

International Conference

**Progress in Organic and
Macromolecular Compounds**

28th Edition

Program

ICMPP – Petru Poni Institute of Macromolecular Chemistry

Iasi | Romania | October 7 - 9, 2021

<https://icmpp.ro/macroiasi2021/index.php>

Edited by

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Radu-Dan RUSU

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Dear colleagues from Romania and abroad

It is our pleasure to welcome you to the 28th edition of the Progress in Organic and Macromolecular Compounds Conference, MACRO Iași 2021, a traditional event organized by the Petru Poni Institute of Macromolecular Chemistry, Iași (Institutul de Chimie Macromoleculara Petru Poni – ICMPP).

The Conference gives a broad overview of the hottest topics in organic and polymer synthesis, polymer physics, multifunctional polymeric architectures, engineering of polymeric materials, nanocomposites, hybrid materials, polymer networks, smart polymeric materials, polymeric membranes, polymer-based electronics, biologically-inspired nanostructures, drug carriers and biopolymers.

MACRO Iași 2021 addresses professionals from academia, research institutes and industry, being intended as a dynamic platform for the presentation and sharing of their research and ideas. It brings together more than 60 participants from 25 top research institutions from 11 countries. The attendance of excellent researchers from the Polymer Science and Organic Chemistry fields provides the best environment to connect and share knowledge and professional experiences with the Romanian and European polymer research community and to assemble, network, collaborate, and further develop polymer science research

This meeting could not have been organized without the generous and tireless support and contribution of many individuals and groups within and outside the ICMPP. Therefore, we would like to acknowledge to all the invited lecturers, speakers, board and committee members, chairpersons, sponsors and all the people that have been involved in the organization and presentation of relevant results and perspectives.

Best wishes for a professionally rewarding conference!

Valeria HARABAGIU and Bogdan C. SIMIONESCU

Chairpersons of MACRO Iași 2021



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Valeria HARABAGIU and Bogdan C. SIMIONESCU

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THURSDAY, 07.10.2021

09.00 - 10.00	Registration
10.00 - 10.15	Opening
10.15 - 11.00	PL1 Schluter
11.00 - 11.30	L1 Stefan van Staden ACS award
11.30 - 12.00	Coffee break
12.00 - 12.45	PL2 Tiginyanu
12.45 - 13.15	L2 Mangalagiu
13.15 - 15.00	Group photo + Lunch break
15.00 - 15.45	PL3 Pispas
15.45 - 16.00	S1 Ronexprim
16.00 - 16.16	CO1 Quaretesi
16.15 - 16.30	CO2 Radu
16.30 - 17.00	Coffee break
17.00 - 17.15	S2 Shimadzu
17.15 - 17.30	CO3 Verestiu
17.30 - 17.45	CO4 Stavarache
17.45 - 18.00	CO5 Alinceai
18.00 - 19.00	Posters - lightning presentations

FRIDAY, 08.10.2021

09.00 - 09.30	L3 Damaceanu	BioNanoTech Session
09.30 - 09.45	CO6 Damoc	
09.45 - 10.00	CO7 Stiubianu	
10.00 - 10.15	CO8 Nocon	
10.15 - 10.30	CO9 Rossner	
10.30 - 11.00	Coffee break	
11.00 - 11.45	PL4 Fery	
11.45 - 12.30	PL5 Supuran	
12.30 - 13.00	L4 Stanescu	
13.00 - 13.15	S3 Laboratorium	
13.15 - 15.00	Lunch break	
15.00 - 15.45	PL6 Haddleton	
15.45 - 16.00	S4 Apel Laser	
16.00 - 16.30	L5 Jerca	
16.30 - 17.00	Coffee break	
17.00 - 17.30	L6 Chisca	
17.30 - 17.45	CO10 Nitsche	
17.45 - 18.00	CO11 Butnaru	
18.00 - 18.15	CO12 Duduianu	
18.15 - 18.30	CO13 Balan	

SATURDAY, 09.10.2021

9.00 - 9.15	CO14 Iftime
9.15 - 9.30	CO15 Spasova
9.30 - 09.45	CO16 Bratskaya
9.45 - 10.00	CO17 Ionita
10.00 - 10.30	L7 Cristea
10.30 - 11.00	L8 Stoilova
11.00 - 11.30	coffee break
11.30 - 12.00	L9 Isac
12.00 - 12.15	CO18 Rosca
12.15 - 12.30	CO19 Ursu
12.30 - 12.45	CO20 Vasiliu
12.45 - 13.00	CO21 Bendrea
13.00 - 13.15	CO22 Bejan
13.15 - 13.30	awards + closing
13.30 - 15.00	Lunch break

on site
on line

all sessions will be transmitted on-line via Zoom platform





- **Best Oral Presentation - 500 €**
(offered by Polymers-MDPI, IF₂₀₂₀ = 4.329)
- **Best Poster Presentation - 300 €**
(offered by Macromol-MDPI, new DOAJ indexed journal)
- **2 Best Young Scientist Oral Presentations – free participation to the next RO'ICAC conference**
(offered by the Romanian International Chapter of ACS)
- **2 Best Young Scientist Poster Presentations– free participation to the next RO'ICAC conference**
(offered by the Romanian International Chapter of ACS)
- **Best Young Scientist Oral Presentation – free registration to the next MACRO Iasi edition**
- **Best Young Scientist Poster Presentation – free registration to the next MACRO Iasi edition**
- **Selected papers will be published in Cellulose Chemistry and Technology Journal**
(IF₂₀₂₀ = 1.467)



The presented papers are published in the volume

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INVITED LECTURES

A. Dieter SCHLÜTER is currently Professor Emeritus for polymer chemistry at the Materials Department of the ETH Zürich where he was active from 2004 to 2018. He studied chemistry and geophysics at the University of Munich (LMU) and received in 1984 his Ph.D. After post-doctoral stays with Prof. K. P. C. Vollhardt (UC Berkeley, USA) and Prof. W. J. Feast (University of Durham, UK) he was head of the polymer synthesis research group in Prof. G. Wegner's department at the MPI for Polymer Research (Mainz, Germany). 1991 he finished his habilitation, received a scholarship award of the Fonds der Chemischen Industrie (Dozentenstipendium) and started as Associate Professor for polymer chemistry at the Karlsruhe Institute of Technology. From 1992 to 2004 he was Full Professor at the Free University of Berlin. Since 2012 he is an elected member of the Swiss Academy of Engineering Sciences. In 2017 he was awarded the Society of Polymer Science, Japan, International Award for the discovery of 2D polymers. His research interests are in the area of synthetic polymer chemistry. Schlüter believes that organic chemistry is the fundament of innovative polymer synthesis. He has over 360 peer-reviewed publications with >14'000 citations and gave over 350 invited talks worldwide.



