-Chain Nanoparticles as Potential Drug Delivery Nanocarriers*. Med One. 2019; 4: e190013. ***INVITED ARTICLE***. Special Issue: "Nanoparticles in Medicine"

Contributions to White Papers

1- **Nanotechnology White Paper**, edited by 3i, the Economist Intelligence Unit and the Institute of Nanotechnology (UK) in 2002

2- **Smart Displays in Intelligent Environments White Paper**, edited by the German Flat Display Forum, GFF, in 2004

Contributions to International Meetings / Conferences / Symposia

1- **J. A. Pomposo**, F. J. Rodríguez. *First-generation of intrinsically conducting hot melt adhesives with Electromagnetic Interference (EMI) shielding properties.* EUROCOAT-98. Oral Contribution

2- A. Santamaría, I. Gonzalez, E. Lizaso, M. E. Muñoz, **J. A. Pomposo**, H. Grande. *Viscoelastic Properties of Conductive Gels of Polyaniline/m-Cresol.* INTERNACIONAL CONGRESS ON RHEOLOGY, Cambridge (UK) (2000).

3- I. Gonzalez, M. E. Muñoz, A. Santamaría, **J. A. Pomposo**, H. Grande. *Repercussion of the Polymer / Solvent Interaction in the Electric Conductivity of Polyaniline.* 3RD INTERNACIONAL CONFERENCE ON POLYMER-SOLVENT COMPLEXES AND INTERCALATES, Besançon (2000)

4- M. Vecino, I. Gonzalez, M. E. Muñoz, A. Santamaría, **J. A. Pomposo**. *Viscoelasticity and Morphology of Polyaniline Gels*. 4RD INTERNACIONAL CONFERENCE ON POLYMER-SOLVENT COMPLEXES AND INTERCALATES, Praga (2002)

5- E. Ochoteco, Y. Alesanco, P. A. Calvo, **J. A. Pomposo**, H. Grande, J. Rodriguez. *Polypyrrole Nanoparticles Preparation: A Comparison of Different Synthesis Routes.* TRENDS IN NANOTECHNOLOGY 2002.

6- N. Murillo, E. Ochoteco, Y. Alesanco**, J. A. Pomposo**, J. Rodriguez, J. Gonzalez, J. J. del Val, J. M. Gonzalez. *CoFe2O4-Polypyrrole (PPy) Nanocomposites: New Multifunctional Materials.* TRENDS IN NANOTECHNOLOGY 2003.

7- I. Cendoya, N. Murillo, L. Ganborena, O. Miguel, E. Ochoteco, **J. A. Pomposo**, H. Grande, J. Gonzalez, A. Anson, M. A. Callejas, W. Maser, A. M. Benito, M. T. Martinez. *Electrochemical Characterization of Single Walled Carbon Nanotubes and Polypyrrole Composites as Electrodes in Supercapacitors.* TRENDS IN NANOTECHNOLOGY 2003.

8- I. González, M. E. Muñoz, A. Santamaría**, J. A. Pomposo**. *Rheology of Polyaniline: From Liquid Crystalline Solutions to Conducting Viscoelastic Gels.* AERC-2003. Guimaraes.

9- C. Müller, M. Sarret, E. Brillas, P. L. Cabot, **J. A. Pomposo**, E. Ochoteco, R. Navarro, A. Amell. *Polyaniline Dispersions as Levelllers in Cupper Electrodeposition Acid Baths.* 55TH ANNUAL MEETING OF THE ISE (2004). Thessaloniki.

10- Rebeca Marcilla,Victor Alvaro, Hans Grande, **J. A. Pomposo**, David Mecerreyes. *Tuning the Solubility of Polymerized Ionic Liquids by Simple Anion Exchange Reactions.* WORLD POLYMER CONGRESS IUPAC (2004).

11- Y. Belaustegui, E. E. Díez, R. Marquinez, B. Valle, E. Ochoteco, I. Tolosa, **J. A. Pomposo**, H. Grande. *Conducting Polymers Based Membranes for Ion Transport Process.* EUROMEMBRANE-2004. Hamburg.

12- Iraida Loinaz, Rebeca Marcilla, Nieves Murillo, **José A. Pomposo**, Javier Rodríguez, David Mecerreyes. *New Simple Method For Trapping Nanoparticles.* TRENDS IN NANOTECHNOLOGY 2004.

