

European Polymer Congress - Pisa (Italy), June 16–21, 2013
European Polymer Federation



C O N G R E S S P R O G R A M

SUNDAY 16 (Afternoon)

15:00–19:00	Registration
19:30–21:00	Welcome Party

MONDAY 17 (Morning)

8:00	Registration
	<i>Auditorium</i>
8.30	Opening Ceremony
9.00	PL1 K.Landfester
9.45	PL2 L.Leibler
10.30	Coffee break

	<i>Auditorium</i>	<i>Fermi</i>	<i>Pacinotti</i>	<i>Galilei</i>	<i>A0</i>	<i>B1</i>	<i>M1</i>
11.00	IL2-1 I.Hamley	IL3-1 E.J.Kramer	IL6-1 D.Cohn	IL7-1 D.Comoretto	IL1-1 Y.Yagci	O2-15 S.Bose	IL4-1 P.Halley
11.15						O2-16 M.Shcherbina	
11.30	O2-1 C.Creton	O3-1 J.Pomposo	O6-1 F.Rasoul	O7-1 P.Müller- Buschbaum	O1-1 D.Janeliunas	O2-17 J.Manhart	O4-1 L.Albertin
11.45	O2-2 G.Fiore	O3-2 C.Mijangos	O6-2 R.Sanyal	O7-2 W.Chan	O1-2 N.Bruns	O2-18 S.Kara	O4-2 A.Charlot
12.00	O2-3 E.Deniau- Lejeune	O3-3 C.Reboul	O6-3 B.Thallinger	O7-3 J.Pfleger	O1-3 G.Gomez d’Ayala	O2-19 A.Milani	O4-3 F.Ayadi
12.15	O2-4 J.Spevacek	O3-4 I.Potemkin	O6-4 K.Sparnacci	O7-4 M.-S.Weiser	O1-4 R.Makuska	O2-20 Z.Benabdelghani	O4-4 L.Ludueña
12.30	Lunch						

MONDAY 17 (Afternoon)

13.30	Poster Session I: P2-1 through P2-82 & P3-1 through P3-67						
	<i>Auditorium</i>	<i>Fermi</i>	<i>Pacinotti</i>	<i>Galilei</i>	<i>A0</i>	<i>B1</i>	<i>M1</i>
15:00	IL2-2 A.Galeski	IL3-2 S.Tosatti	IL6-2 A.Urtti	IL7-2 G.Hadziioannou	IL1-2 G.Mei	O2-21 O.de Ballesteros	IL4-2 K.Loos
15:15						O2-22 P.Lutz	
15:30	O2-5 P.Stagnaro	O3-5 J.T.Chen	O6-5 N.Tirelli	O7-5 R.Bongiovanni	O1-5 V.Monteil	O2-23 D.Alhazov	O4-5 M.Pracella
15:45	O2-6 N.Stribeck	O3-6 A.Nogales	O6-6 D.Scalarone	O7-6 O.Jaudouin	O1-6 C.Dommanget	O2-24 A.Nourdine	O4-6 V.Delplace
16:00	O2-7 T.Bleha	O3-7 O.Borisov	O6-7 J.Oh	O7-7 W.Kern	O1-7 F.D'Agosto	O2-25 A.Gregorova	O4-7 C.Lavilla
16:15	O2-8 L.Fambri	O3-8 J.Maiz	O6-8 S.Venkataraman	O7-8 W.Skene	O1-8 M.Winkler	O2-26 R.Fernandez	O4-8 G.Ahmetli
16:30	Tea break						
17:00	O2-9 A.Famulari	O3-9 M.L.Michon	IL6-3 D.S.Lee	O7-9 P.Toman	O1-9 J.Bernard	O2-27 B.Dunjic	O4-9 S.Mohan
17:15	O2-10 I.Dabrowska	O3-10 S.Amigoni		O7-10 D.Anokhin	O1-10 F.Delor-Jestin	O2-28 M.Messori	O4-10 J.Jacobs
17:30	O2-11 H.Bulbul Sonmez	O3-11 T.Basinska	O6-9 J.Nicolas	O7-11 A.Cichosch	O1-11 T.Itoh	O2-29 C.Nedolisa	O4-11 K.Littunen
17:45	O2-12 P.Cassagnau	O3-12 G.Bokias	O6-10 M.C.Straccia	O7-12 S.Jankowsky	O1-12 T.Junkers	O2-30 A.Panou	O4-12 S.Reynaud
18:00	O2-13 M.Cocca	O3-13 O.Colombani	O6-11 S.Filippov	O7-13 J.-H.Wu	O1-13 M.Tielemans	O2-31 G.Giammarino	O4-13 C.Rudaz
18:15	O2-14 V.Barbakadze	O3-14 P.Zapata	O6-12 L.Hespele	O7-14 A.Al Robaidi	O1-14 P.Jankowski	O2-32 V.Gonzales Coronel	O4-14 D.Dimonie

TUESDAY 18 (Morning)

8:00	Registration
	<i>Auditorium</i>
8:30	PL3 B.Bruchmann
9:15	PL4 H.Ohno
10:00	SABIC Call for Proposals
10:15	Coffee break

	<i>Auditorium</i>	<i>Fermi</i>	<i>Pacinotti</i>	<i>Galilei</i>	<i>A0</i>	<i>B1</i>	<i>M1</i>
10:45	IL2-3 C.Ortiz	IL3-3 K.J.Wynne	IL6-4 A.Lendlein	IL7-3 C.Sanchez- Somolinos	IL1-3 C.Barner- Kowollik	IL5-1 P.Coates	IL4-3 E.Malmström
11:15	O2-33 K.Almdal	O3-15 G.J.Vancso	O6-13 J.San Roman	O7-15 A.Kiriy	IL1-4 M.Lansalot	IL5-2 S.Karlsson	O4-15 C.Koning
11:30	O2-34 F.Auriemma	O3-16 C.Padeste	O6-14 V.Castelletto	O7-16 C.-J.Chen			O4-16 N.Grizzuti
11:45	O2-35 D.Cavallo	O3-17 O.Sterner	O6-15 F.Palumbo	O7-17 N.Matsumi	O1-15 M.Pepels	O5-1 M.Barthel	O4-17 S.Murata
12:00	O2-36 M.Feuchter	O3-18 J.Lejeune	O6-16 M.Hruby	O7-18 S.-H. Lee	O1-16 G.Summers	O5-2 E.Espuche	O4-18 K.Greimel
12:15	O2-37 P.Kunzelmann	O3-19 A.Dworak	O6-17 D.Lenko	O7-19 C.Lacabanne	O1-17 M.Silantev	O5-3 J.Grunlan	O4-19 G.Bayramoglu
12:30	O2-38 B.Sabagh	O3-20 B.Noordover	O6-18 M.Costantini	O7-20 I.Brook	O1-18 D.Grishin	O5-4 M.Gervais	O4-20 P.J.Lohmejer
12:45	Lunch						

TUESDAY 18 (Afternoon)

13:45	Poster Session II: P1-1 through P1-102 & P4-1 through P4-49						
	<i>Auditorium</i>	<i>Fermi</i>	<i>Pacinotti</i>	<i>Galilei</i>	<i>A0</i>	<i>B1</i>	<i>M1</i>
15:15	IL2-4 T.Hanel	IL3-4 A.Müller	IL6-5 R.Hoogenboom	IL7-4 J.Travas-Sejdic	IL1-5 R.Palkovits	O2-48 K.Schneider	O4-21 A.Demilecamps
15:30						O2-49 A.Dorigato	O4-22 E.Dragan
15:45	O2-39 T.Hogen-Esch	O3-21 M.Galimberti	O6-19 A.Piras	O7-21 B.Voit	O1-19 L.Marchese	O2-50 A.Santamaria	O4-23 S.Solorzano
16:00	O2-40 M.Edelmann	O3-22 O.Kramarenko	O6-20 A.Saiani	O7-22 C.Ventura	O1-20 J.Ertl	O2-51 M.Batistella	O4-24 M.Valero
16:15	O2-41 E.Gubbels	O3-23 M.Klapper	O6-21 E.Sokolovskaya	O7-23 D.Damaceanu	O1-21 M.Save	O2-52 S.Lehmann	O4-25 L.Timofeeva
16:30	O2-42 C.Marcott	O3-24 M.Attari	O6-22 C.Lisanti	O7-24 A.Farcas	O1-22 D.Pappalardo	O2-53 M.C.Righetti	O4-26 A.Celli
16:45	Tea break						
17:15	O2-43 G.Hostnik	O3-25 J.Martin	O6-23 F.Laffleur	O7-25 M.Apostolo	O1-23 N.Bicak	O2-54 P.Stepanek	O4-27 M.Spulber
17:30	O2-44 C.Daniel	O3-26 C.Menzel	O6-24 M.Yassin	O7-26 C.-S.Wu	O1-24 M.Grünebaum	O2-55 D.Rupsch	O4-28 V.Ribitsch
17:45	O2-45 N.Arsu	O3-27 S.Zapotoczny	O6-25 S.Wilfert	O7-27 M.Tomassetti	O1-25 M.Ramos	O2-56 A.Nuzzo	O4-29 E.Prandato
18:00	O2-46 W.Ballout	O3-28 E.Metwalli	O6-26 S.Vanslambrouck	O7-28 P.Fabbri	O1-26 M.Stach	O2-57 A.Shcherbina	O4-30 M.John
18:15	O2-47 I.Chodak	O3-29 A.Chervanyov	O6-27 B.Torger	O7-29 E.Dantras	O1-27 S.Guillaume	O2-58 R.Sauzier	O4-31 R.Sanna

21:15–22:30	Concert in the Cathedral
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WEDNESDAY 19 (Morning)

8:00	Registration						
	<i>Auditorium</i>	<i>Fermi</i>	<i>Pacinotti</i>	<i>Galilei</i>	<i>A0</i>	<i>B1</i>	<i>M1</i>
8:30	IL2-5	IL3-5	IL6-6	IL7-5	IL1-6	IL5-3	IL4-4
8:45	J.Kallitsis	O.Philippova	X.Chen	T.Ikeda	U.Edlund	C.Park	S.Guerrini
9:00	O2-59 A.R.Albunia	O3-30 S.Slomkowski	O6-28 B.Sumerlin	O7-30 G.Ruggeri	O1-28 S.Russo	IL5-4 M.Soliman	O4-32 L.Conzatti
9:15	O2-60 J.Y.Chen	O3-31 H.Duran	O6-29 A.Barrere	O7-31 E.Blasco	O1-29 M.Carmona		O4-33 M.Bednarek
9:30	O2-61 P.Russo	O3-32 O.Tairy	O6-30 N.Kebir	O7-32 L.Billon	O1-30 H.Kawakita	O5-5 J.Rosen	O4-34 S.Bruzaud
9:45	O2-62 H.Huinik	O3-33 B.Trzebicka	O6-31 Z.Tong	O7-33 G.Riess	O1-31 H.Keul	O5-6 K.Oehlschlaeger	O4-35 B.Purgleitner
10:00	IL2-6 A.Brookes, A.Kerstan	O3-34 A.Kasina	O6-32 C.Colosi	O7-34 J.Chen	O1-32 F.Peruch	O5-7 J.Beigbeder	O4-36 L.Jasinska-Walc
10:15		O3-35 T.Krasia- Christoforou	O6-33 J.Cardamone	O7-35 Y.Israeli	O1-33 M.Karaman	O5-8 P.Raimonda	O4-37 J.Barton
10:30	Coffee break						
11:00	Poster Session III: P5-1 through P5-33 & P6-1 through P6-114						
12:30	Lunch						

WEDNESDAY 19 (Afternoon)

	<i>Auditorium</i>	<i>Fermi</i>	<i>Pacinotti</i>	<i>Galilei</i>	<i>A0</i>	<i>B1</i>	<i>M1</i>
13:30	IL2-7 M.Parkinson	O3-36 J.Duchet- Rameau	O6-34 D.Schubert	IL7-6 M.Omastova	IL1-7 S.-J.Wang	O2-74 S.Coiai	O3-49 S.Anastasiadis
13:45		O3-37 R.Yerushalmi- Rozen	O6-35 P.Thornton			O2-75 B.Erich	O3-50 A.Camerlo
14:00	O2-63 L.Rubatat	O3-38 X.Zhu	O6-36 J.Kronek	O7-36 J.Grazulevicius	O1-34 T.Mehtiö	O2-76 A.Cataldo	O3-51 J.Brozek
14:15	O2-64 S.Tiwari	O3-39 E.Akgün	O6-37 J.H.Chang	O7-37 M.Culebras	O1-35 M.A.Tasdelen	O2-77 G.Agoda- Tandjawa	O3-52 K.Schöller
14:30	O2-65 A.Habas-Ulloa	O3-40 M.Sangermano	O6-38 A.Brulet	O7-38 C.Nardi Tironi	O1-36 M.Bermeshev	O2-78 B.Gacal	O3-53 M.Khokhlova
14:45	O2-66 K.Kyriakos	O3-41 V.Schek	O6-39 K.Bootdee	O7-39 H.Penchev	O1-37 H.Koleilat	O2-79 E.Gasilova	O3-54 A.Frache
15:00	O2-67 F.Di Lorenzo	O3-42 M.Robin	O6-40 D.Christova	O7-40 Y.-W.Chuang	O1-38 S.Naumov	O2-80 A.Grosse	O3-55 O.Brüggeman
15:15	O2-68 A.Zakhryapa	O3-43 J.F.Le Meins	O6-41 C.Boyer	O7-41 S.Mohaghegh	O1-39 T.Lacerda	O2-81 S.Pera	O3-56 H.-Y.Lin
15:30	Tea break						
16:00	O2-69 M.Mauri	O3-44 J. Rodriguez- Hernandez	O6-42 Y.Li	O7-42 J.Rolland	O1-40 K.Kimura	O2-82 J.Läuger	O3-57 K.Hielscher
16:15	O2-70 G.Jonusauskas	O3-45 S.Marchi	O6-43 S.Chattopadhyay	O7-43 S.Maria	O1-41 A.Debuigne	O2-83 E.Corroyer	O3-58 J.Foster
16:30	O2-71 J.Kostina	O3-46 Y.S.Kim	O6-44 A.Kapetanakis	O7-44 S.Gross	O1-42 O.Czakkell	O2-84 P.Kilz	O3-59 B.Ferse
16:45	O2-72 C.Varganici	O3-47 C.Schatz	O6-45 A.Serbin	O7-45 H.Erdemi	O1-43 Cs.Varga	O2-85 P.Sanguansat	O3-60 C.Tena
17:00	O2-73 Z.Safidine	O3-48 L.Higuita	O6-46 M.Ignatova	O7-46 S.-H.Chen	O1-44 O.Garagalza	O2-86 O.Lame	O3-61 F.Tantussi
17:15	Poster Session IV: P4-50 through P4-99 & P7-1 through P7-100						

THURSDAY 20 (Morning)

8:00	Registration
	<i>Auditorium</i>
8:30	PL5 C.De Rosa
9:15	DPI Award Ceremony
9:30	PL-DPI R.Duchateau
10:15	Coffee break

	<i>Auditorium</i>	<i>Fermi</i>	<i>Pacinotti</i>	<i>Galilei</i>	<i>A0</i>	<i>B1</i>	<i>M1</i>
10:45	IL-DPI1 S.Gambarotta	O3-62 H.Tenhu	O6-47 M.Möller	O7-47 A.Gomes	O6-59 L. Innocentini Mei	O2-93 R.Faust	O4-38 G.Malucelli
11:00		O3-63 S.Bonetti	O6-48 A.Pitto-Barry	O7-48 M.Bojdys	O6-60 F.Audouin	O2-94 M.Demirel	O4-39 A.Alcazar
11:15	IL-DPI2 S.Mecking	O3-64 M.Stepanek	O6-49 P.Baumann	O7-49 N.Kuramoto	O6-61 V.Barbier	O2-95 J.J. Flat	O4-40 P.Cinelli
11:30		O3-65 C.Vannozzi	O6-50 H.S.Lee	O7-50 G.Hauffman	O6-62 V.Khutoryansky	O2-96 N.Dintcheva	O4-41 G.Moreira
11:45	IL-DPI3 T.Hoeks	O3-66 B.Vanroy	O6-51 S.Shiratori	O7-51 I.Drevensek- Olenik	O6-63 I.Khan	O2-97 A.S.Ozen	O4-42 I.Chaduc
12:00		O3-67 Z.Ates	O6-52 N.Lavielle	O7-52 E.Pizzi	O6-64 B.Le Droumaguet	O2-98 E.Rossegger	O4-43 S.Spoljaric
12:15	O2-87 C.Descour	O3-68 C.-L.Tsai	O6-53 A.Yu.Bilibin	O7-53 E.Mulazzi	O6-65 V.Zubov	O2-99 I.Suleimenov	O4-44 F.Patwari
12:30	Lunch						

THURSDAY 20 (Afternoon)

13:30	Poster Session V: P2-83 through P2-165 & P3-68 through P3-135						
	<i>Auditorium</i>	<i>Fermi</i>	<i>Pacinotti</i>	<i>Galilei</i>	<i>A0</i>	<i>B1</i>	<i>M1</i>
15:00	O2-88 D.Kuckling	O3-69 O.Ikkala	O6-54 M.Grunlan	IL7-7 A.Bobrovsky	IL1-8 M.Ouchi	O2-100 A.Khokhlov	O3-74 S.Rannard
15:15	O2-89 C.Millot	O3-70 L.Jiang	O6-55 C.Fetsch			O2-101 N.Guimard	O3-75 P.P.Greco
15:30	O2-90 J.Vandenbergh	O3-71 D.Lebedev	O6-56 N.Manolova	O7-54 V.Toshchevnikov	O1-45 A.Heinrich	O2-102 N.Casiez	O3-76 M.Kaupp
15:45	O2-91 B.Fernandez- D'Arlas	O3-72 R.Suckeveriene	O6-57 F.Bally	O7-55 B.Pohl	O1-46 G.Gueorguiev	O2-103 A.Savnik	O3-77 S.Schlögl
16:00	O2-92 S.Preece	O3-73 E.Oikonomou	O6-58 N.Zavradashvili	O7-56 P.Rizzo	O1-47 A.Sanyal	O2-104 M.Brisotto	O3-78 A.Eissa
18:30–24:00	Congress Banquet						

FRIDAY 21 (Morning)

8:00	Registration						
	<i>Auditorium</i>	<i>Fermi</i>	<i>Pacinotti</i>	<i>Galilei</i>	<i>A0</i>	<i>B1</i>	<i>M1</i>
8:30	IL2-8 M.Perego	IL3-6 S.Krishnan	O6-66 D.Schiffer	IL7-8 S.Hvilsted	O6-74 K.Haupt	IL5-5 A.Künkel	O3-85 A.Anastassiou
8:45			O6-67 M.Oster		O6-75 I.Donelli		O3-86 R.Gal-Oz
9:00	O2-105 S.Leadley	O3-79 G.Mitchell	O6-68 R.Luxenhofer	O7-57 A.Weber	O6-76 A.Favier	O5-9 J.C.Jansen	O3-87 C.Seidel
9:15	O2-106 M.Alexander	O3-80 O.Monticelli	O6-69 M.Jorfi	O7-58 C.T.Lo	O6-77 C.Credi	O5-10 A.Saiter	O3-88 A.Serghei
9:30	O2-107 D.Roy	O3-81 H.Goossens	O6-70 D.Ivanov	O7-59 S.Bolis	O6-78 N.Lavignac	O5-11 A.Ramone	O3-89 W.Swope
9:45	O2-108 F.Ferrarese Lupi	O3-82 S.Ozerin	O6-71 W.Dempwolf	O7-60 D.Kim	O6-79 B.Tondu	O5-12 B.Bereska	O3-90 S.Maksimov
10:00	O2-109 G.Santoro	O3-83 C.Ocando	O6-72 F.Burel	O7-61 J.Grunlan	O6-80 T.Loontjens	O5-13 E.Fleury	O3-91 M.Kopec
10:15	O2-110 D.Fischer	O3-84 F.Surman	O6-73 S.Demirci	O7-62 M.Raihane	O6-81 J.Kaschta	O5-14 S.Tabasso	O3-92 K.Chrissooulou
10:30	Coffee break						
	<i>Auditorium</i>						
11:00	PL6 I.S.Gilmore						
11:45	PL7 C.K.Ober						
12:30	Poster Prize Ceremony & Closing Ceremony						
13:00	Lunch						
14:00	End of Congress						

S C I E N T I F I C
P R O G R A M

PLENARY LECTURES

- PL-1 A molecular “screw clamp”: Reactions at the interface of droplets
K. Landfester
- PL-2 Vitrimers, a new class of polymers
L. Leibler
- PL-3 Advanced materials and systems - An insight into modern industrial polymer research
B. Bruchmann
- PL-4 Progress of ionic liquids as important partners for biopolymers
H. Ohno
- PL-5 Tailoring crystallization and physical properties of polyolefins via organometallic catalysis
C. De Rosa, F. Auremma
- PL-6 Seeing the nanoscale chemistry of polymers and molecules in 3-D using Secondary Ion Mass Spectrometry
I.S. Gilmore
- PL-7 Polymer brushes: Patternable structures as interfaces with the biological environment
C.K. Ober, C. Ohm, M.E. Welch
- PL-DPI Polymacrolactone-based block copolymers: A novel approach for compatibilizing blends of polyethylene and polar polymers
L. Jasinska-Walc, M.P.F. Pepels, M. Bouyahyi, R. Duchateau