Ion TIGINYANU has completed his PhD in 1982 from Lebedev Institute of Physics, Moscow. He realized research projects at the Technical University Darmstadt (1995/96 and 1998/99) and at the University of Michigan in Ann Arbor (2000/2001). He serves as founding Director of the National Center for Materials Study and Testing, Technical University of Moldova. In 2019 he was elected president of the Academy of Sciences of Moldova. Professor Tiginyanu's research interests are related to nanotechnologies, multifunctional nanomaterials and fabrication of novel device structures. Among recent developments one can mention self-organized hybrid nanoarchitectures with dual hydrophilic/hydrophobic properties, light-driven nano- and micro-engines, self-propelled liquid marbles. He has more than 400 journal publications and 52 technological patents, his personal Hirsch index equals 43 (Scopus). He is member of the Academia Europaea, honorary member of the Romanian Academy, honorary doctor of the Joint Institute for Nuclear Research (Dubna, Russian Federation), Fellow of SPIE, member of AAAS, IEEE, OSA, MRS, the Electrochemical Society



Stergios PISPAS is Director of Research at the Theoretical and Physical Chemistry Institute of the National Hellenic Research Foundation in Athens, Greece. He studied Chemistry at the University of Athens, Greece and he obtained his PhD in Polymer Chemistry in 1994 from the same university. He joined TPCI-NHRF in 2004 as Associate Researcher where he initiated research in polymer science for the first time. His research interests include the tailored synthesis of amphiphilic block copolymers and polyelectrolytes utilizing living/controlled polymerizations, physicochemical studies on block copolymer supramolecular assemblies and biomacromolecular systems, as well as the development of hybrid polymer based synthetic-biological and organic-inorganic nanosystems for applications in nanomedicine, (bio)sensing, bioimaging, agriculture and water remediation technologies. He has published more than 360 peer-reviewed articles, 15 invited review articles, more than 20 invited chapters in books and encyclopaedias, and 3 books. He is currently acting as Deputy Director of TPCI-NHRF, Editor for Polymers and Member of the Editorial Advisory Board of European Polymer Journal.



David HADDLETON has been working in the area of controlled polymer synthesis for over 25 years since being employed at ICI. His PhD “Photochemistry of some organometallic ethene compounds” was under the supervision of Robin Perutz at the University of York in 1986. He spent one year at the University of Toronto as a PDRA. He joined ICI in 1988 and spent one year at the University of Southern Mississippi working with polymer liquid crystals. Moving back to the UK in 1988 he spent 5 years working on GTP and anionic polymerisation prior to moving to Warwick in 1993 and was promoted to full Professor in 1998. He has published over 500 papers and has a google h-index >85 with over 25000 citations. He has graduated over 75 PhD students from Warwick. Current work in the group is in different aspects of developing new polymerisation methodology and using this for novel polymers for industrial applications, polymers for personal care applications, (hair and skin care) and for biomedical and nano medicinal applications (new and targeted peptide and protein conjugation). Recent work includes new conjugation strategy, glycopolymers, monomer sequence control and polymerisation in biological media. He has formed two companies. currently CSO of a transdermal drug delivery company Medherant Ltd.



Andreas FERY is head of the institute for Physical Chemistry/Polymer Physics at the Leibniz Institut für Polymerforschung Dresden since 2015. He studied Physics at Konstanz University, where he received his Diplom in 1996. He did his PhD at the Max-Planck Institute for Colloids and Interfaces (MPIKG)/Potsdam University in 2000. After a post-doc at Institute Curie Paris in 2001, he became group leader at MPIKG and received his habilitation in 2006. In 2007 he joined Bayreuth University as associate professor and was promoted to full professor in 2008. He received the Richard Zsigmondy award of the German colloid society and an ERC starting grant. He has published more than 250 papers in peer-reviewed journals in the area of Polymer science and Colloid and interface science which have been cited more than 10000 times. His research interests are in development of novel approaches for Responsive/Bio-interactive Coatings and Nanophotonic/Plasmonic Surface Assemblies. Both research directions benefit from expertise in Characterizing Mechanics and Interactions of Colloidal Particles on the single particle level, using atomic force microscopy techniques. Deputy spokesperson of German Colloid Society, treasurer of European Colloid and Interface Society.



Claudiu T. SUPURAN is professor of medicinal and pharmaceutical chemistry at the University of Florence, Italy, since 1995. He was a visiting scholar at University of Florida, Gainesville, USA, at Griffith University, Brisbane, Australia, and visiting professor at University of La Plata, Argentina, at Federal University of Rio de Janeiro, Brazil, and at UNSW, Sydney, Australia. His research is in the medicinal chemistry/biochemistry of metalloenzymes, mainly carbonic anhydrases, field in which he has made contributions to the design of many novel classes of enzyme inhibitors and activators, deciphering their mechanism of action at molecular level, discovery of new isoforms and their role in disease (cancer, obesity, epilepsy, neuropathic pain and cognition), discovery and characterization of carbonic anhydrases from various organisms (bacteria, fungi, protozoans, sponges, corals, plants, diatoms, vertebrates, etc). Other research interests include X-ray crystallography of metallo-enzymes, heterocyclic chemistry, chemistry of sulfonamides, sulfamates and sulfamides, biologically active organo-element derivatives, metal-based drugs, cyclooxygenases, serine proteases, matrix metalloproteinases, bacterial proteases, and computational chemistry. Published more than 1700 papers in these fields and his Hirsch index is 149, with > 98000 citations. One of the compounds discovered in his laboratory (SLC-0111) is in Phase II clinical trials for the treatment of advanced metastatic solid tumors in Canada/USA.



