

**FINAL PROGRAM 10<sup>th</sup> ECNP CONFERENCE- 2018-SAN SEBASTIAN, SPAIN**

<b>WEDNESDAY OCTOBER 3<sup>rd</sup></b>			
8:00-9:00	<b>Registration</b>		
8:45-9:00	<b>OPENING WELCOME Room J.C. Baroja</b>		
9:00-9:45	<b>PL1</b>	<b>Juan Colmenero.</b> From single-chain nano-particles to all-polymer nano-structured materials: a combined effort by neutron and X-ray scattering scattering, relaxation techniques and MD simulations.	
9:45-10:15	<b>KN1</b>	<b>Marian Paluch.</b> Structural relaxation time behaviour in bulk and confined glass-forming systems. Two sides of the same coin.	
10:15-10:45	<b>KN2</b>	<b>Rodney D Priestley.</b> Structured Polymer Colloids by Flash NanoPrecipitation	
10:45-11:10	<b>IL1</b>	<b>Daniel Schmidt.</b> Model Polymer Nanolaminates: Providing Key Insights for Understanding Polymer Nanocomposites	
11:10-11:40	<b>COFFEE BREAK Rooms Madera+Música+Blanco.</b>		
		<b>Session Nanostructured Materials (I) Room J.C. Baroja</b>	<b>Special Session Short talks Room Comedor Real</b>
11:40-12:00	<b>OR1</b>	<b>Brigitte Voit.</b> Multifunctional responsive hydrogels as selective compartments and actuators in microfluidic applications.	<b>ST1.</b> S. Garmendia <b>ST2.</b> L. Mezzasalma <b>ST3</b> A. Bossion <b>ST4.</b> P. Bexis <b>ST5</b> C. Jehanno <b>ST6</b> J. Huang <b>ST7</b> B. Orhan <b>ST8.</b> A. Basterretxea <b>ST9.</b> N. Fanjul-Mosteirin <b>ST10.</b> S. Jimaja <b>ST11.</b> A. Pettignano
12:00-12:20	<b>OR2</b>	<b>Benlin Hu.</b> The synthesis, stacking and charge transport of N-doped nanoribbons	
12:20-12:40	<b>OR3</b>	<b>Jesús Del Barrio.</b> Cucurbituril self-assembly from small molecule host-guest complexes to supramolecular polymers.	
12:40-13:00	<b>OR4</b>	<b>Jose A. Pomposo.</b> Single-chain polymer nanoparticles and its applications	
13:00-13:20	<b>OR5</b>	<b>Jacek Ulanski.</b> Self-assembly as a tool for producing high performance organic field effect transistors by solution based methods	
13:30-15:00	<b>LUNCH Rooms Madera+Música+Blanco</b>		
<b>Room J. C. Baroja. Session Energy and Sustainability</b>			
15:00-15:30	<b>KN3</b>	<b>Claudio Gerbaldi.</b> Towards Solid batteries operating at ambient temperature: (composite) polymer electrolytes based on cross-linked PEO	
15:30-16:00	<b>KN4</b>	<b>Pilar Tiemblo.</b> Polymer based electrolytes for energy storage applications.	
16:00-16:25	<b>IL2</b>	<b>Mukundan Thelakkat.</b> Nanostructured Polymers for Energy Conversion and Storage	
16:25-16:45	<b>OR6</b>	<b>Manfred Stamm.</b> Polymers for High Energy Density Batteries	
16:45-17:05	<b>OR7</b>	<b>Eva M. Maya.</b> New quaternary ammonium based poly(ionic liquid)s as sustainable heterogeneous catalyst for CO2 conversion	
17:05-17:25	<b>OR8</b>	<b>Rodrigo Navarro.</b> Synthesis of Thermoplastic Polyurethanes Based on Novel Macrodiols Obtained From the Hydrolysis of PET	
17:25-17:50	<b>KN5</b>	<b>Andreas Fery.</b> Polymer/colloid surface assemblies: towards multi-scale optical materials	
17:50-19:30	<b>POSTER SESSION&amp;CONFERENCE RECEPTION</b>		