13- N. Murillo, **J. A. Pomposo**, D. Mecerreyes, H. Grande, J. Rodriguez, J. J. Del Val and J. Gonzalez. *Bottom-up Magnetic Nanoparticles by Electrochemistry for Biomedical applications*. TRENDS IN NANOTECHNOLOGY 2004.

14- E. Ochoteco, M. Auzmendi, **J. A. Pomposo**, H. Grande, J. Rodriguez. *A self-supported polypyrrole artificial muscle: design optimization.* MICROTECHNOLOGIES IN THE NEW MILLENIUM' 05.

15- D. Mecerreyes, R. Marcilla, H.Grande, **J. A. Pomposo**.*Synthesis of polymeric ionic liquids and their use as vehicles for the phase transfer of nanoparticles between water and organic solvents.* POLYMERS IN NANOSCIENCE AND NANOTECHNOLOGY 2005. Gargnano.

16- I. Loinaz, E. Ochoteco, D. Mecerreyes, P. M. Carrasco, A. Genua, **J. A. Pomposo**, H. Grande. *Biomaterials: electrochemical applications.* SIXTH INTERNATIONAL SYMPOSIUM ON FRONTIERS IN BIOMEDICAL POLYMERS 2005.

17- **J. A. Pomposo**, E. Ochoteco, C. Pozo, P. Carrasco, H. Grande, J. Rodriguez. *Trends in polypyrrole research: conductivity enhancement in raw materials and dispersions.* Current and future trends in polymeric materials 2005, IUPAC CONGRESS. Prague.

18- A. Ansón, I. Cendoya, L. Ganborena, N. Murillo, O. Miguel, E. Ochoteco, **J. A. Pomposo**, H. Grande, R. Sáinz, W. K. Maser, A. M. Benito, M. T. Martínez. *Composites of Carbon Nanotubes and Conducting Polymers as Electrodes of Supercapacitors.* CARBON 2005. Gyeongju. Korea.

19- E. Ochoteco, **J. A. Pomposo**, H. Grande, F. Martinez, G. Obieta, J. Lezama, J. M. Iriondo. *Distributed pressure sensor based on electroactive materials for automotive application.* ADVANCED MICROSYSTEMS FOR AUTOMOTIVE APPLICATIONS (AMMA 06). Berlin.

20- V. Rumbau, **J. A. Pomposo**, D. Mecerreyes, E. Ochoteco. *Conducting polyaniline synthesis by enzymatic catalytic polymerization.* EUROPEAN POLYMER FEDERATION WORKSHOP 2006. París.

21- Pozo-Gonzalo, C., Mecerreyes, D.; Marcilla, R., **Pomposo, J. A.**, Ochoteco, E., Salsamendi. *Recent Advances in Electrochromic Plastic Devices*. 7TH INTERNATIONAL MEETING ON ELECTROCHROMISM (IME-7). (2006), Istambul.

22- R. Marcilla, **J. A. Pomposo**, D. Mecerreyes, A. García Etxarri and J. Aizpurua. *Plasmon response in nanoparticle aggregates for anion sensing.* NANO2006 WORKSHOP 'PERSPECTIVES IN NANOSCIENCE AND NANOTECHNOLOGY 2006.

23- Roberto Pacios, Rebeca Marcilla, Juan A. Alduncín, David Mecerreyes, **Jose A. Pomposo** and Hans Grande. *Nanoparticles embedded in polymer matrix for photovoltaic applications.* NANO2006 Workshop 'Perspectives in Nanoscience and Nanotechnology 2006.

24- Alaitz Ruiz de Luzuriaga, Agustín Etxeberria, David Mecerreyes, Juan A. Alduncín, Rebeca Marcilla, Hans J. Grande, **Jose A. Pomposo**. *Design, Synthesis and Characterization of New Multifunctional Hybrid Nanomaterials.* NANO2006 Workshop 'Perspectives in Nanoscience and Nanotechnology 2006.

25- M. Bengoechea, I. Boyano, O. Miguel, I. Cantero, **Jose A. Pomposo**, H.Grande. *Chemical Reduction Method for Industrial Application of Undoped Polypyrrole Electrodes In Lithium-Ion Batteries.* 13TH INTERNATIONAL MEETING ON LITHIUM BATTERIES (IMLB-13). Biarritz.

