

**National Institute for Research-Development
in Chemistry and Petrochemistry - ICECHIM**

The International Symposium

**“PRIORITIES OF CHEMISTRY
FOR A SUSTAINABLE
DEVELOPMENT” PRIOCHEM -
XIXth Edition**

Splaiul Independenței 202, sect. 6, Bucharest



Under the patronage of the Romanian Ministry of Research,
Innovation and Digitalization



MINISTERUL CERCETĂRII,
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*All participants via Zoom platform are kindly requested
to login with the full name and affiliation*

Symposium program

Wednesday October 11th 2023

Poster mounting session 1 – ground floor – starting hour: 11:30

Workshops and roundtables

No.	Starting time	Presenter	Room	Title
W-1	08 ⁰⁰	Irina FIERĂSCU	Room 2 (1 st floor)	Development of protective cosmetic products through bioeconomy approaches
W-2	08 ⁰⁰	Camelia UNGUREANU	Room 3 (1 st floor)	Phytosynthesis - synthesis of the future. The bioeconomy approach
W-3	09 ⁰⁰	Nicolae VARACHIU	Room 2 (1 st floor)	Innovation way: from wishful thinking to real-life applications
W-4	09 ³⁰	Florin OANCEA	Room 1 (3 rd floor)	Secvent project – knowledge exchange structuring distributed innovation processes into Living Labs.
W-5	10 ⁰⁰	Mihaela FRÎNCU	Room 2 (1 st floor)	Funding Opportunities for Innovation and Technology Transfer
W-6	10 ⁰⁰	Denis Mihaela PANAITESCU	Room 3 (1 st floor)	Biopolymeric structures for biomedical applications obtained from nanocellulose by plasma treatment
W-7	10 ⁰⁰	Radu Claudiu FIERĂSCU	Room 4 (3 rd floor)	Removal of heavy metals and arsenic from water matrices using adsorbent nanomaterials
W-8	11 ⁰⁰	Ana Maria GURBAN	Room 2 (1 st floor)	Portable miniaturized opto-electrochemical systems for in-field measurements
W-9	11 ⁰⁰	Zina VULUGA, Ioan TURCU	Room 3 (1 st floor)	Eco-friendly nanocomposites based on bio-PA and bio-fillers for injected auto parts

Zoom address for PRIOCHEM day 1 (13:00 – 18:00)

Zoom address and password will be provided to registered participants

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- 11⁴⁵ **Welcome coffee & registration of participants –
1st floor lobby**
- 12⁰⁰ **Welcome cocktail – 3rd floor lobby**
- 13⁰⁰ **Symposium opening ceremony – Room 1 (3rd floor)**

Tudor PRISECARU, Ministry of Research, Innovation and Digitalization

Ecaterina ANDRONESCU, National University of Science and Technology
POLITEHNICA Bucharest

Horia IOVU, National University of Science and Technology POLITEHNICA
Bucharest

Andrei SÂRBU, President of Bucharest 3 branch of the Romanian Chemical
Society

Mihaela DONI, General Manager - ICECHIM

Radu Claudiu FIERĂSCU, President of the Scientific Council of ICECHIM

Florin OANCEA, Scientific Director - ICECHIM

PLENARY SESSION

Room 1, 3rd floor

Chairpersons: Mihaela DONI, Radu Claudiu FIERĂSCU

No.	Starting time	Presenter	Title
PS-1	13 ⁴⁵	Elwira Zofia SIENIAWSKA	LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY APPLICATION FOR METABOLOMIC PROFILING OF COMPOUNDS IN MYCOBACTERIAL CULTURES
PS-2	14 ³⁰	Federica VALENTINI	GRAPHENE DERIVATIVES: SYNTHESIS, CHARACTERIZATION AND APPLICATIONS
PS-3	15 ¹⁵	Francois-Xavier PERRIN	NANOCARBON BASED THERMOSET COMPOSITES FOR PROTECTIVE APPLICATIONS
16 ⁰⁰ -16 ¹⁵ – Break			

SPECIAL PRESENTATION

Room 1, 3rd floor

No.	Starting time	Presenter	Title
S-1	16 ¹⁵	Rareş VASILICĂ	PUBLISHING OPPORTUNITIES WITH ENFORMATION. HOW TO INCREASE YOUR CHANCES OF PUBLICATION?
S-2	16 ³⁰	Florin OANCEA, Rodica-Mihaela FRINCU, Carmen LUPU, Petruța Călina CORNEA, Ionuț MORARU, Oana CRĂCIUNESCU, Diana CONSTANTINESCU-ARUXANDEI	CASCADE APPROACH AND VALUE PYRAMID WITHIN CIRCULAR BIOECONOMY