INVITED LECTURES

Symposium 1. From monomers to polymers; New feedstocks and biotech resources; Novel synthetic routes

- IL1-1 New synthetic methodologies for the preparation of polybenzoxazine resins
Y. Yagci, B. Kiskan
- IL1-2 Polypropylene market and technologies: Trends and new developments
G. Mei
- IL1-3 Modular biosurface design
T. Tischer, A.S. Goldmann, C. Preuss, A. Walther, G. Delaittre, L. Barner, M. Bruns, H.G. Börner, C. Barner-Kowollik
- IL1-4 Recent developments in aqueous phase radical polymerization: RAFT as a tool toward surfactant-free latexes of PVDC
E. Velasquez, J. Rieger, F. Stoffelbach, G. Pembouong, M. Lansalot, F. D'Agosto, O. Boyron, B. Charleux, P.-E. Dufils, J. Vinas
- IL1-5 Novel cellulose based monomers for (bio-)polymer production
R. Palkovits
- IL1-6 Green grafting strategies for hemicellulose hybrids
U. Edlund, A.C. Albertsson
- IL1-7 From itaconic acid to elastomer
P.-C. Chang, H.-Y. Hsu, C.-C. Lin, K. Teng, S.-J. Wang, T.-F. Way
- IL1-8 Sequence-controlled vinyl polymers via radical-mediated reactions/polymerizations
M. Ouchi

Symposium 2. Advanced characterization and analysis of polymer structure, processability and final properties

- IL2-1 Amyloid polymer/peptide conjugates: From self-assembly towards applications in biomedicine
I.W. Hamley, V. Castelletto
- IL2-2 Crystalline lamellae fragmentation during drawing of crystalline polymers
A. Galeski, A. Rozanski
- IL2-3 Tba
C. Ortiz
- IL2-4 Trends in polymeric materials for tyre applications
T. Hanel
- IL2-5 Aromatic polyethers bearing pyridine groups and their use in high temperature fuel cell applications
J. Kallitsis
- IL2-6 GPC & FTIR applications in polymer research
A. Brookes, A. Kerstan
- IL2-7 Application of melt-state NMR spectroscopy for polyolefin characterisation in industry
E. Pomakhina, L. Steiner, G. Hubner, M. Parkinson
- IL2-8 Block copolymers lithography: Bottom up meets top down
M. Perego
- IL-DPI1 The hunt for catalyst low-oxidation states in the selective ethylene oligomerization
S. Gambarotta
- IL-DPI2 Novel feedstocks and crystalline structures by functional group tolerant polymerization catalysis
S. Mecking

IL-DPI3 Isosorbide-containing-polycarbonate resins
R. van de Grampel, J.H. Kamps, H. Looij, T. Hoeks

Symposium 3. Polymers at surfaces and interfaces across multiple length scales; Polymers and nanotechnology

- IL3-1 Fundamental physical limits of directed assembly of block copolymer cylinders
E.J. Kramer
- IL3-2 Ultrathin coating technologies based on activated nitrene groups: Examples and industrial applications
S. Tosatti, S. Zürcher, A. Serrano, O. Sterner, N.D. Spencer
- IL3-3 Functional polymer surface modifiers for enhanced health and safety
K.J. Wynne, A. Chakravorty, L. Wood, D. Ohman
- IL3-4 Single and double confinement effects on the nucleation and crystallization of polymer chains within alumina nanocylindrical templates
A.J. Müller, R.M. Michell, H.-L. Chen, I. Blaszczyk-Lezak, C. Mijangos
- IL3-5 Polymer nanocomposites with different inorganic fillers
O.E. Philippova, A.I. Barabanova, V.S. Molchanov, A.R. Khokhlov
- IL3-6 Surface analysis of nanostructured polymer thin films using Near-Edge X-ray Absorption Fine Structure spectroscopy
S. Krishnan

Symposium 4. Biobased and biorelated polymeric materials; Environmental applications

- IL4-1 Developing high value and high performance bio-based polymers: Biopolymer, plasticiser, nanoadditive and processing considerations
P. Halley
- IL4-2 Enzymatic polymerizations - Routes to novel functional polymer systems and alternative ways to known materials
K. Loos
- IL4-3 Surface modification of cellulose substrates by controlled polymerization to give tailored surface properties
E. Malmström, S. Hansson, C. Bruce, L. Carlsson, L. Fogelström, A. Carlmark
- IL4-4 The agriculture applications of bioplastics as a model for a low environmental impact
S. Guerrini, F.M. Impallari

Symposium 5. Polymers and sustainable development: Energy saving and recovery; Food applications; Recycling and life cycle assessment

- IL5-1 Resource efficient processing of polymers and pharmaceuticals
P.D. Coates, A.L. Kelly, A. Paradkar, L. Mulvaney-Johnson, P. Caton-Rose, B.R. Whiteside, H. Benkreira, K. Horoshenkov, A. Khan, J. Verra-Sorche, C. Abeykoon
- IL5-2 Tba
S. Karlsson
- IL5-3 Unfolding the fundamental mechanisms of foaming using visualization
C.B. Park, A. Wong
- IL5-4 Polyolefins and sustainability: Implications on product and application development"
M. Soliman, H. Martens, R. Scherrenberg
- IL5-5 Symbiosis of chemistry and biology: BASF's biodegradable and renewable polymers
A. Künkel, R. Loos, C. Sinkel

Symposium 6. Polymers for biomedicine, pharmaceuticals, and healthcare systems

- IL6-1 Cyanoacrylate-containing biodegradable tissue adhesives: Design and *in vitro* performance
D. Cohn
- IL6-2 Drug targeting with nanoparticles: Mechanistic studies at molecular, cellular and in vivo levels
A. Urtti
- IL6-3 Stimuli sensitive block copolymers for theranostics
D.S. Lee
- IL6-4 Multifunctional biomaterials
A. Lendlein
- IL6-5 Poly(2-oxazoline)s as potent(ial) biomaterials
R. Hoogenboom
- IL6-6 The exploitation of intelligent antitumor nanomedicines based on stimuli-responsive polypeptide nanogels
X. Chen, J. Ding, C. Xiao, X. Zhuang

Symposium 7. Polymers for energy, optics, photonics, and electronics

- IL7-1 Polymer photonic crystals: Novel opportunities for macromolecular nanostructured materials
D. Comoretto
- IL7-2 Tba
G. Hadziioannou
- IL7-3 Photoresponsive liquid crystalline block copolymers
C. Berges, I. Diez, J. del Barrio, E. Blasco, S. Menghetti, G. Galli, I. Javakbshvili, S. Hvilsted, Milagros Piñol, L. Oriol, R. Alcalá, C. Sánchez-Somolinos
- IL7-4 Conjugated polymers: From optical to a single nanowire-based electrochemical biosensing
J. Travas-Sejdic
- IL7-5 Photomobile polymer materials with composite structures
T. Ikeda
- IL7-6 Actuators of nanocomposites containing carbon nanotubes
K. Czaniuková, I. Krupa, M. Omastová
- IL7-7 Photoinduced bending and mass transfer phenomena in azobenzene-containing LC polymer systems.
A. Bobrovsky, A. Ryabchun, V. Shibaev, K. Mochalov, A. Chistyakov, V. Oleinikov
- IL7-8 Phosphonation – A promising tool in the polymer electrolyte membrane puzzle
S. Hvilsted

ORAL COMMUNICATIONS

Symposium 1. From monomers to polymers; New feedstocks and biotech resources; Novel synthetic routes

- O1-1 Come together: self-assembly drives the formation of dynamic conjugated polymers in water
D. Janeliunas, P. van Rijn, J. Boekhoven, C.B. Minkenberg, J.H. van Esch, R. Eelkema
- O1-2 Biocatalytic ATRP: Controlled radical polymerizations mediated by enzymes
N. Bruns, M. Spulber, J. Pollard, K. Renggli, M. Rother
- O1-3 RAFT/MADIX copolymerization of vinyl acetate and 5,6-benzo-2-methylene-1,3-dioxepane (BMDO)
G. Gomez d'Ayala, P. Laurienzo, M. Malinconico, A. Tardy, Y. Guillaneuf, M. Lansalot, F. D'Agosto, B. Charleux
- O1-4 Concept of SARA ATRP of hydrophilic monomers in aqueous solutions containing intermediate redox system
C. Visniveskij, R. Makuska
- O1-5 Hybrid radical/catalytic mechanisms for the copolymerization of ethylene and polar vinyl monomers
V. Monteil, A. Leblanc, E. Grau, C. Boisson, R. Spitz
- O1-6 Toward polyethylene based-architectures from controlled radical polymerization of ethylene under mild conditions
C. Dommanget, C. Boisson, B. Charleux, F. D'Agosto, V. Monteil, F. Boisson, T. Junkers, C. Barner-Kowollik, Y. Guillaneuf, D. Gigmes
- O1-7 Telechelic polyethylene by catalytic polymerization of ethylene
I. German, W. Kbeljfi, S. Norsic, F. D'Agosto, C. Boisson
- O1-8 Heck coupling with ADMET polymers: a highly versatile and efficient combination for the synthesis of defined polymer architectures
M. Winkler, L. Montero de Espinosa, M.A.R. Meier
- O1-9 Application of CuAAC to the preparation of novel carbohydrate-based materials
R. Roux, A. Guerry, G. Mangiante, S. Halila, S. Cottaz, N. Sintes, A. Charlot, E. Drockenmüller, E. Fleury, J. Bernard
- O1-10 Advanced nanoreinforced polyurethane with thiol-ene photografted organo-modified layered double hydroxide
A. Ramone, A. Diouf-Lewis, F. Delor-Jestin, V. Verney, F. Leroux, S. Caillol, R. Auvergne
- O1-11 Topochemical polymerizations of substituted quinodimethanes
T. Itoh, T. Suzuki, T. Uno, M. Kubo, N. Tobnai, M. Miyata
- O1-12 Radical polymerization in microreactors: improvement of control and development of precision materials
T. Junkers
- O1-13 New horizons for energy-curable waterborne polymers
M. Tielemans, P. Roose, P. De Groot
- O1-14 Method of obtaining water-thinnable unsaturated polyester resins with sulfonate groups
P. Jankowski, D. Kijowska
- O1-15 Size does matter: using lactone ring size as driver for different polymer structures
M.P.F. Pepels, M. Bouyahyi, A. Heise, C.E. Koning, R. Duchateau
- O1-16 Functionalized 1,1-diphenylethylenes. Versatile monomers and functionalizing agents in step growth polymerization and controlled/living polymerization processes
G.J. Summers, M.P. Ndawuni, R.B. Maseko, N.A. Mputumana, M.G. Kasiama, C.A. Summers
- O1-17 A new approach to synthesis of highly branched polymers: 3D radical polymerization in presence of molecular oxygen
M.A. Silantev, S.A. Kurochkin, E.O. Perepelitsyna, V.P. Grachev

- O1-18 Ruthenium carborane complexes for atom transfer radical polymerization of ordinary and functional monomers
I.D. Grishin, E.S. Turmina, D.F. Grishin
- O1-19 Dimer fatty acid-based polyamides synthesis and uses in biocomposites
L. Marchese, K. Klopheus
- O1-20 Natural derivatives of diphenolic acid as substitutes for bisphenol-A in epoxy resins
J. Ertl, E. Cerri, D. Caretti
- O1-21 Biohybrids synthesized by nitroxide-mediated controlled radical polymerization from polysaccharidic materials
D. Tastet, S. Chen, L. Billon, M. Save
- O1-22 Homo- and copolymerization of lactone, lactides and glycolide by aluminum initiators
D. Pappalardo, A. Meduri, M. Lamberti, C. Pellecchia
- O1-23 Regio-selective bromineless bromination of poly (vinyl methyl ketone) as versatile tool for generation active ATRP initiation sites on solid surface
B. Kumru, B. Gure, N. Bicak
- O1-24 Novel versatile and easily polymerizable borazene based polymeric systems – convenient synthesis route of borazene monomers
M. Grünebaum, C. Güntber, H.-D. Wiemböjer
- O1-25 Synthesis of polyether polyols using phosphocholine as initiator
M.M. Velencoso, M.J. Ramos, J.C. Garcia-Martinez, A. De Lucas, J.F. Rodriguez
- O1-26 Propagation kinetics for non-ionized acrylic acid free-radical polymerization in aqueous solution
M. Stach, A. Chovancova, I. Lacik
- O1-27 From glycerol to α,ω -dicyclocarbonate telechelic polymers: valuable precursors towards non-isocyanate polyurethanes (NIPUs)
S.M. Guillaume, L. Annunziata, A.K. Diallo, J.-F. Carpentier, M. Helou, S. Fouquay, G. Michaud, F. Simon, J.-M. Brusson, M. Slawinski
- O1-28 Fast-activated anionic polymerization of ϵ -caprolactam in the bulk under quasi-adiabatic conditions: comparison of kinetic models
S. Russo, S. Maniscalco, P. Moretti, L. Ricco
- O1-29 A ‘click-chemistry’ approach to fire resistant polyurethanes
A.M. Borreguero, M.S. Carmona, M.M. Velencoso, P. Sharma, J.E. Moses, J.F. Rodriguez
- O1-30 Spontaneous polymerization mechanism of 7,7-dicyanoquinone methide with styrene derivatives
H. Kawakita, T.T. Uyen Sa, T. Uno, T. Itoh, M. Kubo, K. Hirai, A. Kajiwara
- O1-31 Bis-cyclic monomers for multifunctional polymers
H. Kenl, S. Mommer, M. Moeller
- O1-32 Bio-inspired cationic polymerization of isoprene and derivatives
S. Ouardad, A. Deffieux, F. Peruch
- O1-33 Chemical vapor deposition of glycidyl methacrylate copolymers containing tertiary amine functionality for low temperature chemical functionalization
M. Karaman, F. Sariipek
- O1-34 Carbohydrate based polyanhydrides from galactaric acid and adipic acid
T. Mehtii, V. Rämö, L. Nurmi, J. Ropponen, A. Harlin
- O1-35 Recent advances in the chemical functionalization of polysulfones
M.A. Tasdelen, C. Dizman, Y. Yagci
- O1-36 Polytricyclononenes: synthesis and gas-transport properties
M.V. Bermeshev, B.A. Bulgakov, A.V. Syromolotov, M.L. Gringolts, V.G. Laktin, L.E. Starannikova, Yu.P. Yampolskii, E.Sb. Finkelshtein
- O1-37 Donor acceptor biobased photocurable poly-L-lysine
H. Koleilat, O. Giani, C. Joly-Dubamel, J.J. Robin

- O1-38 Primary processes by self-initiation of photopolymerization reactions using halogenated (meth)acrylates. Molecular modelling.
S. Naumov, T. Scherzer, W. Knolle, O. Savchuk, K. Heymann
- O1-39 Synthesis and thermally-reversible polymerization of macromonomers derived from epoxidized linseed oil and furan
T.M. Lacerda, A.J.F. Carvalho, A. Gandini
- O1-40 High-performance polymer spheres prepared by phase separation during polymerization
Y. Fujitsu, H. Nakayama, T. Uchida, S. Yamazaki, K. Kimura
- O1-41 Design of well-defined N-vinylamides based copolymers via organometallic-mediated radical polymerization
A. Debuigne, A. Kermagoret, C.-A. Fustin, R. Poli, C. Jerome, C. Detrembleur
- O1-42 New synthesis route of molybdenum doped resorcinol formaldehyde polymer xerogels with tuned porosity
B. Nagy, O. Czakkel, K. Laszlo
- O1-43 Development of a new type of coupling agent for improving the compatibility in various thermoplastic composites and polymer blends
Cs. Varga, L. Bartha
- O1-44 Continuous polymerization in a millifluidic device assisted by microwaves
O. Garagalza, B. Grassl, E. Mignard, F. Sarrazin, S. Reynaud
- O1-45 New synthetic strategies for semiconducting polymers
A.C.J. Heinrich, A. Staubitz
- O1-46 Fluoro-carbide (CF_x) thin films with tunable structure: from a fullerene-like solid to a polymeric material
G.K. Gueorguiev, C. Goyenola, S. Schmidt, L. Hultman
- O1-47 Novel reactive polymeric platforms for metal-free biomolecular immobilization
A. Sanyal

Symposium 2. Advanced characterization and analysis of polymer structure, processability and final properties

- O2-1 Interpenetrated elastomers inspired from double networks hydrogels
E. Ducrot, M. Bulters, C. Creton
- O2-2 Mechanochemistry in supramolecular metallo-polymers
G.L. Fiore, S. Coulibaly, D.W.R. Balkenende, Y.C. Simon, C. Weder
- O2-3 pH-triggered aggregation-desaggregation of amphiphilic diblock copolymers
E. Deniau-Lejeune, C. Chassenieux, O. Colombani
- O2-4 Temperature-induced phase transition in hydrogels of interpenetrating networks poly(N-isopropylacrylamide)/poly(N-isopropylmethacrylamide)
J. Speracek, J. Stastna, L. Hanykova, H. Valentova, Z. Sedlakova
- O2-5 On the trigonal form of *i*-PP in random propylene-based co- and terpolymers containing 1-pentene
P. Stagnaro, L. Boragno, R. Utzeri, F. Azzurri, G.C. Alfonso
- O2-6 Structure gradients in injection-molded PP/MMT composites studied by microbeam SAXS
N. Stribeck, K. Schneider, A. Zeinolebadi, X. Li, Z. Vuluga, S.V. Roth
- O2-7 Gas-phase conformations of helical polymers
P. Palencar, T. Bleha
- O2-8 Polypropylene/polybutene-1 blends for preparation of high load composites
L. Fambri, E. Masarati, E. Costantini, D. Lorenzi, A. Casagrande
- O2-9 The structure of 2,3-exo-disyndiotactic polynorbornene: a combined X-ray diffraction / molecular modelling study
A. Famulari, A. Baggioli, S.V. Meille

- O2-10 Compounding and spinning of polypropylene nanocomposites with fumed nanosilica
I. Dabrowska, L. Fambri, A. Pegoretti, G. Ferrara
- O2-11 Synthesis and swelling properties of poly(alkoxysilane) organogels
H. Bulbul Sonmez, G.O. Aydin, K. Karadag
- O2-12 Universal dynamics of nanorods (carbon nanotubes, cellulose whiskers, stiff polymers and polymer fibers) suspensions
P. Cassagnau, W. Zhang, B. Charleux
- O2-13 Thermoreversible luminescent organogels doped with $\text{Eu}(\text{TTA})_3$ phen complex
M. Cocca, M. L. Di Lorenzo, G. Gentile, M. Avella, D. Gutierrez, M. Della Pirriera, M. Kennedy, H. Ahmed, J. Doran
- O2-14 Novel biologically active phenolic polymers from different species of genera *Symphytum* and *Anchusa* (Boraginaceae)
V. Barbakadze, L. Gogilashvili, L. Amiranashvili, M. Merlani, K. Mulkejanyan
- O2-15 Detection of glass transition of polymer by micro resonator
S. Bose, S. Schmid, T. Larsen, S.S. Keller, A. Boisen, K. Almdal
- O2-16 Effect of mesogen shape on structure of supramolecular aggregates and phase behaviour of soft matter: gallic acid, benzenesulphonic acid and helicene derivatives
M.A. Shcherbina, A.V. Bakirov, U. Beginn, S.N. Chvalun
- O2-17 Advanced characterization techniques to determine tribological end properties of elastomeric products in contact with human skin forgoing living tissue
J. Manhart, D. Lenko, A. Hausberger, S. Schlögl, A. Holzner, R. Schaller, W. Kern
- O2-18 Fluorescence and UV-visible study of temperature induced phase transitions in agarose gels
S. Kara, E. Arda, Ö. Pekcan
- O2-19 Application of state-of-the-art ab-initio calculations for IR spectroscopy of semicrystalline polymers: the case of Nylon 6, Nylon 6,6 and PTFE
A. Milani, C. Quarti, D. Galimberti, C. Castiglioni
- O2-20 FTIR study of blends of polyvinylmethylketone and polyvinylphenol
H. Bourara, Z. Benabdelghani, A. Etxeberria
- O2-21 Tailoring the mechanical properties of isotactic polypropylene by blending samples with different stereoregularity
O. Ruiz de Ballesteros, F. Auriemma, C. De Rosa, R. Di Girolamo, C. Invegitto
- O2-22 Linear and star-shaped POSS hybrid materials containing crystalline isotactic polystyrene chains
M. Vielbauer, G. Reiter, P. J. Lutz, R. Mühlhaupt
- O2-23 Thermo-mechanical behavior of electrospun thermoplastic polyurethane nanofibers
D. Alhazov, A. Grady, P. Denis, P. Sajkiewicz, A. Arinstein, E. Zussman
- O2-24 Bulk-heterojunction based on donor and acceptor polymers via extrusion process for photovoltaic application
A. Nourdine, L. Perrin, N. Alberola, L. Flandin
- O2-25 Humidity response of poly(lactic acid)/ligno-cellulosic composites
A. Gregorova, F. Stelzer
- O2-26 Effect of confining environment of an azo-polymer on birefringent properties
R. Fernandez, C. Ocando, A. Eceiza, A. Tercjak
- O2-27 Hyperbranched urethane acrylates containing xanthate groups
B. Dunjic, B. Bozic, S. Tasic
- O2-28 One-way and two-way reversible shape memory behaviours of networks based on sol-gel cross-linked poly(ϵ -caprolactone)
S. Pandini, F. Baldi, K. Paderni, M. Messori, M. Toselli, F. Pilati, A. Gianoncelli, M. Brisotto, E. Bontempi, T. Riccò
- O2-29 High hard block TPU resins for composite design
C. Nedolisa, C. Lindsay, A. Saiani