MACRO Iași 2021



Oral presentations

- IL** invited lectures (45 min, Q & A included)
- L** lectures (30 min, Q & A included)
- OC** oral contributions (15 min, Q & A included)



Poster presentations

- PP** posters lightning presentations (2 min)
- Posters (A1 size, portrait orientation) will be posted at registration and will remain displayed during the entire conference*



Language

The conference language is English



PROGRAM

THURSDAY, October 7	9 ⁰⁰ – 10 ⁰⁰	Registration of Participants
	10 ⁰⁰ – 10 ¹⁵	Conference Opening
		10 ¹⁵ – 11 ³⁰ Session 1 <i>Conference Hall / Zoom: https://us06web.zoom.us/j/82631577653</i> Chair: Bogdan C. SIMIONESCU
	10 ¹⁵ – 11 ⁰⁰	IL1. EXPANSION OF THE STAUDINGER 'MAKROMOLEKÜL'-CONCEPT TO TWO DIMENSIONS A. Dieter SCHLUTER <i>ETH Zurich, Department of Materials, Zürich, Switzerland</i>
	11 ⁰⁰ – 11 ²⁵	L1. ENANTIOANALYSIS – A TOOL IN DIAGNOSTIC OF CANCER Raluca-Ioana STEFAN-VAN STADEN <i>National Institute of Research for Electrochemistry and Condensed Matter, Laboratory of Electrochemistry and PATLAB, Bucharest, Romania</i>
	11 ²⁵ – 11 ³⁰	ACS Awards
	11 ³⁰ – 12 ⁰⁰	Coffee Break – Conference Hall
		12 ⁰⁰ – 13 ¹⁵ Session 2 <i>Conference Hall / Zoom: https://us06web.zoom.us/j/82631577653</i> Chair: Valeria HARABAGIU
	12 ⁰⁰ – 12 ⁴⁵	IL2. TUBULAR NANOMATERIALS FOR MULTIFUNCTIONAL APPLICATIONS <u>Ion TIGINYANU</u> , ¹ Tudor BRANISTE ² ¹ <i>Academy of Sciences of Moldova, Chisinau, Republic of Moldova</i> ² <i>Technical University of Moldova, National Center for Materials Study and Testing, Chisinau, Republic of Moldova</i>
	12 ⁴⁵ – 13 ¹⁵	L2. HYBRID FIVE- AND SIX-MEMBER RING AZAHETEROCYCLES: SYNTHESIS AND APPLICATIONS <u>Ionel I. MANGALAGIU</u> , ^{1,2} Dorina AMARIUCAI-MANTU, ¹ Vasilichia ANTOCI, ¹ Ramona DANAC, ¹ Violeta MANGALAGIU, ² Costel MOLDOVEANU, ¹ Gheorghita ZBANCIOC ¹ ¹ <i>Alexandru Ioan Cuza University of Iasi, Faculty of Chemistry, Iasi, Romania</i> ² <i>Alexandru Ioan Cuza University of Iasi, Institute of Interdisciplinary Research - CERNESIM Centre, Iasi, Romania</i>
	13 ¹⁵ – 13 ³⁰	Group photo
13 ³⁰ – 15 ⁰⁰	Lunch Break	



15⁰⁰ – 16³⁰

Session 3

Conference Hall / Zoom: <https://us06web.zoom.us/j/84675946837>

Chair: Marcela MIHAI

15⁰⁰ – 15⁴⁵**IL3. RESPONSIVE COPOLYMERS BY RAFT
POLYMERIZATION AS BUILDING BLOCKS FOR
CONSTRUCTING SELF-ASSEMBLED BIO-HYBRID
NANOSTRUCTURES**

Stergios PISPAS

*Theoretical and Physical Chemistry Institute, National Hellenic Research
Foundation, Athens, Greece*15⁴⁵ – 16⁰⁰**S1. RONEXPRIM – Your reliable partner for integrated solutions in
R&D for 30 years**

Rodica STOIAN

SC RONEXPRIM SRL

16⁰⁰ – 16¹⁵**OC1. β -Cyclodextrin host for the selective molecular recognition of
isomers of bisphenols in water**Ilaria QUARATESI,^{1,2} Paolo Della SALA,¹ Clotilde CAPACCHIONE,^{1,2}
Carmen TALOTTA,¹ Silvano GEREMIA,³ Neal HICKEY,³ Rocco
GLIUBIZZI,² Immacolata BRUNO,² Carmelo SGARLATA,⁴ Rossella
MIGLIORE,⁴ Carmine GAETA,¹ Placido NERI,¹ Elena BADEA^{5,6}¹*Dipartimento di Chimica e Biologia A. Zambelli, Università di Salerno,
Salerno, Italy*²*BI-QEM SPECIALTIES SPA, Buccino, Italy*³*Centro di Eccellenza in Biocristallografia, Dipartimento di Scienze**Chimiche e Farmaceutiche, Università di Trieste, Trieste, Italy*⁴*Dipartimento di Scienze Chimiche, Università Degli Studi di Catania,**Catania, Italy*⁵*National Research & Development Institute for Textiles and Leather,**ICPI Research Division, Bucharest, Romania*⁶*Department of Chemistry, Faculty of Sciences, University of Craiova,**Craiova, Romania*16¹⁵ – 16³⁰**OC2. Novel studies on silk sericin biofunctionalization by atom****transfer radical polymerization**Ionut-Cristian RADU, Mircea TEODORESCU, Madalina NECOLAU,
Catalin ZAHARIA, Horia IOVU
*University Politehnica of Bucharest, Faculty of Applied Chemistry and
Materials Science, Advanced Polymer Materials Group, Bucharest,
Romania*16³⁰ – 17⁰⁰**Coffee Break – Conference Hall**

17⁰⁰ – 19⁰⁰

Session 4

Conference Hall / Zoom: <https://us06web.zoom.us/j/84675946837>

Chair: George STIUBIANU

17⁰⁰ – 17¹⁵

S2. SHIMADZU

Adrian ARSINTESCU

Shimadzu Handelsgesellschaft m.b.H Korneuburg- Bucharest Branch

17¹⁵ – 17³⁰

OC3. 3D BIOPRINTED SCAFFOLDS BASED ON FUNCTIONALISED GELATIN AND PEGDA FOR SOFT TISSUE ENGINEERING

Isabella COBZARIU,¹ Maria BERCEA,² Catalina Anisoara PEPTU,³ Maria BUTNARU,¹ Liliana VERESTIUC¹

¹*Faculty of Medical Bioengineering, Grigore T. Popa University of Medicine and Pharmacy, Iasi, Romania*

²*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*

³*Cristofor Simionescu Faculty of Chemical Engineering and Environmental Protection, Gheorghe Asachi Technical University of Iasi, Romania*