SECTION PRESENTATIONS

Room 1, 3rd floor

16⁴⁵-18⁰⁰

Chairpersons: Ana Maria GURBAN, Cristina Emanuela ENĂȘCUȚĂ

No.	Authors	Title
IL-02	Anca Daniela RAICIU	PHYTOTHERAPY-A NATURAL THERAPEUTIC APPROACHES
IL-03	Florin DÎRLOMAN, Traian ROTARIU, Gabriela TOADER, Aurel DIACON, Andreea MOLDOVAN, Adrian ROTARIU, Bogdan PULPEA, Daniela PULPEA, Alice PODARU	POLYMERIC COMPOSITE MATERIALS FOR DEFENSE AND SECURITY APPLICATIONS
PO-11	Grigore PSENOVSCHI, Alin VINTILA, Constantin NEAMTU, Alexandru VLAICU, Luiza CAPRA, Marinela DUMITRU, Cristina ENASCUTA	BIOGAS PRODUCTION USING GAS ENDEAVOUR
PO-18	Bogdan TRICĂ, Dragoș-Sebastian BALTAG, Florin OANCEA	DESALTING OF SODIUM LIGNOSULFONATE FROM THE SPENT SULFITE LIQUOR USING A DIFFUSION-BASED METASTABLE LIQUID-LIQUID EXTRACTION METHOD

On-line poster presentations

No.	Authors	Title
PP-01	Vasile GUTSANU, Oleg PETUHOV, Alina-Mirela IPATE, Gabriela LISA, Maria BOTNARU	COMPOSITES – PRECURSORS FOR OBTAINING NEW SORBEMTS AND CATALISTS
PP-29	Irina-Georgiana MUNTEANU, Constantin APETREI	AN ECOFRIENDLY APPROACH FOR THE ELECTROCHEMICAL DETERMINATION OF OLIVE OILS POLYPHENOLS USING DEEP EUTECTIC SOLVENTS
PP-35	Sorin Claudiu ULINICI, Gabriela BĂISAN, Alin STOICA, Radu MĂNARCĂ	MODULE OF A CATALYTIC OZONATION MEMBRANE REACTOR (CATO _x MR) FOR WATER TREATMENT. NUMERICAL MODELING FOR PROCESS INTEGRATION
PP-37	Vasilica VASILE, Irina POPA, Cristian PETCU, Alina DIMA, Mihaela ION	IMPACT ON INDOOR AIR OF MULTIFUNCTIONAL MATERIALS MADE WITH ANIMAL WASTE AND AGRO-INDUSTRIAL BY-PRODUCTS
PP-38	Irina POPA, Cristian PETCU, Alexandrina MUREȘANU	DURABILITY OF MULTIFUNCTIONAL COATINGS MADE WITH ADDITIONS OF ANIMAL WASTE AND AGRO-INDUSTRIAL BY-PRODUCTS
PP-45	Andreea IOSAGEANU, Oana CRACIUNESCU, Elena MIHAI, Ana-Maria SECIU-GRAMA, Laura Mihaela STEFAN, Anișoara CÎMPEAN	ANTI-INFLAMMATORY AND ANTIOXIDANT ACTIVITY OF ALOE VERA EXTRACT IN IMMORTALIZED HUMAN KERATINOCYTES HaCaT

