Blue Sky incorep CONFERENCE 2023

Sorrento (Italy), 12-16 June 2023

Scientific Programme

The Conference is co-organized by

DPI, Eindhoven (The Netherlands)

Laboratory of Selective Polymerizations (*LSP*)
Federico II University of Naples (Italy)

Catalysis, Polymerisation, Processes and Materials Laboratory
Université de Lyon (France)

Department of Chemical Engineering
University of Alberta (Canada)

DPI Shaping polymer innovation

LSP

CP2M Catalyse, Polymérisation Procédés & Matériaux

GAME Group of Applied Macromolecular Engineering

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Monday June 12	*Molecular Catalysts (Session Chair: Vincenzo Busico)*
08.45-09.00	**Opening** (Bernhard Rieger)
09.00-09.45	**KNL1. Valorization of polyolefins via catalytic upcycling, from monomers to higher value molecules** Susannah L. Scott, *U-California,Santa Barbara, CA, USA*
09.45-10.15	**CL1. Synthesis of Ethylene Copolymers with α-Olefins Containing Hydroxy Group, and Biobased Conjugated Dienes by Half-Titanocene Catalysts** Kotohiro Nomura, *Tokyo Metropolitan U, Japan*
10.15-10.45	**CL2. Structure, Dynamics, Interaction with Solvents and Chain Transfer Agents of Molecular Catalysts for Olefin Polymerization** Cristiano Zuccaccia, *U-Perugia, Italy*
10.45-11.15	*Coffee Break*
11.15-12.00	**KNL2. Next Generation Polyolefins via Multivariate Living Coordination Polymerization** Lawrence R. Sita, *U-Maryland, College Park, MD, USA*
12.00-12.30	**CL3. Design of Olefin Block Copolymers based on Ethylene Butadiene Rubber** Christophe Boisson, *U-Lyon, France*
12.30-13.00	**CL4. 4-Ethylhex-1-ene: a new type of ethylene tetramerization via regio-selective sequential trimerization of in situ generated 1-butene** Winfried Kretschmer, *U-Bayreuth, Germany*
13.00-15.30	*Networking time*
	Molecular Catalysts (Session Chair: John Walzer)
15.30-16.15	**KNL3. Active sites, chain transfer, and kinetics of catalytic alkene polymerization** Clark Landis, *U-Wisconsin, Madison, WI, USA*
16.15-16.45	**CL5. Electrospray Ionization Mass Spectrometry (ESI-MS) of Methylaluminoxane (MAO) Activators – Scientific Curiosity or Useful Tool?** Scott Collins, *U-Eastern Finland, Joensuu, Finland*
16.45-17.15	**CL6. Development and characterisation of bimodal polymers via catalyst mixture approach** Raffaele Bernardo, *Arlanxeo, Geleen, Netherlands*
17.15-17.30	*Coffee Break*
17.30-18.00	**CL7. One-step Synthesis of Hollow Spherical Polyethylene by Precipitation Polymerization** Rong Gao, *BRICI, Sinopec Group, Beijing, China*
18.00-18.15	**EP1. Poster #20** (Amelie Fuchs, *U-Konstanz, Germany*)
18.15-18.30	**EP2. Poster #61** (Francesco Zaccaria, *Federico II U-Naples, Italy*)
19.30-21.00	*Dinner at the Hilton*
21.15-22.30	**Exhibitors' Presentations**