17³⁰ – 17⁴⁵

OC4. HIFU EFFECT ON MAGNETIC POLYELECTROLYTE MICROCAPSULES

Carmen STAVARACHE,¹ Timothy MASON,² Feng WU³

¹*Costin D. Nenitescu Centre of Organic Chemistry, Romanian Academy, Bucharest, Romania*

²*Coventry University, Faculty of Health and Life Sciences, Coventry, UK*

³*Churchill Hospital, Oncology Department, Oxford, UK*

17⁴⁵ – 18⁰⁰

OC5. BIOCOMPATIBLE HYDROGELS WITH BROAD-SPECTRUM ANTIMICROBIAL ACTIVITY

Daniela AILINCAI,¹ Irina ROSCA,¹ Simona MORARIU,¹

Liliana MITITELU-TARTAU,² Marian ANGHELOIU,³

Luminita MARIN¹

¹*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*

²*Grigore T. Popa University of Medicine and Pharmacy, Iasi, Romania*

³*Sanimed Int IMPEX SRL, Bucharest, Romania*

18⁰⁰ – 19⁰⁰

Posters lightning presentations



09⁰⁰ – 10³⁰**Session 5**Conference Hall / Zoom: <https://us06web.zoom.us/j/82264597551>**Chair: Radu Dan RUSU**09⁰⁰ – 09³⁰**L3. RECENT CONCEPTS IN ELECTROCHROMIC POLYMERS CONTAINING TRIARYLAMINE AS ELECTROACTIVE UNIT**Mariana-Dana DAMACEANU,¹ Catalin-Paul CONSTANTIN,¹Andra-Elena BEJAN,¹ Cristian LOGIGAN²¹*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*²*S.C. Chemical Company S.A., Iasi, Romania*09³⁰ – 09⁴⁵**OC6. SILOXANE/SILANE DERIVATES BASED ON 5-AMINO-1,3,4-THIDIAZOLE-2-THIOL AND THEIR GOLD COMPLEXES: INTERFACIAL PHENOMENA BASED ON PHOTOLUMINESCENCE**Madalin DAMOC,¹ Alexandru Constantin STOICA,¹Mihaela DASCALU,¹ Ana-Maria MACSIM,¹ Radu Ionut TIGOIANU,¹Diana BLAJ,¹ Alina Gabriela RUSU,¹ Mihail IACOB,² Maria CAZACU¹¹*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*²*CT systems AG, Dübendorf, Switzerland*09⁴⁵ – 10⁰⁰**OC7. ENERGY-EFFICIENT DYNAMIC POLYMER-BASED NANOCOMPOSITES FOR THERMAL COMFORT**George STIUBIANU,¹ Cristian URSU,¹ Codrin TUGUI,¹ Adrian BELE,¹Alexandra BARGAN,¹ Mihaela DASCALU,¹ Carmen RACLES,¹ MariaCAZACU,¹ Aurelian CIOBOTARU²¹*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*²*SC All Cio Invest SRL, Iasi, Romania*10⁰⁰ – 10¹⁵**OC8. THERMALLY REARRANGED MIXED MATRIX MEMBRANES FILLED WITH FUMED SILICA FOR CO₂ SEPARATION**

Klaudia NOCON-SZMAJDA, Andrzej JANKOWSKI,

Aleksandra WOLIŃSKA-GRABCZYK

*Centre of Polymer and Carbon Materials Polish Academy of Sciences, Zabrze, Poland*10¹⁵ – 10³⁰**OC9. CONTROLLING THE SURFACE PATTERNING AND SELF-ASSEMBLY OF INORGANIC NANOPARTICLES BY MACROMOLECULAR DESIGN OF POLYMERIC BRUSH COATINGS**

Christian ROSSNER

*Leibniz-Institut für Polymerforschung Dresden e.V.,**Institut für Physikalische Chemie und Physik der Polymere, Dresden, Germany.*10³⁰ – 11⁰⁰**Coffee Break – Conference Hall**

11⁰⁰ – 13¹⁵

Session 6

Conference Hall / Zoom: <https://us06web.zoom.us/j/82264597551>

Chair: Mariana PINTEALA

11⁰⁰ – 11⁴⁵ **IL4. FROM RESPONSIVE SURFACE COATINGS TO SELF-REPORTING MATERIALS**

Quinn A. BESFORD, Simon SCHUBOTZ, Jens-Uwe SOMMER,
Günter K. AUERNHAMMER, Petra UHLMANN, Andreas FERY
Leibniz-Institut für Polymerforschung, Dresden, Germany

11⁴⁵ – 12³⁰ **IL5. EMERGING ROLE OF CARBONIC ANHYDRASE INHIBITORS**

Claudiu T. SUPURAN
University of Florence, Florence, Italy

12³⁰ – 12⁴⁵ **S3. BYPASSING LC SYSTEM PASSIVATION REQUIREMENTS USING ACQUITY PREMIER WITH MAXPEAK HPS TECHNOLOGY**

Ionut MELINTE
SC LABORATORIUM SRL

12⁴⁵ – 13¹⁵ **L4. THERMAL ANALYSIS - VALUABLE TOOL FOR STUDYING POLYMER COMPOSITES**

Michaela Dina STANESCU
Aurel Vlaicu University, Arad, Romania
Politehnica University, Bucharest, Romania

13¹⁵ – 15⁰⁰ **Lunch Break**

15⁰⁰ – 16³⁰

Session 7

Conference Hall / Zoom: <https://us06web.zoom.us/j/84635195444>

Chair: Maria CAZACU

15⁰⁰ – 15⁴⁵ **IL6. CATALYTIC CHAIN TRANSFER (CCT) IN RADICAL POLYMERISATION TO GIVE CONTROLLED POLYMER STRUCTURES IN AN INDUSTRIAL USEFUL AND PRACTICAL WAY**

David M. HADDLETON
University of Warwick, Coventry, UK

15⁴⁵ – 16⁰⁰ **S4. APEL LASER – lighting the future**

Alin ENACHE
SC Apel Laser SRL

16⁰⁰ – 16³⁰ **L5. POLY(2-ISOPROPENYL-2-OXAZOLINE)-A VERSATILE PLATFORM FOR ADVANCED MULTIFUNCTIONAL MATERIALS**

Florica Adriana JERCA, Valentin Victor JERCA
Costin D. Nenitescu Centre of Organic Chemistry, Romanian Academy, Bucharest, Romania

