

CONFERENCIAS PLENARIAS (PL) / PLENARY LECTURES

PL-1	70 años de Polímeros en nuestro país. Retos en la Academia y en la Industria Carmen Mijangos
PL-2	Functionalisation of 1D and 2D Nanomaterials for Interaction with Polymers Tony McNally
PL-3	Reconstructing the cell-matrix and cell-cell interfaces with synthetic materials Aránzazu del Campo
PL-4	The route to double and triple crystalline polymeric superstructures: Templating polymer crystallization in diblock copolymers and triblock terpolymers Alejandro J. Müller
PL-5	What does “sustainable” mean in the polymer context? Tony Ryan

Comunicaciones orales (O) / Oral presentations (O)**PRO. Procesado, procesos industriales y reciclado de polímeros****PRO. Processing, industrial processes and recycling of polymers**

Ref	Título / Title Autores / Authors	pag
PRO-O1	Chain extension and crosslinking as methods for upgrading mechanically recycled PLA F.R. Beltrán, C. Infante, M.U de la Orden, J. Martínez Urreaga	225
PRO-O2	Effects of ageing and mechanical recycling on the thermal crystallization of poly(lactic acid) J. Martínez Urreaga, F.R. Beltrán, V. Lorenzo, M.U de la Orden	227
PRO-O3	An innovative organocatalyst for the depolymerisation of commodity polymers: from plastic wastes to valuable monomers C. Jehanno, F. Ruipérez, A.P. Dove, H. Sardon	229
PRO-O4	Multi-scale surface analysis on polypropylene micro-textured injected samples using 3D non-contact techniques P. Gamonal-Repiso, M. Sánchez-Soto, S. Santos-Pinto, M. Ll. Maspoch	231
PRO-O5	Study of crosslinking process with organic peroxides to polyolefin recycled matrixes to be used in high-value applications L.E. Alonso, K. Nuñez, M.A. Morcillo, J.C. Merino, J.M. Pastor	233
PRO-O6	Rheological characterization of polyethylene(terephthalate) modified by reactive extrusion M. Asensio, J. Guerrero, K. Núñez, M. Herrero, J.M. Pastor	235
PRO-O7	Process parameters and screw configurations for compounding of feedstock and batch mixer tests on MIM materials B. Jakob, D. Hauch	237

Comunicaciones orales (O) / Oral presentations (O)		
REO Reología y propiedades mecánicas de polímeros y materiales compuestos.		
REO Rheological and mechanical properties of polymers and composite materials		
Ref	Título / Title Autores / Authors	pag
REO-01	Effect of carboxylated HNBR content on the compatibilization of PA6/HNBR immiscible blends. Analysis of morphology, viscoelastic behavior and mechanical properties A. Burgoa, R. Hernández, J. L. Vilas	243
REO-02	Controlled actuation in thermally-triggered free-standing shape-memory actuators A. Belmonte, G. Lama, P.F. Cerruti, V. Ambrogi, X. Fernández-Francos, S. de la Flor	245
REO-03	In situ gelification of κ -carrageenan solutions by 3D printing I. Diañez, C. Gallegos, E. Brito-de la Fuente, I. Martínez, C. Valencia, M.C. Sánchez, J.M. Franco	247
REO-04	Thermoplastic solid electrolytes for energy storage F. J. González, V. Gregorio, A. Rubio, L. Garrido, N. García, P. Tiemblo	249
REO-05	Tailoring PLA/PA bioblends for 3D printing applications via the manufacturing of in situ microfibrillar composite filaments V. García-Masabet, J. Cailloux, O. Santana, M. Sánchez-Soto, F. Carrasco, M. Ll. MasPOCH	251
REO-06	Formation of sweet fennel oil-in-water emulsions stabilized by a triblock polymer (Pluronic F68) and rhamnan gum L.A. Trujillo-Cayado, L.A. Báez, P. Ramírez, J. Santos, M.C. Alfaro, J. Muñoz	253
REO-07	Approaching short time dynamics of polymer solutions by passive microrheology J.F. Vega, A. Espasa-Valdepeñas, V. Cruz, J. Ramos, A.J. Müller, J. Martínez-Salazar	255
REO-08	An analysis of the hydrogen bonds of modified phenoxy resins by SAOS, LAOS and extensional flow L. Sangroniz, A. Sangroniz, M. Fernández, A. J. Müller, A. Etxeberria, A. Santamaria	257
REO-09	Improvement of film formation abilities of waterborne latex particles for coating applications S. M. Dron, M. Paulis	259