Tuesday June 13	*Heterogeneous Catalysts (Session Chair: Susannah Scott)*
08.45-09.30	**KNL4. Structure of Active Sites in Heterogeneous Catalysis: Quo Vadis?** Christophe Coperet, *ETH Zürich, Switzerland*
09.30-10.00	**CL8. Ethylene polymerization with Phillips catalyst based on Mixed Silica aggregate consists of flat-Silica and amorphous-Silica** Kazuhiro Yamamoto, *Japan Polychem Corporation, Japan*
10.00-10.45	**KNL5. Spectroscopy and Microscopy of Supported Olefin Polymerization Catalysis: Towards a Better Understanding of Catalyst Activation and Fragmentation** Bert Weckhuysen, *U-Utrecht, Netherlands*
10.45-11.15	*Coffee Break*
11.15-11.45	**CL9. Designing Molecularly Defined Cr(III)-Alkyl Analogs to Cr-based Ethylene Polymerization Catalysts** Anna Nobile, *ETH Zürich, Switzerland*
11.45-12.45	**KNL6. HTE & data-driven approach for the development of Ziegler-Natta PP catalysts with desired properties** Toshiaki Taniike, *JAIST, Ichikawa, Japan* and Giuseppe Antinucci, *Federico II U-Naples, Italy*
12.45-13.00	**EP3. Poster #9** (Vincenzo Busico, *Federico II U-Naples, Italy*)
13.00-15.30	*Networking time*
	Heterogeneous Catalysts (Session Chair: Christophe Coperet)
15.30-16.00	**CL10. Unraveling the effects of donors in Ziegler-Natta catalysis through a combined HTE and ML approach** Felicia Daniela Cannavacciuolo, *Federico II U-Naples, Italy*
16.00-16.30	**CL11. Spherical Ziegler-Natta PP Catalysts with Ultra-High Activity and/or Ultra-High Hydrogen Response: Understanding the Nature of Active Sites and Industrial Applications** Jijia Xie, *BRICI, Sinopec Group, Beijing, China*
16.30-17.00	**CL12. Contamination studies of chemically recycled ethylene feed streams** Christian Paulik, *Johannes Kepler U-Linz, Austria*
17.00-17.15	*Coffee Break*
17.15-18.00	**KNL7. Multiscale approach to particle fragmentation: how micro-properties affect the macro-behaviour** Alexandra Albunia, *Borealis Polyolefine GmbH, Linz, Austria*
18.00-18.30	**CL13. Towards *In-situ* Thermometry of Olefin Polymerization Catalysis** Joren M. Dorresteijn, *U-Utrecht, Netherlands*
19.30-21.00	*Dinner at the Hilton*
21.15-23.30	**Poster Session 1** *& Open Bar*

Wednesday June 14	*Modelling & Simulation (Session Chair: Nic. Friederichs)*
08.45-09.45	**KNL8. Modern computer aided approaches to rationalize and predict olefin polymerization catalysis** Luigi Cavallo, *U-Salerno, Italy* / *KAUST, Thuwal, Saudi Arabia* and Christian Ehm, *Federico II U-Naples, Italy*
09.45-10.15	**CL14. Investigation of catalytic performance of polyethylene catalyst by machine learning** Wenhong Yang, *Petrochina, Beijing, China*
10.15-10.45	**CL15. Poisoning Effect of Polar Monomers and Ethylene Polymerization Mediated by Late Transition Metals: Data-Driven QSPRs** Luo Yi, *Petrochina, Beijing, China*
10.45-11.15	*Coffee Break*
11.15-11.45	**CL16. Pushing forward coupled matrix-based Monte Carlo simulations for polymer circularity** Dagmar R. D'hooge, *Lab. Chemical Technology, Ghent, Belgium*
11.45-12.15	**CL17. Single Particle Growth, Fragmentation and Morphology Modelling: A DEM Approach** Vasileios Touloupidis, *Borealis GmbH, Linz, Austria*
12.15-12.30	**EP4. Poster #14** (Anna Dall'Anese, *U-Perugia, Italy*)
12.30-12.45	**EP5. Poster #52** (Nicholas E. Smith, *U-Wisconsin@Madison, WI, USA*)
12.45-13.00	**EP6. Poster #45** (Yusuke Mitsushige, *Japan Polychem Corporation, Japan*)
13.00-15.30	*Networking time*
	Polymer Reaction Engineering (Session Chair: Alexandra Albunia)
15.30-16.15	**KNL9. Thermodynamic Modeling and Simulation of Catalytic Polyolefin Reactors: What Can We Learn and What Is Missed?** Arash Alizadeh, *U-Alberta, Edmonton, Canada*
16.15-16.45	**CL18. Solid-Liquid Equilibria in Polyethylene and Modelling of Wax Production for Multimodal HDPE Slurry Plants** Francisco Perez, *SABIC, Geleen, Netherlands*
16.45-17.00	*Coffee Break*
17.00-17.45	**KNL10. Scale-up Methodologies for Developing Novel Polymers** Hsu Chiang, *ExxonMobil Chemical, Houston, TX, USA*
17.45-18.00	**EP7. Poster #8** (Martin Bureš, *UCT-Prague, Czech Republic*)
18.00-18.15	**EP8. Poster #38** (Tim Lenz, *TU-Munich, Germany*)
19.30-21.00	*Dinner at the Hilton*
21.15-23.30	**Poster Session 2** *& Open Bar*