16³⁰ – 17⁰⁰ **Coffee Break – Conference Hall**



17⁰⁰ – 18³⁰

Session 8

Conference Hall / Zoom: <https://us06web.zoom.us/j/84635195444>

Chair: Mariana-Dana DAMACEANU

17⁰⁰ – 17³⁰ **L6. POLYTRIAZOLE A NEW POLYMERIC PLATFORM FOR A WIDE RANGE OF MEMBRANE SEPARATIONS**

Stefan CHISCA, Gheorghe FALCA, Valentina Elena MUSTEATA, Suzana P. NUNES

*King Abdullah University of Science and Technology (KAUST), Biological and Environmental Science and Engineering Division, Advanced Membrane & Porous Materials Center, Thuwal, Saudi Arabia*17³⁰ – 17⁴⁵ **OC10. LOWERED BAND GAP OF CONJUGATED POLYAZOMETHINES VIA SUPRAMOLECULAR ORGANISATION INDUCED BY MODIFICATION OF ALKYL SUBSTITUENTS**

Paweł NITSCHKE, Marharyta VASYLIEVA, Marcin GODZIERZ, Henryk JANECEK, Marta MUSIOŁ, Adrian DOMIŃSKI, Bożena JARZĄBEK

*Centre of Polymer and Carbon Materials, Polish Academy of Sciences, Zabrze, Poland*17⁴⁵ – 18⁰⁰ **OC11. STUDY OF NEW IMINES CONTAINING A PHENANTHROLINE CHROMOPHORE**Irina BUTNARU,¹ Cristian LOGIGAN,² Mariana-Dana DAMACEANU¹¹*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*²*S.C. Chemical Company S.A., Iasi, Romania*18⁰⁰ – 18¹⁵ **OC12. INTERLABORATORY ASSESSMENT FOR REPRODUCIBILITY IN NMR METABOLOMICS**Catalin DUDUIANU,^{1,2} Gabriela AILIESEI,³ Mihaela BALAN,³ Mihaela CRISTEA,³ Ana-Maria MACSIM,³ Cristina STAVARACHE,^{1,2} Carmen STAVARACHE,¹ Oana POPA,^{1,2} Anca HIRTOPEANU,¹ Alina NICOLESCU,³ Calin DELEANU^{1,3}¹*Costin D. Nenitescu Centre of Organic Chemistry, Romanian Academy, Bucharest, Romania*²*University Politehnica of Bucharest, Faculty of Applied Chemistry and Material Science, Bucharest, Romania*³*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*18¹⁵ – 18³⁰ **OC13. COMPLEXATION OF ACETOPHENONE SUBSTITUTED BENZIMIDAZOLIUM SALT WITH NATIVE AND MODIFIED CYCLODEXTRINS – AN NMR STUDY**Mihaela BALAN-PORCARASU,¹ Alina NICOLESCU,¹Florentina GEORGESCU,² Calin DELEANU,^{1,3}Bogdan C. SIMIONESCU¹¹*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*²*Enpro Soctech Com, Bucharest, Romania*³*Costin D. Nenitescu Centre of Organic Chemistry, Romanian Academy, Bucharest, Romania*

FRIDAY, October 8

	16 ⁰⁰ – 18 ³⁰
	Special session on Horizon Europe open calls organized by BioNanoTech Project Support Centre <i>Library Hall / Zoom:</i> https://zoom.us/j/97048982445?pwd=blNNS0ZLTVPYb0ViNlNNdDFFTXd0QT09 Chair: Teodora RUSU
16 ⁰⁰ – 16 ⁰⁵	Welcome message Bogdan C. SIMIONESCU <i>Romanian Academy</i> <i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i>
16 ⁰⁵ – 16 ³⁵	WP 11 WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA Weiers STEFAN <i>Head of Sector EC DGI for Research and Innovation 'Widening, ERA and Research Infrastructure Programming' - tbc</i>
16 ³⁵ – 16 ⁵⁰	HORIZON EUROPE AND OPEN CALLS - GENERAL PRESENTATION Teodora RUSU <i>BioNanoTech Project Support Centre</i> <i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i>
16 ⁵⁰ – 17 ²⁰	MISSIONS IN HORIZON EUROPE Iulia MIHAIL <i>Counsellor, Ministry of Research, Innovation and Digitalisation</i> <i>Director ROST - Romanian Office for Science & Technology to the EU</i>
17 ²⁰ – 17 ³⁵	ROST IN THE BRUSSELS MAZE Iulia MIHAIL <i>Counsellor, Ministry of Research, Innovation and Digitalisation</i> <i>Director ROST - Romanian Office for Science & Technology to the EU</i>
17 ³⁵ – 17 ⁵⁰	PARTNER SEARCH FACILITIES IN HORIZON EUROPE Claudia TOMULESCU, Anca IFTENE <i>BioNanoTech Project Support Centre</i> <i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i>
17 ⁵⁰ – 18 ⁰⁵	STRUCTURAL FUNDS AND SMART SPECIALIZATION SINERGES WITH HORIZON PROJECTS Magdalena AFLORI, <i>POINGBIO Project Manager</i> Marcela MIHAI, <i>InfraSupraChem Lab Project</i> Teodora RUSU, <i>BioNanoTech Project Manager</i> <i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i>
18 ⁰⁵ – 18 ³⁰	Conclusion and general discussions