Comunicaciones orales (O) / Oral presentations (O)		
SCP Síntesis y caracterización de polímeros		
SCP Synthesis and characterization of polymers		
Ref	Título / Title Autores / Authors	pag
SCP-O1	Supramolecular amphiphilic linear-dendritic block copolymers self-assemblies as stimuable nanocarriers M. Abad, A. Martínez, L. Oriol, M. Piñol	13
SCP-O2	Development of novel covalent organic frameworks J.L. Segura, S. Royuela, A. de la Peña, M.J. Mancheño, M. Alonso, P. García Arroyo, F. Zamora, C. Seoane, M.M. Ramos	15
SCP-O3	Self-assembled amphiphilic elastin like diblock co-recombinamer: Insights into hierarchical nanostructuration S. Acosta-Rodríguez, L. Poczka, M. Alonso, J.C. Rodríguez-Cabello	17
SCP-O4	A comprehensive study of microwave initiated solution copolymerization of MMA/BA: Effect on reactivity ratios B.T. Pérez-Martínez, R. Tomovska	19
SCP-O5	Advanced TGA techniques in the characterization of polymers C. Gracia-Fernández	21
SCP-O6	Resolving the interphase of hierarchical composites of graphene/iPP and carbon fibres by nanoindentation P. Enrique-Jiménez, S. Quiles-Díaz, H. J. Salavagione, M.A. Gómez-Fatou, F. Ania, A. Flores	23
SCP-O7	Novel anti-inflammatory surface coatings combining GAGs and amphiphilic copolymer-based nanoparticles multilayers E. Espinosa-Cano, H. Al-Khoury, MR. Aguilar, A. González-Gómez, F. Syrowatka, G. Schmidt, T. Groth, J. San Román	25
SCP-O8	Dual-curable click thermosets with custom tailored properties O. Konuray, A. Serra, X. Fernández-Francos, J.M. Maria Salla, J.M. M. Morancho, X. Ramis	27
SCP-O9	Synthesis of PET using organocatalysis I. Flores, H. Sardon, A. J. Müller	29
SCP-O10	Fundamentals and computer programs for prediction and analysis of experimental data in size-exclusion chromatography with multiple detection. Determination of conformational parameters J.G. Hernández Cifre, J. García de la Torre	31
SCP-O11	Synthesis of acrylic PSAs by free radical polymerization O. Llorente, L. Irusta, A. González, J.R. Leiza, M. Olaso, I. Calvo, A. Agirre	33
SCP-O12	Electrostatic interaction for high performance of waterborne coatings M. Argaiz, M. Aguirre, R. Tomovska	35