**THURSDAY October 4<sup>th</sup>**

**Room J. C. Baroja**

9:00-9:45	<b>PL2</b>	<b>Rachel O'Reilly.</b> Nucleobase containing materials-Recognition and assembly	
9:45-10:15	<b>KN6</b>	<b>Sebastien Lecommandoux.</b> Biomimetic polypeptide-based nanostructures in (nano) medicine	
10:15-10:45	<b>KN7</b>	<b>Maria Paulis.</b> Encapsulation of fluorescent quantum dot nanoparticles into waterborne polymer particles	
10:45-11:10	<b>IL3</b>	<b>Kun Liu.</b> Quantification of poly (ethylene glycol) grafting density on gold nanoparticles by nuclear magnetic resonance spectroscopy.	
11:10-11:40		<b>COFFEE BREAK</b> <b>Rooms Madera+Música+Blanco.</b>	
		<b>Session Nanocomposites</b> <b>Room J. C. Baroja.</b>	<b>Special Session Short talks</b> <b>Room Comedor Real.</b>
11:40-12:00	<b>OR9</b>	<b>Millicent A. Firestone</b> Preparation of heterofunctional (binary) nanoparticle polymer composites for solid-state photonics	<b>ST12.</b> K. Pirnat <b>ST13.</b> T. C. Correas <b>ST14.</b> L. Fernandes <b>ST15.</b> F. Luzi <b>ST16.</b> P. Malo de Molina <b>ST17.</b> M. Martinez-Ibañez <b>ST18.</b> S. Kizil <b>ST19.</b> S. Moreno <b>ST20.</b> R. Seoane-Rivero <b>ST21.</b> N. Goujon <b>ST22.</b> N. Zivic
12:00-12:20	<b>OR10</b>	<b>Ilja Gunkel.</b> Generating three-dimensional order in gyroid terpolymer films.	
12:20-12:40	<b>OR11</b>	<b>Andrzej Rybak.</b> Highly aligned graphene-LDPE nanocomposites as gas barrier materials for industrial applications.	
12:40-13:00	<b>OR12</b>	<b>Beate Krause.</b> Influence of Carbon Nanotube Type on Different Properties of Thermoplastic Polymer Composites	
13:00-13:20	<b>OR13</b>	<b>Jimena González.</b> Sandwich nanocomposite hydrogels for protein delivery	
13:30-15:00		<b>LUNCH - POSTER SESSION</b> <b>Rooms Madera+Música+Blanco</b>	
<b>Room J. C. Baroja. Session Nanostructured Electronic/Magnetic/Ionic Materials</b>			
15:00-15:30	<b>KN8</b>	<b>Christian Müller.</b> Bulk Doping Strategies for Plastic Thermoelectrics	
15:30-15:55	<b>IL4</b>	<b>Miriam Strumia</b> Implications of the synthesis design of magnetic theranostic systems	
15:55-16:15	<b>OR14</b>	<b>Antoine Lonjon.</b> Magnetolectric Properties of nanocomposites P(VDF-TrFE)/Nickel Nanowires	
16:15-16:35	<b>OR15</b>	<b>Jiri Pflieger.</b> Application of high-k cyanoethylated poly (vinyl alcohol) dielectrics in organic electronic devices.	
16:35-16:55		<b>COFFEE BREAK Rooms Madera+Música+Blanco.</b>	
16:55-17:20	<b>IL5</b>	<b>Jason Bara</b> High-Performance Ionenes – New Approaches to Constructing Charged Polymers around Ionic Liquids	
17:20-17:55	<b>IL6</b>	<b>Jannick Duchet-Rumeau.</b> Ionic liquids: a new route to manage structuration in polymer materials	
17:55-18:15	<b>OR16</b>	<b>Valeria Cherubini.</b> Ionomer effect on Mechanical properties, Crystallization and Morphology of EPDM/POM blend	
20:00-23:00		<b>CONFERENCE DINNER</b>	
<b>FRIDAY OCTOBER 5<sup>th</sup></b>			
<b>Room J. C. Baroja</b>			