26- M Tamborra, M Striccoli, ML Curri, A Agostiano, D Mecerreyes, JA Alduncin, **JA Pomposo**, N Kehagias , V Rebaud, C M. Sotomayor-Torres. *Luminescent Colloidal Nanocrystals Modification of Functionalized Poly(methyl Methacrylate) Based Co-polymers: Novel Functional Materials for Nano Imprint Lithography.* MRS CONFERENCE - FALL MEETING BOSTON (USA) (2006).

27- E Ochoteco, **JA Pomposo**, H Macicior, F Martinez, G Obieta, H Grande. *Design of All-Plastic Distributed Pressure Sensors Based on Electroactive Materials.* SPIE 2007.

28- Nerea Ormategui, Alaitz Ruiz de Luzuriaga, Hans Grande, **José A. Pomposo** and Iraida Loinaz. *Functionalization of PMMA derivatives by Click-Chemistry-A simple route for the synthesis of nanoparticles.* 7 INT. SYMP. ON FRONTIERS IN BIOMED. POLYM., (2007), Univ. Gent.

29- M. Dobellin, R. Marcilla, C. Pozo, M. Salsamendi, E. Ochoteco, D. Mecerreyes, J**. A. Pomposo**, H. Boling. *Nanoengineering of PEDOT thin films for optoelectronic applications.* OLLA Summer School. (2007), Poland.

30- Maria Lucia Curri, Angela Agostiano, David Mecerreyes, Juan Antonio Alduncin, **Jose A. Pomposo**, Nikolaos Kehagias, Vincent Rebaud and Clivia M. Sotomayor-Torres, Michela Tamborra, Marinella Striccoli. *Luminescent Nanocrystals in PMMA Based Co-polymers*. E-MRS 2007 SPRING MEETING, 2007, Strasbourg.

31- M. Tamborra, M. Striccoli, M. L. Curri, A. Agostiano, D. Mecerreyes, J. A. Alduncin, **J. A. Pomposo**, N. Kehagias, V. Rebaud, C. M. Sotomayor Torres. *Novel Nanocomposite Materials for Nano Imprint Lithography.* INTERNATIONAL WORKSHOP ON THERMOPLASTIC MATRIX COMPOSITES. (2007), Ostuni.

32- **José A. Pomposo**, Alaitz Ruiz de Luzuriaga, Nerea Ormátegui, Iraida Loinaz. *General Route to Single-Chain Polymer Nanoparticles by Click Chemistry*. EUROPEAN POLYMER CONGRESS 07. Portoroz, Slovenia, 2007. Oral Contribution.

33- Salsamendi, M., Pozo-Gonzalo, C., **Pomposo, JA**, Marcilla, R., Mecerreyes, D., Rodriguez, J., Bolink, H. *Nanolayers for optoelectronic devices based on PEDOT formulations in organic medium*. TNT 2007.

34- David Mecerreyes, Markus Döbbelin, Rebeca Marcilla, Maitane Salsamendi, Cristina Pozo-Gonzalo, **Jose A. Pomposo**, Javier Rodriguez. *Polymeric Transparent Conductive Layers based on PEDOT for Optoelectronic Devices*. TNT 2007.

35- A. Bolognesi, J. Charmet, H. Keppner, J.F. Laithier, C. Boeffel, L. Lutsen, **JA Pomposo**, M. Bobrowski, A. Gedanken, F. Asen, C. Pacheco. *Solid technology: a tool for advanced coatings in*

organic electronics. 4TH EUROPEAN CONFERENCE ON ORGANIC ELECTRONICS AND RELATED PHENOMENA. ECOER-2007 Varenna.

36- Ibon Odriozola, Iraida Loinaz, Pedro Carrasco, **José A. Pomposo** and Hans J. Grande. *Gold Thiolates as pH Responsive Low Molecular Weight Hydrogelators.* INTERNATIONAL CONGRESS ON BIOHYDROGELS, 2007, Viareggio.

37- E. Jubete, E. Ochoteco, **J. A. Pomposo**, H. Grande. *Detection of histamine in wines using a new conducting polymer-based biosensor.* BIOSENSOR CONGRESS. (2007) Fez.