09⁰⁰ – 11⁰⁰

Session 9

Conference Hall/ Zoom: <https://us06web.zoom.us/j/84638700246>

Chair: Luminita MARIN

09 ⁰⁰ – 09 ¹⁵	<p>OC14. SALICYL-IMINE-CHITOSAN HYDROGELS FOR PROLONGED DRUG RELEASE <u>Manuela-Maria IFTIME</u>,¹ Liliana Mititelu TARTAU,² Luminita MARIN¹ ¹<i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i> ²<i>Gr. T. Popa University of Medicine and Pharmacy, Iasi, Romania</i></p>
09 ¹⁵ – 09 ³⁰	<p>OC15. ELECTROSPUN COMPOSITE FIBROUS MATERIALS FROM BIODEGRADABLE POLYMER AND CHEMICAL FUNGICIDE FOR GRAPEVINE PROTECTION <u>Mariya SPASOVA</u>,¹ Nasko NACHEV,¹ Nevena MANOLOVA,¹ Iliya RASHKOV,¹ Mladen NAYDENOV² ¹<i>Laboratory of Bioactive Polymers, Institute of Polymers, Bulgarian Academy of Sciences, Sofia, Bulgaria</i> ²<i>Department of Microbiology, Agricultural University, Plovdiv, Bulgaria</i></p>
09 ³⁰ – 09 ⁴⁵	<p>OC16. CRYOGELS OF CARBOXYMETHYLCHITOSAN FOR 3D-CELL CULTURE <u>Yuliya PRIVAR</u>,¹ Andrey BORODA,² Mariya MAIOROVA,² <u>Svetlana BRATSKAYA</u>¹ ¹<i>Institute of Chemistry, Far Eastern Branch of Russian Academy of Sciences, Vladivostok, Russia</i> ²<i>A.V. Zhirmunsky National Scientific Center of Marine Biology, Far Eastern Branch of Russian Academy of Sciences, Vladivostok, Russia</i></p>
09 ⁴⁵ – 10 ⁰⁰	<p>OC17. SAMPLE CONTROLLED THERMAL ANALYSIS – A PROMISING APPROACH FOR COMPLEX SYSTEMS <u>Daniela IONITA</u>,¹ Mariana CRISTEA,¹ Paul LAZAR,² Bogdan C. SIMIONESCU¹ ¹<i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i> ²<i>S.C. Laboratoriu S.R.L., Targu Bujor, Galati, Romania</i></p>
10 ⁰⁰ – 10 ³⁰	<p>L7. DYNAMIC MECHANICAL ANALYSIS: WHERE WE ARE IN PPIMC AND WHAT CAN BE AHEAD <u>Mariana CRISTEA</u>,¹ Daniela IONITA,¹ Paul LAZAR,² Bogdan C. SIMIONESCU¹ ¹<i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i> ²<i>S.C. Laboratoriu S.R.L., Targu Bujor, Romania</i></p>
10 ³⁰ – 11 ⁰⁰	<p>L8. ELECTROSPUN POLY(METHYL METHACRYLATE)/TiO₂ COMPOSITES FOR PHOTOCATALYTIC WATER TREATMENT <u>Olya STOILOVA</u>, Nevena MANOLOVA, Iliya RASHKOV <i>Laboratory of Bioactive Polymers, Institute of Polymers, Bulgarian Academy of Sciences, Sofia, Bulgaria</i></p>
11 ⁰⁰ – 11 ³⁰	Coffee Break – Conference Hall



11³⁰ – 13¹⁵

Session 10

Conference Hall / Zoom: <https://us06web.zoom.us/j/84638700246>

Chair: Florin BUCATARIU

11 ³⁰ – 12 ⁰⁰	<p>L9. ELECTRONIC STRUCTURE AND ISOMERIZATION MECHANISM OF AZOBENZENE DERIVATIVES DURING THE REACTION PATHWAYS FOLLOWING THE GROUND AND EXCITED-STATE LEVELS</p> <p><u>Dragos-Lucian ISAC</u>, Anton AIRINEI <i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i></p>
12 ⁰⁰ – 12 ¹⁵	<p>OC18. ANTIFUNGAL PROPERTIES OF NEW MULTICOMPONENT POLYMER SYSTEMS AS FLAME RETARDANT COATINGS</p> <p><u>Irina ROSCA</u>, Cristian-Dragos VARGANICI, Liliana ROSU, Corneliu HAMCIUC, Dan ROSU, FANICA MUSTATA <i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i></p>
12 ¹⁵ – 12 ³⁰	<p>OC19. CARBON BASED NANOMATERIALS-DNA-GOLD NANOPARTICLES HYBRID ASSEMBLIES FOR SERS BIOIMAGING</p> <p><u>Elena-Laura URSU</u>,¹ Alexandru Florentin TRANDABAT,² Alexandru ROTARU¹ ¹<i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i> ²<i>SC Intelectro Iasi SRL, Iasi, Romania</i></p>
12 ³⁰ – 12 ⁴⁵	<p>OC20. HYDROPHOBIC BIOCOMPATIBLE CaCO₃/CELLULOSE MATERIAL WITH POTENTIAL APPLICATION IN WOUND DRESSING</p> <p><u>Ana-Lavinia VASILIU</u>,¹ Marius-Mihai ZAHARIA,¹ Melinda-Maria BAZARGHIDEANU,¹ Irina ROSCA,¹ Dragos PEPTANARIU,¹ Maria-Andreea LUNGAN,² Marcela MIHAI¹ ¹<i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i> ²<i>Sara Pharm Solutions, Bucharest, Romania</i></p>
12 ⁴⁵ – 13 ⁰⁰	<p>OC21. THIOPHENE END-GROUP-FUNCTIONALIZED OLIGO(2-METHYL-2-OXAZOLINE) AS AN AMPHIPIHILIC REACTIVE MACROMONOMER AND AS A NON-CONVENTIONAL INTRINSIC LUMINESCENT MATERIAL</p> <p><u>Anca-Dana BENDREA</u>, Luminita CIANGA, Ioan CIANGA <i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i></p>
13 ⁰⁰ – 13 ¹⁵	<p>OC22. DESIGNING PHENOTHIAZINE-BASED MATERIALS WITH HIGH LUMINESCENCE IN SOLID STATE</p> <p><u>Andrei BEJAN</u>,¹ Luminita MARIN,¹ Bogdan CHIRICUTA² ¹<i>Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania</i> ²<i>Apel Laser, Bucharest, Romania</i></p>
13 ¹⁵ – 13 ³⁰	<p>AWARDS Conference Closing</p>
13 ³⁰ – 15 ⁰⁰	Lunch