On site poster presentation – section 1 (ground floor lobby) 12:00-18:30

No.	Authors	Title
PP-02	George BUICĂ, Camelia UNGUREANU, Anda Maria BAROI, Ioana Silvia HOSU, Irina FIERASCU, Radu Claudiu FIERASCU	COLORIMETRIC DETECTION OF FOODBORNE PATHOGENS USING Au-NANOPARTICLES
PP-03	Adriana MOANȚĂ, Teodora MALAERU, Ionela PETRE, Nicoleta Oana NICULA	NEW MULTIFUNCTIONAL CEMENTITIOUS COMPOSITES FOR PROTECTION AGAINST BIO- PATHOGENS AGENTS
PP-04	Ramona Marina GRIGORESCU, Lorena IANCU, Rodica-Mariana ION, Madalina Elena DAVID, Luminita PREDOANA, Anca Irina GHEBOIANU, Elvira ALEXANDRESCU	NEW APATITE-BASED CONSOLIDANT FOR STONE PRESERVATION
PP-05	Rodica-Mariana ION, Lorena IANCU, Ramona Marina GRIGORESCU, Sorin COLESNIUC, Verginica SCHRODER, Raluca Andreea TRANDAFIR, Silviu IONITA, Anca Irina GHEBOIANU, Sofia SLAMNOIU-TEODORESCU	DIAGNOSIS, PHOTOGRAMMETRY AND CONSERVATION TREATMENT WITH NANOMATERIALS OF SACIDAVA FORTRESS
PP-06	Lucian-Gabriel ZAMFIR, Raluca IANCHIȘ, Petru EPURE, Mihai MITREA, Cristian PETCU, Maria-Lorena JINGA, Iuliana RĂUT, Cristina FIRINCĂ, Mariana CONSTANTIN, Maria- Luiza JECU, Mihaela DONI, Ana-Maria GURBAN	DEVELOPMENT OF NANOCOMPOSITE BASED ELECTROCHEMICAL BIOSENSORS FOR THE MONITORING OF CLINICALLY RELEVANT ANALYTES
PP-07	Claudiu Eduard RIZESCU, Ionut Octavian ZAULET, Rodica Mariana ION	COMPARATIVE ASSESSMENT OF MARBLE AND GRANITE SPECIMENS EXPOSED TO CLIMATIC CYCLES
PP-08	Ramona-Daniela PAVALOIU, Fawzia SHA'AT, Corina BUBUEANU, Maria PETRESCU, Claudia SEVCENCO	ASSESSMENT OF PULLULAN, A MICROBIAL POLYSACCHARIDE, AS MATRIX FOR SENOTHERAPEUTICS DELIVERY
PP-09	Laurentiu MARIN, Pavel TOPALA	THERMAL GRAVIMETRIC ANALYSIS OF GRAPHITE FILMS DEPOSITED ON METAL SURFACE BY ELECTRIC DISCHARGE IMPULSE IN THE UNDEREXCITATION REGIME USING PYROLYTHIC GRAPHITE CATHODE
PP-10	Cornelia Elena MUȘINĂ (BORȘARU), Alina BROTEA, Magdalena-Rodica BUJDUVEANU, Eleonora-Mihaela UNGUREANU, Amalia ȘTEFANIU	MODIFIED ELECTRODES BASED ON ETHENE-2,1-DIYL TETRATHIOPHENE AZULENE DERIVATIVE FOR ELECTROANALYTICAL APPLICATIONS
PP-11	Iulia Elena NEBLEA, Anita Laura CHIRIAC, Anamaria ZAHARIA, Tanța-Verona IORDACHE, Ana-Mihaela GAVRILĂ, Andreea MIRON, Sorin Viorel DOLANA, Ana-Lorena NEAGU, Mircea TEODORESCU, Andreea OLARU	UNVEILING THE EFFICIENCY OF BIODEGRADABLE CHITOSAN-BASED HYDROGEL COMPOSITES FOR WASTEWATER TREATMENT
PP-12	Andreea MIRON, Iulia NEBLEA, Sorin DOLANA, Anamaria ZAHARIA, Ana-Mihaela GAVRILA,	ADVANCED ADSORBENT MATERIALS FOR REMEDICATION OF CONTAMINATED WATERS WITH