Comunicaciones orales (O) / Oral presentations (O)		
SCP Síntesis y caracterización de polímeros		
SCP Synthesis and characterization of polymers		
Ref	Título / Title Autores / Authors	pag
SCP-O13	Thermo-reversible PCL-based supramolecular polyurethanes with self-healing and shape memory behaviour F. Muscas, V. Sessini, R. Navarro, R.P. Aparicio, J.L. Valentín, A. González-Jiménez, L. Peponi, A.J. López, J. Rams, A. Ureña, A. Marcos-Fernández	37
SCP-O14	Improvement in gas transport performance of porous polyphenylenes/polycarbonate mixed matrix membranes L. Rodríguez-Jardón, M. Iglesias, E.M. Maya, M. López-González	39
SCP-O15	Cu(0) wire-catalyzed SET-LRP of the hydrophobic biobased menthyl acrylate N. Bensabeh, J.C. Ronda, M. Galià, V. Cádiz, V. Percec, G. Lligadas	41
SCP-O16	Preparation of thermoplastic polyurethanes from macroglycols obtained from recycled PET R. Navarro, R. Miguel-Aleza, R. Seoane-Rivero, J.M. Cuevas, A. Asueta, A. Marcos-Fernández	43
SCP-O17	Incorporation of hydrogen bonding for high performance waterborne coatings N. Jimenez, N. Ballard, J.M. Asua	45
SCP-O18	Effect of mesoporous SBA-15 content in the catalytic characteristics and properties of in situ polymerized isotactic polypropylene (nano)composites R. Barranco-García, A. García-Peñas, J. Ressoa, L.M. Quinzani, E.M. Vallés, M.R. Ribeiro, J.M. Gómez-Elvira, E. Pérez, M.L. Cerrada	47
SCP-O19	Lipase catalysed functionalization of polyol polyesters for potential UV crosslinked elastomers A. Sonseca, A. Muñoz-Bonilla, L. Peponi, M. Fernández-García, D. López	49
SCP-O20	Chiroptical polymer switch triggered by chiral teleinduction (CO) R. Rodríguez, E. Quiñoá, F. Freire	51
SCP-O21	An introduction of scientific instruments for polymers and biopolymers characterization J. C. Puebla	53
SCP-O22	Characterization of polymers using hyphenated techniques, TG-IR-GCMS J. Puente	A11
SCP-O23	Lossless and rapid sample preparation for oscillatory rheology and DMTA via a novel vacuum compression molding process D. Treffer	A9
SCP-O24	Mixed matrix membranes from porous polymer networks with improved gas separation properties C. Aguilar-Lugo, J.A. Miguel, A. Hernández, J. G de la Campa, C. Álvarez, A. E. Lozano	

Comunicaciones orales (O) / Oral presentations (O)		
BIO Polímeros biodegradables, biopolímeros y biomateriales		
BIO Biodegradable polymers, biopolymers and biomaterials		
Ref	Título / Title Autores / Authors	pag
BIO-O1	Is this a good bioink? Designing printable medical adhesive M. K. Włodarczyk-Biegun, J. Paez, J. Feng, M. Villiou, A. del Campo	93
BIO-O2	In vivo biocompatible and bioadhesive interpenetrated scaffolds for wound closure and tissue regeneration processes M. Puertas-Bartolomé, L. Benito-Garzón, S. Fung, J. Kohn, B. Vázquez-Lasa, J. San Román	95
BIO-O3	Synthesis and biological characterization of 3D bioprinted scaffolds using novel phytate crosslinke A. Mora-Boza, M. K. Włodarczyk-Biegun, A. del Campo, B. Vázquez-Lasa, J. San Román	97
BIO-O4	Structure and crystallization of poly(butylene succinate-ran-butylene azelate) random isodimorphic copolyesters I. Arandia, A. Mugica, M. Zubitur, A. Arbe, A. Alegria, G. Liu, D. Wang, R. Mincheva, P. Dubois, A.J. Müller	99
BIO-O5	Potential of lignocellulosic fractions from Posidonia oceanica to improve barrier and mechanical properties of bio-based packaging materials I. Benito-González, A. López-Rubio, M. Martínez-Sanz	101
BIO-O6	Bioplastics from wool proteins B. Fernández-d'Arlas, A. Eceiza	103
BIO-O7	Synthesis of amphiphilic graft-copolymers derived of globalide and alpha-amino acids E. Tinajero-Díaz, A. Martínez-de Ilarduya, Andreas Heise, S. Muñoz-Guerra	105
BIO-O8	Design and development of new hyaluronic acid-chitosan hydrogels for cartilage regeneration. L. García-Fernández, A. Torrent, E. Montell, J. San Román	107
BIO-O9	PHA-based blends and composites: new materials for sustainable packaging applications L. Cabedo, E. Sánchez-Safont, A. Aldureid, T. Aznar, A. Arrillaga, J. Anakabe, S. Torres-Giner, J.M. Lagarón, J. Gámez-Pérez	111
BIO-O10	Random and oriented electrospun fibers based on a multicomponent, in situ clickable elastin-like recombinamer system for dermal tissue engineering I. González de Torre, A. Ibáñez-Fonseca, L. Quintanilla, M. Alonso, J. C. Rodríguez-Cabello	113
BIO-O11	Novel biodegradable NIR responsive diblock copolymers for drug delivery systems A. Roche, E. Terriac, A. del Campo, R.M. Tejedor, L. Oriol, M. Piñol	115
BIO-O12	Ferrogels coated with multilayered polyelectrolytes from natural resources J. S. González, G. Goya, C. Mijangos, R. Hernández	117
BIO-O13	Development of coupling agents to improve compatibility of PLA composites reinforced with cellulose fibres R. Serrat, H. Oliver-Ortega, M. Delgado-Aguilar, Q. Tarrés, P. Mutjé, J.A. Méndez	119