9:00-9:45	<b>PL3</b>	<b>Marc A. Hillmyer.</b> Harnessing disorder in self-assembled block polymers for functional nanostructures.	
9:45-10:15	<b>KN9</b>	<b>Annette M. Schmidt.</b> Exploiting Particle-Matrix Interactions in Complex Soft Matter	
10:15-10:40	<b>IL7</b>	<b>Eric Drockenmuller.</b> Poly (1, 2, 3-triazolium)s: functional and dynamic polymer electrolytes.	
10:40-11:05	<b>IL8</b>	<b>Christophe Detrembleur.</b> A robust and versatile process for converting CO <sub>2</sub> into new families of regioregular and functional polymers	
11:05-11:40		<b>COFFEE BREAK</b> <b>Rooms Madera+Música+Blanco.</b>	
		<b>Session Nano- Materials (II)</b> <b>Room J. C. Baroja.</b>	<b>Session Nanobiomaterials</b> <b>Room Comedor Real</b>
11:40-12:00	<b>OR17</b>	<b>F. Barroso-Bujans.</b> Synthesis of cyclic polyethers with orientation of the dipolar moment along the chain contour	<b>OR21</b> <b>Marcelo Calderón.</b> Protease degradable nanogels with fluorogenic reporter for theranostic applications
12:00-12:20	<b>OR18</b>	<b>Leire Ruiz-Rubio.</b> Hybrid polymer-polyoxometalate assemblies as precursors of advanced materials	<b>OR22</b> <b>Thomas Defize.</b> Coumarin-based poly( $\epsilon$ -caprolactone) for light-controlled design and remodeling of shape-memory networks
12:20-12:40	<b>OR19</b>	<b>Catarina P. Gomes.</b> Exploiting RAFT polymerization to tailor vehicles for uptake and release of polyphenols	<b>OR23</b> <b>Luciano F. Boesel.</b> Nanophase-separated, functional APCNS for biomedical applications
12:40-13:00	<b>OR20</b>	<b>Martin Steinhart.</b> Non-classical Surface patterning with (sacrificial) spongy block copolymer monoliths	<b>OR24</b> <b>Aitor Larrañaga.</b> Fabrication of nanostructured polymer films based on bioresorbable polyesters and graphene oxide to promote neurodifferentiation of stem cells
13:00-13:30		<b>Special Session Short talks</b> <b>ST23.</b> B. Robles-Hernández <b>ST24</b> D.E. Martinez-Tong <b>ST25</b> O. Ofoegbu	
13:30-15:00		<b>LUNCH</b> <b>Rooms Madera+Música+Blanco.</b>	
		<b>Room J. C. Baroja. Session Nanostructured Materials (III)</b>	
15:00-15:20	<b>OR56</b>	<b>Lars Berglund.</b> Chitin fibrils in organisms and man-made materials	
15:20-15:40	<b>OR26</b>	<b>Florent Dalmas.</b> Self-repairing silicone materials: links between supramolecular interactions, microstructure and thermomechanical behavior	
15:40-16:00	<b>OR27</b>	<b>Nikolaos Politakos.</b> 3D-Porous graphene and graphen-polymer composite materials for selective CO <sub>2</sub> capture	
16:00-16:20	<b>OR28</b>	<b>Juan M. Giussi.</b> Responsive soft-nanopillars with tunable induced changes	
16:20-16:45	<b>IL9</b>	<b>Beata Luszczynska.</b> Organic photodetectors and photovoltaics – influence of space charge limited current and unbalanced mobilities on device parameters	
16:45-17:00		<b>CLOSING REMARKS</b>	