	Artur JM VALENTE, Tanta-Verona IORDACHE, Anita-Laura CHIRIAC	HEAVY METALS BY ENHANCED ADSORPTION MECHANISMS
PP-13	Anda Maria BAROI, Radu Claudiu FIERASCU, Toma FISTOS, Roxana Ioana BRAZDIS, Monica RADULY, Lia-Mara DITU, Irina FIERASCU	TOPIC NANOFORMULATIONS WITH POTENTIAL COSMETIC APPLICATIONS
PP-14	Radu Claudiu FIERASCU, Anda Maria BAROI, Roxana Ioana MATEI (BRAZDIS), Toma FISTOS, Irina FIERASCU, Ioana Silvia HOSU, Irina Elena CHICAN, Lia Mara DITU	APPLICATION OF NANOTECHNOLOGY FOR THE DEVELOPMENT OF A NEXT GENERATION DENTAL RESTORATIVE MATERIAL
PP-15	Anda Maria BAROI, Radu Claudiu FIERASCU, Roxana Ioana MATEI (BRAZDIS), Toma FISTOS, Irina FIERASCU, Camelia UNGUREANU	CRUCIFEROUS WASTE MATERIAL FROM VALUABLE RESOURCE FOR NANOPARTICLE-BASED SENSORS
PP-16	Roxana Ioana MATEI, Valentin RADITOIU, Irina FIERASCU, Anda Maria BAROI, Toma FISTOS, Sorin Claudiu ULINICI, Sorin Marius AVRAMESCU, Dorian RADU, Radu Claudiu FIERASCU	PROCEDURE FOR LARGE-SCALE PRODUCTION OF APATITE-BASED ADSORBENT MATERIAL FOR ARSENIC REMOVAL
PP-17	Roxana Ioana MATEI (BRAZDIS), Anda Maria BAROI, Radu Claudiu FIERASCU, Toma FISTOS, Irina Elena CHICAN, Georgeta IVAN, Ioana Silvia HOSU, Cristian Andi NICOLAE, Irina FIERASCU	PRELIMINARY ASSESMENT FOR HEAVY METAL REMOVAL FROM SYNTHETIC WATER MATRIX USING AN ORGANIC/INORGANIC COMPOSITE
PP-18	Roxana Ioana MATEI (BRAZDIS), Maria GRAPIN, Valentin RADITOIU, Florentina Monica RADULY, Alina RADITOIU, Anda Maria BAROI, Toma FISTOS, Irina FIERASCU, Radu Claudiu FIERASCU	METAL-OXIDE PHOTOCATALYSTS WITH HETEROJUNCTIONS FOR CEFTRIAXONE REMOVAL FROM WATER MATRICES
PP-19	Toma FISTOS, Roxana Ioana MATEI (BRAZDIS), Anda Maria BAROI, Irina FIERASCU, Radu Claudiu FIERASCU, Tanta-Verona IORDACHE, Sorin-Viorel DOLANA	THE DEVELOPMENT OF INNOVATIVE MATERIALS WITH A ROLE IN THE CONSERVATION AND REINFORCEMENT OF WOODEN HERITAGE OBJECTS
PP-20	Toma FISTOS, Alina MELINESCU, Lia Mara DITU, Anton FICAI, Denisa FICAI, Florica MARINESCU, Roxana Ioana MATEI (BRAZDIS), Irina FIERASCU, Anda Maria BAROI, Cristian-Andi NICOLAE, Radu Claudiu FIERASCU	MULTIFUNCTIONAL COMPOSITE MATERIALS (WITH CONSOLIDATION, SELF-CLEANING AND ANTIMICROBIAL PROPERTIES) APPLICABLE FOR THE PRESERVATION OF INORGANIC SUBSTRATES
PP-21	Toma FISTOS, Roxana Ioana MATEI (BRAZDIS), Anda Maria BAROI, Irina FIERASCU, Radu Claudiu FIERASCU, Raluca Augusta GABOR, Marius Eduard LUNGULESCU, Nicoleta NICULA, Miruna STAN	CHARACTERIZATION OF METAL NANOPARTICLES/POLYURETHANE FOAMS FOR PRACTICAL APPLICATIONS
PP-22	Sorin Viorel DOLANA, Anamaria ZAHARIA, Tanța-Verona IORDACHE, Andrei SÂRBU, Celina DAMIAN, Traian ROTARIU,	POLYURETHANES BASED ON ENVIRONMENTALLY FRIENDLY