Comunicaciones orales (O) / Oral presentations (O)		
BIO Polímeros biodegradables, biopolímeros y biomateriales		
BIO Biodegradable polymers, biopolymers and biomaterials		
Ref	Título / Title Autores / Authors	pag
BIO-O14	Studying crack formation on cast films of PLLA/PEO blends J. Martínez-Salazar, J.F. Vega, A. Espasa-Valdepeñas, V. Souza-Egipsy, A. J. Müller	121
BIO-O15	Blends based on poly(ϵ -caprolactone) / high density polyethylene: crystalline features, mechanical response and gas transport E. Blázquez-Blázquez, V. Lorenzo, E. Pérez, M. L. Cerrada	123
BIO-O16	Biphasic ELR-based matrix for the regeneration of osteochondral lesions: the harmonization of matrix resorption to the different metabolic activity of the embedded cell type J. C. Rodríguez-Cabello, A. Vega, A. Gato, G. Martínez-Municio, T. Flora, M. Alonso, I. González	125
BIO-O17	Using proteomics for Sr-enriched biomaterial development F. Romero-Gavilán, N. Araújo-Gomes, I. García-Arnáez, C. Martínez-Ramos, J.J. Martín de Llano, F. Elortza, I. Goñi, M. Gurruchaga, J. Suay	127
BIO-O18	Polymeric chemosensor for the detection and quantification of chloride in human sweat. Application to the diagnosis of cystic fibrosis S. Vallejos, E. Hernando, M. Trigo, F. García, M. García-Valverde, D. Iturbe, M. J. Cabero, R. Quesada, J. M. García	131
BIO-O19	Influence of chain topology (cyclic vs linear) on the crystallization of polylactide N. Zaldua, M. Zubitur, A. Mugica, A. Arbe, O. Coulembier, A. J. Müller	133