- O2-30 Hydrophilic modification of PDMS through blending with PEG: effect on network formation and properties of PDMS-PEG films
A. Panou, K.G. Papadokostaki, M. Sanopoulou
- O2-31 Propagation and H-transfer mechanisms in polyolefin homogeneous catalysis
G. Giammarino, V. Villani
- O2-32 Synthesis, characterization and rheological study of water-soluble triblock copolymers by RAFT polymerization
V.J. Gonzalez Coronel, S.A. Rueda, R.G. Santos, H.M. Textle, S.C. Sanchez, N. Tepale
- O2-33 Strongly non-linear extensional stress in polystyrene melts undergoing large steady rate extensional flows combined with structural characterization by neutron scattering measurements [1]
K. Almdal, O. Hassager, K. Mortensen, A. Bach, H.K. Rasmussen, W. Pyckhout-Hintzen
- O2-34 Small angle X-ray scattering investigation of a comb-like polymer with crystallizable side chains and corresponding macromonomer
A.M. Anderson-Wile, G.W. Coates, F. Auriemma, C. De Rosa, R. Di Girolamo, A. Silvestre
- O2-35 New insights on polymorphic transformation in isotactic poly(1-butene) under tension through “designed” mechanical histories
D. Cavallo, M. Kanters, H. Caelers, G. Portale, L. Govaert
- O2-36 Determination of crystalline elastic constants in polypropylene and its nanocomposite
M. Feuchter, G. Maier, S. Laske, G. Pinter
- O2-37 Dependence of the extensional properties of polypropylene blends on the concentration of long-chain branches
P. Kunzelmann, A. Dörnhöfer, D.W. Schubert
- O2-38 Structural confirmation of synthesised polylactic acid using multiple detection SEC and SELS
B. Sabagh, J. Tessmar, M. Kessler
- O2-39 Morphologies of blends of perfluorocarbon end-functionalized polystyrene and polybutylmethacrylate and mechanical properties of perfluorocarbon functionalized polystyrene
J. Shen, V. Piunova, M. Yurdacan, Y. Zhang, S. Nutt, T.E. Hogen-Esch
- O2-40 Investigation of the chemical coupling between the different layers in metal-plastic hybrids
M. Edelmann, G. Heinrich, M. Bräuer
- O2-41 Solid-state modification as a tool for manufacturing partially renewable poly(butylene terephthalate)-based materials with unique morphologies and thermal behavior
E. Gubbels, L. Jasinska-Walc, B. A. J. Noordover, D. Hermida Merino, J.G.P. Goossens, C.E. Koning
- O2-42 Characterization of polymer nanocomposites and biomaterials using AFM-based nanomechanical, nanothermal, and nanoscale infrared spectroscopy and imaging
A. Dazzi, C. Marcott, M. Lo, E. Dillon, K. Kjoller
- O2-43 Characterization of poly(thiophen-3-yl acetic acid) salts solutions: ageing and thermodynamic/transport properties of aged solutions
G. Hostnik, V. Vlachy, D. Bondarev, J. Voblidal, J. Cerar
- O2-44 Crystalline nanoporous materials based on poly(2,6-dimethyl-1,4-phenylene)oxide
C. Daniel, S. Longo, G. Guerra, M. Galizia, G. Mensitieri
- O2-45 Synthesis and investigation of photophysical properties of novel thioxanthone based oligothiophenes
E. Karaboga, E. Istif, D.K. Balta, N. Arsu
- O2-46 Influence of polyethersulfone (PES) and phenoxy thermoplastics on the fracture toughness in composite materials based on carbon fibers/epoxy resin processed by RTM
W. Ballout, E. Henry, D. Dumont, M. Sclavons, C. Bailly

- O2-47 Electrical conductivity of a composite as a tool for determination of structure of reinforcing filler network
I. Chodak, J. Krajci
- O2-48 Deformation mechanisms in semi-crystalline polymers investigated by x-ray scattering
K. Schneider, S.V. Roth
- O2-49 Shape memory behaviour of poly(cyclooctene) based nanocomposites
A. Dorigato, S. Brazzato, A. Pegoretti
- O2-50 Properties of semicrystalline polymers filled with MWCNT: from molten state to solid state
M. Fernandez, M. Landa, A. Huegun, M. E. Muñoz, A. Santamaria
- O2-51 Fire and mechanical properties of polyamide 6/kaolinite composites
M. Batistella, B. Otazaghine, C. Petter, J.-M. Lopez-Cuesta, L. Fambri
- O2-52 Temperature sensitive particles based on laponite XLS / poly-(N-vinylcaprolactam-co-N-vinylpyrrolidone) nanocomposites
S. Lehmann, K.-F. Arndt
- O2-53 Rigid amorphous fraction evolution during crystallization in PLLA and PHB
M.C. Righetti, E. Tombari
- O2-54 Critical behavior of nanoparticle-containing binary liquid mixtures
P. Stepanek, Z. Bakaeva, P. Cernoch, F. Nallet, L. Noirez
- O2-55 Overall characterization of polyelectrolyte complexes
D. Rupsch, K.-F. Arndt
- O2-56 Manipulating the morphology of fully bio-based polymer blends through nanoparticles-heat resistant formulations based on poly(lactic acid)
A. Nuzzo, S. Carroccio, F. Cicogna, S. Coiai, N. Tz. Dintcheva, C. Gambarotti, G. Filippone
- O2-57 Comparative adhesive performance of random, gradient and block co-polymers of n-butyl acrylate and styrene
A.A Shcherbina, A.V. Shapagin, E.V. Chernikova
- O2-58 Monitoring of the rheological and mechanical properties of recycled HDPE
R. Sauzier, J.-C. Majesté, V. Massardier
- O2-59 Characterisation and properties of nascent multimodal polymers
A.R. Alburnia, D. Jeremic, F. Prades
- O2-60 Silver/polyvinylpyrrolidone composite electrospun nanofibers for enhancing device performance of P3HT:PCBM photovoltaic cell
J.-Y. Chen, W.-C. Chen
- O2-61 Poly(buthylene terephthalate) based composites containing alumina whiskers: influence of filler functionalization on dielectric properties
P. Russo, F. Cimino, D. Acierno, C. Petrarca
- O2-62 How water facilitates ion motion in nylon-6 films
H.P. Huinink, N.J.W. Reuvers, H.R. Fischer, O.C.G. Adan
- O2-63 Structural studies of ionomer membranes made of fluoruous copolymers bearing partially sulfonated polystyrene grafts
R. Narimani, E.M.W. Tsang, A.C.C. Yang, L. Rubatat, S. Holdcroft, B.J. Frisken
- O2-64 Studies on morphological and mechanical properties of injection molded PVDF/BTPC blends
S.K. Tiwari, A. Misra, D.V. Khakhar
- O2-65 Structure-properties relationships in biobased resins produced by the reaction of epoxidized vegetable oil with different amine hardeners
A. Habas Ulloa, J.-P. Habas, V. Lapinte, J.-J. Robin
- O2-66 Cononsolvency in p(S-b-NIPAM) diblock copolymers in aqueous solution
K. Kyriakos, M. Philipp, J. Adelsberger, S. Jaksch, A. Miasnikova, A. Laschewsky, I. Grillo, P. Müller-Buschbaum, C.M. Papadakis
- O2-67 Transport of linear macromolecules in heterogeneous polymer networks
F. Di Lorenzo, S. Seiffert

- O2-68 Main chains and side mesogenic groups mobility in isotropic melts of comb-like polymers
V. Rogozin, A. Zakbryapa, T.S. Fiskevich, S.G. Polushin, E.I. Rjuntsev
- O2-69 Molecular rotors: probes of local polymer dynamics
M. Mauri, A. Bianchi, S. Bonetti, G. Vaccaro, L. Beverina, F. Meinardi, R. Simonutti
- O2-70 PVA-EVAC transition zones studied in real-time by ultrafast laser tomography
A.A. Shcherbina, G. Jonusauskas
- O2-71 Effect of residual solvent on the physical and chemical properties of polymers and polymer materials
J.V. Kostina, G.N. Bondarenko, A.V. Yakimansky, M.Yu. Yablokova, Y.G. Bogdanova
- O2-72 Semi-interpenetrating polymer networks based on an aromatic polyurethane and epoxy resin. Miscibility studies
C.-D. Varganici, L. Rosu, D. Rosu, B.-C. Simionescu
- O2-73 New structured polyurethane rigid foams; impact and fire proof
Z. Safidine, L. Doumandji
- O2-74 Functionalized bio-polyesters by nitroxide radical coupling
S. Coiai, F. Cicogna, I. Domenichelli, P. Rizzarelli, C. Gambarotti, N.T. Dintcheva, G. Filippone, E. Passaglia
- O2-75 Measuring and modeling water transport in multi-layered coatings
V. Baukh, H.P. Huinink, O.C.G. Adan, S.J.F. Erich, L.G.J. van der Ven
- O2-76 Functional characterization in broadband of epoxy polymer structures with carbon nano-inclusions
S. Bellucci, P. Kuzhir, A. Paddubskaya, S. Maksimenko, E. Stefanutti, F. Micciulla, J. Banys, J. Macutkevici
- O2-77 Mechanical properties of PDMA/silica hybrid hydrogels: influence of the particle size on the reinforcement behavior
G. Agoda-Tandjawa, A. Marcellan, D. Hourdet
- O2-78 Modification of polyisoprene-*block*-poly(vinyl trimethylsilane) block copolymers and their gas transport properties
B.N. Gacal, V. Filiz, S. Shishatskiy, S. Rangou, S. Neumann, V. Abetx
- O2-79 Colloids of Pd nanoparticles distributed in arabinogalactan's matrix
E. Gasilova, A. Shenina, G. Aleksandrova, B. Sukehov
- O2-80 Physical networks consisting of poly(*N*-isopropylacrylamide) and clay: Characterisation of the gelling process and the gel properties
A. Grosse, K. Schröter, K.-F. Arndt
- O2-81 Analysis of unknown polymer in aqueous sample by TG-IR-GC/MS
M. Garavaglia, S. Pera
- O2-82 A new rheometer platform for extended polymer testing
J. Länger
- O2-83 Characterization of commercial polyvinylbutyrals
E. Corroyer, C. Didier, S. Wery, N.B. Mohamed
- O2-84 Mass spectrometers as a versatile detector for comprehensive GPC/SEC characterization of macromolecules
P. Kilz, C. Barner-Kowollik, T. Gründling
- O2-85 Effect of internal structure on barrier properties of PP/clay nanocomposite films
P. Sanguansat, T. Amornsakchai
- O2-86 In-situ SAXS study and modeling of the cavitation in semi-crystalline polymers: Influence of temperature and microstructure
B. Xiong, O. Lame, J.M. Chenal, C. Rochas, R. Seguela, G. Vigier
- O2-87 Olefin block copolymers: intriguing cases of microstructure elucidation
C. Descour, D. Cavallo, T. Macko, M. Parkinson, R. Duchateau
- O2-88 Stimuli-responsive assemblies to imitate and control biomolecular systems
D. Kuckling, A. Döring, W. Birnbaum, S. Schmücker

- O2-89 Microstructure and mechanical properties of bulk polyamide 6
C. Millot, O. Lame, L.-A. Fillot, P. Sotta, R. Seguela
- O2-90 Macromonomer formation from activation of ATRP or NMP precursors: radical transfer and migration pathways
J. Vandenberg, T. Junkers
- O2-91 Towards spider silk mimicry with polyurethanes
B. Fernandez-d'Arlas, A. Eceiza
- O2-92 Advances in size characterization of synthetic polymers
S. Preece, B. Cabovska, E.S.P. Bouvier, B.A. Alden, P.C. Iraneta, M. Summers, J. Shia, J. Wilson, M. Savaria, K.D. Wyndham, T.H. Walter
- O2-93 Morphology of polyisobutylene based thermoplastic polyurethanes
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- O2-94 Synthesis of the star-shaped Ir(III)-POSS-terpyridine metallosupramolecular polymers
M.H. Demirel, S. Köytepe, A. Gültek, T. Seckin
- O2-95 Free radical co-grafting of maleic anhydrid and a comonomer in the melt : the best solution to balance grafting and side reactions?
J.-J. Flat, S. Quinebeche
- O2-96 Processing and characterization of UHMWPE/ α -tocopherol-CNTs nanocomposites
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- O2-97 Explosive detection mechanisms in silole- and silafluorene containing photoluminescent polymers: a computational approach
A.S. Ozen, B. Dedeoglu, V. Aviyente
- O2-98 Helical forming poly(2-azanorbornene)s
E. Rossegger, M. Ritter, F. Stelzer, F. Wiesbrock
- O2-99 Interpolymer hydrophilic associates as a satellite product of reactions of formation interpolymer complexes
I.E. Suleimenov, Z. Sedlakova, G.A. Mun, D.B. Shaltykova, D. Kaldybekov, N.V. Semenyakin
- O2-100 Multiscale simulation of carbon nanotube/epoxy nanocomposites
A.A. Gavrilov, P.V. Komarov, P.G. Khalatur, A.R. Khokhlov
- O2-101 Harnessing entropy to direct the bonding/debonding of polymer systems
N.K. Guimard, J. Ho, J. Brandt, C.Y. Lin, M. Namazian, J.O. Mueller, K.K. Oehlenschlaeger, S. Hilf, A. Lederer, M.L. Coote, F.G. Schmidt, C. Barner-Kowollik
- O2-102 Evolution of the microstructure during plastic deformation of semicrystalline polymers evaluated by ultrasonic waves
N. Casiez, O. Lame, S. Deschanel, T. Monnier
- O2-103 Monolith's compression moduli and their impact on permeability under applied pressure
A. Savnik, J. Jancar, N. L. Krajnc, A. Podgornik, A. Strancar
- O2-104 X-Ray microdiffraction for polymer nanocomposite under stress
M. Brisotto, A. Copeta, V. Villa, L.E. Depero, L. Giannini
- O2-105 Surface analysis of silicones and its application to industrial questions
S. Leadley
- O2-106 High throughput materials discovery adventures with polymer microarrays
M.R. Alexander
- O2-107 Nanoscale Raman imaging of polymer-blend thin films
D. Roy, N. Kumar
- O2-108 Morphological evolution of PS-b-PMMA block copolymers inside periodic topographical structures
F. Ferrarese Lupi, T.J. Giammaria, G. Segnini, M. Laus, E. Enrico, N. De Leo, M. Fretto, L. Boarino, M. Perego
- O2-109 Synchrotron IR microspectroscopy and microfocus x-ray scattering studies on transcrystalline isotactic polypropylene
G. Santoro, S. Yu, S.V. Roth, C. Krywka, U. Schade, C. Marco, G. Ellis

- O2-110 Temperature-dependent analysis of the phase separation of polymer blends by Raman imaging microscopy
D. Fischer, M. Unger, H.W. Siesler

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- O3-1 Multidirectional self-assembly mimicking protein folding for single-chain nanoparticle construction
A. Sanchez-Sanchez, J.A. Pomposo
- O3-2 In-situ polymerization of styrene in AAO nanoreactors
J.M. Giussi, I. Blaszczyk-Lezak, M.S. Cortizo, C. Mijangos
- O3-3 Block copolymer for high resolution lithography
C. Reboul, K. Aissou, G. Fleury, C. Navarro, G. Hadziioannou
- O3-4 Control of nanodomains orientation in block copolymer films
A.A. Rudov, I.I. Potemkin
- O3-5 Tailored polymer nanostructures by solvent-annealing-induced nanowetting in templates (SAINT)
J.-T. Chen, C.-W. Lee, M.-H. Chi, I.-C. Yao
- O3-6 Chain arrangement and glass transition temperature variations in polymer nanoparticles under 3D-confinement
D.E. Martinez-Tong, M. Soccio, A. Sanz, C. Garcia, T.A. Ezquerro, A. Nogales
- O3-7 Controlling morphology and dynamics of nano-scale assemblies of amphiphilic copolymers in aqueous environment
O.V. Borisova, L. Billon, B. Grassl, P. Stepanek, Z. Bakaeva, M. Zaremski, E.B. Zhulina, O.V. Borisov
- O3-8 Crystallization of poly(ethylene oxide) nanotubes embedded in cylindrical nanopores
J. Maiz, J. Martin, C. Mijangos
- O3-9 Heterogeneous epoxy networks from crosslinked polymer microparticle dispersions
M.-L. Michon, J. Galy, J.-F. Gerard, T. Dikic, T. Verbrugge, L. Aerts
- O3-10 Stabilisation of nanoparticles in polymer networks
S. Amigoni, A. Zenerino, E. Taffin de Givenchy, D. Josse, G. Frederic
- O3-11 What we learnt from studies of core-shell poly(styrene/ α -tert-butoxy- ω -vinylbenzyl-polyglycidol) microspheres with gradient interfacial layer composition?
T. Basinska, M. Gosecka, A. Tracz, S. Slomkowski, G. Toikka, P. Decorse, M.M. Chebimi
- O3-12 Association of cationic surfactants with anionic/thermosensitive diblock copolymers
E.K. Oikonomou, G. Bokias, I. Iliopoulos, J.K. Kallitsis
- O3-13 From monomers to Janus cylinders: a supramolecular approach
S. Catrouillet, L. Bouteiller, E. Nicol, T. Nicolai, S. Pensec, O. Colombani
- O3-14 Preparation and characterization of the nanocomposites based on polyolefins-TiO₂ nanowires
P.A. Zapata, A. Zenteno, H. Palza, D. Yañez, F.M. Rabagliati
- O3-15 Designer surfaces with smart polymer grafts for molecular sensing
G.J. Vancso, X. Sui, X. Feng, J. Song, M.A. Hempenius
- O3-16 Electron beam lithographic generation of nanostructured polymer brushes on polymer surfaces
C. Padeste, K. Fornal, S. Rütshäuser, V.A. Guzenko
- O3-17 Photochemically prepared, two-component polymer concentration gradients
O. Sterner, A. Serrano, S. Zürcher, S. Tosatti, N.D. Spencer
- O3-18 Design of nanocapsules with a supramolecular shell: Implementing the synthesis process and highlighting the fine structure of the shell
J. Lejeune, N. Sintès-Zydowicz, D. Portinba, F. Lortie

- O3-19 Poly(oligo(ethylene glycol) methacrylates) surfaces for controlled cell adhesion, growth, and thermally induced detachment
A. Dworak, A. Utrata-Wesolek, D. Szveda, B. Trzebicka, A. Kowalczyk
- O3-20 Hydrophobic, self-replenishing coatings for polar substrates
B. Noordover, D. Gunbas, M. Wouters, R. van Benthem, C. Koning
- O3-21 Innovative polymer nanocomposites with clay and graphite intercalate compounds
M. Galimberti, V. Cipolletti, L. Conzatti, M. Mauro, G. Guerra
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E. Kramarenko, G. Stepanov, A. Chertovich
- O3-23 Synthesis of nanosized polymer particles in non-aqueous emulsion
M. Klapper, R. Dorresteijn, R. Haschick, K. Müller, K. Müllen
- O3-24 Mechanical and thermal properties of toughened PA6/HDPE/SEBS-g-MA/clay nanocomposite
M. Attari, A. Arefazarb, G.R. Bakhsbandehc
- O3-25 Consequences of the smectic-isotropic transition on the formation of P3HT nanotubes and nanowires
J. Martin, A. Nogales, M. Martin-Gonzalez
- O3-26 Polyelectrolyte core-shell particles with porous shells by double emulsion template suspension polymerisation
C. Menzel, K. Law, S.G. Yeates
- O3-27 Conductive polymer brushes via template polymerization
M. Szumarynski, J. Kowal, S. Zapotoczny
- O3-28 Real time monitoring of metal nanoparticles growth on polymer template
E. Metwalli, V. Körstgens, A. Buffet, J. Perlich, K. Schlage, S.V. Roth, P. Müller-Buschbaum
- O3-29 Theory of polymer adsorption onto selected chemically patterned surfaces
A.I. Chervanyov, G. Heinrich
- O3-30 All-polysiloxane microspheres with a large number of silanol groups and their further functionalization
S. Slomkowski, W. Fortuniak, J. Chojnowski, P. Pospiech, J. Kurjata
- O3-31 Polymer brush grafted magnetic nanoparticles for highly efficient water remediation
B. Yameen, H. Duran, A. Farrukh, A. Akram, S. Hanif, A. Hamid, A. Ghaffar
- O3-32 Lubrication by polymer brushes: the role of the phosphatidylcholine unit
O. Tairy, N. Kampf, J. Klein
- O3-33 The influence of PEG length on properties of peptide surfaces in enzyme assays
B. Trzebicka, R. Trzcinska, J. Kubacki, J. Silberring, A. Dworak
- O3-34 Ultrathin polymer films by single molecule deposition
M. Wübbenhorst, S. Capponi, B. Vanroy, A. Kasina, S. Napolitano
- O3-35 Electrospun polymer-based nanocomposite membranes
T. Krasia-Christoforou
- O3-36 Influence of CNT dispersion state on filler/matrix interface during breakage in MWNT nanocomposites
M. Pras, J. Duchet-Rumeau, L. Golanski, J.-F. Gerard
- O3-37 Preparation and characterization of functional nano-fibers of carbon-nanotubes-polythiophenes- fullerenes via electrospinning
R. Yerushalmi-Rozen, C. Bounioux, E.A. Katz, E. Zussmann, Y. Dias, R. Avrahami, A.I. Shames
- O3-38 Vesicles formed by polymer-surfactant supramolecular complexes
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- O3-39 Perspectives of aerosol-photopolymerization
E. Akgün, M. Vranceanu, B. Sachweh, J. Hubbuch, M. Wörner
- O3-40 Cationically UV-cured functional coatings
M. Sangermano, S. Medel, P. Bosch, M. Martin-Gallego, M.A. Lopez-Manchado