POSTER LIST

- PP1. PMMA-BIOGLASS SCAFFOLDS OBTAINED BY PHASE SEPARATION METHOD: ANALYSIS OF ITS STRUCTURE, MORPHOLOGY, MECHANICAL AND BIOLOGICAL PROPERTIES**
Irina ATKINSON,¹ Ana Maria SECIU,² Simona PETRESCU,¹ Oana C. MOCIOIU,¹ Luminita PREDOANA,¹ Rodica M. ION,³ Mariana VOICESCU,¹ Daniela CULITA,¹ Elena M. ANGHEL,¹ Oana CRACIUNESCU²
¹*Ilie Murgulescu Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania*
²*National Institute of Research and Development for Biological Sciences, Bucharest, Romania*
³*NCDCP-ICECHIM Bucharest, Romania*
- PP2. CHITOSAN BIOCOMPATIBLE HYDROGELS AS DRUG DELIVERY MATRICES FOR ANTICANCER APPLICATIONS**
Anda-Mihaela CRACIUN,¹ Gabriela GAVRIL,¹ Ioana Cristina MARINAS,² Liliana MITITELU TARTAU,³ Luminita MARIN¹
¹*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*
²*Sanimed Int Impex Srl, Ctr Serv & Res Adv Biotechnol, Bucharest, Romania*
³*Gr. T. Popa University of Medicine and Pharmacy, Iasi, Romania*
- PP3. REACTIVITY ANALYSIS FOR 4-(AZULEN-1-YL)-2,6-BIS((E)-2-(THIOPHEN-2-YL)VINYLPYRIDINE USING CALCULATED QUANTUM PARAMETERS**
Ovidiu-Teodor MATICA,¹ Cristian OMOCEA,^{1,2} Roxana Luisa POPESCU,³ Eleonora-Mihaela UNGUREANU,¹ Amalia STEFANIU⁴
¹*University Politehnica of Bucharest, Department of Inorganic Chemistry, Physical Chemistry and Electrochemistry, Bucharest, Romania*
²*Water Basin Administration Dobrogea - Litoral, Constanta, Romania*
³*National Research and Development Institute for Industrial Ecology – Ramnicu Valcea Subsidiary*
⁴*National Institute of Chemical-Pharmaceutical Research and Development (ICCF), Bucharest, Romania*
- PP4. GREEN INTERPENETRATED SILICONE-BASED ELASTOMERIC WEBS ENGINEERED AS WAVE ENERGY HARVESTERS**
Natalia IONESCU,¹ Adrian BELE,² Mihaela DASCALU,² George STIUBIANU,² Maria CAZACU²
¹*Mihai Viteazul National College, Bucharest, Romania*
²*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*
- PP5. HIGH-DRUG-LOADING MAGNETIC NANOPLATFOMS**
Anca Emanuela MINUTI, Camelia-Mihaela DANCEANU, Cristina STAVILA, Horia CHIRIAC, Nicoleta LUPU, Daniel GHERCA, Adrian-Iulian BORHAN, Dumitru-Daniel HEREA, Luminita LABUSCA
National Institute of Research and Development for Technical Physics, Iasi, Romania
- PP6. EFFECT OF THE WASHING ON THE RESISTIVITY OF THE POLYAMIDE TEXTILES COATED WITH DOPED POLYANILINE**
Ana -Maria MOCIOIU,¹ Oana Catalina MOCIOIU²
¹*National R&D Institute for Non-ferrous and Rare Metals, Ilfov, Romania*
²*Ilie Murgulescu Institute of Physical Chemistry of the Romanian Academy, Bucharest, Romania*



PP7 ALGINATE-DERIVED TANNING AGENTS FOR BIODEGRADABLE LEATHER

Ilaria QUARATESI^{1,2}, Maria-Cristina MICU¹, Claudiu SENDREA¹,
Cristina CARȘOTE³, Ioan CALINESCU⁴, Petru CHIPURICI,⁴ Elena BADEA^{1,5}

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² A. Zambelli Dipartimento di Chimica e Biologia, Università di Salerno, Salerno,
Italy

³Laboratory for Scientific Investigation, National Museum of Romanian History,
Bucharest, Romania

⁴ Department of Bioresources and Polymer Science, Faculty of Applied Chemistry and
Materials Science, University Politehnica of Bucharest, Romania

⁵Department of Chemistry, Faculty of Sciences, University of Craiova, Romania

PP8 B-CYCLODEXTRIN/CURCUMIN INCLUSION COMPLEX-LOADED HYDROGELS FILMS BASED ON BIOPOLYMERS. CHARACTERIZATION AND CURCUMIN RELEASE KINETIC STUDY

Camelia Elena IURCIUC (TINCUI),^{1,2} Alexandra BUJOR,¹ Mousa SHA'AT,¹
Marcel POPA,^{2,3,4} Lacramioara OCHIUZ¹

¹Grigore T. Popa University of Medicine and Pharmacy, Faculty of Pharmacy,
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² Gheorghe Asachi Technical University, Faculty of Chemical Engineering and
Protection of the Environment, Department of Natural and Synthetic Polymers, Iasi,
Romania

³Faculty of Dental Medicine, Apollonia University, Iasi, Romania

⁴Academy of Romanian Scientists, Bucharest, Romania

PP9 POLYHYDROXYBUTYRATE ACCUMULATION IN RALSTONIA EUTROPHA IN LIPID CONTAINING MEDIA

Dana Maria MIU,^{1,2} Mihaela Carmen EREMIA,¹ Gabriela SAVOIU¹

¹National Institute for Research & Development in Pharmaceutical Chemistry,
Bucharest, Romania

²University Politehnica of Bucharest, Faculty of Applied Chemistry and Materials
Science, Bucharest, Romania

PP10 DOUBLE-FUNCTIONALIZED CHITOSAN NANOFIBERS FOR WOUND HEALING

Ramona LUNGU, Alexandru ANISIEI, Irina ROSCA, Andreea-Isabela SANDU,
Daniela AILINCAI, Luminita MARIN

Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania

PP11 NEW HYBRID QUATERNARY SALTS WITH SULFANYLAMIDE/BENZIMIDAZOLE SKELETON

Roxana CIORTEANU, Vasilichia ANTOCI, Dorina AMARIUCAI-MANTU,
Catalina CIOBANU, Violeta MANGALAGIU, Ionel I. MANGALAGIU

Alexandru Ioan Cuza University of Iasi, Iasi, Romania

PP12 SQUALENE FUNCTIONALIZED WITH COUMARINES OR BENZENESULFONAMIDES AS HYBRID INHIBITORS FOR CARBONIC ANHYDRASE

Bogdan Florin CRACIUN,¹ Lilia CLIMA,¹ Andrea ANGELI,^{1,2} Andrea PETRENI,^{1,2}
Sorin Alexandru IBANESCU,³ Mariana PINTEALA,¹ Claudiu T. SUPURAN²

¹Petru Poni Institute of Macromolecular Chemistry, Centre of Advanced Research in
Bionanoconjugates and Biopolymers, Iasi, Romania

²University of Florence, Sezione di Scienze Farmaceutiche, Sesto Fiorentino, Italy