Comunicaciones orales (O) / Oral presentations (O)		
NAN Polímeros y nanotecnología para aplicaciones avanzadas		
NAN Polymers and nano-technology for advanced applications		
Ref	Título / Title Autores / Authors	pag
NAN-O1	Antimicrobial PNIPAM/DMAEMA microgels confined in PLA/PHB-based electrospun membranes via colloidal electrospinning C. Echeverría, A. Aragón-Gutiérrez, A. Sonseca, A. Muñoz-Bonilla, M. Fernández-García, D. López	179
NAN-O2	Smart textiles functionalized with PEDOT and CNT as promising thermoelectric materials J. F. Serrano-Claumarchirant, I. Brotons, M. Culebras, A. Cantarero, C. M. Gómez	181
NAN-O3	Nanometer-scale alginate hydrogels supported over multilayer polymer films as pads for phototriggered drug delive M. Criado, F. Boulmedais, C. Mijangos, R. Hernández	183
NAN-O4	Step-wise supramolecular polymerization of host-guest complexes J. del Barrio, O. A. Scherman	185
NAN-O5	Slippery Liquid Infused Porous Surfaces (SLIPS) based on polymer mixtures E. Afonso, A. Martínez-Gómez, A. Febrero, P. Tiemblo, N. García	187
NAN-O6	Rheological evidence on the MWCNTs selective localization in PMMA-LDPE immiscible polymer matrices C. Roman, M. García-Morales, T. McNally	189
NAN-O7	4D printed liquid crystalline elastomeric actuators: Artificial muscles, adaptive optical elements and soft-robotic functions M. López-Valdeolivas, D. Liu, D. J. Broer, C. Sánchez-Somolinos	191
NAN-O8	Shape memory polyurethanes. Application in smart fabrics M. Sáenz-Pérez, J. M. Laza, T. Bashir, M. Skrifvars, E. Hernáez, J. L. Vilas, L. M. León	193
NAN-O9	Flexible hybrid thermoelectric materials based on carbon nanotubes and poly(3,4-ethylenedioxythiophene) J. F. Serrano-Claumarchirant, M. Culebras, R. Muñoz-Espí, A. Cantarero, C. M. Gómez	195
NAN-O10	Cyclic chain topology induces liquid crystal mesophases in poly(3-hexylthiophene) J. Maiz, G. Liu, N. Delbosc, O. Coulembier, D. Wang, A. J. Müller	199
NAN-O11	Determining the composition of mixed domains in bulk heterojunctions for photovoltaics J. Martín, S. Marina, D. Cangialosi, N. Stingelin	201
NAN-O12	Shape-memory behaviour in multifunctional polymeric nanocomposites L. Peponi, V. Sessini, I. Navarro-Baena, M. P. Arrieta, D. López	205
NAN-O13	Novel strategies for covalent functionalization of boron nitride nanotubes with short polyethylene chains S. Quiles-Díaz, Y. Martínez-Rubi, J. Guan, K. S. Kim, M. Couillard, H.J. Salavagione, M.A. Gómez-Fatou, B. Simard	207
NAN-O14	Morphology control of polymer/metal oxide hybrid nanoparticles towards the preparation of magnetically recoverable heterogeneous catalysts O. Álvarez-Bermúdez, A. Torres-Suay, F. F. Pérez-Pla, K. Landfester, R. Muñoz-Espí	209

Póster (P) /Poster communications (P)		
REO Reología y propiedades mecánicas de polímeros y materiales compuestos.		
REO Rheological and mechanical properties of polymers and composite materials		
Ref	Título / Title Autores /Authors	pag
REO-P1	A preliminary study of mixtures of bitumen/paraffin wax for thermal energy storage J. R. Arza, A. A Cuadri, F. J. Navarro	261
REO-P2	Thermorheological properties of cocoa creams based on cellulose ethers M. Espert, L. Caloca, A. Salvador, T. Sanz, M.J. Hernández	263
REO-P3	Enhancement of thermal conductivity by addition of several conductive fillers in thermally cured cycloaliphatic epoxy thermosets I. Isarn, F. Gamardella, X. Fernández-Francos, À. Serra, F. Ferrando	265
REO-P4	Processing temperature impact on the rheological behaviour of castor oil and lignin-based polyurethanes A.M. Borrero-López, F. Santiago-Medina, C. Valencia, J.M. Franco	267
REO-P6	Effect of epoxidation on the rheology of epoxidized cellulose pulp dispersions in castor oil E. Cortés-Triviño, C. Valencia, M.A. Delgado, J.M. Franco	271
REO-P5	Enhancement of the synthesis protocol for the production of adhesives for bonding wood A. Tenorio-Alfonso, M.C. Sánchez, JM. Franco	271
REO-P7	Aging of elastomeric components of a solar thermal collector under solar radiation M.C. Ferreira, G. Ritto, M.T. Cidade, M.J. Carvalho, T.C. Diamantino	273
REO-P8	PET/PP and PET/HDPE polymer blends stabilized with titanium dioxide nanoparticles and compatibilizing agents E. Matxinandiarena, L. Sangroniz, A. Mugica, M. Zubitur, A. Santamaría, A.J. Müller	275
REO-P9	Soy protein-based matrices containing zinc as micronutrient for horticulture applications A. Guerrero, M. Jiménez-Rosado, M. Ramos, F. Cordobés, J. de la Fuente	A1
REO-P10	Rheological behaviour of xanthan gum in brine solutions D. Reinoso, M.J. Martín-Alfonso, P.F. Luckham, F.J. Martínez-Boza	A7