## Special Session Short Talks

- ST1** - S. Garmendia. Bioinspired Ionically reversibly-crosslinked Single Chain Polymeric Nanoparticles as N-Heterocyclic Carbene Recyclable Nanoreactors for Organocatalysis
- ST2** - L. Mezzasalma. Weak Acid Organocatalysts Towards Metal-Free Random-Like Copolymers Of L-LA And  $\epsilon$ -CL.
- ST3** - A. Bossion. One-Pot Synthesis Of Segmented Poly(Hydroxyurea-Urethane)S From Dicyclic Carbonates And Diamines Using Organocatalysis
- ST4** - P. Bexis. Functional and degradable poly(ester-carbonate)s via organocatalytic ROP: Statistical structures, homo/hetero-stereocomplexation possibilities and properties
- ST5** - C. Jehanno. An innovative organocatalyst for the depolymerisation of commodity polymers :From plastic wastes to valuable monomers
- ST6** – J. Huang, Chemoselective. Synthesis Of Six-Membered Cyclic Carbonates From CO<sub>2</sub> And Oxetane Derivatives Using Organocatalysts: Meeting The Challenge Of Green Chemistry
- ST7** - B. Orhan. Stereoselective organocatalytic ring-opening polymerizations (rop) of rac-lactide
- ST8** - A. Basterretxea. Synthesis Of Polyethers In The Presence Of A Protic Ionic Liquid Organocatalyst
- ST9** - N. Fanjul-Mosteirín. Synthesis Of Non-Isocyanate Poly Urethane (NIPU) Thermo-Responsive Hydrogels
- ST10** - S. Jimaja. Catalytic Synthesis Of Functionalisable Polyisocyanides
- ST11** - A. Pettignano. Facile And Efficient Thermal Amidation Of Carboxymethyl Cellulose For The Design Of Novel Materials
- ST12** – K. Pirnat. Polycatechol Nanoparticles As Cathodes In Li-Organic Battery
- ST13** – T. Calvo Correias. Analysis Of The Biocompatibility Of Magneto-Responsive Polyurethane Nanobiocomposites
- ST14** - L. Fernandes. Magnetic Ionic Liquid Based Polymer Composites As Sensors And Actuators
- ST15** - F. Luzzi. Design Of Biobased Plasticized PLA\_PHB Blend Reinforced With Cellulose Nanocrystals
- ST16** - P. Malo de Molina. Effect Of The Nanofiller Topology On The Dynamics Of Entangled Linear Matrices
- ST17** - M. Martínez-Ibañez. Beyond PEO: New Solid Polymer Electrolytes For Decreasing The Operational Temperature Of All Solid-State Lithium Metal Batteries
- ST18** – S. Kizil. Synthesis, characterization and swelling performance of PEG based amphiphilic polymer sorbents
- ST19** – S. Moreno. Smart Multifunctionalized And Responsive Polymersomes As Selective Recognition Systems
- ST20** - R. Seoane-Rivero. Synthesis and characterization of photo-reactive polyurethanes bearing coumarin moieties in hard or Soft segment
- ST21** – N. Goujon. Solid Polymer Electrolyte-Based On Polymerized Ionic Liquid Block Copolymer: How To Enhance Li<sup>+</sup> Transport Properties While Preserving Polymer Mechanical Integrity
- ST22** – N. Zivic. Synthesis And Study Of New Photobase Generators For 3d Printing Of Biodegradable Polymers
- ST23** – B. Robles-Hernández. Water Dynamics In Concentrated Solutions Of Single Chain Nano-Particles
- ST24** - D.E. Martínez-Tong. Nanomechanical And Tribological Mapping Of Laser-Structured Poly(Ethylene Terephthalate)/Expanded Graphite Nanocomposites
- ST25** - O. Ofoegbu. Extraction And Characterization Of The Bio Polymer ‘Chitosan’, From The Exoskeleton Of Millipede (Eurymeresmus Spp.)