- O3-41 Water-developable photoresists
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- O3-42 Hollow block copolymer nanocages and nanotubes through a spontaneous one-step structural reorganization
M.P. Robin, N. Petzetakis, J.P. Patterson, E.G. Kelley, P. Cotanda, P.H.H. Bomans, N.A.J.M. Sommerdijk, A.P. Dove, T.H. Epps, III, R.K. O'Reilly
- O3-43 Hybrid polymer/lipid vesicles as biomimetic membranes: towards the control of lipid distribution
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- O3-44 Design of platforms for selective biorecognition
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- O3-45 UV-induced hydrosilation for preparation of silicone polymers and composite silicone materials
S. Marchi, M. Sangermano, P. Meier, X. Kornmann
- O3-46 Fabrication of polyimide particles using *in-situ* imidization process
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- O3-47 Encapsulation of RNA-polyelectrolyte complexes with amphiphilic block copolymers: toward a new self-assembly route
L. Bui, S. Abbou, E. Ibarboure, N. Guidolin, C. Staedel, J.J. Toulmé, S. Lecommandoux, C. Schatz
- O3-48 Surface free energy study of biocompatible polyurethanes with added calcium carbonate nanoparticles
L.P. Higueta, H. Casanova, L.F. Giraldo
- O3-49 Structure and dynamics of hyperbranched polymers / layered silicate nanocomposites
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- O3-50 Fragrance encapsulation in polymeric matrices by emulsion electrospinning
A. Camerlo, C. Vebert-Nardin, R. Rossi, A.-M. Popa
- O3-51 Polyamide/polyesteramide nanomaterials
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- O3-52 Swelling behaviour and permeability switching in light-responsive amphiphilic polymer conetworks
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- O3-53 Morphology of peculiar chitosan nanostructures deposited on a substrate surface from carbonic acid: an advanced solvent
M.A. Khokhlova, M.O. Galyamov, A.R. Khokhlov
- O3-54 The effect of annealing conditions on the intercalation and exfoliation of layered silicates in polymer nanocomposites
A. Frache, S. Ceccia, O. Monticelli, A. Casale, G. Camino
- O3-55 Supported ionic liquid phase catalysis based on molecularly imprinted polymers as carriers (MIPSILP)
W. Fürst, O. Brüggemann
- O3-56 Extraction of alpha-fetoprotein (AFP) with magnetic albuminimprinted poly(ethylene-co-vinyl alcohol) nanoparticles from HepG2 culture medium
M.-H. Lee, K.-M. Hsu, H.-Y. Wang, W.-J. Yang, H.-Y. Lin
- O3-57 Dispersing individual single-walled carbon nanotubes by ultrasonication
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- O3-58 Stimuli responsive materials based on cellulose nanocrystals containing nanocomposites
E.J. Foster, S. Kumar, P. Annamalai, C. Weder
- O3-59 Responsive hydrogels with excellent mechanical properties for application in MEMS
B. Ferse, K.-F. Arndt, I. Mönch

- O3-60 UV-protection of green houses and wood for outdoor applications using zinc oxide nanoparticles
R. Benavides Perez, J.G. Bocanegra Rojas, C.S. Tena Salcido, G.E. Morales Bolado, O.S. Rodriguez Fernandez
- O3-61 Nanoscopy of photo-emitting host-guest systems
F. Tantussi, A. Bacci, M. Allegrini, F. Fuso, A. Pucci, G. Ruggeri
- O3-62 Covalent and dynamic bonding of polymers on gold nanoparticles
H. Tenhu
- O3-63 Hierarchical self-assembly of poly(N,N-dimethylacrylamide)-*block*-polystyrene “crew-cut” aggregates
S. Bonetti, A. Bianchi, M. Mauri, M. Kappl, H.-J. Butt, K. Koynov, R. Simonutti
- O3-64 Anomalous self-assembly and co-assembly of double hydrophilic block copolymer poly(4-hydroxystyrene)-*block*-poly(ethylene oxide) and its polyelectrolyte derivatives in aqueous solutions
M. Stepanek, J. Hajduova, K. Prochazka, B. Angelov, M. Slouf, G. Mountrichas, C. Mantzaridis, S. Pispas
- O3-65 Flow-induced coalescence of block-copolymers and polymer coated nanoparticles stabilized drops
C. Vannozzi
- O3-66 Crystallization of thin polymer layers confined between two adsorbing walls
B. Vanroy, M. Wübbenborst, S. Napolitano
- O3-67 Functional films from unsaturated poly(macrolactones) via thiol-ene click combined with surface initiated ARGET-ATRP
Z. Ates, F. Andouin, A. Heise
- O3-68 Novel flexible and transparent PI-TiO₂ hybrid films with tunable refractive index and excellent thermally stability
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- O3-69 Functionalized native nanocelluloses
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L. Jiang, H.E. Assender
- O3-71 Segmental mobility at near-surface layers of poly(ethylene) revealed by plasma-induced thermoluminescence technique
D.V. Lebedev, E.M. Ivankova, L.P. Myasnikova, V.A. Marikhin, P.N. Yakushev
- O3-72 Hybrid PANI/CNT nano-composites prepared by an inverse emulsion polymerization technique
R. Suckeveriene, G. Mechrez, M. Narkis
- O3-73 Borax-induced gelation of glycopolymers after one-pot synthesis in water
E.K. Oikonomou, E. Audebeau, S. Norvez, I. Iliopoulos
- O3-74 Polydendrons: New branched dendritic-linear hybrid materials
S. Rannard, F. Hatton, P. Chambon, A. Dnyer, H. Rogers
- O3-75 Preparation of catalytic hyper-cross-linked polyHIPE polymers
G. Akay, P.P. Greco, H. Hasan, D. Thumbarathy
- O3-76 Photo-sensitive RAFT agents for advanced glyco-material design
M. Kaupp, A. Hirschbiel, A.P. Vogt, V. Trouillet, T. Hofe, M.H. Stenzel, C. Barner-Kowollik
- O3-77 UV assisted microcellular foaming – A new approach towards the formation of 3D structures in offset printing techniques
S. Schlögl, M. Reischl, V. Ribitsch, W. Kern
- O3-78 Glyco-engineering: from polymersomes to functional surfaces
A.M. Eissa, N.R. Cameron
- O3-79 Controlling the morphology of polymers on multiple scales
G. Mitchell, A. Tojeira

- O3-80 Investigations on the multiple role of POSS and M-POSS in the formation of polymer hybrid systems
O. Monticelli, L. Gardella, E.S. Cozza, A. Fina, F. Carniato, A. Frache, S. Bocchini, D. Cavallo
- O3-81 Confined crystallization of poly(ethylene oxide) (PEO)
A. Altay, H. Goossens
- O3-82 Poly-p-xylylene/PbS nanocomposites synthesized by VDP-method
S.A. Ozerin, P.V. Morozov, Y.V. Zubavichus, E.I. Grigoriev, A.S. Orekhov, A.L. Vasiliev, S.A. Zavyalov, S.N. Chvalun
- O3-83 Nanostructured thermoplastic elastomers based on SBS triblock copolymer stiffening with low contents of epoxy system
C. Ocando, R. Fernandez, A. Tercjak, I. Mondragon, A. Eceiza
- O3-84 RAFT vs. ATRP polymerization of N-(tris(hydroxymethyl)methyl)-acrylamide for new nonfouling polymer brushes
F. Surman, C. Rodriguez-Emmenegger, A. de los Santos Pereira, V. Subr, M. Houska, D. Kankova, Z. Sedlakova
- O3-85 Molecular dynamics simulation of the adhesives and elongational properties of acrylic polymers
A. Anastassiou, V.G. Mavrantzas
- O3-86 Conductive PVDF-HFP nanofibers with embedded TTF-TCNQ charge transfer complex
R. Gal-Oz, N. Patil, R. Khalfin, Y. Cohen, E. Zussman
- O3-87 Field-regulated force by grafted polyelectrolytes
C. Seidel, Yu.A. Budkov, N.V. Brilliantov
- O3-88 Dynamics and phase transitions of polymeric materials: from bulk to attograms of matter
A. Sergej, T.P. Russell
- O3-89 Computer modeling of star polymeric molecules with diblock arms
W.C. Snope
- O3-90 Simulation of adhesion of polymer coatings on the surface of steel sheets
A. Maksimov, O. Maksimova, E. Ershov, I. Varfolomeev
- O3-91 Amphiphilic polyelectrolytes as a tool for embedding photoactive molecules in the polyelectrolyte multilayers
M. Kopeck, S. Zapotoczny, A. Laschewsky, M. Nowakomska
- O3-92 Dynamics of dendritic polymers in the bulk and under confinement
K. Chrissopoulou, S. Fotiadou, I. Tanis, K. Karatasos, B. Frick, S.H. Anastasiadis

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- O4-1 (1→4)- α -L-gulonon in the design and synthesis of biohybrid glycopolymers and chimeric polysaccharides capable of ionotropic gelation
L. Albertin, A. Ghabban, A. Wolnik, E. Reynaud, L. Dumas, M. Rinaudo, A. Heyraud, F. Dubreuil, K. Mazzeau
- O4-2 Mild and ecofriendly modifications of cellulose fibers toward functional biomaterials
G. Mangiante, P. Alcouffe, B. Burdin, M. Gaborieau, E. Zeno, M. Petit-Conil, J. Bernard, A. Charlot, E. Fleury
- O4-3 Mechanical reinforcement and water repellency induced to cellulose sheets by a polymer treatment
F. Ayadi, I.S. Bayer, D. Fragouli, I. Liakos, R. Cingolani, A. Athanassiou
- O4-4 Preparation and characterization of polystyrene/starch blends
M. Berruexo, L.N. Ludueña, A.L. Stocchi, E. Rodriguez, V.A. Alvarez

- O4-5 The effect of functionalized blending on the properties of PLA composites with micro- and nano- cellulose fibers
M. Pracella, M.-U. Haque
- O4-6 New biodegradable PEGylated polymers synthesis by nitroxide mediated living radical polymerization, for biomedical applications
V. Delplace, A. Tardy, Y. Guillaenuef, P. Couvreur, J. Nicolas
- O4-7 Sugar-based aromatic copolyesters: A comparative study regarding isosorbide and diacetalized alditols as comonomers
C. Lavilla, A. Martinez de Ilarduya, A. Alla, M. G. Garcia-Martin, J.A. Galbis, S. Muñoz-Guerra
- O4-8 Synthesis and study of the oligo(ether-ester)s based on fatty acid waste
G. Ahmetli, Z. Yazicigil, U. Soydal, A. Aydin
- O4-9 Nanoparticulate-containing nanofibres
S.D. Mohan, F.J. Davis, G.R. Mitchell
- O4-10 Synthesis of hybrid polypeptide bioconjugates *via* the combination of RAFT and N-carboxy anhydride (NCA) polymerisation
J. Jacobs, A. Heise
- O4-11 Effect of structural factors on the reactivity of xylans in graft copolymerization
K. Littunen, G. Mai-Gisoni, E. Master, J. Seppälä
- O4-12 Saponins: A sustainable surfactant. From its microwave-assisted extraction to the synthesis of monodispersed latexes.
S. Reynaud, G. Lespes, J. Desbrières, C. Schmitt, B. Grassl
- O4-13 Aeropectin, an aerogel-like ultra-light and highly porous pectin as promising thermal insulating material
C. Rudaz, S. Calas-Etienne, R. Courson, T. Budtova
- O4-14 Environmental protections by using packages with improved biodegradability based on new biorelated nanocomposites
D. Dimonie, P. Marius, G. Marius, C. Damina, R. Socoteanu, S. Doncea, L. Jecu, L. Anton
- O4-15 Novel renewable isomannide-based polyesters and polyamides
C. Koning, J. Wu, L. Jasinska-Walc, B. Noordover, D. van Es
- O4-16 Blending polyhydroxybutyrate with tannic acid: a way to enlarge the processability window
M. Auriemma, R. Pasquino, P. Cerruti, M. Malinconico, N. Grizzuti
- O4-17 Applications of DNA gel for recovery of metal elements from aqueous medium and preparation of noble metal nanoparticle
Y. Miwa, Y. Maeda, A. A. Zinchenko, S. Murata
- O4-18 Development of an enzymatic strategy to replace heavy-metal catalysts from paints
K.J. Greimel, V. Perç, E. Scholç, K. Härnvall, E.H. Acero, G.M. Guebitç
- O4-19 Xylan based bionanocomposites
G. Bayramoglu, S. Aydin, R. Zengingönül
- O4-20 Application of strain-induced crystallization of poly(lactic acid) towards bottle production
P.J.A. Lohmeijer, J.G.P. Goossens
- O4-21 Cellulose-silica hybrid aerogels from “one-pot” synthesis
A. Demilecamps, T. Budtova, A. Rigacci
- O4-22 Ice templated chitosan based hydrogels with tuned swelling and sorption properties
E.S. Dragan, M.V. Dinu
- O4-23 Development of blends of triticale (x triticosecale wittmack) starch
S. Solorçano, C. Tramon, C. Tapia, C. Perezç
- O4-24 Bio-based polyurethanes from castor oil modified and poly(ϵ -caprolactone)diol for surface coating applications
M.F. Valero

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L.M. Timofeeva, N.A. Kleshcheva, M.O. Shleeva, A.S. Kaprelyants
- O4-26 Nanofibrous polymeric microfiltration membranes based on poly(ricinoleic acid) with antibacterial activity
L. Paltrinieri, M.L. Focarete, C. Gualandi, M. Vannini, D. Di Gioia, L. Sisti, A. Celli
- O4-27 New N-vinyl-pyrrolidone based nanoreactors encapsulating laccase
M. Spulber, N. Bruns
- O4-28 Functional materials from polysaccharides
V. Ribitsch, K. Stana-Kleinschek
- O4-29 Development of hard and scratch-resistant photo-polymerizable coatings based on bio-sourced monomers, for thermoplastic substrates
E. Prandato, M. Melas, J. Auclair, V. Verney, E. Fleury, F. Méchin
- O4-30 Studies on melt-spun nanocomposite fibres based on biopolymers and cellulose whiskers
M.J. John, A.P. Mathew, R.D. Anandjivala, K. Oksman
- O4-31 Nanocrystalline cellulose-containing thermoresponsive poly(N-vinylcaprolactam) nanocomposite hydrogels
R. Sanna, V. Alzari, D. Nuvoli, E. Fortunati, J.M. Kenny, A. Mariani
- O4-32 Compatibilization of natural fibres/thermoplastics eco-composites
L. Conzatti, F. Giunco, A. Patrucco, C. Marano, E. Marsano, P. Stagnaro
- O4-33 Synthesis of biodegradable polyesters with carboxyl groups via cationic polymerization and their aggregation in the presence of metal cations
M. Bednarek, T. Biedron, P. Kubisa
- O4-34 Durability of polylactide-based nanocomposites in different environments
L. Zaidi, S. Bruzaud, M. Kaci, Y. Grobens
- O4-35 Influence of processing pathway on the properties of sisal fibre reinforced polypropylene composites
C. Burgstaller, J. G. Garre Martinez, B. Purgleitner
- O4-36 Synthetic principles determining supramolecular assembly in biobased polyamides
L. Jasinska-Walc, A.A. Wroblewska, A. Zych, A. Rozanski, D. Dudenko, M.R. Hansen, R. Duchateau, C.E. Koning
- O4-37 Biocontrol of waterborne paint resin degradation by using of galvanic microcells
J. Barton, W. Spisak, K. Czaja
- O4-38 Biomacromolecules as novel green flame retardants for cotton fabrics
J. Alongi, R.A. Carletto, F. Carosio, A. Di Blasio, F. Bosco, G. Malucelli
- O4-39 Removal of mercury using microcapsules containing TOMAC and DEHPA extractant agents
A. Alcazar, A. de Lucas, J.F. Rodriguez, M. Carmona
- O4-40 Production of polyurethane soft foams from liquefied lignin
P. Cinelli, I. Anguillesi, A. Lazzeri
- O4-41 Modification of polysaccharides by nitroxide-mediated polymerization
G. Moreira, C. Lefay, L. Charles, D. Gimes
- O4-42 Synthesis of nanoparticles stabilized by hydrophilic alginate-based polymers
I. Chaduc, E. Reynaud, L. Dumas, L. Albertin, F. D'Agosto, M. Lansalot
- O4-43 Barrier and dynamic mechanical properties of hybrid PVA-NFC nanoclay films
S. Spoljaric, A. Salminen, J. Vartiainen, T. Tammelin, J. Seppälä
- O4-44 Bio-nanocomposites of poly(butyl succinate)-chitosan: Mechanical, thermal, rheological and biodegradation properties
F. Patwary, V. Mittal

**Symposium 5. Polymers and sustainable development: Energy saving and recovery;
Food applications; Recycling and life cycle assessment**

- O5-1 Self-healing materials via reversible crosslinking of poly(ethylene oxide)-*block*-poly(furfuryl glycidyl ether) (PEO-*b*-PFGGE) block copolymer films
M.J. Barthel, T. Rudolph, A. Teichler, R. Paulus, J. Vitz, S. Hoepfener, M.D. Hager, F.H. Schacher, U.S. Schubert
- O5-2 PLA based nanocomposites: influence of the nanofiller shape, composition and surface treatment on the morphology and gas barrier properties
E. Picard, F. Morel, V. Bounor Legaré, R. Fulchiron, E. Espuche
- O5-3 Polymer-clay nanobrick wall thin films as transparent foil replacement for food packaging
J.C. Grunlan, M.A. Priolo
- O5-4 Impact on thermomechanical behaviour of a maleic anhydride grafted ABS on ABS/PC multi-layered blends
M. Gervais, A. Alkbuder, A. Grandmontagne, A. Guinault, C. Sollogoub
- O5-5 Investigation of controlled migration of anti-fog additives in thin polyolefin products
J. Rosen, R. Suckeveriene, R. Tchoudakov, M. Narkis
- O5-6 Ultra fast, catalyst-free hetero Diels-Alder chemistry for on demand cyclable bonding/debonding materials
K.K. Oehlschlaeger, N.K. Guimard, J. Brandt, J.O. Mueller, S. Hilf, A. Lederer, F.G. Schmidt, C. Barner-Kowollik
- O5-7 Valorisation of recycled polymer wastes for industrial applications: a computational modelling of mechanical performances and Life Cycle Analysis
J. Beigbeder, J.S. Wienin, S. Corn, R. Leger, P. Ienny, J.M. Lopez-Cuesta, K. Tarverdi, K. Qi
- O5-8 Synthesis and characterization of silica from rice husk ash as filler for SBR rubber
S. Caputi, D. Mosca, C. Mantero, P. Raimonda
- O5-9 Gas and vapour transport in polymers of intrinsic microporosity
J.C. Jansen, E. Tocci, L. De Lorenzo, P. Bernardo, G. Clarizia, F. Bazzarelli, K. Friess, P.M. Budd, N.B. McKeown
- O5-10 Drawing effects on poly(lactic acid) water barrier properties
N. Delpouve, A. Saiter, G. Stoclet, S. Marais, E. Dargent
- O5-11 Melt rheology as a tool to assess PLA and PBAT photodegradation - biodegradation relationships
V. Verney, A. Ramone, F. Delor-Jestin, S. Commereuc, M. Koutny, P. Stlonkal, C. Pimbert, G. Perchet, J. Barrière, J. Troquet
- O5-12 Innovative approach for ecological grease synthesis
J. Drabik, J. Ilowska, B. Bereska
- O5-13 Novel bio-based sulfonated polyester: Synthesis, characterization and properties
A. Bougarech, F. Gouanvé, E. Espuche, M. Abid, S. Abid, R. El Gharbi, E. Fleury
- O5-14 Biodegradable plastics containing refuse derived products
E. Montoneri, S. Tabasso, F. Franzoso, D. Antonioli, K. Sparnacci, M. Laus