Thursday June 15	*Materials Science (Session Chair: Joao Soares)*
08.45-09.30	**KNL11. From molecular distribution to rheology (and back?)** Daniel Read*, U-Leeds, UK*
09.30-10.00	**CL19. A versatile and customizable low-cost 3D-printed multipass microrheometer for high-throughput polymers rheological experimentation** Daniele Tammaro, *Federico II U-Naples, Italy*
10.00-10.45	**KNL12. Fast analytics for polyolefin microstructure assessment** Roberta Cipullo*, Federico II U-Naples, Italy*
10.45-11.15	*Coffee Break*
11.15-11.45	**CL20. Separation tools for the understanding of polyolefins microstructure** Tonica González, *Polymer Char, Paterna (Spain)*
11.45-12.15	**CL21. Controlled polymerizations of ethylene and polymerization-induced self-assembly of PE-based block copolymers** Franck D'Agosto, *U-Lyon, France*
12.15-12.45	**CL22. Tailoring the Segregation Strength and the Mechanical Properties in Olefin-Based Multiblock Copolymers by Chain Shuttling Polymerization** Gaia Urciuoli, *Federico II U-Naples, Italy*
12.45-13.00	**EP9. Poster #23** (Lukas Göpperl, *Johannes Kepler U-Linz, Austria*)
13.00-15.30	*Networking Time*
	Materials Science (Session Chair: Timothy McKenna)
15.30-16.15	**KNL13. Fatigue crack propagation in polyethylene: influence of load, temperature and molecular weight distribution** Theo Tervoort*, ETH Zürich, Switzerland*
16.15-16.45	**CL23. Single crystal formation of ultra-high molar mass polymers during polymerization** Sanjay Rastogi, *KAUST, Thuwal, Saudi Arabia*
16.45-17.15	**CL24. High-Impact and Low-Wear Polyethylene Materials: Preparation and Properties** Shixuan Xin, *Petrochina, Beijing, China*
17.15-17.30	*Coffee Break*
17.30-18.00	**CL25. High-Throughput Experimentation (HTE) for Catalytic Olefin Polymerizations: From Catalysis to Materials** Antonio Vittoria, *Federico II U-Naples, Italy*
18.00-18.15	**EP10. Poster #2** (Abdulaziz Alsubhi, *KAUST, Thuwal, Saudi Arabia*)
21.00-23.30	**(Closed) DPI Poster Session** *& Open Bar*

Friday June 16	*Sustainability & Circular Economy (Session Chair: Minoru Terano)*
09.00-09.45	**KNL14. Technology innovation to enable polymer circularity and sustainability leadership** Gabriele Mei, *Lyondellbasell, Ferrara, Italy*
09.45-10.30	**KNL15. Sustainability setting the stage for transformation of the Chemical Industry** Frank Kuijpers*, SABIC, Sittard, The Netherlands*
10.30-11.00	*Coffee Break*
	Best-Posters Award Lectures (Session Chair: Jacques Joosten)
11.00-11.15	**Best Poster Award Lecture #3**
11.15-11.30	**Best Poster Award Lecture #2**
11.30-12.00	**Best Poster Award Lecture #1**
12.00-12.30	**Best Posters Awards Ceremony & Adjourn**