**POSTER SESSION. (Wednesday 3rd October 2018. 17:50-19:00)**

- 1** Rana Al Nakib, Antoniya Toncheva, Jean-Marie Raquez and Franck Meyer. Synthesis And Characterization Of Anti-Bacterial Functionalized Polyurethane With Quaternary Salts
- 2** Ahlam I. Al-sulami A and Nikos Hadjichristidis A. Synthesis of Amphiphilic Copolymers of Hyperbranched Polyethylene-based Core through a Combination of Living CWCP and ATRP
- 3** Andere Basterretxea, Elena Gabilondo, David Mecerreyes, Olivier Coulembier and Haritz Sardon. Synthesis Of Polyethers In The Presence Of A Protic Ionic Liquid Organocatalyst
- 4** Seda Bayraktaroglu, Soner Kizil and Hayal Bulbul Sonmez. Cleaning Of Oil From Water Surface By Using Pdms Based Cross-Linked Sorbent
- 5** Amaury Bossion, Robert H. Aguirresarobe, Lourdes Irusta, Daniel Taton, David Mecerreyes, Cui Su, Guoming Liu, Alejandro J. Müller and Haritz Sardon. One-Pot Synthesis Of Segmented Poly(Hydroxyurea-Urethane)S From Dicyclic Carbonates And Diamines Using Organocatalysis
- 6** Mario Bragaglia, Valeria Cherubini, Marianna Rinaldi and Francesca Nanni. Peek-Titanium Dioxide 3d Printable Filaments: Influence Of TiO<sub>2</sub> On UV.
- 7** Leire Urbina, Phavit Wongsirichot, Tamara Calvo-Correas, María Ángeles Corcuera, Arantxa Eceiza, James Winterburn, Aloña Retegi. Sustainable Production Of Polyhydroxyalkanoates From Cider Waste
- 8** H. Chabane, J.F. Gérard, J. Duchet-Rumeau, S. Livi. Synthesis, Characterization, and Grafting of Imidazolium Ionic Liquids Based on Heptaisobutyl-POSS for Designing Novel Nanostructured Epoxy Networks
- 9** Valeria Cherubini, Francesca Romana Lamastra, Francesca Nanni and Tony McNally (2). . High Performance PEI/Fe<sub>3</sub>O<sub>4</sub> high performance PEI/Fe<sub>3</sub>O<sub>4</sub> filaments for 3D printed EMI reduction devices.
- 10** Eun Yeob Choj, So Min Lee, Jeong Ung Nam, Chang Keun Kim. Fabrication of nylon 6,6 grafted- (carbon nanotubes grafted on carbon fibers) for the multi-scale reinforcement of nylon 6,6 composites.
- 11** A.J. Chong Santiago, R. Mendoza Serna, M. Caballero Diaz, J.O. Flores Flores, J.C. Armas Pérez. Bioactivity Of Silicone Materials Sintetized With Teos, Mtes And Teos-Mtes Through The Sol-Gel Process.
- 12** R. Mendoza Serna, A. J. Chong Santiago, C. J. Martínez Gómez, A. Hernández Fernandez and M. Caballero Diaz. Distribution of the pore size of a mixed system of sio<sub>2</sub>-ga<sub>2</sub>o<sub>3</sub> synthesized by the sol-gel process. SAME AUTHOR/2 POSTER
- 13** M. Caballero Díaz, R. Mendoza Serna, L. Valdez Castro , G.A. Del Ángel Montes, A. J. Chong Santiago. Hydrogen production through of ruthenium catalysts supported on  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> synthesized by wet impregnation

- 14 M. Criado, C. Mijangos and R. Hernández. Nanostructured Polysaccharide Films: From Preparation To Applications.
- 15 D. Daubian, J. Gaitzsch, and W. Meier. Synthesis and self-assembly of amphiphilic PEO-b-PEHOx polymers into multicompartment micelles.
- 16 Claudia María De León-Almazán, Iván Alziri Estrada-Moreno and José Luis Rivera-Armenta. Electrical conductivity behavior in pani/ommt/sebs composites prepared by low-temperature processing.
- 17 Grayson P. Dennis, Kathryn E. O'Harra, John W. Whitley, Enrique M. Jackson and Jason E. Bara. Effects of Regiochemistry on the Properties and Gas Separation Performances of Ionic Polyimides
- 18 Laetitia Dentzer, Jannick Duchet-Rumeau, Delphine Fleury, Ludovic Devant and Jean-François Gérard. Formaldehyde-free and environmentally friendly phenolic-like resin - study of the condensation reaction under highly diluted conditions.
- 19 Mónica Cobos, Bernardina González, María Jesús Fernández and María Dolores Fernández. Chitosan Nanocomposites Based On Graphene And Graphene Oxide: A Comparative Study Of Effect Of Glycerol Plasticizer And Graphenic Filler Content On Properties.
- 20 L. García Andújar, C. Baguenard, P.Gaillard, A-L. Brocas, S. Bourrigaud, M. Save C. Dérail and L.Rubat. Study of the out-of-equilibrium block copolymer self-assembly process, toward an innovative industrial implementation.
- 21 Francesca Colò, Federico Bella, Giulia Piana, Marisa Falco, Jijeesh R. Nair,† Giuseppina Meligrana and Claudio Gerbaldi. Cheap And Easily Processable Polymer Electrolytes For Sodium-Based Batteries.
- 22 Alvaro Gomez-Lopez, Lourdes Irusta, Iñigo Calvo and Haritz Sardon. Sustainable Adhesives Based On Non-Isocyanates Polyurethanes (NIPUS).
- 23 E. Gutiérrez-Fernández, I. A. Gabaldón-Saucedo, M.C. García-Gutiérrez, A. Nogales, A. Rodríguez-Rodríguez, A. Cirera, A. Varea, A. Vilà, T.A. Ezquerro and E. Rebollar. Nanostructuring of PEDOT:PSS thin films by laser and its influence on its electrical properties.
- 24 E. Gutiérrez-Fernández, T.A. Ezquerro, A. Nogales, Semiconducting Polymer Nanoparticles: Physical Properties And Potential Applications
- 25 Hamidreza Hedayati, Manouchehr Khorasani, Nicholas Ballard and Jose M. Asua. Suspension polymerization of vinyl acetate using low temperature initiators.
- 26 Jason Hui and Steve Edmondson. Improving the interface of boron nitride nanosheets with Bisphenol-A epoxy resins through the adsorption of functional polymers.
- 27 Alejandra Jacobo-Martín, Iván Navarro-Baena, Jaime J. Hernández , Manuel R. Osorio , Miguel A. Monclús , Jon M. Molina-Aldarequia and Isabel Rodríguez . Mechanically enhanced nanostructured polymer nanocomposite surfaces.