Póster (P) /Poster communications (P)		
PRO. Procesado, procesos industriales y reciclado de polímeros		
PRO. Processing, industrial processes and recycling of polymers		
Ref	Título / Title Autores /Authors	pag
PRO-P1	Integral use of eucalyptus globulus in a double stage biorefinery scheme J.M. Loiza, A. Alfaro, J.C. García, M.T. García, M.J. Diaz, F. López	239

Póster (P) /Poster communications (P) SCP Síntesis y caracterización de polímeros SCP Synthesis and characterization of polymers		
Ref	Título / Title Autores /Authors	pag
SCP-P1	Photoisomerization of azobenzene via naphthalene antenna effect in amphiphilic block copolymer nanocarriers H. García-Juan, B. Grandinetti, M. Piñol, L. Oriol	55
SCP-P2	Polythiourethane networks obtained by controlled thiol-isocyanate click reaction F. Gamardella, X. Ramis, S. De la Flor, A. Serra	57
SCP-P3	Azobenzene-based block copolymers: red and green photoresponse behaviour and self-assembly properties in water H. García-Juan, B. Grandinetti, L. Oriol, M. Piñol	59
SCP-P4	Polyurethane-copper complex hybrids: physicochemical, mechanical and biological properties J.F. Xool-Tamayo, R.F. Vargas-Coronado, J.M. Cervantes-Uc, J.V. Cauich-Rodríguez, M. Vazquez-Lepe	61
SCP-P5	Synthesis and self-assembly of poly[bis(trifluoroethoxy)phosphazene]-b-Poly(2-ethyl-2-oxazoline) block copolymers A. S. Condado, R. de la Campa, G. A. Carriedo, A. Presa Soto	63
SCP-P6	Photo-responsive polyurethanes reinforced with coumarin modified silica nanoparticles D. López, C. Salgado, M. P. Arrieta, L. Peponi, M. Fernández-García	65
SCP-P7	Dielectric segmental dynamics of thermal-photo curable thiol-ene/thiol-epoxy thermosets J.D. Badia, C. Acebo, R. Teruel-Juanes, O. Gil-Castell, A. Serra, A. Ribes-Greus	67
SCP-P8	Segmented polyurethanes derived from glucose for sustainable coating M. García-Mestre, E. Zakharova, A. Martínez de Ilarduya, S. Muñoz-Guerra	69
SCP-P9	Macromonomers, telechelics and more complex architectures of PMA and PBA by a combination of biphasic SET-LRP and biphasic esterification A. Moreno, R. L. Jezorek, T. Liu, M. Galià, G. Lligadas, V. Percec	71
SCP-P10	Novel green cationic polyfluorene: synthesis, characterization and its applications as membrane probes R. Mallavia, R. Vazquez-Guilló, M.J. Martínez-Tomé, A. Falco, C.R. Mateo	73
SCP-P11	Synthesis and characterization of new polynorbornenes with aromatic dicarboximide side moieties K. A. Peñaloza, I. Ruiz, J. Vargas, A. A. Santiago, M. Abatal, M. López-González	75
SCP-P12	Hard/Soft nanostructured polymer surfaces obtained by copolymerization in nanoporous AAO reactors L. León, J. M. Giussi, C. Mijangos	77
SCP-P13	Ion diffusivity study of Li ⁺ in photocrosslinked gel polymer electrolytes J.L. Pablos, T. Corrales, P. Tiemblo, N. García, L. Garrido, J. Guzmán, F. Catalina	79

Póster (P) /Poster communications (P)		
SCP Síntesis y caracterización de polímeros		
SCP Synthesis and characterization of polymers		
Ref	Título / Title Autores /Authors	pag
SCP-P14	Analysis of dielectric properties of PMMA/PEDOT blends M.J. Sanchis, M. Carsí, B. Redondo-Foj, P. Ortiz-Serna, M. Culebras, R. Muñoz-Espí, A. Cantarero, C.M. Gómez	81
SCP-P15	Synthesis and self-assembly of poly[bis(trifluoroethoxy)phosphazene]-b-polystyrene block copolymers L. Quirós Montes, R. de la Campa, G. A. Carriedo, A. Presa Soto	83
SCP-P16	Characterization of sequential dual-curing of thiol-acrylate-epoxy systems with controlled thermal properties C. Russo, A. Serra, X. Fernández-Francos, S. de la Flor	85
SCP-P17	A flash DSC study of the amorphous fraction in a semiconducting polymer S. Marina, J. Martín	87
SCP-P18	Controlled β -phase formation in PVDF by blending with PMMA A. Martínez-Gómez, A. Febrero, E. Afonso, P. Tiemblo, N. García	89