³S.C. Antibiotice S.A., Iasi, Romania



- PP13 TOWARDS ROBUST METAL-ORGANIC FRAMEWORKS BASED ON FLUORINATED LINKERS FOR GAS STORAGE**
Ioan-Andrei DASCALU,¹ Sergiu SHOVA,¹ Rodinel ARDELEANU,¹
Narcisa MARANGOCI,¹ Mariana PINTEALA,¹ Christoph JANIAC²
¹ *Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*
² *Institute for Inorganic and Structural Chemistry, Dusseldorf, Germany*
- PP14 IDENTIFICATION OF BIO-CHEMICAL CONTAMINANTS IN COMPOSITE MATERIALS BASED ON RECYCLED PET USING TERAHERTZ SPECTROSCOPY**
Diana POPESCU,^{1,2} Florina-Daniela COJOCARU,³ Gianina DODI,³
Cosmin Teodor MIHAI,³ Mihaela ARADOAEI,^{4,5} Cristian Romeo CIOBANU^{4,5}
¹ *Grigore T. Popa University of Medicine and Pharmacy of Iasi, Department of Internal Medicine, Iasi, Romania*
² *St. Spiridon County Clinical Emergency Hospital, Internal Medicine Clinic, Iasi, Romania*
³ *Advanced Research and Development Center for Experimental Medicine (CEMEX), Grigore T. Popa University of Medicine and Pharmacy of Iasi, Romania*
⁴ *Electrical Engineering Faculty, Gheorghe Asachi Technical University of Iasi, Romania*
⁵ *ALL GREEN SRL, Iasi, Romania*
- PP15 LIGNIN AS SOURCE OF NEW HYBRID MATERIALS**
Irina APOSTOL, Ioan-Andrei DASCALU, Adina COROABA, Iuliana SPIRIDON
Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania
- PP16 MODIFICATION OF THE POLYURETHANE FILM SURFACE PROPERTIES AFTER AIR-PLASMA TREATMENT**
Mihaela BARBALATA-MANDRU,¹ Luiza Madalina GRADINARU,¹
Magdalena AFLORI,¹ Stefan URSACHE²
¹ *Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*
² *S.C. Innovative Green Power S.R.L., Iasi, Romania*
- PP17 HYOSCINE EXTRACTION FROM DATURA INNOXIA BIOMASS AND ANALYSIS BY SPECTROPHOTOMETRIC AND FLUORESCENCE METHODS**
Georgiana MARDARE (BALUSESCU), Liliana LAZAR, Irina VOLF,
Teodor MALUTAN
*Gheorghe Asachi Technical University of Iasi-Romania,
Cristofor Simionescu Faculty of Chemical Engineering and Environmental Protection*
- PP18 MORPHOLOGICAL STUDY OF SOME EPOXY RESIN WITH DOPO – BASED OLIGOPHOSPHONATE S-IPNs**
Ana-Lavinia VASILIU,¹ Cristian-Dragos VARGANICI,¹ Dan ROSU,¹
Fanca MUSTATA,¹ Oana Maria MUNTEANU,² Liliana ROSU¹
¹ *Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*
² *S.C. Azomures S.A., Mures, Romania*
- PP19 SYNTHESIS AND CHARACTERIZATION OF ACRYLIC ION EXCHANGE RESINS AND THEIR ENVIRONMENTAL APPLICATIONS AS SORBENTS**
Marius-Mihai ZAHARIA,¹ Ana-Lavinia VASILIU,¹ Marin-Aurel TROFIN,¹
Melinda-Maria BAZARGHIDEANU,¹ Catalin BLEGESCU,² Marcela MIHAI¹
¹ *Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*
² *S.C. Azomures S.A., Gheorghe Doja Str. 300, Tirgu Mures, Romania*



PP20 POLYSACCHARIDES-BASED MATERIALS AS DRUG DELIVERY SYSTEMS

Alexandra DIMOFTE,¹ Narcis ANGHEL,¹ Maria Valentina DINU,¹ Tudor BOITA,² Iuliana SPIRIDON¹

¹*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*

²*SC Antibiotice SA, Iasi, Romania*

PP21 CHITOSAN-PVA COMPOSITE HYDROGELS: SYNTHESIS, CHARACTERIZATION AND THEIR ANTIBACTERIAL PROPERTIES

Bogdan COSMAN,¹ Delia Mihaela RATA,² Dana Mihaela SUFLET,¹ Gheorghe FUNDUEANU¹

¹*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*

²*Apollonia University, Iasi, Romania*

PP22 ANTIBACTERIAL CELLULOSE HYDROGELS WITH NOBLE METALS NANOPARTICLES: SYNTHESIS, MECHANISM, AND PROPERTIES

Aleksandra MIKHAILIDI,¹ Nina KOTELNIKOVA²

¹*Saint Petersburg State University of Industrial Technologies and Design, St. Petersburg, Russia*

²*Institute of Macromolecular Compounds, Russian Academy of Sciences, St. Petersburg, Russia*

PP23 NEW ZWITTERIONIC COPOLYMER WITH CARBOXYBETAINE MOIETIES AS POSSIBLE DRUG DELIVERY SYSTEM

Marin-Aurel TROFIN,¹ Stefania RACOVITA,¹ Silvia VASILIU,¹

Ana-Lavinia VASILIU,¹ Diana Felicia LOGHIN,¹ Ondina BOITA,² Marcela MIHAI¹

¹*Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*

²*SC Antibiotice SA, Iasi, Romania*

PP24 SYNTHESIS OF SILICA PARTICLES LOADED WITH CURCUMIN AND COATED WITH PEG₇₅₀

Catalin Ionut MIHAESCU,¹ Ludmila Otilia CINTEZA,² Cristina Lavinia NISTOR,¹

Cristian PETCU,¹ Sabina Georgiana BURLACU,¹ Bogdan TRICA,¹

Cristina SCOMOROSCENCO,¹ Raluca IANCHIS,¹ Claudia NINCIULEANU,¹

Catalina GIFU,¹ Elvira ALEXANDRESCU¹

¹*National Institute for Research & Development in Chemistry and Petrochemistry-ICECHIM Bucharest, Bucharest, Romania.*

²*University of Bucharest, Bucharest, Romania*



Notes, ideas and thoughts



Notes, ideas and thoughts



Notes, ideas and thoughts



Notes, ideas and thoughts



Notes, ideas and thoughts



Notes, ideas and thoughts



Notes, ideas and thoughts



Notes, ideas and thoughts



Notes, ideas and thoughts



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Notes, ideas and thoughts



Notes, ideas and thoughts



Notes, ideas and thoughts