Symposium 6. Polymers for biomedicine, pharmaceuticals, and healthcare systems

- O6-1 Design and synthesis of biodegradable polyesterurethanes as scaffolds for spinal cord tissue repair
F. Rasoul, B.L. Dargaville, A.S. Micallef, F. Filardo, A.K. Whittaker, E.C. Tsai, M.S. O'Shea
- O6-2 Micellar dendritic structures as drug delivery agents
R. Sanyal

- O6-3 Generating a new antimicrobial PDMS surface using cellobiose dehydrogenase
B. Thallinger, M. Brandauer, K. Bleymaier, C. Sygmund, R. Ludwig, G.S. Nyanbongo, G.M. Gübitz
- O6-4 Biocompatible nanoparticles as delivery systems for antisense ODN for exon skipping-mediated dystrophin restoration
K. Sparnacci, M. Laus, A. Ferlini, P. Rimessi, E. Bassi, S. Falzarano, P. Braghetta, P. Bonaldo
- O6-5 Oxidation-responsive biomaterials: the response depends on the oxidant
N. Tirelli
- O6-6 Synthesis and characterization of thermoresponsive drug delivery systems based on PNIPAM modified silica nanoparticles
D. Scalarone, I. Mileto, G. Berlier, V. Brunella
- O6-7 Stimuli-responsive degradation: a versatile platform for multifunctional drug delivery nanocarriers with enhanced/controlled release
S. Alexanian, Q. Zhang, N. Chan, B. Khorsand, J.K. Oh
- O6-8 Development of cholesterol-containing aliphatic polycarbonatebased block copolymers for drug delivery applications
S. Venkataraman, A.L.Z. Lee, J.L. Hedrick, Y.Y. Yang
- O6-9 Nanoparticles with in vivo anticancer activity from well-defined polymer prodrug amphiphiles
S. Harrisson, J. Nicolas, A. Maksimenko, J. Mougín, P. Couvreur
- O6-10 Biomaterials for wound healing: new sprayable polysaccharides based hydrogels
M.C. Straccia, P. Laurienzo, M. Malinconico, G. Santagata, I. Romano
- O6-11 Macromolecular HPMA-based nanoparticles with cholesterol for solid tumour targeting: how do they look like from inside. The origin of functionality
S.K. Filippov, P. Chytil, P.V. Konarev, M. Dyakonova, C.M. Papadakis, A. Zbigunov, J. Pleštil, P. Štepanek, T. Etrych, K. Ulbrich, D.I. Svergun
- O6-12 Smart drug delivery systems from linseed oil
L. Hespel, G. Morandi, L. Lecamp, F. Burel
- O6-13 Heparin-based bioconjugates synthesized by a combination of ATRP and click chemistry
F. Reyes-Ortega, F.J. Parra-Ruiz, S.E. Averick, G. Rodríguez, M.R. Aguilar, K. Matyjaszewski, J. San Roman
- O6-14 Control of strand registry by attachment of PEG chains to amyloid peptides influences nanostructure
V. Castelletto, G. Cheng, S. Furzeland, D. Atkins, I.W. Hamley
- O6-15 Hydrophobic and hydrazide functionalized hyaluronic acid derivative for the production of chemotherapeutics releasing biomaterials
F.S. Palumbo, G. Pitarresi, C. Fiorica, M. Di Stefano, G. Giammona
- O6-16 Glycogen as a biodegradable polymer carrier for diagnostics
M. Hruby, S.K. Filippov, O. Sedlacek, M. Vetric, J. Kovar, D. Jirak
- O6-17 Photochemical cross-linking of natural and synthetic latices via thiol-ene reaction
D. Lenko, S. Schlögl, R. Schaller, A. Holzner, W. Kern
- O6-18 Highly ordered scaffolds for tissue engineering applications from O/W emulsions and foams
M. Costantini, C. Colosi, J. Guźowski, A. Tosato, A. Barbeta, P. Garstecki, M. Dentini
- O6-19 Targeted poly(ester ether urethane)s nanoparticles for theranostic applications
A.M. Piras, S. Sandreschi, C. Bartoli, M. Dash, C. Ravagli, G. Baldi, C. Innocenti, C. Sangregorio, P. Arosio, F. Orsini, A. Lascialfari, G. Loudos, D. Psimadas, F. Chiellini
- O6-20 Designing biomaterials exploiting peptide self-assembly
A.F. Miller, A. Saiani
- O6-21 New multifunctional PEGs for the design of smart drug carriers and hydrogels
E. Sokolovskaya, S. Rahmani, J. Yoon, S. Braese, J. Labann

- O6-22 Grafting of antibacterial ammonium monomers onto PET surface
C. Lisanti, G. Gozzelino, S. Beneventi
- O6-23 Synthesis and in vitro evaluation of a novel polymeric excipient for buccal application
F. Laffleur, A. Bernkop-Schnürch
- O6-24 Smart photo crosslinked polymersomes as multifunctional device for drug delivery and biological tasks
M. Yassin, D. Appelhans, A. Temme, B. Voit
- O6-25 Water-soluble graft poly(organophosphazenes) with pH-assisted degradation behavior
S. Wilfert, A. Iturmendi, O. Brüggemann, I. Teasdale
- O6-26 Polyphosphate-based copolymers for drug delivery applications
S. Vanslambrouck, B. Clément, R. Riva, V. Preat, L.H. Koole, D.G.M. Molin, P. Lecomte, C. Jerome
- O6-27 Drug delivery of bone therapeutic drugs from biorelated polyelectrolyte complex films
B. Torger, D. Veblov, B. Woltmann, U. Hempel, D. Weber, R. Schwartz-Albiez, D. Appelhans, M. Müller
- O6-28 Stimuli-responsive macromolecules: Polymer-protein conjugates and sugar-responsive micelles
J.N. Cambre, D. Roy, A.P. Bapat, H. Li, M. Li, P. De, B.S. Sumerlin
- O6-29 Polysaccharide-based copolymers as stable coatings for cardiovascular stents
E. Michel, A. Barrère, P. Chevallier, D. Mantovani, D. Letourneur
- O6-30 Click chemistry for designing antibacterial PVC surfaces
J. Lafarge, N. Kebir, D. Schapman, F. Burel
- O6-31 Cell proliferation and accelerated cell sheet detachment from versatile nanocomposite hydrogels of PNIPAm and hectorite clay
T. Wang, D. Liu, X. Liu, Z. Tong
- O6-32 Rapid prototyping of hydrogels for tissue engineering scaffolds
C. Colosi, M. Costantini, S. Ciccarelli, A. Barbetta, M. Dentini
- O6-33 Functional keratin as structural platforms
J.M. Cardamone, M.E. Hall
- O6-34 Failure of silicone breast implants - new insights by mapping the mechanical properties of implant shells
D.W. Schubert, J. Kaschta, R.E. Horch, B.L. Walter, J. Daenicke
- O6-35 NCA polymerisation for the creation of functional enzyme-responsive hydrogels
P.D. Thornton, N.R. Cameron
- O6-36 Poly(2-oxazolines) with different architecture for drug delivery
J. Kronek, M. Mikulec, A. Zaboranova, Z. Kronekova, E. Paulovicova, L. Paulovicova, P. Farkas
- O6-37 Biomedical applications of polymer-hybrid nanostructured ceramic materials
J.H. Chang
- O6-38 Structural changes diblock copolymer vesicles induced by temperature variations
S. Hocine, L.-J. Jia, D. Cui, A. Di Cicco, M.-N. Rager, M.-H. Li, A. Brulet
- O6-39 Encapsulation of hydroxyapatite nanoparticles into poly(D,L-lactide-co-glycolide) nanosphere using double emulsion technique
K. Bootdee, M. Nithitanakul, B.P. Grady
- O6-40 New platforms for prolonged drug delivery based on responsive hydrogels of controlled structure and fine-tunable properties
D. Christova, B. Kostova, K. Ivanova-Mileva, S. Ivanova, D. Rachev
- O6-41 Functional, star polymeric molecular carriers, built from biodegradable microgel/nanogel cores for drug delivery
C. Boyer, J. Liu, H. Duong, M.R. Whittaker, T.P. Davis, D. Haddleton, M. Kavallaris
- O6-42 Macromolecular ligands for gadolinium MRI contrast agents: effect of polymer architecture
Y. Li, M. Beija, S. Laurent, L. van der Elst, R.N. Muller, H.T.T. Duong, A.B. Lowe, T.P. Davis, C. Boyer

- O6-43 Synthesis of waterborne azetidinium functionalized multifunctional polymers via a coupler approach and their applications towards antimicrobial textile finishing
S. Chattopadhyay, E. Heine, H. Keul, M. Moeller
- O6-44 Synthesis of 8-arm star glycopeptide copolymers from PPI dendritic initiators
A. Kapetanakis, A. Heise
- O6-45 Microstructural modulation of polymeric chains by RAFT polymerization: a role in biological activity
A. Serbin, E. Sivtsov, A. Gostev, A. Shtil, E. Karaseva, B. Bolsbchikov, V. Tsvetkov
- O6-46 Novel antimicrobial micro- and nanofibrous materials in wound dressing applications
M. Ignatova, N. Manolova, I. Rashkov
- O6-47 From hierarchical selforganisation towards polymer systems with functional and active properties
M. Möller, A. Mourran, T. Weyand, J. Wang
- O6-48 Tuning the shell composition of polymeric cylinders from diblock copolymers bearing a poly(L-lactide) core
A. Pitto-Barry, A.P. Dove, R.K. O'Reilly
- O6-49 Stimulus-responsive polymer nanoreactors for efficient photodynamic therapy
P. Baumann, V. Balasubramania, O. Onaca-Fischer, A. Sienkiewicz, C. Palivan
- O6-50 Antimicrobial and biodegradable PLGA medical sutures with natural grapefruit seed extracts
H.S. Lee, J.H. Chang
- O6-51 Layer-by-layer self assembly biological thin film containing elastin for medical devices
S. Shiratori, H. Nara
- O6-52 Transversal porosity gradient in electrospun biopolyester nanofibrous membranes for directional drug delivery
N. Lavielle, A.-M. Popa, M. de Geus, A. Hébraud, G. Schlatter, L. Thöny-Meyer, R.M. Rossi
- O6-53 N-Alkylammonium 2-acrylamido-2-methylpropane sulfonates: polymerization and properties of the resulting polymers
A.Yu. Bilibin, T.M. Shcherbinina, I.M. Zorin
- O6-54 Self-cleaning membranes for implanted glucose biosensors
M.A. Grunlan, R. Fei, G.L. Coté, A.A. Abraham
- O6-55 Polypeptoids as biomaterials
C. Fetsch, R. Luxenhofer
- O6-56 Electrospinning of bio-based polymers for preparation of nanofibrous materials for biomedical applications – strategies and challenges
N. Manolova, I. Rashkov
- O6-57 Design of bioactive surfaces via reactive CVD coatings: multiple applications in bioanalytics and for new cell culture substrates
F. Bally, S. Giselbrecht, U. Bog, B. Waterkotte, P. Nikolov, J. Lahann
- O6-58 New arginine-containing cationic polymers for intracellular gene delivery
N. Zavradasvili, T. Memanishvili, N. Kupatadze, D. Tugushi, C. Wandrey, L. Baldi, X. Shen, R. Katsarava
- O6-59 Developing delivery systems with OTC encapsulated in biopolymer with potential to modulate the burst effect.
S.A. Kleinubing, D.C. Seraphim, C.L. César, L.H.I. Mei
- O6-60 Protein immobilization on highly functional polymer grafted polyHIPEs
F. Audouin, R. Larragy, B. O'Connor, A. Heise
- O6-61 Ion channels mimics displaying anti-tumoral activity
S. Peyrat, M. Liu, D. Destouches, A. Bertova, K. Ondrias, J. Courty, J. Penelle, V. Barbier
- O6-62 Microencapsulation technologies for oral delivery of live bacteria
M.T. Cook, G. Tzortzis, D. Charalampopoulos, V. Khtutoryanskij

- O6-63 Droplet microfluidics as a tool to develop copolymer drug micro-carriers with tunable drug release properties
I.U. Khan, C.A. Serra, T. Vandamme, N. Anton
- O6-64 Design and synthesis of doubly porous functionalized PHEMA-based materials meant for tissue engineering applications
B. Le Droumaguet, R. Lacombe, B. Carbonnier, D. Grande
- O6-65 Chitosan/alginate nanoparticles for biological applications
V.P. Zubov, P.D. Reshetov, E.V. Svirshchenskaya
- O6-66 How biopolymers make early stage detection of wound infection possible
D. Schiffer, D. Luschnig, A. Heinzle, B. Binder, N.E. Papen-Botterhuis, B. Thallinger, E. Sigl, G.M. Guebitz
- O6-67 Elaboration of functional PCL based pseudo-polyrotaxane fibrous membranes for bone regeneration
M. Oster, A. Hébraud, E. Pollet, S. Gallet, L. Avérous, A. Lapp, G. Schlatter
- O6-68 POxylation of proteins: Overcoming the PEG-dilemma?
J. Tong, X. Yi, R. Luxenhofer, W.A. Banks, R. Jordan, M. Zimmerman, A.V. Kabanov
- O6-69 Physiologically-responsive polymer bio-nanocomposites for intracortical implants
M. Jorfi, M.N. Roberts, E.J. Foster, C. Weder
- O6-70 From channel-forming ionic liquid crystals to nanostructured ion-conducting polymer membranes
D.A. Ivanov, J.J. Hernandez Rueda, M. Rosenthal, D.V. Anokhin, H. Zhang, L. Li, X. Zhu, M. Moeller, M. Lingwood, L.A. Madsen
- O6-71 Ultrathin polymer films for adjustable implant surfaces
W. Dempwolf, N. Poth, M. Wassmann, A. Winkel, G. Gross, H. Windhagen, M. Stiesch, H. Menzel
- O6-72 Grafting of bioactive seaweed polysaccharides onto PVC surfaces using ionic liquids
S. Bigot, G. Louarn, N. Kebir, F. Burel
- O6-73 Electrospun nanofibers containing cyclodextrin inclusion complex and its antibacterial activity
A. Celebioglu, S. Kinali-Demirci, S. Demirci, O.C.O. Umu, T. Tekinay, T. Uyar
- O6-74 Plastic antibodies - Protein size molecularly imprinted nanogels by localised polymerisation with multi-iniferters
K. Haupt, B. Tse Sum Bui, P. Cakir
- O6-75 Multilayered dense collagen-silk fibroin hybrid resolves MSC mediated contraction and sustains chondrogenic and osteogenic differentiation
C.E. Ghezzi, B. Marelli, I. Donelli, A. Alessandrino, G. Freddi, S.N. Nazhat
- O6-76 Elaboration of water-soluble macromolecular probes for two-photon bio-imaging and photodynamic therapy
C. Cepraga, T. Gallavardin, S. Marotte, P.-H. Lanoe, J.-C. Mulatier, M. Lindgren, P.L. Baldeck, J. Marvel, O. Maury, C. Monnereau, F. Lerouge, A. Favier, S. Parola, C. Andraud, Y. Leverrier, M.-T. Charreyre
- O6-77 Design and characterization of hyaluronic acid hydrogels with controlled tunable mechanical properties
C. Credi, M. Levi, S. Turri
- O6-78 Poly(sulfideamine)s for intracellular delivery of nucleic acid pharmaceuticals
A.M. Giordano, N. Lavignac
- O6-79 Rubber and textile combined role in pneumatic artificial muscles
B. Tondu
- O6-80 Biomedical polyurethanes from functional blocked isocyanates obtained via a non-isocyanate technology
F. Xiang, L. Asri, J. Yin, S. Roest, H. Busscher, H. van der Mei, M. Crismaru, T. Loontjens

- O6-81 Differentiating gel compositions of silicone breast implants from Poly Implant Prothèse and other manufactures
J. Kaschta, J. Müller, R.E. Horch, D.W. Schubert

Symposium 7. Polymers for energy, optics, photonics, and electronics

- O7-1 Phase separation and molecular intermixing in polymer-fullerene bulk heterojunction thin films
M.A. Ruderer, R. Meier, S. Guo, C.M. Palumbiny, D. Magerl, L. Porcar, R. Cubitt, P. Müller-Buschbaum
- O7-2 Carbon nanotubes functionalized with metal containing block copolymers and their applications in optoelectronics
K.C. Lo, L. Yu, S.Y. Li, C.H. Li, D.L. Phillips, A.B. Djuricic, W.K. Chan
- O7-3 Time-resolved transient optical absorption study of constitutional-dynamic conjugated polymers
J. Pflieger, D. Rais, T. Vitvarova, J. Voblidal, J. Svoboda
- O7-4 Volume holographic photopolymers as security labels or sensors
M.-S. Weiser, H. Berneth, F.-K. Bruder, T. Fäcke, R. Hagen, D. Hönel, T. Rölle, G. Walze
- O7-5 Free-radical photopolymerization of acrylic/methacrylic polymer electrolyte membranes for dye-sensitized solar cells
F. Bella, E.D. Ozzello, A. Sacco, S. Bianco, R. Bongiovanni
- O7-6 Organic based thermoelectric materials for the development of flexible heat flux sensors or thermoelectric generators
O. Jaudouin, N. Massonnet, A. Carella, P. Rannou, J.-P. Simonato
- O7-7 Development and characterization of optoelectronic circuit boards produced by two-photon polymerization using a polysiloxane containing acrylate functional groups
R. Woods, S. Feldbacher, D. Zidar, G. Langer, V. Satzinger, G. Schmid, W. Leeb, W. Kern
- O7-8 Dynamers: Constitutional component exchange of conjugated polymers for property tuning and their use in opto-electronic devices
D. Navarathne, L. Sicard, S. Barik, S. Bishop, W. Skene
- O7-9 Model of the charge carrier mobility in conjugated polymers containing dipolar species
P. Toman, M. Mensik
- O7-10 Effect of molecular structure of α,α' -substituted quaterthiophenes and their organosilicon multipods on ordering, phase behavior and charge carrier mobility
D.V. Anokhin, M. Defaux, A. Mourran, M. Moeller, Y.N. Luponosov, O.V. Borsbchev, A.V. Bakirov, M.A. Shcherbina, S.N. Chvalun, S.A. Ponomarenko, D.A. Ivanov
- O7-11 Materials for polymer optical fiber amplifiers
A. Cichosch, S. Möhl, S. Schütz, R. Caspary, W. Kowalsky, H.-H. Johannes
- O7-12 Polyphosphazene gel polymer electrolytes for energy storage devices
S. Jankowsky, M.M. Hiller, H.-D. Wiemböfer
- O7-13 Design, synthesis and photophysical properties of functional polyimides containing triarylamine luminogens
J.-H. Wu, H.-J. Yen, W.-C. Wang, G.-S. Liou
- O7-14 Development of novel polymer phase change material for heat storage application
A. Al Robaidi
- O7-15 Controlled synthesis of semiconducting polymers for organic electronics
A. Kiriy, V. Senkovskyy, R. Tkachov
- O7-16 Volatile and non-volatile memory behavior of triphenylamine based polyimides with different donor and acceptor moieties
C.-J. Chen, H.-J. Yen, Y.-C. Hu, G.-S. Liou
- O7-17 Organoboron ion-gels as lithium ion conductive electrolytes
N. Matsumi