38- Pablo Casuso, Iraida Loinaz, Pedro Carrasco, Marco Möller, **José A. Pomposo**, Hans J. Grande and Ibon Odriozola. *Supramolecular analogues of poly(N,N-dimethylacrylamide) hydrogels.* 3RD INTERNATIONAL CONFERENCE ON SMART MATERIALS, STRUCTURES AND SYSTEMS. (CIMTEC 2008). Acireale.

39- Ana Viñuales, Cristina Pozo-Gonzalo, **José A. Pomposo**, Hans Grande. *Hybrid electrochromic-liquid crystal materials for applications in electrooptical devices.* 3RD INTERNATIONAL CONFERENCE ON SMART MATERIALS, STRUCTURES AND SYSTEMS. (CIMTEC 2008). Acireale.

40- Nerea Ormategui, Iraida Loinaz, **José A. Pomposo** and Hans J. Grande. *Electrochemical assisted deposition of hydroxyapatite and polyglutamic acid onto stainless steel substrates.* NANOBIOEUROPE 2008.

41- A. Ruiz de Luzuriaga, I. Garcia, J. A. Alduncín, S. Montes, **J. Pomposo**, H. Grande. *AFM characterization of polymeric and metalic nanoparticles.* SEEING AT THE NANOSCALE VI. 2008, Berlin.

42- C. Pozo-Gonzalo, M. Salsamendi, A. Viñuales, **JA. Pomposo**, J. Rodríguez. *Simplified manufacturing of electrochromic devices based on a viologen-based electrochromic mixture.* 8TH INTERNATIONAL MEETING ON ELECTROCHROMISM (IME- 8). Seul.

43- Anne-Laure Pont, Rebeca Marcilla, **J.A. Pomposo**, H. Grande, David Mecerreyes. *Pyrrolidinium based-Polymeric Ionic Liquids as mechanically and electrochemically stable Polymer Electrolytes.* 11TH INTERNATIONAL SYMPOSIUM ON POLYMER ELECTROLYTES (11TH ISPE). Ofir.

44- Tomasz Sikora, Haritz Macicior, Hans Grande, **Jose A. Pomposo**, Estibalitz Ochoteco. *Nanocomposite materials for taylor-made performance of pressure sensors.* EUROSENSORS 08. Dresden.

45- Estibalitz Ochoteco, Tomasz Sikora, Haritz Macicior, **Jose A. Pomposo**, Hans Grande, Javier Rodríguez. *From Conducting Polymers to Flexible Pressure Sensors: A Success History in Organic Electronics.* 59TH ANNUAL MEETING OF THE INTERNATIONAL SOCIETY OF ELECTROCHEMISTRY 2008. Sevilla.

46- Elena Jubete, Estibalitz Ochoteco, Iraida Loinaz, Gurutz Linazasoro, **Jose A. Pomposo**, Hans Grande. *Electrochemical biosensor development for detection of L-dopa levels in plasma during Parkinson illness.* IEEE SENSORS. Lecce.

47- J. Castellanos, R. Navas, **J.A. Pomposo**, E. Ochoteco, F. Vidal. *Evaluation of a Tactile Sensor Based on Conductive Polymers.* DCIS08. Grenoble.

48- Agustin Etxeberria, Alaitz Ruiz de Luzuriaga, H. Grande and **José A. Pomposo**. *Nanoparticle formation kinetic followed by NMR: 1H, 13C and HSQC experiments.* HYBRID MATERIALS 09. Tours.

49- Ignacio García, **José A. Pomposo**, Jon Etxeberria, Maxim Ilyn, Konstantin Guslienko, and Julián M. González. *Microstructural and Magnetic Properties of CoCu Nanoparticles Prepared by Wet Chemistry*. IEEE NANO 2009. Genova.

50- A Ruiz de Luzuriaga, I Perez-Baena, S Montes, I Loinaz, I Odriozola, I García, **JA Pomposo**. *New route to polymeric nanoparticles by click chemistry using bifunctional crosslinkers.* EUROPEAN POLYMER CONGRESS 2009. Graz. Oral Contribution.

51- Iraida Loinaz,Irma Perez, Ibon Odriozola, Ignacio García, **Jose A. Pomposo**. *Synthesis of thermoresponsive polymeric nanoparticles by click chemistry.* EUPOC 2009-EUROPOLYMER "CLICK" CHEMISTRY . Gargnano.