- 28 Coralie JEHANNO, Fernando RUIPEREZ, Andrew DOVE and Haritz SARDON. An innovative organocatalyst for the depolymerisation of commodity polymers : from plastic wastes to valuable monomers.
- 29 Iwona Blaszczyk-Lezak, Diana Juanes, Laia León, Rebeca Hernández, Jaime Martín and Carmen Mijangos. Gecko-like polymeric nanostructures from nanoporous templates.
- 30 Kizkitza González, Clara García-Astrain, Arantzazu Santamaria-Echart, Lorena Ugarte, Luc Avérous, Arantxa Eceiza, Nagore Gabilondo. Tailor-made starch-based hydrogels by means of 'click' cross-linking strategies.
- 31 Olatz Guaresti, Kizkitza González, Arantxa Eceiza and Nagore Gabilondo. Thiolated chitosan based hydrogels using Michael addition and by controlling the macromolecular architecture.
- 32 Piotr Rzeczkowski, Beate Krause, Suryasarathi Bose and Petra Pötschke. Characterization Of Highly Filled PP/Graphite Composites For Fuel Cell Application
- 33 K. Kunz, B. Krause, L. Juhasz, W. Jenschke, M. Ullrich and P. Pötschke. Direction Dependent Electrical Conductivity Of Polymer/Carbon Filler Composites.
- 34 Gabriel Arner, Izaskun Larraza, Olatz Guaresti, Leire Urbina, Aloña Retegi, Arantxa Eceiza and Nagore Gabilondo. Bacterial Cellulose Nanofibrils Embedded In In Situ Formed Chitosan/Alginate Particles.
- 35 Izaskun Larraza, Julen Vadillo, Oihane Echeverria, Álvaro Tejado, Maider Azpeitia, Eneritz Vesga, Ander Orue, Aitor Arbelaiz and Arantxa Eceiza. Synthesis and characterization of a waterborne polyurethane reinforced with chemically modified cellulose nanofibers.
- 36 Thibaut LEFORT, Jannick DUCHET, Damien BACHELLERIE, Cong Thanh VU, Sébastien LIVI, Paul VINSON, Alain GIRODET and Sébastien PRUVOST. Electrical properties of epoxy systems based on ionic liquids.
- 37 Laia León and Carmen Mijangos. Hydrophilic/Hydrophobic Polymeric Nanostructures From Nanoporous AAO Reactors
- 38 Ana-Maria LUCHIAN, Traian ZAHARESCU, Eduard-Marius LUNGULESCU, Maria RÂPĂ, Gabriela SBÂRCEA and Horia IOVU. SIS effects on the radiation processing of PLA.
- 39 Chiara Magnani, Paloma Cabecas Segura, Baptiste Leroy, Ruddy Wattiez, Philippe Dubois, Jean-Marie Raquez. Design of biosourced PHBV nanocomposites by addition of biodegradable nanofillers.
- 40 Sara Marina, Jaime Martin. Determining the glass transition temperature of high-performing polymer-based photovoltaic blends
- 41 Liliana C. Tomé, Ana P. S. Martins, João G. Crespo, Isabel M. Marrucho. SPRAY Coated thin film composite membranes based on poly(ionic liquid)s for CO<sub>2</sub> separation.
- 42 Giovanni Maria Matrone, Artem Levitsky, Fabian Panzer, Konstantin Schotz, Felix Thouin, Ilaria Bargigia, Carlos Silva, Anna Kohler, Gitti Frey, Lee J. Richter and Natalie Stingelin. Not all roads lead to

phase separation — A polymer science approach to predict and manipulate the morphology of bulk heterojunctions solar cells.