	Anita-Laura CHIRIAC, Ana-Mihaela GAVRILĂ, Anton FICAI	POLYOLS AS A PROMISING ALTERNATIVE TO HTPB BINDER FOR COMPOSITE PROPELLANT ROCKETS
PP-23	Ioana Silvia HOSU	PROCESSES FOR PREPARING PEROXYNITRITE ELECTROSENSITIVE DEPOSITIONS AND METHODS OF SELECTIVE DETECTION
PP-24	George Mihail TEODORESCU, Zina VULUGA, Adriana Nicoleta FRONE, Gabriela Mădălina OPRICĂ, Cătălina Diana UȘURELU, Toma FISTOȘ, Anda Maria BAROI, Roxana Ioana MATEI, Raluca Augusta GABOR, Cristian Andi NICOLAE	THE MECHANICAL, THERMAL, AND NANOMECHANICAL PROPERTIES OF COMPOSITES MADE OF BIO-BASED POLYAMIDE AND ASH POWDER
PP-25	George-Mihail TEODORESCU, Zina VULUGA, Florin OANCEA, Raluca Augusta GABOR, Andreea IONITA, Victor FARAON, Gabriel VASILIEVICI	MECHANICAL, DYNAMIC-MECHANICAL AND NANOMECHANICAL PROPERTIES OF BIO-POLYAMIDE/KERATIN NANOCOMPOSITES
PP-26	Eduard-Marius LUNGULESCU, Elena RADOI, Ioana ION, Radu-Claudiu FIERASCU, Miruna STAN, Nicoleta-Oana NICULA	INNOVATIVE ECO-FRIENDLY SYNTHESIS OF POLYOL/SILVER NANOPARTICLES FOR ANTIMICROBIAL POLYURETHANE SYSTEMS DEVELOPMENT
PP-27	Nicoleta-Oana NICULA, Marius LUNGULESCU, Elena RADOI, Ioana Ion, Ortansa CSUTAK	WASTEWATER DYES REMOVAL THROUGH HYBRID SYSTEMS OF HYDROGEL/Pt-Ni ALLOY NANOPARTICLES
PP-28	Elena RADOI, Eduard-Marius LUNGULESCU, Nicoleta-Oana NICULA	SUSTAINABLE SYNTHESIS OF POLYMERIC HYDROGEL/METAL NANOPARTICLE HYBRIDS
PP-30	Virgil BADESCU	SEPARATION AND IDENTIFICATION OF MOLECULAR SPECIES BY GC-MS FOR THE REACTION MIXTURE WITH METHYLTRIMETHOXYSILANE (MTMOS)
PP-31	Lucian-Gabriel ZAMFIR, Iuliana RĂUT, Lorena JINGA, Petru EPURE, Mariana CONSTANTIN, Cristina FIRINCA, Nicoleta RADU, Luiza JECU, Mihaela DONI, Ana-Maria GURBAN	ASSESMENT OF BIOGENIC AMINES IN FOOD PRODUCTS AND THEIR DETECTION USING NANOCOMPOSITES BASED ELECTROCHEMICAL BIOSENSORS
PP-32	Violeta-Carolina NICULESCU, Diana Ionela POPESCU (STEGARUS), Roxana-Elena IONETE, Irina PETREANU	REMOVAL OF ORGANOPHOSPHONATE HERBICIDE: ADSORPTION ONTO NANOSILICA
PP-33	Malina DESLIU-AVRAM, Bogdan TRICĂ, Monica Florentina RADULY, Cristian-Andi NICOLAE, Magda LADANIUC, Diana CONSTANTINESCU-ARUXANDEI, Doina DIMONIE	THE SPENDING OF WOOD SAWDUST AS POSSIBILITY TO IMPROVE THE EMBEDDING'S EFFICIENCY INTO RENEWABLE ORIGIN POLYMERIC MATRICES
PP-34	Georgiana Alexandra SANDA, Viorel CIRCU, Monica ILIS, Marian MICUT, Cristina Lavinia NISTOR, Cristian PETCU, Ludmila Otilia CINTEZA	RATIONAL DESIGN OF LYOTROPIC LIQUID CRYSTAL BASED CARRIERS FOR CURCUMIN TRANSDERMAL ADMINISTRATION
PP-39	Georgi GEORGIEV, Boyko TSYNTSARSKI, Teodor SANDU, Andrei SARBU	NEW CARBON MATERIALS WITH ELECTRIC AND MAGNETIC PROPERTIES FOR SENSORS IN MEDICINE AND ENVIRONMENTAL APPLICATION

Thursday October 12th 2023

Zoom address for PRIOCHEM day 2 – morning session (10:00 – 12:15)

Zoom address and password will be provided to registered participants

Zoom address for PRIOCHEM day 2 – afternoon session (13:45 – 18:00)

Zoom address and password will be provided to registered participants

Workshops and roundtables

No.	Starting time	Presenter	Room/Zoom address	Title
W-10	08 ⁰⁰	Radu Claudiu FIERASCU	Room 3 (1 st floor)	Nanotechnology and nanomaterials for dental applications
W-11	09 ⁰⁰	Radu Claudiu FIERASCU	Room 3 (1 st floor)	Multifunctional composites for the protection of cultural heritage objects: <i>InHeritage</i> project
W-12	09 ⁰⁰	Irina Elena CHICAN	Room 1 (3 rd floor)	Financial management of research projects - short presentation for young researchers

PLENARY SESSION

Room 1, 3rd floor

Chairpersons: Mihaela DONI, Andrei SARBU

No.	Starting time	Presenter	Title
PS-4	10 ⁰⁰	Suna TİMUR	MULTIFUNCTIONAL SURFACES FOR SENSING APPLICATIONS
PS-5	10 ⁴⁰	Ana Margarida da Cruz LEDO	CONCURRENT MEASUREMENTS OF NEUROMETABOLIC CHANGES AND LOCAL FIELD POTENTIALS DURING EPILEPTIC SEIZURES USING MICROELECTRODE ARRAYS
PS-6	11 ²⁰	Michal CEGLOWSKI	MOLECULARLY IMPRINTED POLYMERS: FROM DESIGN TO APPLICATIONS
PS-7	12 ⁰⁰	Saniye SÖYLEMEZ	INNOVATIVE SURFACE DESIGNS FOR SENSING APPLICATIONS