52- M. Döbbelin, E. Azaceta R. Tena-Zaera, R. Marcilla, C. Pozo-Gonzalo, **J. A. Pomposo**, D. Mecerreyes. *Electrodeposition of ZnO/PEDOT hybrid nanostructures.* MEETING OF THE ELECTROCHEMICAL SOCIETY. Vienne.

53- C. Pozo-Gonzalo, **J. A. Pomposo**, M. Salsamendi, B. A. Trofimov. *Synthesis of 2-(thien-2yl)-1H-pyrroles and 2-(selenophen-2-yl)pyrroles for electrochromic devices.* MEETING OF THE ELECTROCHEMICAL SOCIETY. Vienne.

54- I. Perez-Baena, **J. A. Pomposo**, A.Alegría, J. Colmenero. *Scaling law cross-over during the collapse of polydisperse chains to unimolecular nanoparticles: effect on SEC/GPC polydispersity*. PASSION FOR KNOWLEDGE CONGRESS 2010. Donostia-San Sebastián.

55- **J. A. Pomposo**, A. Moreno, R. Lund, A. Alegría and J. Colmenero. *Soft Nanoparticles: Current Status and Perspectives*. 6TH INTERNATIONAL ECNP CONFERENCE ON NANOSTRUCTURED & NANOCOMPOSITES 2010. Madrid. Oral Contribution.

56- **José A. Pomposo**, Lorea Buruaga, Irma Perez-Baena, Ana Sanchez-Sanchez, Juan Colmenero. *Soft nanoparticles for biomimetic nanocomposites*. HYBRID MATERIALS 2011. Strasbourg.

57- **José A. Pomposo**, Lorea Buruaga, Juan Colmenero. *Unimolecular Polymeric Nanoparticles: From Conventional to Highly-Efficient "Click" Chemistry Routes.* EPF 2011 & XII GEP CONGRESS 2011. Granada. Oral Contribution.

58- **José A. Pomposo**. *Soft Nanoparticles by "Click" Chemistry Routes*. IUPAC- APME 2011 CONGRESS. Cappadocia. Oral Contribution.

59- **José A. Pomposo**. *Unimolecular Nanoparticles via "Click" Chemistry for All-Polymer Nanocomposites.* POLYMER BLENDS 2012 CONGRESS. Donostia-San Sebastián. Oral Contribution.

60- D. Bhowmik, **J. A. Pomposo**, U. Gasser, F. Jurany, A. Arbe, J. Colmenero. *Dynamics of polymer/polymer nanocomposites.* SCIENCE & SCIENTIST AT EUROPEAN SPALATION SOURCE 2012. Helmholtz Zentrum, Berlin.

61- **José A. Pomposo**, A. Sanchez-Sanchez, I. Perez-Baena, J. Colmenero. *Soft Nanoparticles via Intrachain Click Chemistry.* SOFTCOMP 2012. Heraklion / Crete. Oral Contribution.

62- A. Sanchez-Sanchez, **J. A. Pomposo**, D. Fulton. *Single-Chain Nanoparticles Driven by Enamine Formation Chemistry.* WARWICK POLYMERS 2012 & MACRO-GROUP U.K. INTERNATIONAL CONFERENCE ON POLYMER SYNTHESIS. Warwick.

63- **J. A. Pomposo**. *Single-Chain Nanoparticles via "Self-Click" Chemistry*. WARWICK POLYMERS 2012 & MACRO-GROUP U.K. INTERNATIONAL CONFERENCE ON POLYMER SYNTHESIS. Warwick. Oral Contribution.

64- I. Perez-Baena, **J. A. Pomposo**, F. Barroso-Bujans, U. Gasser, A. Arbe, A. J. Moreno, J. Colmenero. *Intrinsically-Catalytic Single-Chain Polymeric Nanoparticles showing Pseudo-Polymerase Behavior.* INTERNATIONAL SOFT MATTER CONFERENCE 2013. Roma.

65- A. Sanchez-Sanchez, **J. A. Pomposo**. *Multidirectional Self-Assembly Mimicking Protein Folding for Single-Chain Nanoparticle Construction.* EPF 2013. Pisa. Oral Contribution.