- 43 A.C. Mellinas, A. Jiménez, M.C. Garrigós. Microwaves-assisted synthesis of zinc oxide nanoparticles using cocoa seed extracts.
- 44 Leila MEZZASALMA, Julien De Winter, Pascal Loyer, Daniel TATON and Olivier COULEMBIER. Weak Acid Organocatalysts Towards Metal-Free Random-Like Copolymers Of L-LA And  $\epsilon$ -CL.
- 45 Islam M. Minisy, Patrycja Bober, Udit Acharya, Jiří Pflieger, Miroslava Trchová and Jaroslav Stejskal. Polypyrrole Prepared In The Presence Of Safranin Or Phenosafranin: The Tuning Of Morphology And Conductivity.
- 46 Jeong Ung Nam, So Min Lee, Eun Yeob Choi and Chang Keun Kim. Fabrication of polyketon/polyketone grafted multi-walled carbon nanotube composites using a Grignard reagent containing pyrene derivative
- 47 O’Harra, Kathryn E.; DeVriese, Emily M; Noll, Danielle M.; Dennis, Grayson P.; Jackson, Enrique M. and Bara, Jason E. Design Of Sophisticated Ionene-Polymer Hybrids For Separation Membranes.
- 48 Jordan OCHS, Angel ALEGRIA and Fabienne BARROSO-BUJANS. Ring Opening Polymerization And CuAAC Reaction For The Synthesis Of Pure Monocyclic Polyethers.
- 49 María del Rosario Mejía Cuero, Elena Colín Orozco, Guillermo Jesús Cruz Cruz, Cuauhtémoc Palacios González, Lidia María Gómez Jiménez, Maribel González Torres and María Guadalupe Olayo González. Conductivity and electromagnetic absorption of polyfuran films functionalized with cuxcoyoz particles.
- 50 Jorge L. Olmedo Martínez, Andere Basterretxea, Haritz Sardon, Leire Meabe, Alejandro J. Müller and David Mecerreyes. Effect Of Chemical Structure And Salt Concentration On The Ionic Conductivity And Crystallization Of Different Polyethers.
- 51 A. Orue, A. Eceiza and A. Arbelaiz. Thermoplastic Starch Composites Reinforced With Cellulose Nanofibers Isolated From Sisal Fibers.
- 52 E. R. Osorio Blanco, M. Giubudagian, F. Rancan, K. Yamamoto, J. Jurisch, F. Sahle, G. Yealland, J. Bergueiro, S. Hedtrich, E. Rühl, A. Vogt, U. Blume-Peytavi, J. Lademann and M. Calderón. Thermoresponsive nanogels and nanocapsules for dermal delivery of therapeutics.
- 53 M. Perchacz, A. Rozanski, A. Pawlak and A. Galeski. Cavitation in nanomaterials composed of HDPE matrix and  $Al_2O_3$  nanopowder.
- 54 Jean-Emile Potaufoux, Delphine Notta-Cuvier, Jérémy Odent, Franck Lauro, Jean-Marie Raquez, Philippe Dubois. Organic-inorganic ionic polylactide based hybrids.
- 55 Francesca Romana Lamastra , Marianna Rinaldi , Lucia Pigliaru and Francesca Nanni. High Performance PEI/ $Fe_3O_4$  Filaments For 3D Printed EMI Reduction Devices



- 56 Raphaël Riva, Thomas Defize, Jean-Michel Thomassin, Niels Van Herck, Filip Du Prez and Christine Jérôme. Design of reprocessable poly( $\epsilon$  caprolactone)-based shape-memory materials by reversible tad chemistry.
- 57 Jennifer Rodon Fores, Fouzia Boulmedais, Pierre Schaaf, and Loïc Jierry. Spatio-temporal control of the peptide self-assembly for the design of hydrogels.
- 58 Ana Belén Ruiz–Muelle, Rafael Contreras-Cáceres, Pascual Oña-Burgos, Juan Manuel López-Romero, Petra Uhlmann and Ignacio Fernández. A NEW Plasmonic Surface Based On Gold Nanoparticles With Diverse Shape And Redox-Active Organic Molecules.
- 59 Ainara Sangroniz, Marian Iriarte and Agustin Etxeberria. Are biodegradable polymers good barrier materials for organic solvents?
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