12⁴⁰-13⁴⁵ – Lunch

Plenary session – part 2

PS-8	13 ⁴⁵	Artur J.M. VALENTE	CYCLODEXTRIN-BASED NANOSPONGES AS EFFICIENT MATRICES FOR PESTICIDE REMOVAL
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SECTIONS PRESENTATIONS

ORAL PRESENTATIONS

Room 1, 3rd floor

14³⁰-18³⁰

Chairpersons: Radu Claudiu FIERĂSCU, Adriana Nicoleta FRONE

No.	Authors	Title
IL-01	Luiza MODREANU, Marcela PITU, Elena BONDAR	PROTEJAREA PRIN BREVETUL DE INVENȚIE A REZULTATELOR CERCETĂRII DIN DOMENIUL NANOMATERIALELOR POLIMERICE
PO-01	Petru EPURE, Lucian-Gabriel ZAMFIR, Ana-Maria GURBAN	PRACTICAL ASPECTS OF BIOGENIC AMINES DETECTION
PO-02	Maria-Lorena JINGA, Lucian-Gabriel ZAMFIR, Petru EPURE, Daniel PREDA, Mariana CONSTANTIN, Iuliana RĂUT, Maria-Luiza JECU, Mihaela DONI, Iulia Gabriela DAVID, Ana-Maria GURBAN	DESIGN AND DEVELOPMENT OF MIP BASED ELECTROCHEMICAL SENSOR FOR CORTISOL DETECTION
PO-03	Ana-Lorena NEAGU, Anamaria ZAHARIA, Marinela Victoria DUMITRU, Iulia Elena NEBLEA, Sorin DOLANA, Tanta Verona IORDACHE, Carmen Elena TEBRENCU, Rodica ZAVOIANU, Octavian Dumitru PAVEL, Alina TÎRSOAGA, Andrei SARBU	DRUG-RELEASE SYSTEM BASED ON BIOCOMPATIBLE HYDROGEL CHARGED WITH LAYERED DOUBLE HYDROXIDE CONTAINING ENCAPSULATED RHAMNUS FRANGULA L. PHYTOEXTRACT
PO-04	Iulia-Ștefania VOICU, Ana-Maria BREZOIU, Mihaela DEACONU, Nada K. SEDKY, Cristian MATEI, Laila ZIKO, Daniela BERGER	ENCAPSULATION OF POLYPHENOLIC EXTRACTS FROM VACCINIUM MYRTILLUS IN FUNCTIONALIZED MESOPOROUS SILICA WITH ANTI-INFLAMMATORY ACTIVITY
PO-05	Andreea FTODIEV, Georgiana NECULA PETRAREANU, Cristina PURCAREA, Camelia BALA, Alina VASILESCU	A COLD ACTIVE ALDEHYDE DEHYDROGENASE FROM FLAVOBACTERIUM PL002 AS A NEW ENZYMATIC LABEL FOR DNA APTAMERS: A PRELIMINARY STUDY
PO-06	Mădălina GHIUȚĂ, Mihaela DEACONU, Ana-Maria BREZOIU, Ana Maria PRELIPCEAN, Raul-Augustin MITRAN, Cristian MATEI, Daniela BERGER	PRISTINE AND MODIFIED HOLLOW MESOPOROUS SILICA SPHERES AS CARRIERS FOR POLYPHENOLS
PO-07	Cătălina-Diana UȘURELU, Gabriela-Mădălina OPRICĂ, Adriana Nicoleta FRONE, Elena-Iulia NEBLEA, Monica Florentina RADULY, Augusta Raluca GABOR, Cristian-Andi NICOLAE, Mircea TEODORESCU, Denis Mihaela PANAITESCU	PREPARATION AND FUNCTIONALIZATION OF NANOCELLULOSE USING LACTIC ACID: MORPHO-STRUCTURAL CHARACTERIZATION AND EMULSIFYING CAPACITY