List of Poster Presentations

#	Presenting Author	Co-Author(s)	Title
1.	Samy **Alioui** *U-Lyon, France*	Marvin Langlais, Nicolas Baulu, Karima Habhab, Robert Ngo, Severin Dronet, François Jean-Baptiste-dit-Dominique, Damien Montarnal, Franck D'Agosto, Christophe Boisson	New Thermoplastic Elastomers based on Ethylene-Butadiene Rubber (EBR) by Switching from Anionic to Coordinative Chain Transfer Polymerization
2.	Abdulaziz **Alsubhi** *KAUST, Thuwal, Saudi Arabia*	Dario Romano, Sanjay Rastogi	Synthesis and solid state processing of low-entangled Ultra High Molecular Weight *i*sotactic Polypropylene for Ultimate Mechanical Properties
3.	Giuseppe **Antinucci** *Federico II U-Naples, Italy*	Felicia Daniela Cannavacciuolo, Christian Ehm, Roberta Cipullo, Vincenzo Busico	Ziegler-Natta Catalysts for Propene Polymerization: An Evolutionary Bridge between Heterogeneous and Molecular Catalysis
4.	Giuseppe **Antinucci** *Federico II U-Naples, Italy*	Antonio Vittoria, Christian Ehm, Georgy P. Goryunov, Pavel S. Kulyabin, Dmitry V. Uborsky, Alexander Z. Voskoboynikov, Peter H. M. Budzelaar, Vincenzo Busico, Roberta Cipullo	Backbone stiffening in [OOOO]-type complexes and the effect on polymerization performance
5.	Maximilian **Baur** *U-Konstanz, Germany*	Rosa Habé, Stefan Mecking	Keto-polyethylene dispersions from catalytic non-alternating co-polymerization of ethylene and carbon monoxide in aqueous media
6.	Felipe M. **Bolner** *CP2M, CPE Lyon, France*	Sébasien Norsic, Vincent Monteil, Timothy F. L. McKenna, Jean Raynaud	Development of Novel Iron-Based Ziegler-Natta-type Catalysts for Ethylene Polymerization
7.	Peter H. M. **Budzelaar** *Federico II U-Naples, Italy*	Christian Ehm, Giuseppe Antinucci, Antonio Vittoria, Anna Dall'Anese, Georgy P. Goryunov, Pavel S. Kulyabin, Dmitry V. Uborsky, Alexander Z. Voskoboynikov, Cristiano Zuccaccia, Alceo Macchioni, Roberta Cipullo Vincenzo Busico	Database integrity and the identifications of unicorns and chimeras: influence on validity of QSAR/ machine learning models
8.	Martin **Bureš** *UCT-Prague, Czech Republic*	Lenka Krajáková, Alexadr Zubov, Juraj Kosek	Modelling of homogeneous polymerization catalysis: effect of mass transport limitations on reaction kinetics and polymer microstructure
9.	Vincenzo **Busico** *Federico II U-Naples, Italy*	Peter H. M. Budzelaar, Roberta Cipullo, Antonio Vittoria, Christian Ehm, Giuseppe Antinucci, Francesco Calabrò	Integrating High Throughput Experimentation (HTE) and Machine Learning (ML) in Catalytic Olefin Polymerization: Worth the Effort ?
10.	Hiroki **Chikuma** *JAIST, Ichikawa, Japan*	Gentoku Takasao, Jörg Behler, Toshiaki Taniike	Accelerating structure determination of $MgCl_2/TiCl_4$ nanoplate for Ziegler-Natta catalysts with a high-dimensional neural network potential
11.	Roberta **Cipullo** *Federico II U-Naples, Italy*	Antonio Vittoria, Christian Ehm, Giuseppe Antinucci, Georgy P. Goryunov, Pavel S. Kulyabin, Dmitry V. Uborsky, Alexander Z. Voskoboynikov, Peter H. M. Budzelaar, Vincenzo Busico	The triptycene-motif in ETM olefin polymerization catalysis