Póster (P) /Poster communications (P)		
BIO Polímeros biodegradables, biopolímeros y biomateriales		
BIO Biodegradable polymers, biopolymers and biomaterials		
Ref	Título / Title Autores /Authors	pag
BIO-P1	Synthesis of poly(butylene succinate-co-epsilon-caprolactone) copolyesters by enzymatic polymerization M. Núñez, A. Martínez de Ilarduya, S. Muñoz-Guerra	109
BIO-P2	Polycationic polymers with DNA-condensation capability for gene delivery E. Benito, L. Romero-Azogil, M.G. García-Martín, I. Molina-Pinilla, K. Hakkou, M. Bueno, J.A. Galbis	135
BIO-P3	Linear cationic polymers as non-viral carriers for DNA delivery I. Molina-Pinilla, K. Hakkou, M. Bueno-Martínez, E. Benito, L. Romero-Azogil, M.G. García-Martín	137
BIO-P4	Preparation of bilayered scaffolds made of PLGA, Hyaluronic Acid and bioactive Sr/Zn-folates for tissue engineering G. Asensio, R. Ramírez, J. González, C. Abradelo, J. San Román, L Rojo	139
BIO-P5	Biodegradable Azobenzene Based Materials for Colonic Targeting I. Molina-Pinilla, K. Hakkou, C. Rangel, M. Bueno-Martínez, A. Alcudia, B. Begines	141
BIO-P6	New epoxy thermosets derived from clove oil prepared by thiol-epoxy curing D. Guzmán, A. Serra, S. de la Flor, X. Ramis, X. Fernández-Francos	143

Póster (P) /Poster communications (P)		
BIO Polímeros biodegradables, biopolímeros y biomateriales		
BIO Biodegradable polymers, biopolymers and biomaterials		
Ref	Título / Title Autores /Authors	pag
BIO-P7	Development and characterisation of chitosan-based membranes for proton exchange fuel cells F. Arenga, R. Teruel-Juanes, A. M. Salaberria, J. P. Colembergue, O. Gil-Castell, J.D. Badia, M.G. Baschetti, J. Labidi, A. Ribes-Greus	145
BIO-P8	Preparation of chitosan isothiocyanates to be used as thickener in biolubricant formulations M.A. Delgado, J.M. Franco, C. Valencia	147
BIO-P9	Stimuli cleavable bio-based thermoplastic block copolymers P.M. Verdugo, J.C. Ronda, G. Lligadas, M. Galià, V. Cádiz	149
BIO-P10	Smart polymeric nanoparticles as controlled drug delivery systems: drug loading and pH-dependent release of pilocarpine. E. Galbis, N. Iglesias, M. V. de-Paz, R. Lucas, E. Tinajero-Díaz, S. Muñoz-Guerra, J. A. Galbis	151
BIO-P11	Kinetics of the thermal degradation of PLA and ABS blends F. Carrasco, M. Sánchez-Soto, O.O. Santana, J. Cailloux, M. Ll. MasPOCH	153
BIO-P12	Flexural and impact properties of PA11-SGW composites. H. Oliver, R. Serrat, M. Delgado-Aguilar, Q. Tarrés, J.A. Méndez, P. Mutjé	155
BIO-P13	Structural characteristics of side-stream lignins from fast-growing poplar in respect to their valorization R. Martín-Sampedro, J.I. Santos, U. Fillat, H. Sixto, I. Cañellas, M.E. Eugenio, D. Ibarra	157
BIO-P14	Reversible pH-sensitive chitosan-based hydrogels. Influence of dispersion composition on rheological properties and sustained drug delivery. N. Iglesias, E. Galbis, C. Valencia, M.-V. de Paz, J. A. Galbis	159
BIO-P15	Nanofibers of PMVEMA derivatives used in topical administration C. Sainz-Urruela, L. Martinez-Ortega, M. Rubio-Camacho, C.R. Mateo, A. Falco, R. Mallavia	161
BIO-P16	Nanoparticles made of alkyltrimethylphosphonium-hyaluronic acid complexes: structural analysis and modelling A. Gamarra, S. León, M.T. Casas, S. Muñoz-Guerra	163
BIO-P17	Hyaluronic acid/chitosan titanium multilayers with antibacterial properties A. Valverde, L. Pérez-Álvarez, L. Ruiz-Rubio, M. B. Belen, M.I. Moreno, L.M. León, J.L. Vilas-Vilela	165
BIO-P18	The effect of H ₂ O ₂ on chemical and thermal properties of PLA containing TiO ₂ particles after visible light exposure J. Urbano, J.E. Martín-Alfonso, J. M. Franco	167
BIO-P19	Effect of the addition of κ-carrageenan on swelling and mechanical properties of methacrylate hydrogels N. Pettinelli, R. Bouza, L. Barral, Y. Farrag, M. Rico, B. Montero	169
BIO-P20	Fully biobased and biodegradable plastic materials for non-biodegradable composites substitution R. Serrat, H. Oliver-Ortega, M. Delgado-Aguilar, J.A. Méndez, Q. Tarrés, P. Mutjé	171