- O7-18 Optical upconversion *via* triplet-triplet annihilation in a glassy amorphous polymer matrix
S.-H. Lee, J. Lott, Y. C. Simon, C. Weder
- O7-19 Polymer / metallic nanowires composites for electrically conductive composites
A. Lonjon, E. Dantras, P. Demont, C. Lacabanne
- O7-20 A novel approach for preparation of conductive hybrid elastomeric nano-composites
I. Brook, G. Mechrez, R.Y. Suckeveriene, R. Tchoudakov, M. Narkis
- O7-21 Branched polymer structures as dielectric materials for electronic applications
B. Voit, R. Pötzsch, K. Stumpe, A. Türke, S. Banerjee
- O7-22 Spiropyran based polymers: synthesis and photochromic response
C. Ventura, F. Audouin, A. Andreas
- O7-23 Modulation of light emission from polyperyleneimides containing oxadiazole and siloxane moieties
M.-D. Damaceanu, C.-P. Constantin, M. Bruma
- O7-24 Photophysical properties of polyfluorene modified with randomly distributed electron-donor and rotaxane electron-acceptor structural units in the main chain
A. Farcas, A.C. Stefanache, P.-H. Aubert, V. Harab
- O7-25 Fluoropolymers for a sustainable mobility
M. Apostolo, L. Merlo, R. Pieri
- O7-26 Synthesis and characterization of copoly(p-phenylene) containing azacrown ether: multifunctional applications in chemosensor and electroluminescence
C.-S. Wu, C.-P. Chen, Y. Chen
- O7-27 Cross-linkable acrylate-functionalized polythiophene diblock copolymers for the design of thermally stable bulk heterojunction solar cells
F. Oubib, M. Tomassetti, J. Manca, F. Piersimoni, D. Spoltore, S. Bertho, H. Moons, R. Lazzaroni, S. Desbief, C. Jerome, C. Detrembleur
- O7-28 Polyisocyanates containing lanthanide chelates for plastic optical fiber amplifiers
P. Fabbri, S.M. Poor, L. Ferrari, L. Rovati, S. Borsacchi, M. Geppi, L. Carlos, P.P. Lima
- O7-29 Tailoring of functionalized polymers with CNT and PZT nanoparticles for enhanced vibration damping
D. Carponcin, E. Dantras, J. Dandurand, G. Aridon, F. Levallois, L. Cadiergues, C. Lacabanne
- O7-30 New polystyrene materials with optical functionalities to produce light-responsive films for smart applications
G. Ruggeri, P. Minei, A. Pucci, S. Barondi, M. Lessi, F. Bellina
- O7-31 Photo-controlled release from vesicles based on azobenzene-containing linear-dendritic block copolymers
E. Blasco, J. Barrio, C. Sanchez-Somolinos, M. Piñol, L. Oriol
- O7-32 Hybrid core@soft shell particles as adhesive elementary building blocks for photonic crystals properties fabricated by a rapid dip-coating process
C. Deleuze, C. Derail, L. Billon
- O7-33 UV-sensitizing of poly(vinyl alcohol) using cation-exchanged montmorillonite
G. Riess, J.G. Schaubberger, A. Kaufmann, W. Kern
- O7-34 New D-A conjugated polymers based on fluorinated accepting units and oligothiophenes for high efficiency polymer solar cells and field-effect transistors
J. Chen
- O7-35 Influence of ZnO quantum dots on the photo-oxidation of acrylate composite materials
G. Goourey, P. Wong-Wab-Chung, L. Balan, Y. Israël
- O7-36 Electroactive polymers and molecular glasses for optoelectronic applications
J.V. Grazulevicius
- O7-37 Improved thermoelectric figure of merit in PEDOT:ClO₄ thin films
M. Culebras, L. Laconcepcion, C.M Gomez, A. Cantarero
- O7-38 Amphipolar networks as a material for the transport of charge carriers
C. Nardi Tironi, M. Klapper, K. Müllen

- O7-39 Polybenzimidazole membranes containing proton donating polyvinylphosphonic acid. A tailored alternative of Nafion® in PEM fuel cells
H. Penchev, V. Sinigersky, D. Budurova, I. Radev, V. Peineche
- O7-40 Preparation of novel electrochromic triarylamine-containing thermoset epoxy with intervalence charge-transfer behavior
Y.-W. Chuang, H.-J. Yen, G.-S. Liou
- O7-41 Conducting lignin-silver nanocomposite
S.M. Seyed Mobagbegh, R. Farnood
- O7-42 Design of novel block copolymer electrolyte for Li-polymer batteries
J. Rolland, A. Vlad, J.F. Gohy
- O7-43 Synthesis of single-ion BAB triblock copolymers as efficient electrolytes for lithium metal batteries
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- O7-44 From transition metal organically functionalized oxoclusters to thiocluster: versatile building blocks for functional and structural hybrid materials
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- O7-45 Electrical properties of triethylene glycol stabilized $\text{Mn}_x\text{Co}_{1-x}\text{Fe}_2\text{O}_4$ nanoparticles
H. Erdemi, A. Demir, A. Baykal
- O7-46 Synthesis and electrochromic properties of ambipolar triphenylamine-containing aramids with pendant viologen moieties
S.-H. Chen, H.-J. Yen, G.-S. Liou
- O7-47 Proton-conducting SPEEK/TiO₂ nanocomposite membranes for direct ethanol fuel cells (DEFCs) applications
J.C. Dutra Filho, T.R. dos Santos, A.S. Gomes
- O7-48 Two-dimensional, covalently-linked, ordered (C, N) materials
M.J. Bojdys, S.Y. Chong, A. Cooper
- O7-49 Preparation of processable and highly conductive polyaniline
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- O7-50 Self-assembly study of nitroxide-containing block copolymers for the formation of nanostructured organic radical cathodes
G. Hauffman, A. Vlad, J.-F. Gohy
- O7-51 Tunable photonic structures from liquid-crystalline elastomers
B. Tasic, H. Li, V. Domenici, A. Sanchez-Ferrer, I. Drevensek-Olenik
- O7-52 Partially sulfonated ethylene-vinyl alcohol copolymer as substrate for EDOT vapour phase polymerization
E. Pizzzi, L. D'Ilario, I. Francolini, A. Piozzzi, A. Martinelli
- O7-53 Picosecond transient redshift in the photoluminescence spectra of PPV and PPV-SWCNT composite films
E. Mulažzi, D.E. Galli, F. Massuyeau, S. Lefrant, J. Wery, E. Faulques
- O7-54 Light-induced deformation of azobenzene elastomers: effects of the liquid crystalline order
V. Toshchevikov, M. Saphiannikova
- O7-55 Novel polysiloxane system crosslinked by squaric acid and applications for energy devices
B. Pohl, M. Grünebaum, H.-D. Wiemböfer
- O7-56 Chiro-optical properties of racemic polymeric films
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- O7-57 Understanding confinement effects in Nafion thin films
A. Kusoglu, M.A. Hickner, K.A. Page, K. Karan, A.Z. Weber
- O7-58 Morphology and field-effect transistor characteristics of stereoregular crystalline-crystalline diblock copolymers of syndiotactic polypropylene and poly(3-hexylthiophene)
C.-T. Lo, C.-J. Lin, J.-Y. Lee, J.-C. Tsai, W.-C. Chen

- O7-59 New organic copolymer for photonic applications
S. Bolis, M. Pasini, A. Farina, T. Virgili
- O7-60 Proton conducting electrolyte membranes based on sulfonated poly(arylene ether ketone)/polyorganosiloxane interpenetrating polymer networks for fuel cells
C. Tuan, D. Kim
- O7-61 The promise of fully organic thermoelectric materials
J.C. Grunlan, C. Yu, G. Moriarty
- O7-62 Radical copolymerization of fluorinated acrylate monomers with cyano monomers for dielectric materials: structure, characterization and properties
M. Raihane, V. Castelvetro, A. Hult, B. Ameduri

POSTER PAPERS

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M.K. Erdogan, M.K. Sabin, M. Sacak
- P1-2 Oxidative polycondensation of N,N'-bis(pyridin-3-ylmethylidene)benzene-1,4-diamine in organic medium
M. Deniz, B.N. Yilmaz, M. Sabin, M. Sacak
- P1-3 Synthesis, characterization and thermal degradation of poly(2-([4-(dimethylamino)benzylidene]amino)phenol)
B.N. Yilmaz, M. Sabin, M. Sacak
- P1-4 Synthesis and characterization of pH-responsive optically active methacrylic block copolymers
M. Achilleos, A. Charalambous, D. Kafouris, S.J. Holder, T. Krasia-Christoforou
- P1-5 In situ polymerization of ϵ -caprolactam in presence of polyester polyol toward amorphous polyamide 6/clay nanocomposites
S. Abmadi, P. Ghorbani, S. Omidi
- P1-6 Synthesis of poly(linoleic acid)-g- polystyrene-g-poly(ϵ -caprolactone) graft copolymers via the combination of ring opening polymerization and free radical polymerization
A. Alli, S. Alli, B. Hazer
- P1-7 Synthesis of heterotelechelic RAFT polymers bearing reactive side chains
M. Arslan, A. Sanyal, R. Sanyal
- P1-8 Synthesis of novel core cross-linked micelles using dendron-polymer conjugates
R. Arslan, R. Sanyal
- P1-9 Synthesis and application of formaldehyde-free crosslinker in waterborne acrylic dispersions for textile industry
S. Ata, S. Bayrak, B. Gokben, S. Altinok, A.E. Acar
- P1-10 Synthesis of amphoteric resin based on glycidyl methacrylate with potential application in water treatment
T.M. Aversa, L.A. Knupp, V.E.M. Silva, Y.G.C. Queiros, E. F. Lucas
- P1-11 Waterborne coatings from fatty acid and tulipalin-A comonomers
M. Moreno, M. Goikoetxea, M.J. Barandiaran
- P1-12 Alginate grafted with poly(ϵ -caprolactone): effect of enzymatic degradation on physicochemical properties
S. Benykblef, V. Dulong, Z. Bengharez, L. Picton, K. Guemra, D. Le Cerf
- P1-13 New composites for membrane gas separation based on addition poly(3-trimethylsilyltricyclononene-7) and calixarens as a filling agent
P. Chapala, M. Bermeshev, L. Starannikova, Yu. Yampolskii, E. Finkelshtein
- P1-14 Cationic polymerization of 5-ethylidene-2-norbornene in the presence of boron compounds
M.V. Bermeshev, B.A. Bulgakov, E.Sh. Finkelshtein
- P1-15 Oxovanadium(IV) and vanadium(IV) dichloride complexes with O,N,N,O-chelating ligands as catalysts for ethylene/ α -olefin copolymerization
M. Bialek, A. Leksza
- P1-16 Ethylene and 1-olefin homopolymerization catalyzed by diamine-bis(phenolate) complexes - effect of transition metal
E. Bisz, M. Bialek
- P1-17 Synthesis and properties of novel surface active monomers containing phosphate group
M. Borzenkov, O. Hevus

- P1-18 Controlled encapsulation of water-soluble biocatalyst in poly(urethane-urea) microcapsules
S. Maciulyte, T. Kochane, S. Budriene
- P1-19 Swelling data of N-vinylcaprolactam-dodecyl methacrylate gel for linalool and methyl eugenol mixtures
U. Kayman, L.M. Sevgilir, S. Cavus
- P1-20 Dodecyl methacrylate-methyl eugenol and dodecyl methacrylate-methyl chavicol gels: Separation of phenyl propanoid and terpenoid mixtures from ethanol
S. Cavus, A. Gök, L.M. Sevgili, U. Kayman
- P1-21 Copolymerization of carbon monoxide with olefins in the presence of supported palladium catalyst
O. Chukanova, K. Alferov, G. Belov
- P1-22 Application of ionising radiation for modification of the structure and the functional properties of the starch based films
K. Ciesla
- P1-23 Copolymerization of ethylene with silsesquioxane monomers over selected metallocene and postmetallocene catalytic systems
K. Czaja, M. Bialek, K. Skotniczny
- P1-24 Synthesis of linear polymers with trisubstituted hydroxyl and amine functional groups
G. Demircioglu, E. Dogan, G. Oztas, A.E. Acar
- P1-25 Alternative route for synthesis of polyacetylenes using metathesis reaction initiated by nanostructure cobalt ferrite catalysts
S. Dimova, K. Zabarieva, Ch. Jossifov, Z. Cherkezova-Zheleva, I. Mitov
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G. Ertürk, N. Bereli, P. W. Ramteke, R. Say, A. Denizli
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V.J. Gonzalez Coronel, E. Viveros Nava, R. Guerrero Santos, J. Cabello Romero
- P1-31 Synthesis of compositionally homogeneous copolymers of N-vinyl-succinimide via RAFT polymerization for biomedical applications
A. Gostev, E. Sivtsov
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- P1-36 Design and properties of new liquid crystal elastomers
V. Hamplova, V. Domenici, A. Bubnov, J. Milavec, M. Kaspar, B. Zupancic, B. Zalar
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- P1-40 Synthesis and properties of polyaniline modified polyethylene composite material
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- P1-41 Synthesis of defined POSS-containing diblock and triblock methacrylate copolymers by ATRP
M. Janata, V. Raus, A. Sikora, E. Cadova, P. Latalova
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- P1-43 Effect of nucleobase interactions on RAFT polymerization and self-assembly
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- P1-44 Synthesis and characterization of 2,3,6,7-tetrahydroxy 9,10-dibutylanthracene maleimide (DBAM) derivatives: Precursors for polymers of intrinsic microporosity
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- P1-49 Coating of 316L stainless steel with HEMA and glycerol dimethacrylate via electropolymerization to improve bio-compatibility
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- P1-50 Cationic polymerization of β -pinene and *trans*-anethole using AlCl₃ etherates as catalysts: towards sustainable plastics from renewable resources
S.V. Kostjuk, I.V. Vasilenko, N.A. Kukhta, Y.A. Veraksa
- P1-51 Synthesis and investigation of flexible copolyelectrolytes of different chain architectures based on 2-(acryloyloxy)ethyl-trimethylammonium chloride
M. Kyulavska, L. Todorova, D. Christova
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A. Llevot, S. Carlotti, S. Grelier, H. Cramail
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- P1-54 Synthesis of fluorescent polymers with coumarin backbone by “click” polymerization
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- P1-68 Polycaprolactone synthesis by a new immobilized enzyme *Thermomyces lanuginosa* lipase
E. Ozsagiroglu, C. Ulker, S.M. Kilic, Y.A. Guvenilir
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- P1-72 Azobenzene-containing supramolecular polymers through hydrogen bonding
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- P1-73 Synthesis and study of photopolymers based on alkyne-functionalized polylactides
A. Concellon, M. Gonzalez, M. Piñol, C. Sanchez-Somolinos, L. Oriol
- P1-74 Styrene/cycloalkene copolymerization through Et(Ind)₂ZrCl₂-MAO initiating system
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- P1-76 Epoxy monomers based on methyl ester of corn oil
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- P1-79 Preparation of new nanocatalyst based on MWCNTs and TiO₂ or ZnO as novel platform for photodegradation of organic pollutants under visible light
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- P1-80 Structurally diverse acrylate monomers via the Passerini three component reaction
A. Seblinger, L. Montero de Espinosa, M.A.R. Meier
- P1-81 Structurally diverse polyamides and polyesters by polymerization via multicomponent reactions
A. Seblinger, M.A.R. Meier
- P1-82 Synthesis of core-shell hybrid nanoparticles by miniemulsion
H. Sfeir, L. Ghannam, L. Billon, M. Save
- P1-83 Polymerization of micelle-forming monomers as synthetic route to polyelectrolyte-surfactant complexes
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- P1-86 Synthesis of methacrylate pendant oligoquats as multifunctional water-soluble cross-linker
M. Akar, O. Sirkecioglu, N. Bicak
- P1-87 Symmetrical, asymmetrical and terminal polymer microstructures forming via RAFT polymerization in the presence of symmetrical trithiocarbonates
E. Sirtsov, A. Gostev, E. Chernikova
- P1-88 Research on the synthesis of poly(lactic acid) via melt/solid-state polycondensation supported by the flow of inert gas
I. Steinborn-Rogulska, M. Mazurek, G. Rokicki
- P1-89 Polyimides and sulfonated polyimides based on 1,1-diphenylethylene derivatives: polymer substrates for new proton exchange membranes
G.J. Summers, M.G. Kasiama, C.A. Summers
- P1-90 Synthesis and characterization of silylated aromatic poly(amides) containing halogen atoms in the side chain
L.H. Tagle, D. Coll, C.A. Terraça, A. Tundidor-Camba
- P1-91 Synthesis and characterization of wholly aromatic poly(imide)s obtained from bis(4-(4-aminophenoxy)phenyl)dimethylsilane. A study of the structure-properties relationship
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- P1-92 Investigation of reaction parameters effect on molecular weight of the PCL-PEG copolymers
T. Tuglu, E. Ozsagiroglu, Y. Avciyasi Guvenilir
- P1-93 Effect of temperature on copolymerization of PCL and PEG
T. Tuglu, E. Ozsagiroglu, Y. Avciyasi Guvenilir
- P1-94 Activated anionic polymerization of ϵ -caprolactam: toward improved thermo-mechanical properties of polyamide-6
D. Tunc, P. Lecomte, P. Desbois, S. Carlotti
- P1-95 Photoinduced cationic crosslinking of PEG-based polymers with highly reactive vinyl ether side chains
E. Tunc, B. Aydogan Temel, C. Mangold, H. Frey, Y. Yagci
- P1-96 Reversible addition fragmentation chain-transfer polymerization of N-vinylpyrrolidone with *tert*-butyl methacrylate
E. Vasiheva, N. Kopylova, S. Zaytsev, Yu. Semchikov

- P1-97 Copolymerization of 2,4,6-trichlorophenyl acrylate and glycidyl methacrylate: synthesis, characterization, reactivity ratios and application as adhesive for the leather industry
P.G. Vijayaraghavan
- P1-98 Polymeric aminophosphonate derivatives: Synthesis, NMR characterization and biological activities
I. Kraicheva, E. Vodenicharova, A. Bogomilova, G. Momekov, D. Momekova, A. Kril, I. Iliev, A. Geogrieva, K. Troev
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K. Wolski, M. Szuwarzynski, S. Zapotoczny
- P1-100 Synthesis of nanofibers via self-assembly of amphiphilic block copolymers via RAFT-mediated emulsion polymerization and study of the viscoelastic properties of their suspensions
W. Zhang, F. D'Agosto, P. Cassagnan, B. Charleux
- P1-101 Zinc diorganophosphates as one-dimensional hybrid polymer
M. Dębowski, K. Zurawski, A. Plichta, A. Kundys, K. Lokaj, Z. Florjanczyk
- P1-102 Cationic dextran amphiphilic derivatives. Interaction with some biomolecules
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Symposium 2. Advanced characterization and analysis of polymer structure, processability and final properties

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- P2-2 Morphology and characterization of polymer dispersed liquid crystal by solvent-induced phase separation
H. Ocak, S. Mutlu, D. Güzeller, T. Karaca, E. Öztürk, F. Cakar, B. Bilgin-Eran, O. Cankurtaran
- P2-3 Electrosynthesis and sensor application of the nano-hybrid composites of the water soluble poly(sulfonic diphenylamine) conductive polymer
H. Cankurtaran, S. Dinc
- P2-4 Determination of surface characteristics of emulsion polymers
M. Gultekin, A. Sarac, O. Cankurtaran
- P2-5 Mineralization of calcium carbonate in the presence of a zwitterionic block copolymer
O. Yazici, F. Karaman
- P2-6 Fractal growth patterns of aggregation of poly (sulfonic acid diphenyl aniline) in the films of aqueous solution casting
O. Yazici, F. Karaman
- P2-7 Synthesis and characterization of telechelic polytetrahydrofuran
E. Temelkaya, N. Cakir, G. Hizal, U. Tunca
- P2-8 Electrical and mechanical properties of epoxy and oligo(ether-ester) based composites
U. Soydal, G. Ahmetli
- P2-9 Effect of rheological parameters on power characteristics of thermoforming equipments
F. Aghazadeh Dizaji
- P2-10 Amino based sol-gel polybenzoxazine synthesis and physicochemical characterization
B. Aksoy, T. Seckin
- P2-11 Substituent effects on the rotation barriers and intramolecular interactions: theoretical study of phenyloxiranes
Kh. Allaberdiev
- P2-12 Comparing the activity of antibacterial polymers derived from ROMP on surface over solution
T. Eren, E. Altay, M. Altikoglu, B. Keskin

- P2-13 Semiconducting membranes of PVOH/PEG doped with LiClO₄
Y. Garcia-Ferrera, M. Alvarez-Laines
- P2-14 Preparation of porous monolithic hybrid materials based on polyhedral oligomeric silsesquioxanes (POSS) and their surface functionalization
F. Alves, P. Scholder, I. Nisc
- P2-15 Influence of the monomer curing procedure on the degradation behavior of the polybenzoxazines
C. Andronescu, P. Stanescu, S.A. Garea, H. Iovu
- P2-16 Rheological behaviour of ultrahigh molecular weight polyethylene/functionalized-MWCNTs nanocomposites
R. Arrigo, N. Tz. Dintcheva, C. Gambarotti, S. Carroccio, G. Filippone, S. Coiai
- P2-17 Phosphorous containing polymers
T. Eren, A. Ascì
- P2-18 Rheological modeling of warpage in polymeric products
A. Azemati
- P2-19 Elaboration and characterization of new materials based on poly (ϵ -caprolactone)/poly (vinyl chloride) by melt blending using Maghnia montmorillonite
A. Hadj-Hamou, F. Yabiaoui, F. Benhacine
- P2-20 Synthesis and characterization of water soluble O-carboxymethyl chitosan Schiff base and their molybdenum tetracarbonyl complexes
T. Baran, A. Mentes
- P2-21 Electrospun nanofibers of polypyrrole/poly(acrylonitrile-co-styrene)
T. Balkan, S.A. Sezai
- P2-22 Crystal structure and properties of fluorinated polymer composites based on carbon nanotubes
S. Barrau, J. Defebvin, A. Marin, J.-M. Lefebvre
- P2-23 X-Ray powder diffraction in morphological studies of diacrylate polymer networks
I.M. Barszczewska-Rybarek
- P2-24 Material models for stability analysis in fibre spinning
M. Bechert, D.W. Schubert
- P2-25 Nanostructured self-assembled models for 3D nano-electrical characterisation
L. Boarino, E. Enrico, N. De Leo, M. Perego, F. Ferraresi Lupi, M. Laus, K. Sparnacci, A. Harling, F. Castro
- P2-26 Organic anhydride treatment of softwood to improve its weathering protection
R. Bodirlan, C.-A. Teaca, D. Rosu
- P2-27 Advanced characterization and analysis of polymer structure using GPC/SEC
A. Brookes, B. Mac Creath
- P2-28 Influence of aging on the rheological properties of ethylene vinyl acetate polymer modified bitumens
V.O. Bulatovic, V. Rek, K.J. Markovic
- P2-29 Advances in SEC for polymer engineering applications
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- P2-30 Polymer analysis by convergence chromatography using sub-2 μ m particle stationary phases
B. Cabovska, M. O'Leary
- P2-31 Electrochemical characterization of PVDF-HFP microporous gel polymer electrolytes for secondary batteries
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- P2-32 Interactions in blends containing biodegradable polymers
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- P2-33 Polymer composites for artworks protection and restoration
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- P2-138 *in-situ* crosslinking of anionic polyamide 6 (APA 6): effect of kinetic parameters on degree of crosslinking, thermal properties and rheological behavior
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A. Rein, P. Scardina
- P2-143 Synthesis and characterization of polyurethanes containing glucose for selective determination of epinephrine in the presence of a high concentration of ascorbic acid
A. Pasaban, S. Köytepe, M.A. Cengiz, T. Seckin
- P2-144 Influence of molar mass change on rheological properties of a polyamide (nylon 6)
Y.P. Seo, Y. Seo
- P2-145 Innovative barrier level of poly(vinyl alcohol)/clay films for food packaging
J. Lee, S.J. Min, S.Y. Jeong, S. Lee, K.-H. Choi, G.J. Shin
- P2-146 Synthesis of a high molecular weight hydrophobically associating polyacrylamide by emulsion polymerization
S. Carro, E. Luna, V. Gonzalez, N. Tlapale, F. Perez
- P2-147 Effect of extruder screw speed, content and modification of zirconium phosphate on mechanical properties of linear low density polyethylene nanocomposites
D.F. Silva, V.S.S. Motta, A.S. Lino, L.C. Mendes
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M. Sonmez, M. Georgescu, M. Nituica, L. Alexandrescu, D. Ficai, A. Ficai
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R. Spiniello, C. De Monte, F. Cicogna, S. Coiai, E. Passaglia, W. Oberhauser, A. Lazzeri, P. Cinelli, I. Anguillesi, S. Fiori, J. Gomez
- P2-151 Structural transitions in the isotropic phase of smectic comb-like polymers
A. Zakhryapa, V. Rogozhin, E.I. Rjuntsev, V.M. Egorov, S.G. Polushin