66- **José A. Pomposo**. *Single-Chain Soft Nanoparticles Displaying "Enzyme-like" Chemoselectivity, Catalytic and Vitamin Binding Functions*. IUPAC- APME 2013 CONGRESS. Durham. Oral Contribution.

67- **José A. Pomposo**. *Single-Chain Soft Nanoparticles as Bioinspired Nanomaterials*. NanoPT 2014. Porto. INVITED TALK.

68- **José A. Pomposo**. *Bioinspired Single-Chain Polymer Nanoparticles.* CIC NanoGUNE, 2014. Donostia-San Sebastián. INVITED TALK.

69- **José A. Pomposo**. *Endowing single polymer chains with enzyme-mimetic activity and selectivity.* EUPOC 2014: "Precision Polymers: Synthesis, Folding and Function". Gargnano. Oral Contribution.

70- **José A. Pomposo**. *Advances in Single Chain Technology.* SOFTCOMP 2015, 2015. Ancona. Oral Contribution.

71- **José A. Pomposo**. *Bioinspired Single Chain Polymer Nanoparticles.* EPF2015 - EUROPEAN POLYMER CONGRESS, 2015. Dresden. Oral Contribution.

72- **José A. Pomposo**. *Endowing soft nano-objects with enzyme-mimetic activity via single-chain technology.* ACS 250TH NATIONAL MEETING, 2015. Boston (USA). INVITED TALK by Prof. Erik Berda.

73- **José A. Pomposo**. *Bioinspired Single Chain Polymer Nanoparticles,* BIOPOL2015, 2015. Donostia-San Sebastián. Oral Contribution.

74- **José A. Pomposo**. *Innovative materials for the creative industry: Advanced single chain technology .* AIJU International Event: Challenges of the Creative Industry: From Biomaterials to Customized Products, 2015. Ibi-Alacant. INVITED TALK.

75- **José A. Pomposo**. *Mimicking Nature: Nanotechnology at the Single-Chain Polymer Level.* Event: Challenges, Science and New Materials. Organized by: JAKIUNDE & Donostia-San Sebastián European Capital of Culture 2016 (DSS2016), 2016. Donostia. INVITED TALK.

76- **José A. Pomposo**. *Recent Advances and Opportunities in Single-Chain Polymer Nanoparticles.* Karlsruhe Institute of Technology (KIT). Centre of Excellence in Polymer Chemistry, 2016. INVITED TALK by Prof. Christopher Barner-Kowollik.

77- **José A. Pomposo**. *Single Chain Folding Engineering toward Nanomedicine and Catalysis Applications.* APME 2017 CONGRESS. Ghent. Oral Contribution.

78- **José A. Pomposo**. *Recent advances and opportunities in single-chain polymer nanoparticles.* EPF 2017 CONGRESS. Lyon. Oral Contribution.

79- Daniel E. Martinez-Tong, Edurne Gonzalez, Beatriz Robles, **Jose A. Pomposo**, Angel Alegria. *Laterally-resolved properties of all-polymer composites thin films by high resolution atomic force microscopy*. Functional Polymers 2018. Donostia. Poster.

80- **José A. Pomposo**. Recent Advances and Opportunities in Single Chain Nanoparticles – SCNPs. Functional Polymers 2018. Donostia. Oral Contribution.

81- **José A. Pomposo**. *Single-Chain Polymer Nanoparticles and Its Applications*. 10th ECNP International Conference on Nanostructured Polymers and Nanocomposites. Donostia. Oral Contribution.

82- **José A. Pomposo**. *Advances In Single-Chain Polymer Nanoparticles*. Bordeaux Polymer Conference BPC-2018. Oral Contribution.

83- **José A. Pomposo**. *Metalloenzyme-Mimetic Systems based on Folded Single Polymer Chains for Catalysis Applications*. XXXVII Reunión Bienal de la RSEQ, 2019. Donostia. Oral Contribution.

84- **José A. Pomposo.** *Advances in Metalloenzyme-Mimetic Single Chain Nanoparticles*. 47th IUPAC World Chemistry Congress. 2019. Paris. Oral Contribution.

85- Isabel Asenjo-Sanz, Maite Del-Corte, Jokin Pinacho-Olaciregui, Marina González-Burgos, Edurne González, Ester Verde-Sesto, Arantxa Arbe, Juan Colmenero, **José A. Pomposo**. *Preparation and Preliminary Evaluation of Povidone Single-Chain Nanoparticles as Potential Drug Delivery Nanocarriers*. BioMAPP19. Leioa. Poster.