Póster (P) /Poster communications (P)		
BIO Polímeros biodegradables, biopolímeros y biomateriales		
BIO Biodegradable polymers, biopolymers and biomaterials		
Ref	Título / Title Autores /Authors	pag
BIO-P21	Vapor phase polymerization method to develop 3D scaffolds based on PEDOT/CNT for electroactive tissue regeneration A. Dominguez-Alfaro, N. Alegret, D. Mecerreyes, M. Prato	173
BIO-P22	Revalorization of olive tree pruning residues into cellulose nanofibers U. Fillat, B. Wicklein, R. Martín-Sampedro, E. Castro, D. Ibarra, M.E. Eugenio	175
BIO-P23	Traditional and solvent-free NCO-functionalization of jute fibers R. Gallego, S. Fernandez-Prieto	A5

Póster (P) /Poster communications (P)		
NAN Polímeros y nanotecnología para aplicaciones avanzadas		
NAN Polymers and nanotechnology for advanced applications		
Ref	Título / Title Autores /Authors	pag
NAN-P1	Polyurethane-based magnetic capsules for application in thermal energy storage O. Álvarez-Bermúdez, A. Aguado-Hernández, I. Adam-Cervera, C. M. Gómez, K. Landfester, R. Muñoz-Espí	203
NAN-P2	Photoacid catalyzed organic-inorganic hybrid inks for the manufacturing of inkjet-printed photonic devices J. Alamán, M. López-Valdeolivas, R. Alicante, F. J. Medel, J. Silva-Treviño, J. I. Peña, C. Sánchez-Somolinos	211
NAN-P3	Cationic doping of PEDOT with 1-Cl M. Sánchez, F. Estrany, C. Alemán	213
NAN-P4	Drug-loadable nanoparticles of PMVE/MA: synthesis, PEGylation and characterization H. Codina, E. Galán-Solís, A. Mira, C.R. Mateo, R. Mallavia, A. Falco	215
NAN-P5	Influence of egg albumen protein load on the electrospinning of aqueous PEO solutions under different concentrations and pHs J.E. Martín-Alfonso, C. Valencia, JM. Franco, A. Greiner	217
NAN-P6	Effect of the suspending medium viscosity on the electrorheological behaviour of polyaniline-graphene hybrid particles in silicone oil C. Roman, M. García-Morales, M.T. Cidade	219
NAN-P7	Metal oxocluster/polymer hybrid nanoparticles for heterogeneous catalysis H. Verdeguer-Asensio, C. Benedetti, F. F. Pérez-Pla, M. Carraro, K. Landfester, S. Gross, R. Muñoz-Espí	A3