- P2-152 Structural rearrangements in amorphous nanometric cellulose model films induced by heat treatment - Why T-shirts shrink when washed too hot
S. Spirk, T. Mohan, R. Kargl, A. Doliska, K. Stana-Kleinschek
- P2-153 Macromolecular non-releasing additives for safer food packaging: application to polyolefin-based films
P. Stagnaro, G. Mancini, S. Losio, M.C. Sacchi, C. Viglianisi, S. Menichetti, S. Limbo
- P2-154 Behavior of polyelectrolyte solutions as a function of counterion size in a wide range of solvent dielectric constant
P. Stepanek, S.K. Filippov, T.A.P. Seery, P. Cernoch, M. Hruby, J. Kriz, J. Panek
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A. Sturcova, V. Raus, A. Zhigunov, J. Dybal, N. Kotov, O. Ivankov
- P2-156 Synthesis and characterization of P(AN-co-VAc-co-IA) terpolymers
D. Suadiye, A.S. Sarac
- P2-157 Macromolecule as neural network: an alternative to Darwinist approach to the problem of complex systems evolution
I.E. Suleimenov, G.A. Mun, D.B. Shalykova, S.V. Panchenko
- P2-158 From monoclinic to triclinic clathrates up to intercalates in syndiotactic polystyrene
O. Tarallo, F. Auriemma, R. Di Girolamo, C. De Rosa
- P2-159 Insight into the structure, thermal and mechanical properties of natural rubber (1,4-cis-polyisoprene)
F. Auriemma, C. De Rosa, L. Napolitano, O. Tarallo, R. Di Girolamo
- P2-160 Multi-component polymer systems comprising modified starch microparticles and different natural fillers
C.-A. Teaca, R. Bodirlau, I. Spiridon, N. Tudorachi
- P2-161 Influence of promoters on the catalytic cycles of the CO-ethene copolymerization catalyzed by [Pd(dppb)(TsO)₂]
G. Cavinato, L. Toniolo, A.M. Raspolti Galletti, C. Antonetti, C. Forte
- P2-162 Preparation of sol-gel cross-linked PCL as shape memory polymer
M. Toselli, M. Messori, K. Paderni, F. Pilati, S. Pandini, S. Passera
- P2-163 Synthesis and characterization of poly(2-dimethylaminoethyl methacrylate) star polymers for gene delivery applications
B. Mendrek, A. Kowalczyk, I. Zymelka-Miara, B. Trzebicka, M. Smet, A. L. Sieron, A. Dworak
- P2-164 Effect of ammonium bromide on electrospun poly(vinyl pyrrolidone) (PVP) nanofibers
N. Uykun, A. Gokceoren, S.A. Sezai
- P2-165 Triple click strategy for the preparation of functionalized poly(β -hydroxyl amine)s
G. Uzun, U.S. Gunay, H. Durmaz, G. Hizal, U. Tunca

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- P3-2 Hybrid nanomaterials based on epoxy resin and inorganic silica reinforcement
M. Perchacz, H. Benes, L. Kobera
- P3-3 Surface modification of ZnO nano particles for UV absorbing nanocomposites
Y.J. Kim, J.H. An
- P3-4 Atomistic simulation of the nanosorption and nanofluidics of small molecules in carbon nanotubes
A. Anastassiou, E. Karahaliou, V.G. Mavrantzas
- P3-5 Biofouling reduction in cellulose acetate membranes containing silver nanoparticles
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- P3-6 Synthesis of P(AN-VAc-AMPS); Nanofiber formation
B. Arman, A.S. Sarac
- P3-7 Surface-attached thermoresponsive hydrogels for biomedical applications
S.A. Asiaee Sabneh, M. Henze, O. Prucker, J. Rühbe
- P3-8 Poly (ϵ -caprolactone)/Maghnia montmorillonite nanobiocomposites prepared by melt blending: thermal stability and kinetic study
A. Hadj-Hamou, F. Yabiaoui, F. Benbacine
- P3-9 Nanostructured thin films of block copolymers based on poly(L-lactide) and poly(ethylene oxide) obtained by epitaxial crystallization
C. De Rosa, F. Auriemma, R. Di Girolamo, A. Romano, L. Izzo, D. Pappalardo
- P3-10 Novel surface modification of thiol terminated dendrons using michael addition thiol-ene click chemistry
S.E.R. Auty, S.P. Rannard
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M.J. Barthel, U. Mansfeld, S. Hoepfener, J.A. Czaplewska, F.H. Schacher, U.S. Schubert
- P3-12 Gradient poly(styrene-co-poly(α -tert-butoxy- ω -vinylbenzyl-polyglycidol)) grafted surface for controlled binding of biomolecules and particles
T. Basinska, J. Pietrasik, M. Gosecka, B. Glebocki, S. Slomkowski, P. Decorse, M. M. Chehimi
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L. Beria, T.N. Gevrek, D. Pasini, A. Sanyal
- P3-14 Study of the cold crystallization at the air interface in PET films
M. Bertoldo, C.A. Massa, S. Capaccioli, A. Manariti
- P3-15 Synthesis of core-shell nanoparticles with hybrid initiation system
S. Beyazit, J. Maximilien, N. Marchyk, B. Tse Sum Bui, K. Haupt
- P3-16 Hierarchically structured hybrid honeycomb films via micro to nanosized building blocks
C. Delenze, C. Derail, M.H. Delville, L. Billon
- P3-17 Contact angles as indicators of macromolecules packing density at polymer surface
Y.G. Bogdanova, V.D. Dolzhibkova, A.N. Filippov
- P3-18 Novel montmorillonite anchored photoinitiators for in situ synthesis of polymer nanocomposites
Z. Boncza-Tomaszewski, M. Kedzierski
- P3-19 Stable aqueous dispersions of glycopeptide-grafted selectably functionalized magnetic nanoparticles
T. Borase, T. Ninjbadgar, A. Kapetanakis, D. Brougham, A. Heise
- P3-20 Epoxy based nanocomposites containing mono and polyamine functionalized MWCNTs
A.M. Visco, V. Brancato, A. Pistone, D. Iannazzo, A. Piperno
- P3-21 Dendritic and linear polymer brushes in planar and spherical geometries
T.M. Birshtein, A.A. Polotsky, O.V. Rud, O.V. Borisov
- P3-22 Brushes made of grafted starlike macromolecules: a self-consistent field study
A.A. Polotsky, E.B. Zhulina, T.M. Birshtein
- P3-23 Preparation and characterization of starch/poly(lactic acid) nanocomposites by solution based on montmorillonite
L.M. Brito, M.I. Bruno Tavares
- P3-24 Ag/Pani nanoparticles composites preparation by laser ablation in liquid environment
S. de L. Campello, D.L. da Cunha, W.M. de Azevedo
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- P3-26 Synthesis and characterization of polyurethane/Ni-talc nanocomposites obtained by *in situ* polymerization
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S. Demirci, A. Celebioglu, T. Uyar
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- P3-49 Polypeptoids, going once, going twice, going three times: sold!
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- P3-57 Reversible adhesives based on supramolecular chemistry
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- P3-119 Weak polyelectrolyte stars
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- P3-122 Ultra-thin films based on random copolymers containing perfluoropolyether side chains
A. Vitale, A. Nelson, E. Bernardi, R. Bongiovanni
- P3-123 Functionalization of multiwalled carbon nanotubes for photopolymerization process I
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- P3-128 Hydrodynamic and optical properties of poly (12-akryloylamino-dodecanoic acid) in solutions
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- P3-130 The anti-thrombus thin film by the layer-by-layer method using natural origin polymers
T. Taniguchi, H. Nara, K.-H. Kyung, S. Shiratori
- P3-131 Applied voltage in fabricating multilayer film of polyelectrolyte and nanoparticles influenced on adsorption behavior and the surface morphology
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- P3-132 Fabrication and characterization of biodegradable and hemostatic nanofibers using natural materials
M. Yanagiya, K.-H. Kyung, S.-H. Kim, S. Shiratori
- P3-133 Electrospinning of functional nanofibers/nanowebs
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- P3-134 The electrosynthesis of poly (2-thiophene trifluoroborate) in propylene carbonate
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- P3-135 Nanocomposite polyurethaneacrylate/montmorillonite modified with oligourethane methacrylateammonium chloride
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- P4-2 Electrospun nanofibers of poly(lactic acid)/graphene nanocomposites
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- P4-3 Characterization of poly(3-hydroxybutyrate) blends with natural additives
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- P4-6 Preparation of core-shell type chromatographic support decorated with strong ion-exchanger for separation of positively charged protein
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- P4-8 The effect of different weight ratios on spray dried hydroxyapatite/gelatin composites
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- P4-12 Optically-responsive, healable cellulose nanocomposites
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- P4-13 Chitosan as material for tissue engineering
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- P4-14 The effect of plasticizers on the barrier properties of biomimetic composites of chitosan/clay
L.F. Boesel, L. Thöny-Meyer
- P4-15 Synthesis, cyclopolymerization and cyclo-copolymerization of 1-(2-diallylaminoethyl)pyrimidines
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- P4-16 The analysis and characterization of biodegradable polymers by gel permeation chromatography (GPC)
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- P4-17 Chemically modified electrodes based on polyazulene for lead and cadmium metal ions electroanalysis
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- P4-18 Isolation of thermally stable cellulose nanocrystals by phosphoric acid hydrolysis
S. Camarero Espinosa, T. Kubnt, E.J. Foster, C. Weder
- P4-19 Polymeric membranes containing N-methyl-glucamide moieties for selective arsenic removal from water
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- P4-20 Plasticization of PLA with oligomeric esters of lactic acid: effect of physical aging on properties
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- P4-23 Biopolyester/hemp fibre eco-composites: an innovative compatibilization pathway
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- P4-26 Large scale access to functional, stiff and strong artificial nacre using bio-based sustainable materials and influence of type of synthetic nanoclays on properties
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- P4-27 Synergy of diffusion and effusion on isothermal softening in multiphasic natural polymer composite
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- P4-28 Synthesis of renewable segmented polymer structures
S. De Smet, F.E. Du Prez

- P4-29 Modeling of capillary flow organic compounds in phenolic resin
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- P4-30 Synthesis and properties of spiropyran containing bio-based polyurethane
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- P4-32 Ionic composites based on chitosan and polyamidoxime grafted potato starch and their sorption properties for Cu²⁺D.F.
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- P4-33 Biosurfactant production by *B. subtilis* and application on the dispersion of carbon nanotubes
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- P4-35 Novel PE-like eco-friendly polymers containing ether-linkages for food packaging applications
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- P4-36 Gold recovery from dilute gold solution using chitin as a biosorbent
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- P4-37 Synthesis and characterization of benzotriazole end-capped poly(lactic acid) with potential application as a coating for bronzes
G. Giuntoli, L. Rosi, M. Frediani, P. Frediani, B. Sacchi, B. Salvadori
- P4-38 Chitosan microparticles applied for removal of oil from produced water in the oil industry
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- P4-40 Development and characterization of highly reactive epoxy formulations derived from biomass
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- P4-41 Preparation of natural rubber/chitin whisker bionanocomposite containing coconut oil and pluronic
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- P4-42 Increasing polyesterase activity towards synthetic polymers by diverse molecular approaches
E. Herrero Acero, D. Ribitsch, K. Härnvall, G. Steinkellner, K. Gruber, H. Schwab, G.M. Guebitz
- P4-43 Preparation and characterization of tough polyacrylamide hydrogels
M. Ilyas, I. Peroni, S. Agnelli, F. Bignotti, F. Baldi
- P4-44 Preparation of silk fibroin/cellulose whiskers bionanocomposite sponges for immobilization of yeast cells used in continuous ethanol production
S. Jampa, R. Rujiravanit
- P4-45 Synthesis and characterization of half-biomass poly(ether ketone) derived from 2,5-furandicarboxylic acid
Y. Kanetaka, S. Yamazaki, K. Kimura
- P4-46 Deacetylation of chitin hydrogel
M. Kantakanun, C. Vanichvattanadecha, N. Saito, R. Rujiravanit
- P4-47 Biodegradable non-aromatic polyurethanes based on xylose for adhesive applications
M.G. Karaaslan, B. Ates, S. Koytepe, S. Balcioglu, S. Gulgen
- P4-48 Cationic starch – aromatic acid complexes and their flocculation properties
R. Klimaviciute, J. Bendoraitiene, A. Zemaitaitis

- P4-49 Defect-free polymeric sugar via redox-initiated RAFT polymerization of vinylene carbonate at room temperature
B. Kumru, N. Bicak
- P4-50 Dimer fatty acid-based polyamides as biobased functional additives
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- P4-51 Rheological characterization of bio-degradable nanocomposites
F.P. La Mantia, R. Arrigo
- P4-52 A novel bionanocomposite based on bacterial cellulose, chitosan, and silk protein for wound dressing application
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- P4-53 Preparation and properties of the photoluminescence and thermosensitive hydrogels
W.F. Leer, P.-Y. Liu
- P4-54 Effect of chitin whisker on stability and releasing characteristic of pluronic gel
K. Lertrattanakul, R. Rujiravanit
- P4-55 Preparation and characterization of PCL/modified-clay biodegradable nanocomposites
R. Ollier, M. Lanfranconi, L.N. Ludueña, V.A. Alvarez
- P4-56 Block copolymers-based approach for nanoporous substrates with defined geometry for enzyme immobilization
A. Malafrente, R. Di Girolamo, F. Auriemma, C. De Rosa
- P4-57 Degradation of polyesteramide's fiber layers
L. Malinova, J. Brozdek
- P4-58 Copolycarbonates of bisphenol A containing bicyclic D-glucitol
L. Sanchez, A. Martinez de Ilarduya, A. Alla, S. Muñoz Guerra
- P4-59 Preparation of xanthan/chitosan hydrogels modifying the xanthan in a reaction system with fluidized bed and glow discharge
A. Martínez-Ruvalcaba, A.J. Martínez-Gómez, L.E. Cruz-Barba, J.C. Sánchez-Díaz, F. Becerra-Bracamontes
- P4-60 Synthesis of new biorelated graft copolymer based on silicone rubber for drug delivery
H.I. Melendez-Ortiz, C. Alvarez-Lorenzo, A. Concheiro, E. Bucio
- P4-61 Synthesis and hydrolysis of polyacrylamide. Effect of complexation by divalent metal ions Cu²⁺
H. Briki, F. Metref
- P4-62 pH-responsive glycopolypeptides by aqueous amide coupling
R. Mildner, H. Menzel
- P4-63 Waterborne casein/acrylic nanoparticles
M. Picchio, R. Minari, J. Vega, M. Barandiaran, L. Gugliotta
- P4-64 Bio-based aliphatic polyesters from bicyclic D-mannitol
C. Lavilla, A. Alla, A. Martínez de Ilarduya, S. Muñoz-Guerra
- P4-65 Mechanical and gas barrier properties of PLA/PHBV films
M. Boufarguine, A. Guinault, G. Miquelard-Garnier, C. Sollogoub
- P4-66 Alternative sources for natural rubber: hevea brasiliensis, partenium argentatum, taraxacum kok-saghyz. From chemical composition to material properties
M. Galimberti, S. Musto, L. Tinè, A. Citterio, L. Castellani, M. Marco
- P4-67 A rheological and mechanical investigation of biodegradable compounds based on poly(lactic acid) and poly(butylene succinate)
M.R. Nobile, G. Lucia, R. Pantani, M. Malinconico, P. Cerruti, C. di Fiore, S. Tagliatalata
- P4-68 Marine ecotoxicity of tin- and bismuth- catalysed, biofouling release coatings containing a surface-active polymer
M. Oliva, C. Pretti, M. Barbaglia, M. Funel, E. Martinelli, G. Galli
- P4-69 Comparing different plasticizers to obtain thermoplastic starch
C.F.P. Oliveira, T.S. Valera, N.R. Demarquette

- P4-70 New functional polymers from biomass by atp copolymerization of 2-vinylfuran with styrene initiated by Cu (I)-PMDETA
S. Ortega Sanchez, A. Dibenedetto, A. Grassi
- P4-71 Linseed oil polymers with phosphoester cross-links
J. Ostrauskaite, S. Kasetaitė, J.V. Gražulevičius
- P4-72 Controlled biodegradation of polycaprolactone films by a novel embedded enzyme *Thermomyces lanuginosa* lipase
E. Ozsagiroglu, H. Ustundag, E. Kelebek, Y.A. Guvenilir
- P4-73 Preparation and characterization of polyurethane foam using PLA/PEG as polyols
J.M. Lee, S.H. Kim, N.R. Abn, H.G. Roh, J.S. Park
- P4-74 Photo-activable honeycomb polymer films: influence of porous structure on photo-sensitized oxidation
L. Pessonni, S. Lacombe, L. Billon, R. Brown, M. Save
- P4-75 Pd-nanoparticles stabilized by bipyridine-functionalized poly(lactic acid) as catalyst for alkyne hydrogenation
G. Petrucci, G. Giachi, M. Frediani, W. Oberhauser, E. Passaglia, L. Capozzoli
- P4-76 Synthesis and characterization of acrylic-based magnetic polyelectrolyte brushes
A. Rabiee, H. Baharvand
- P4-77 Nanocomposites based on biodegradable aliphatic polyesters and moroccan clay: Preliminary study
M. Ilsonk, M. Raihane, M. Labcini, V. Castelvetro, S. Bronco, S. Bianchi, B. Rhouta
- P4-78 Characterization of biodegradable films based on sugarcane bagasse derivatives
N.P. Delgado-Hernandez, E. Garcia-Hernandez, G. Arambula-Villa, R. Salgado-Delgado, J.R. Rendon-Villalobos
- P4-79 Cellulose reinforced chitosan/gelatin films: Thermal, structural and mechanical properties
J.R. Rendon-Villalobos, L. Garcia-Hernandez, E. Garcia-Hernandez, J. Solorza-Feria
- P4-80 Hydrophobization of cellulosic fiber materials and their characterization
A. Richter, N. Friebe, C. Siegel, R. Rinberg, S. Spange
- P4-81 Polymerizations of renewable unsaturated γ -lactone monomers
M. Riecka, J. Mosnacek, T. Liptaj, M. Danko
- P4-82 Mechanical and thermal properties of composites of polyethylene and nanofibrillated cellulose
A. Salminen, J. Seppälä
- P4-83 Preparation of natural rubber-coated banana cellulose-based paper for water repellent improvement
C. Saelim, R. Rujiravanit
- P4-84 Stimuli responsive super-macroporous cryogels based on photocrosslinked chitosan and hydroxyethylcellulose
V. Stoyneva, P. Petrov
- P4-85 Controlled assembly of bio-coatings via enzymatic reactions
O.I. Strube, A.A. Rüdiger, W. Bremser
- P4-86 Synthesis of lactic acid-based polymer with controlled molecular weight and tacticity by radical polymerization
H. Tanaka, T. Kibayashi, M. Niwa
- P4-87 Thermal and mechanical properties of bio-based thermoset resins without styrene
D. Thibeault, J. Labrecque
- P4-88 Modular functionalization of biomaterials with synthetic polymer strands and peptide sequences
T. Tischer, A.S. Goldmann, V. Trouillet, M. Bruns, S. Perrier, H.G. Börner, C. Barner-Kowollik
- P4-89 Modified electrodes based on poly(malonamide-like) films for heavy metal electroanalysis
E.-M. Ungureanu, G.-O. Buica, C.-A. Amarandei