16¹⁵-16³⁰ – Break

PO-08	Nicola ADRIAN BOGDAN, Popescu NICOLAE MIHAIL, Gáspár SZILVESZTER	CATALYTIC MICROPUMPS MADE OF UREASE FOR MIXING SOLUTIONS IN CONFINED SPACES
PO-09	Diana-Ioana BULIGA, Monica RADULY, Valentin RĂDIȚOIU, Cristian Aurelian BOSCORNEA	OPTICAL AND TINCTORIAL PROPERTIES OF SOME NATURAL DYES EMBEDDED IN HYBRID SILICA COATINGS
PO-10	Radu ALBULESCU, Adrian ALBULESCU, Georgeta CARAENE, Corina BUBUEANU, Roxana-Mădălina STOICA	PROTEOGENOMIC TOOLS IN THE ASSESSMENT OF PHARMACOLOGICAL EFFECTS OF NATURAL COMPOUNDS
PO-19	Iulian PANA, Anca Constantina PARAU, Mihaela DINU, Diana Maria VRANCEANU, Catalin VITELARU, Alina VLADESCU (DRAGOMIR)	CrSiCN COATINGS WITH ENHANCED MECHANICAL AND ANTICORROSIVE PERFORMANCE FOR WOODWORKING INDUSTRY

On site poster presentation – section 2 (ground floor) 12:00-18:30

No.	Authors	Title
PP-40	Roxana-Mădălina STOICA, Mișu MOSCOVICI, Sultana NIȚĂ, Cristina BĂZDOACĂ, Elena-Simina LAKATOS, Lucian-Ionel CIOCA	STUDIES ON BIOSURFACTANT PRODUCTION BY TWO PSEUDOMONAS SPECIES USING SUBSTRATES FROM AGRO-FOOD INDUSTRY
PP-41	Teodora DECULESCU-IONIȚĂ, Maria Lidia POPESCU, Ligia Elena DUȚU, Emanuela Alice LUȚĂ, Liliana COSTEA, Cerasela Elena GÎRD	PHYTOCHEMICAL PROFILE AND ANTIOXIDANT ACTIVITY OF SOME WIDELY CONSUMED MUSHROOMS
PP-42	Amalia STEFANIU, Lucia Camelia PIRVU, Lucia PINTILIE, Sorin Constantin GODEANU	BIOAVAILABILITY COMPUTATIONS FOR NATURAL PHENOLIC DERIVATIVES FOR DRUGLIKENES ASSESSMENT
PP-43	Simona GHIMIS, Gabriel VASILIEVICI, Luiza MIRT, Grigore PSENOVSKI, Emilian ZAHARIA, Dorin BOMBOS	MODIFICATION OF ROAD PAVEMENT BITUMEN WITH PARTIAL DESULFURIZED CRUMB RUBBER
PP-44	Corina BUBUEANU, Angela CASARICA, Nicoleta ENE, Ramona-Daniela PAVALOIU, Fawzia SHA'AT	ANTIMICROBIAL ACTIVITY OF MUSHROOMS EXTRACTS
PP-46	Anda Maria BAROI, Daniela-Ionela TOMA (SĂRDĂRESCU), Alexandru VLAICU, Cristina Emanuela ENASCUTA, Toma FISTOS, Roxana Ioana MATEI (BRAZDIS), Radu Claudiu FIERASCU, Irina FIERASCU	GREEN APPROACH FOR SYNTHESIS OF SILVER AND GOLD NANOPARTICLES FROM SHOOTS AND POMACE WASTE EXTRACTS