12.	Scott **Collins** *U-Eastern Finland, Joensuu, Finland*	Mikko Linnolahti, Janne Hirvi	Metallocene Dichloride Catalyst Activation using Methylaluminoxane (MAO): A DFT Study
13.	Scott **Collins** *U-Eastern Finland, Joensuu, Finland*	Mikko Linnolahti	Methylaluminoxane (MAO): Sheet vs. Cage Motifs and their Reactivity
14.	Anna **Dall'Anese** *U-Perugia, Italy*	Christian Ehm, Dmitry V. Uborsky, Roberta Cipullo, Alexander Z. Voskoboynikov, Vincenzo Busico, Alceo Macchioni, Cristiano Zuccaccia	Structural analysis, dynamics and reactivity of Zr and Hf Salan complexes
15.	Joao Marcos **da Silveira** *JAIST, Ichikawa, Japan*	Hiroki Chikuma, Gentoku Takasao, Toshiaki Taniike	Machine learning-aided structure determination of Ziegler-Natta catalyst with donors
16.	Diego **De Canditiis** *Federico II U-Naples, Italy*	Felicia Daniela **Cannavacciuolo**, Giuseppe Antinucci, Roberta Cipullo, Vincenzo Busico, Mostafa Khoshsefat, Patchanee Chammingkwan, Toshiaki Taniike, Ziyun Zhang, Laura Falivene, Luigi Cavallo	Monitoring the kinetics of internal donor reactivity toward AlR_3: solution *vs* surface studies
17.	Christian **Ehm** *Federico II U-Naples, Italy*	Roberta Cipullo, Giuseppe Antinucci, Antonio Vittoria, Georgy P. Goryunov, Pavel S. Kulyabin, Dmitry V. Uborsky, Alexander Z. Voskoboynikov, Peter H. M. Budzelaar, Vincenzo Busico	Electronic effects in early transition metal catalyzed olefin polymerization and the connection of regioselectivity and comonomer affinity
18.	Christian **Ehm** *Federico II U-Naples, Italy*	Giuseppe Antinucci, Antonio Vittoria, Georgy P. Goryunov, Pavel S. Kulyabin, Dmitry V. Uborsky, Alexander Z. Voskoboynikov, Peter H. M. Budzelaar, Vincenzo Busico, Roberta Cipullo	A generalized model for stereoselectivity of C_2-symmetric olefin polymerization catalysts
19.	Mauro **Ferrara** *Federico II U-Naples, Italy*	Davide **De Falco**, Christian Ehm, Antonio Vittoria, Ayman Abdullah Alluhaidan, Eric Cuthbert, Koen Wynand Bossers, Samuel Bentum, Linda Havermans, Nic. Friederichs, Giuseppe Izzo, Peter H. M. Budzelaar, Roberta Cipullo, Francesco Calabrò, Vincenzo Busico	Combined Digitalization and Machine Learning Efforts: the α-Olefin Polymerization High-Throughput Experimentation Showcase
20.	Amelie **Fuchs** *U-Konstanz, Germany*	Stefan Mecking	Cobalt mediated copolymerization of carbon monoxide to in-chain functionalized polyethylene
21.	Francesca **Gentile** *U-Salerno, Italy*	Roberto Pantani	Effect of biaxial orientation processing on polyethylene film morphology
22.	Alexander **Goller** *U-Bayreuth, Germany*	Johannes Obenauf, Winfried P. Kretschmer, Rhett Kempe	The highly controlled and efficient polymerization of ethylene
23.	Lukas **Göpperl** *Johannes Kepler U-Linz, Austria*	Christian Paulik	Branched comonomers in LLDPE - Influence of SCB shapes on crystallinity
24.	Nino **Grizzuti** *Federico II U-Naples, Italy*	Vincenzo Ianniello, Salvatore Costanzo, Rossana Pasquino, Giovanni Ianniruberto, Theo Tervoort	Investigating the MWD of UHMW Polyolefins via Solution Rheology
25.	Adriano **Guida** *Federico II U-Naples, Italy*	Finizia Auriemma	Basic characterization of polyethylene pure grades and corresponding blends intended for biaxially stretching process