- P4-90 In-vitro degradation of modified starch-blended thermoplastic polyurethane
M. F. Valero
- P4-91 Polyurethane adhesive system from castor oil modified by a transesterification reaction
M. F. Valero
- P4-92 The effect of maleic anhydride on the properties of bio-based polyoxalate
C.-C. Wang, Y.-J. Chen, C.-Y. Chen
- P4-93 Plant oil based renewable polyamide monomers and their polymers via efficient (catalytic)
M. Winkler, O. Türünc, M.A.R. Meier
- P4-94 Isohexide-based polyamides; Synthesis and characterization
A.A. Wroblewska, A. Zych, A. Rożanski, R. Duchateau, C.E. Koning, L. Jasinska-Walc
- P4-95 Enhanced stability of resole resins for thermal insulations
N. Zibret
- P4-96 Novel approach towards sugar-based polyamides as environmentally friendly materials
A. Zych, A.A. Wroblewska, A. Rożanski, R. Duchateau, C.E. Koning, L. Jasinska-Walc
- P4-97 Design of biomedical hydrogel devices for controlled release of doxorubicin: relationship of hydrogel composition and their anticancer efficacy
G. Bayramoglu, G. Ersoy, K.C. Akcali
- P4-98 Synthesis of new materials as cross-linked enzyme-aggregates: application to dye removal
G. Bayramoglu, S. Gorgulu
- P4-99 Preparation of Xylan based UV curable coatings from renewable resources
G. Bayramolu, S. Aydin

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- P5-1 Polymer intelligent hydrogel saturated with demulsifiers to clean water from oils
M. Abolhassani
- P5-2 Recyclability of whey protein-coated plastic films by treatment with enzymatic detergents
I. Anguillesi, P. Cinelli, A. Lazzeri, E. Bugnicourt, M. Schmid
- P5-3 Antioxidant immobilization via the polymerization of fatty acid based monomers
S. Beer, O. Brüggemann
- P5-4 Re-gradation of industrial polyamide 6. Comparison of different chain-extenders
M. Buccella, A. Dorigato, M. Caldara, L. Fambri
- P5-5 High-energy microenvironments for the preparation of biopolymers under dielectric heating and acoustic cavitation
D. Carnaroglio, E. Calcio Gaudino, M. Caporaso, G. Cravotto
- P5-6 Electrospinning whey protein
J. Zhong, A. Bell, F.J. Davis, G.R. Mitchell
- P5-7 An innovative method to forecast the environmental burden of new biopolymers production
B. De Bendetti, P. Tecchio, P. Freni, G. Camino
- P5-8 Sugar template as the leachable porosifier during synthesis of macroporous trimethylene carbonate and L-lactide copolymer
M. Laniecki, K. Dyba
- P5-9 Incorporation of cellulose nanocrystals in gelatin films
F.M. Fakhouri, S.M. Martelli, M. Mariano, V. Soldi, F. Yamashita, L.H. Innocentini Mei
- P5-10 Recycled polyester multifilament yarns from post-industrial waste
E. Fatarella, M. Romei, I. De Schrijver, L. Van der Schueren

- P5-11 Mechanical behaviour of polypropylene/waste clay composites
C. Fracassi, G. Ramorino
- P5-12 Synthesis and characterization of zeolite nanocrystals and investigation of their existence in mixed matrix membranes for CO₂ separation
M. Anbia, S. Gholizadeh
- P5-13 Sustainable polyesters for powder coating
A. Minesso, R. Cavalieri, C. Gioia, M. Vannini, P. Marchese, M. Colonna, A. Celli
- P5-14 Recovery of materials and energy from pyrolysis of end-life tyres
T. Benelli, L. Giorgini, C. Leonardi, G. Bortolani, M. Cavazzoni, C. Tosi
- P5-15 Potential acidification associated to PET recycling chain through life cycle assessment
C.T.M. Soares, T.S. Gomes, L.L.Y. Visconte, E.B.A.V. Pacheco
- P5-16 Improved enzymatic hydrolysis of polymers by modulation of adsorption
K. Haernvall, K. Greimel, D. Ribitsch, E. Herrero Acero, H. Schwab, G. M. Guebitz
- P5-17 Polymer supported cobalt complex for oxygen entrapment in CdS catalyzed hydrogen generation by water photolysis
A. Ince, G. Galli, N. Bicak
- P5-18 Using of marble waste obtained from wastewater in epoxy systems
S. Kocaman, G. Ahmetli
- P5-19 Use of biodegradable polymers for foam extrusion
F.P. La Mantia, M.C. Mistretta, M. Ceraulo, M. Morreale
- P5-20 High strength poly(propylene) tapes from plastic packaging waste
B.J. Luijsterburg, J.G.P. Goossens
- P5-21 Phase behavior of binary in different solvents and membrane formation by tips process
R.S. Marques, M.I. Felisberti
- P5-22 Gel polymer electrolytes for Li – ions batteries with reduced flammability
J. Michalek, S.N. Abbrent, M. Musil, J. Sirc, J. Kovarova, M. Pradny
- P5-23 Thermal decomposition of polydimethylsiloxane in oxidative and inert atmospheres
I. Mohoric, U. Sebenik
- P5-24 Characterization of recycled non-sorted plastic waste
D. Molina, G. Griffini, R. Suriano, G. Clerici, M. Levi, S. Turri
- P5-25 Pulping process of coir fiber: obtaining cellulosic derivatives
A. de Araujo Morandim-Giannetti, T. Matoso Sombra, C. Godoy Pasquoto, B.C. Bonse, S.H. Prado Bettini
- P5-26 Study of the optimal conditions for obtaining PVA hydrogels as vitreous substitute
A. de Araujo Morandim-Giannetti, R.C. Silva, P.A. Bersanetti, O. Magalhães, P. Schor
- P5-27 NMR evaluation of *Origanum vulgare*
V.C.S.P. de Oliveira, M.I. Bruno Tavares, E. Miguez Bastos da Silva
- P5-28 Molecularly Imprinted polymers (MIPs) for the removal, separation and preconcentration of target organic molecules
E. Pereira, C. Caceres, K. Martinez, B.L. Rivas
- P5-29 Optimization of HIPS recycling by using life cycle assessment (LCA)
H.A. Crespo, L. Sirelli, T.S. Gomes, L.L.Y. Visconte, E.B.A.V. Pacheco
- P5-30 Paraffin phase change materials microencapsulated in polysiloxane
S. Slomkowski, W. Fortuniak, J. Chojnowski, A. Tracz, J. Kurjata, U. Mizerska
- P5-31 Synthesis and characterization of composites for high power electronic packaging
P. Mineo, F. Spitaleri, E. Scamporrino
- P5-32 Microwave assisted pyrolysis of tires: from waste to value-added products
A. Undri, L. Rosi, M. Frediani, P. Frediani
- P5-33 Conversion of cellulose to bioethanol. Pretreatment and enzymation
A. Zeffiro, D. Dondi, E. Capobianco, L. Pantaleoni, A. Facchini, E. Nielsen, P. Arcioni, A. Buttafava

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- P6-1 Novel biophotonic and amphiphilic oligomer
A.O. Aleshinloye, H. Icil
- P6-2 Complexes of polyglutamic acid and choline surfactants for drug delivery
A. Tolentino, A. Alla, A. Martinez de Ilarduya, S. Leon, S. Muñoz Guerra
- P6-3 UV-induced synthesis of silk fibroin biofilms
T. Adali, S.M.A. Hussan, A.F.M. Almansor
- P6-4 Cryogel dye-affinity beads for lysozyme separation
S. Asliyüce, N. Bereli, A. Denizli
- P6-5 Novel biodegradable polyurethanes based on caffeic acid for medical applications
B. Ates, S. Koytepe, M.G. Karaaslan, S. Balcioglu, S. Gulgen
- P6-6 Novel polyglycidol-based polymers bearing a lipid-mimetic anchor. Study of their self-association and ability to provide steric stabilization of liposomes
P. Bakardzhiev, S. Rangelov, D. Momekova
- P6-7 The influence of drug incorporation on the crystalline structure and release properties of lyotropic liquid crystals
T. Nogueira Barradas, K. Gyselle de Holanda e Silva, C.R. Elias Mansur
- P6-8 Citric acid based UV curable biodegradable elastomers
G. Bayramoglu, K. Özdemir
- P6-9 Development of new stimuli-responsive polymeric nanoparticles for drug targeting
C. Cristallini, M. Gagliardi, E. Bellotti, F. Manetti, E. Rosellini, N. Barbani
- P6-10 Rehydration mechanisms in collagen as seen by thermally stimulated current
N. Benrekaa, Z. Guebaili, A. Abdallah, R. Saoud
- P6-11 Star shaped reactive polymeric nanocarriers
B.H. Bingol, A. Sanyal
- P6-12 Novel polyphosphoester drug delivery systems based of chemotherapeutic agents - a promising approach to enhance drug therapeutic efficiency
A. Bogomilova, N. Koseva, K. Troev
- P6-13 Isothermal titration calorimetry (ITC) study of surfactants and thermoresponsive poly-oxazolines
A. Bogomolova, S. Filippov, L. Starovoytova, O. Sedlacek, H. Mackova, M. Hruby, P. Stepanek
- P6-14 Multilayer porous PLA scaffolds for tissue engineering applications
R. Scaffaro, L. Botta
- P6-15 Hydrolysis of polyestrourethanes modified by polylactide
J. Brzęska, M. Rutkowska, J. Paluczek, J. Metlicka, W. Sikorska, M. Kowalczyk
- P6-16 “Click” polyamides from D-glucose
I. Molina, M. Bueno, K. Hakkou, J. Galbis
- P6-17 Release of meloxicam from different polymers for potential use as contraceptive vaginal rings
P.A. Zapata, G. Hugo Cardenas, P. Galvez, P. Oribuela, F.M. Rabagliati
- P6-18 Solubilization of phenols by polymeric micelles formed by amphiphilic block copolymers
H. Carrasco, A.F. Olea
- P6-19 Sensing pH with electroresistive nanocomposite membranes obtained from colloidal precursors
V. Castelvetro, S. Bianchi, M. Grossi, T. Guazzini, N. Calisi, A. Manariti, F. Di Francesco
- P6-20 Synthesis, radical photopolymerization and adhesive properties of polymerizable 2-substituted 1,3-propylenediphosphonic acids
Y. Catel, U.K. Fischer, N. Moszner
- P6-21 Controlled drug release of thermo-responsive polymer hybrid bone-mimetic microspheres
S.H. Park, H.S. Lee, J.H. Chang

- P6-22 Delivery of gene encoding Granzyme B inhibitor using polymer-based non-viral vector for prevention of chronic allograft rejection
W. Cheng, C. Yang, P.G. Ashton-Rickardt, Y.Y. Yang
- P6-23 Nanogel-caged polymeric vesicles for intracellular pH-triggered drug release
H.-C. Chiu, W.-H. Chiang, C.-H. Wang
- P6-24 Synthesis and properties of star-shaped copolyelectrolytes based on 2-(acryloyloxy)ethyl trimethyl ammonium chloride for application in stimuli-responsive drug delivery systems
D. Georgieva, B. Kostova, S. Ivanova, D. Rachev, D. Christova
- P6-25 Effect of PPO molar mass on structure and drug release mechanisms of siloxane-polypropyleneoxide (PPO) hybrids containing the drug propranolol
R.O. da Silva, K. Dahmouche, C.M. Paranhos
- P6-26 MIPs for the selective extraction of indole-3-carbinol used as chemoprotective agent in prostate cancer
S. Scorrano, L. Mergola, M.R. Lazzaoui, R. Del Sole, G. Vasapollo
- P6-27 Development of molecularly imprinted polymers for neopterin, a marker of cancer diseases
R. Del Sole, A. Scardino, M.R. Lazzaoui, L. Mergola, S. Scorrano, G. Vasapollo
- P6-28 Amphiphilic polymers for biomedical applications: from synthesis to nanoparticles preparation
A. Dessy, M. Alderighi, A. Altomare, F. Chiellini, A. Corti, A. M. Lapi, A. Solimando, R. Solaro
- P6-29 Nanocomposites with multilayer carbon nanotubes functionalized with drug molecules
A. Duma (Voiculet), I. Demetrescu
- P6-30 Structure and disintegration of nanoparticles from clinically relevant polymers
M. Dyakonova, S.K. Filippov, P. Chytil, A. Bogomolova, A. Radulescu, C.M. Papadakis
- P6-31 The polymers filled with carbon nanotubes as new materials in stomatology
L. Elbakyan, I. Zaporotskova, N. Polikarpova
- P6-32 Design and synthesis of orthogonally 'clickable' dendrons
P. Erturk, M.M. Kose, S. Onbulak, I.I. Yilmaz, A. Sanyal
- P6-33 Physico-chemical characterization of functionalized polypropylene hernia-repair biomaterials
R. Nisticò, G. Magnacca, M.G. Faga, G. Gautier, D. D'Angelo, R. Lamberti, S. Martorana
- P6-34 Chemical modification of PVC based prosthetic tubular devices
E. Andronescu, D. Ficai, M. Sonmez, O. Oprea, C. Ungureanu, A. Ficai
- P6-35 Electrospun polyurethane fibres
A. Genctürk, A.S. Sarac
- P6-36 Anticancer drug delivery systems based on PAAc-PCL-PAAc micelles
G.L. Georgiev, P. Petrov, S. Dimchevska, K. Goracinova
- P6-37 PBS-based electrospun fibrous scaffolds for tissue engineering applications
M. Gigli, H. Chen, C. Gualandi, N. Lotti, L. Moroni, M.L. Focarete, A. Munari
- P6-38 Synthesis of biocompatible polyurethane scaffolds by combination of solvent casting and particle leaching
G.P. Hoyos, H. Casanova, L.F. Giraldo
- P6-39 Synthesis of multifunctional star polymers as drug delivery systems
O. Gök, R. Sanyal, A. Sanyal
- P6-40 PLA-PVA core-shell fibers by coaxial electrospinning
R.P. Goncalves, M.L. Dias, P. H. S. Picciani
- P6-41 Mucoadhesivity and mechanical evaluation of hydroxypropyl methylcellulose and Eudragit RS100® copolymeric films for buccal delivery of didanosine
E. Jones, E.B. Ojewole, T. Govender
- P6-42 Synthesis of novel polymer-drug conjugates for angiogenesis
S. Gunday, R. Sanyal
- P6-43 Melt spun polyesteramide fibres for biomedical applications
M. Gupta, X. Zhu, M. Fijten, H. Kenl, M. Möller

- P6-44 Preparation and characterization of novel polymer-magnetic vector systems for targeting gene delivery
E. Haladjova, S. Rangelov, Ch.B. Tsvetanov, V. Posheva, D. Momekova, S. Pispas
- P6-45 Stimuli-responsive hydrogels for recognition of ions and signal transduction in an in vivo sensor
T. Hennecke, M. Ulbricht
- P6-46 Preparation and biocompatibility of acetic salicylic acid modified silk fibroin scaffolds
T. Adali, S.M.A. Hussan, T. Muslu
- P6-47 Morphology, mechanical properties and bioactivity of PCL coated hydroxyapatite scaffold derived from cuttlefish bone
D. Milovac, G. Gallego Ferrer, M. Ivankovic, H. Ivankovic
- P6-48 Nanoprecipitation of poly(D,L-lactide) nanoparticles follow by timeresolved small-angle x-ray scattering
A. Jäger, E. Jäger, M. Steinbart, F. Nallet, P. Stepanek
- P6-49 Novel injectable biodegradable composite materials based on polysuccinates
K. Jaszczyk, M. Smiga-Matuszowicz, J. Lukaszczyk, M. Kaczmarek
- P6-50 Static lattice atomistic simulations for co-blended-co-plasticized multipolymeric films for buccal drug delivery
E. Jones, E. Ojewole, V. Pillay, P. Kumar, T. Govender
- P6-51 'Clickable' hydrogels using dendron-polymer conjugates as building blocks
S. Kaga, R. Sanyal
- P6-52 Novel quaternized chitosan-based nanofibrous implants containing polyphenol compound with antitumor activity against *Graffi* myeloid tumor
K. Kalinov, M. Ignatova, R. Toshkova, N. Manolova, I. Rashkov
- P6-53 Design, synthesis, characterization, antiproliferative activity and genotoxicity of anthracene-containing poly(oxyethylene aminophosphonate)s
I. Kraicheva, E. Vodenicharova, I. Tsacheva, M. Topashka-Ancheva, A. Kril, I. Iliev, A. Georgieva, K. Troev
- P6-54 Peptide-functionalized hydrogels for enhancing immuno-isolation of encapsulated cells
A. Mihalova, Z. Kronekova, P. Kasak, G. Kollarikova, M. Labova, J. Vana, I. Lacik
- P6-55 Engineering biocompatible hierarchically-structured porous polymeric materials
R. Lacombe, B. Le Droumaguet, B. Carbonnier, D. Grande
- P6-56 An antibacterial properties and sustained release of natural antimicrobial extract-loaded bone cement
H.S. Lee, J.H. Chang
- P6-57 Mechanical, morphological and cytotoxicity evaluation of biostable polyurethane for use in the cardiovascular area
E. Gracioli, P. Rovaris, A.L. Ziulkoski, S. Einloft, V. Jabno, R. Ligabue
- P6-58 High strength PAA-chitosan-silica hydrogels for bone defect repair
H.-R. Lin, F.-C. Hsu, Y.-J. Lin
- P6-59 Novel formable PVA-based gel as a potential for atopic dermatitis treatment
H.-R. Lin, Y.-F. Liu, T.-S. Wang
- P6-60 Heavy-duty multi-drug loaded micelles for combination cancer chemotherapy
Y. Han, Z. He, A. Schulz, T.K. Bronich, R. Jordan, R. Luxenhofer, A.V. Kabanov
- P6-61 Superparamagnetic ferrite-carboxylated poly(L-lactide) core-shell nanoparticles for temperature triggered drug release
A. Martinelli, A. Bakry, L. D'Ilario, I. Francolini, A. Piozzzi
- P6-62 Three-dimensional polymeric systems for cancer cell studies
C. Migone, C. Bartoli, M. Gazzarri, D. Puppi, F. Chiellini
- P6-63 Conjugates of poly(2-isopropenyl-2-oxazoline) with saccharides
M. Mikulec, Z. Kronekova, E. Paulovicova, L. Paulovicova, J. Kronek
- P6-64 Functional poly(2-oxazoline)s via transamidation of side-chain esters
B. Monnery, M. Mees, M. Vergaelen, R. Hoogenboom

- P6-65 Evaluation of the antimicrobial activity of electrospun mats based on biodegradable polyesters/zinc oxide nanocomposites
H. Rodriguez, G. Morales, D. Grande
- P6-66 Ulvan hybrid hydrogels for biomedical applications
A. Morelli, M. Betti, F. Chiellini
- P6-67 Influence of poly(ethylene oxide) on morphology and carbamazepine release from poly(ϵ -caprolactone)/poly(ethyleneoxide) microspheres
S.M. Nikolic, D. Pepic, J. Djonlagic
- P6-68 Citotoxicity of nanostructured membranes based on cellulose acetate obtained by electrospinning – Exploring the effects of polymer solvents
S.V.G. Nista, M.A. D'Avila, E.F. Martinez, A.S.F. Silva, L.H. Innocentini Mei
- P6-69 Bioactive nanofibers of cellulose acetate-Ag nanoparticles prepared by electrospinning
K. Segala, S.V.G. Nista, A.S.F. Silva, E.F. Martinez, L.H. Innocentini Mei
- P6-70 Cellobiose dehydrogenase based wound dressing hydrogels with in-built antioxidant and antimicrobial systems
B. Tallinger, E. Nugrobo Prasetyo, G.S. Nyanbongo, G.M. Guebitz
- P6-71 Synthesis of poly(methyl methacrylate)-*block*-(2-hydroxyethyl methacrylate) by ATRP. Thermal behaviour and self-aggregation
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A. Toncheva, D. Paneva, N. Manolova, I. Rashkov
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M. Topashka-Ancheva, A. Kril, A. Georgieva, I. Iliev, Ts. Gerasimova, I. Kraicheva, I. Tsacheva, A. Bogomilova, E. Vodenicharova, K. Troev
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S.N. Kourkoulı, S. Kakogianni, A.K. Andreopoulou, J.K. Kallitsis
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N. Anikeev, I. Zaporotskova, D. Polikarpov
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S. Arbab, H. Mirbaba, A. Teimori, A. Zeinolebadi
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- P7-11 Effects of the polymerization temperature on the structure, morphology and conductivity of polyaniline prepared with ammonium peroxodisulfate
M. Blaha, M. Varga, J. Prokes, A. Zbigunov, J. Voblidal
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G. Carignano, M. Bassi, M. Avataneo, L. Ponta
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S. Cavus, M. Yildiran
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M. Yildiran, S. Cavus
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J.A. Batalba, K. Dahmouche, A.S. Gomes
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