86- **José A. Pomposo.** *Single-Chain Nanotechnology: Current Status and Opportunities*. IMAGINE NANO 2020 (ONLINE). Keynote speaker.

Recent Advising

- **Post-Doctoral Advising**

  1- **Ester Verde-Sesto** (2019-2022)

  2- **M. González-Burgos** (2018-2019)

  3- **E. González-Gándara** (2016-2018)

  4- **F. Barroso-Bujans** (2011-2015)

  5- **F. Lo Verso** (2014-2016)

  6- **L. Buruaga** (2010-2012)

- **Ph. D. Advising**

  1- **D. Arena** (2020-present)

  2- **J. Pinacho** (2020-present)

  3- **A. Blázquez** (2019-present)

  4- **I. Asenjo-Sanz** (2018-present)

  5- **J. De-La-Cuesta** (Ph.D Dissertation on 2021)

  6- **J. Rubio-Cervilla** (Ph.D Dissertation on 2019)

  7- **M. González-Burgos** (Ph.D. Dissertation on 2017, Doctorate Award)

8- **A. Latorre-Sánchez** (Ph.D. Dissertation on 2017)

9- **A. Sanchez-Sanchez** (Ph.D. Dissertation on 2014, Doctorate Award)

10- **I. Perez-Baena** (Ph.D. Dissertation on 2014)

11- **A. Ruiz de Luzuriaga** (Ph.D. Dissertation on 2010, Doctorate Award)

12- **P. M. Carrasco** (Ph.D. Dissertation on 2009)

13- **P. Calvo** (Ph.D. Dissertation on 2004)

- **Undergraduate & Graduate Advising**

1- **A. Stam** (Master Thesis on 2021)

2- **A. Ruiz** (Undergraduate Thesis on 2021)

3- **A. Aguirre** (Master Thesis on 2020)

4- **A. Encinar** (Master Thesis on 2020)

5- **E. Otegui** (Undergraduate Thesis on 2020)

6- **A. Blánquez** (Master Thesis on 2019)

7- **L. Orbegozo** (Undergraduate Thesis on 2019)

8- **J. Gorospe** (Undergraduate Thesis on 2018)

9- **T. Claros** (Undergraduate Thesis on 2018)

10- **J. Pinacho** (Undergraduate Thesis on 2018)

11- **I. Asenjo-Sanz** (Master Thesis on 2017)

12- **E. Rodríguez-Carreira** (Master Thesis on 2017)

13- **M. Del Corte** (Master Thesis on 2017)

14- **A. Puente** (Undergraduate Thesis on 2017)

15- **J. De la Cuesta** (Master Thesis on 2016)

16- **I. Guruceaga** (Undergraduate Thesis on 2016)

17- **S. Basasoro** (Undergraduate Thesis on 2016)

18- **J. Rubio** (Master Thesis on 2015)

19- **S. Jalilian** (Master Thesis on 2015)

16- **S. Akbari** (Master Thesis on 2012)

17- **P. Khanjani** (Master Thesis on 2012)

18- **S. Montes** (Master Thesis on 2010)

19- **L. Oria** (Eng. Undergraduate Thesis on 2009)

Sponsored Research

- **European Commission Projects**

  1- Nanocomposites with High Colouration Efficiency for Electrochromic Smart Plastic Devices (NANOEFFECTS) / Strep Project

  2- Multifunctional Polymer Materials and Systems with Tailored Mechanical, Electrical and Optical Properties (MULTIPOL) / Strep Project

  3- Bio-Based Functional Materials from Engineering Self-Assembling Peptides (BASE) / Strep Project

  4- Emerging Nano-Patterning Methods (NAPA) / Integrated Project

- **National, Regional, Local & Industry R&D Founded Projects**

  Participation in several National (Plan Nacional de I+D, Consolider), Regional (Etortek, Intek, Saiotek), Local (Gipuzkoako Foru Aldundia, Programa RED) and Industry (Repsol, Kraft, etc.) founded projects

  For recent projects see: http://www.sc.ehu.es/sqwpolim/PSMG/otras.html#Projects