26.	Hongfan **Hu** *Petrochina, Beijing, China*	Di Kang, Rongqing Ma and Shixuan Xin	Drives for Cationic Rare Earth Catalysts in Butadiene Rubber Production: Effective Activation Route and Chain Transfer Strategy
27.	Steffen **Iberl** *U-Konstanz, Germany*	Maximilian Baur, Lukas Odenwald, Stefan Mecking	Keto-Polyethylene material from Pd(II)-catalyzed copolymerization with continuous CO feed
28.	Teresa **Iovine** *Federico II U-Naples, Italy*	Gianluigi **Galasso**, Georgy P. Goryunov, Pavel S. Kulyabin, Anna Dall'Anese, Antonio Vittoria, Christian Ehm, Dmitry V. Uborsky, Cristiano Zuccaccia, Alceo Macchioni, Roberta Cipullo, Alexander Z. Voskoboynikov, Vincenzo Busico	Manipulation of Pre-Equilibria in Olefin Polymerization Catalysis: Backbone Stiffening Converts Living into a Highly Active Salan-type Catalyst
29.	Teppei **Ishikawa** *Toho Titanium, Chigasaki, Japan*	Hiroyuki Kono, Padavattan Govindaswamy, Hideo Funabashi	Propylene Polymerization Performance of Ziegler-Natta Catalysts with Toho's Aminosilane external donor
30.	Yuya **Kakiuchi** *ETH Zürich, Switzerland*	Sebastian Sabisch, Alexander Yakimov, Scott Docherty, Christophe Copéret	Surface Sites of V-based Olefin Polymerization Ziegler-Natta Pre-catalyst – $VOCl_3$-$MgCl_2$ – from ^{51}V ssNMR
31.	Mostafa **Khoshsefat** *JAIST, Ichikawa, Japan*	Patchanee Chammingkwan, Toshiaki. Taniike, Felicia Daniela Cannavacciuolo, Giuseppe Antinucci, Vincenzo Busico	Structure-property relationship of malonate donors in Ziegler-Natta catalysts for propylene polymerization
32.	Jakub **Klimošek** *UCT-Prague, Czech Republic*	L. Řiháková, D. Dendisová, K. Jindrová, J. Kosek	Plastic waste upgrade by solvent-based recycling methods
33.	Vít **Kolomazník** *Polymer Institute Brno, Czech Rep.*	Miroslav Skoumal, Igor Cejpek	Effect of Pre-polymerization of Diether-Based Ziegler-Natta Catalyst in Propene Bulk Polymerization
34.	Hiroyuki **Kono** *Toho Titanium, Chigasaki, Japan*	Teppei Ishikawa, Hideo Funabashi	Effects of Toho's aminosilane external donor on propylene polymerization performance of Ziegler-Natta Catalyst
35.	Lenka **Krajáková** *UCT-Prague, Czech Republic*	Adam Bouz, Jakub Klimošek, Francisco Perez Valencia, Juraj Kosek	Three-Phase Equilibrium during Liquid and Gas Sorption in Polyethylene: Experiment and Thermodynamic Modeling
36.	Winfried P. **Kretschmer** *U-Bayreuth, Germany*	Patrick Wolff, André Dickert, Rhett Kempe	iPP-grafted-PE multiblock copolymers for plastic blend recycling synthesized by coordinative chain transfer polymerization
37.	Winfried P. **Kretschmer** *U-Bayreuth, Germany*	Patrick Wolff, Rhett Kempe	Synthesis of PE-iPP diblock copolymers via chain transfer polymerization and plastic blend recycling
38.	Tim **Lenz** *TU-Munich, Germany*	Lucas Stieglitz, Bernhard Rieger	Perfectly Isotactic Polypropylene upon In Situ Activation of Ultrarigid meso Metallocenes
39.	Nina **Mast** *U-Konstanz, Germany*	Maximilian Baur, Stefan Mecking	Solvent-free Copolymerization to In-Chain Functionalized Polyethylenes
40.	Timothy **McKenna** *CP2M, CPE Lyon, France*	Roberta Lopes do Rosario, Fotios Christakopoulos, Theo A. Tervoort,	Disentangled UHMWPE - Control of Crystallization, Chain Entanglement via Process Conditions

41.	Timothy **McKenna** *CP2M, CPE Lyon, France*	Roberta Lopes do Rosario, Fotios Christakopoulos, Theo A. Tervoort	Characterization of disentangled UHMWPE
42.	Timothy **F.L. McKenna** *CP2M, CPE Lyon, France*	Kusuma Kulajanpeng**,** Nida Sheibat, Wiwut Tanthapanichakoon	Experimental Study of Multicomponent Solubility in Polypropylene
43.	Timothy **F.L. McKenna** *CP2M, CPE Lyon, France*	Niyi B. Ishola, Amel Ben M'Rad, Nida Sheibat-Othman, Fabiana N. Andrade	Gas Phase Ethylene Polymerisation: What is the impact of condensed mode?
44.	Timothy F. L. **McKenna** *CP2M, CPE Lyon, France*	Abdulrahman Albeladi**,** Akhlaq Moman	Impact of Process Poisons on the Performance of Post-Phthalate Supported Ziegler Natta Catalysts in Gas Phase Propylene Polymerization
45.	Yusuke **Mitsushige** *Japan Polychem Corporation, Japan*	Naomichi Hirama	Synthesis of polar polyolefins using allyl-free Ni/ALPHA catalysts
46.	Pietro **Oriente** *Federico II U-Naples, Italy*	Francesco Zaccaria, Peter H. M. Budzelaar, Leonardo Tensi, Christian Ehm, Antonio Vittoria, Vincenzo Busico, Roberta Cipullo	Zirconium complexes of aminophenolate-etherphenolate ligands: synthesis, characterization and catalytic properties
47.	Dario **Romano** *KAUST, Thuwal, Saudi Arabia*	Sanjay Rastogi	Low entangled ultra-high molecular weight polymers: synthesis, characterization and processing
48.	Aurelio **Salerno** *Federico II U-Naples, Italy*	Nino Grizzuti, Salvatore Costanzo	Shear and extensional rheological study of blends of linear and branched polypropylene
49.	Julia Felicitas **Schwarz** *Johannes Kepler U-Linz, Austria*	Thorsten Holtrichter-Rößmann, Christian Paulik	Modified magnesium alkyls used for Ziegler-Natta catalysts
50.	Takeshi **Shiono** *Hiroshima-U, Japan*	A. E. Kazuki, Hirotaka Nagai, Tomoyasu Kawahara, Ryo Tanaka, Yuushou Nakayama	Inhomogeneity of Methylaluminoxane-Based Solid Cocatalysts for Olefin Polymerization
51.	Jana **Skleranova** *UCT-Prague, Czech Republic*	D. Horký, L. Kolářová, S. Jantač, J. Kosek	Triboelectric separation of plastic waste: how to increase efficiency?
52.	Nicholas E. **Smith** *U-Wisconsin@Madison, WI, USA*	Clark R. Landis, Jackson S. Pratt	Rescuing Dormant Sites In Copolymerization of Ethene and Octene
53.	Joao **Soares** *U-Alberta, Edmonton, Canada*	Timothy F. L. McKenna	A Conceptual Multilevel Approach to Polyolefin Reaction Engineering
54.	Ilaria **Squillante** *U-Groeningen, Netherlands*	Giuseppe Portale	Structure-Property correlation of Tenter-Frame Biaxially Oriented Polyethylene
55.	Wojciech **Szot** *Gdansk U-Technology, Poland*	Miloud Bouyahyi, Lidia Jasinska-Walc, Rob Duchateau	Potential And Risk Of Functional Polyolefins As Tomorrow's Materials – Catalytic Aspects Of Synthesis And Applications
56.	Gentoku **Takasao** *Kaust, Thuwal, Saudi Arabia*	Bholanath Maity, Luigi Cavallo	An Experimental/DFT/Machine Learning Multiscale Workflow for Screening Chemical Space from Few Experimental Data
57.	Gaia **Urciuoli** *Federico II U-Naples, Italy*	Francesco Zaccaria,Cristiano Zuccaccia, Roberta Cipullo, Peter H. M. Budzelaar, Antonio Vittoria, Christian Ehm, Alceo Macchioni, Vincenzo Busico	Well-defined and "complete" Al-cocatalysts for Olefin Polymerization, 2: HTE screening in Olefin polymerization

58.	Adam **Veige** *U-Florida, Gainesville, FL, USA*	Jhonti Chakraborty, Yu-Hsuan Shen, Alec M. Esper, Christian Ehm, Ion Ghiviriga, Brent S. Sumerlin	Transition Metal Catalyst Design and Application in the Synthesis of Cyclic Polymers
59.	Antonio **Vittoria** *Federico II U-Naples, Italy*	Christian Ehm, Giuseppe Antinucci, Georgy P. Goryunov, Pavel S. Kulyabin, Dmitry V. Uborsky, Alexander Z. Voskoboynikov, Peter H. M. Budzelaar, Vincenzo Busico, Roberta Cipullo	A global molar mass capability model for early transition metal olefin polymerization catalysts
60.	Toru **Wada** *JAIST, Ichikawa, Japan*	Patchanee Chammingkwan, Toshiaki Taniike	Computational investigation on distribution of Cr species supported on amorphous SiO_2
61.	Francesco **Zaccaria** *Federico II U-Naples, Italy*	Gaia Urciuoli, Cristiano Zuccaccia, Roberta Cipullo, Peter H. M. Budzelaar, Antonio Vittoria, Christian Ehm, Alceo Macchioni, Vincenzo Busico	Well-defined and “complete” Al-cocatalysts for Olefin Polymerization, 1: Synthesis and Reactivity Studies