PP-47	Radu Claudiu FIERASCU, Anda Maria BAROI, Roxana Ioana MATEI (BRAZDIS), Toma FISTOS, Irina FIERASCU, Alina ORTAN, Simona SPINU, Daniela IONESCU	CAPITALIZATION OF VEGETAL WASTES FOR INDUSTRIAL APPLICATION: A METHOD FOR REDUCING THE ASSOCIATED POLLUTION AND FOR INCREASING THE QUALITY OF LIFE
PP-48	Cristina FIRINCĂ, Iuliana RĂUT, Maria-Lorena JINGA, Luiza CAPRĂ, Diana POPA, Anda Maria BAROI, Lucian Gabriel ZAMFIR, Ana-Maria GURBAN, Luiza JECU, Mihaela DONI, Radu Claudiu FIERĂSCU, Mariana CONSTANTIN, Tatiana Eugenia ȘESAN	SCREENING OF AUTOCHTHONOUS MICROBIAL STRAINS FOR THE BIOREMEDIATION OF HEAVY METALS
PP-49	Ioana ION, Alina CARAMITU, Mihai MARIN, Nicoleta Oana NICULA, Eduard Marius LUNGULESCU, Ion Bogdan LUNGU	BIO-ADSORBENT BASED ON CARBON DECORATED SILVER NANOPARTICLE FOR METHYLENE BLUE ADSORPTION
PP-50	Cristina-Emanuela ENASCUTA, Elena-Emilia SIRBU, Diana PASARIN, Andra-Ionela GHIZDAREANU, Mihaela GANCIAROV, Grigore PSENOVSCHI	NEW CATALYTIC SYSTEMS USED FOR WASTEWATER TREATMENT
PP-51	Diana PASARIN, Cristina Emanuela ENASCUTA, Cristian ENACHE-PREOTEASA, Catalin Bogdan MATEI, Andra-Ionela GHIZDAREANU	COMBINED ALKALINE AND ENZYMATIC HYDROLYSIS OF EGGHELL MEMBRANES FOR OBTAINING INGREDIENTS FOR FOOD AND COSMETIC APPLICATIONS
PP-52	Ana-Maria DRAGHICI-POPA, Diana-Ioana BULIGA, Ioana POPA, Stefan TOMAS, Aurelian Cristian BOSCORNEA	PHOTOPROTECTIVE COSMETIC PRODUCTS WITH POLYPHENOLIC EXTRACT FROM GRAPE MARC
PP-53	Andreea-Luiza MIRT, Alexandru VLAICU, Mihaela CILTEA-UDRESCU, Gabriel VASILIEVICI	CATALYTIC PYROLYSIS OF REED FOR BIO-OIL AND BIOCHAR PRODUCTION
PP-54	Maria Antonia TĂNASE, Diana CONSTANTINESCU-ARUXANDEI, Florin OANCEA	STABILITY EVALUATION OF NIGELLA SATIVA ESSENTIAL OIL FINE EMULSION CONTAINING SODIUM LIGNOSULFONATE AS AQUEOUS PHASE
PP-55	Andreea Laura BANICA, Ioana Daniela DULAMA, Ioan Alin BUCURICA, Ioana Raluca SUICA-BUNGHEZ, Raluca M SENIN, Rusandica STOICA, Cristiana RADULESCU	ASSESSMENT OF DRINKING WATER QUALITY AND POTENTIAL RISK TO HUMAN HEALTH
PP-56	Iuliana RAUT, Nicoleta RADU, Carmen MINCEA, Mihaela DONI, Roxana ZAHARIA	BIOPRODUCTS WITH ENVIRONMENTAL LOW INPUT SUITABLE FOR SUGAR BEET
PP-57	Mariana CALIN, Nicoleta RADU, Carmen MINCEA, Mihaela DONI, Roxana ZAHARIA	LOW ENVIRONMENTAL INPUT BIOPRODUCTS FOR POTATO CULTURE

PP-58	Diana PRICOPE, Raluca ȘUICĂ-BUNGHEZ, Raluca SENIN, Rusândica STOICA, Mariana TOMA, Dorel HOZA	EVALUATION OF PHYTOCHEMICAL COMPOUNDS AND ANTIOXIDANT ACTIVITY OF <i>MURRAYA</i> <i>KOENIGII</i> L. FLOWERS
PP-59	Marius GHIUREA, Naomi TRITEAN, Ștefan-Ovidiu DIMA, Florin OANCEA	ORGANISATIONAL ARRANGEMENTS ASSOCIATED TO PARTIAL ION EXCHANGE IN GELATION PROCESS
PP-60	Mălina DEȘLIU-AVRAM, Orsolya-Csilla RÁDULY, Luiza CAPRĂ, Marius GHIUREA, Ioana POPA-TUDOR, Diana CONSTANTINESCU-ARUXANDEI, Mariana PĂTRAȘCU, Josef FAZAKAS, Florin OANCEA	CERAMIC GRANULES WITH PLANT BIOSTIMULANT EFFECTS BASED ON SILICON-RICH BIOMATERIALS
PP-61	Manuela Maria IFTIME, Florentina GEORGESCU, Alina NICOLESCU, Luminita MARIN, Florin OANCEA	GLYCODINAMERIC HYDROGELS BASED ON CHITOSAN AND A VANILLIN ISOMER
PP-62	Cătălin DUDUIANU, Calin DELEANU, Liliana Adriana PAIRAULT, Alina NICOLESCU, Florin OANCEA	NMR METABOLOMICS OF THREE TOMATO CULTIVARS
PP-63	Elisabeta-Irina GEANA, Corina Teodora CIUCURE, Radu TAMAIAN, Geani MAN, Roxana Elena IONETE	USING FOREST BIOMASS TO CONTRIBUTE TO POPULATION HEALTH AND ENSURING A SUSTAINABLE ENVIRONMENT
PP-64	Simona MARCU-SPÎNU, Mihaela DRĂGOI, Alina ORȚAN	ANTIOXIDANT PROPERTIES OF TOMATO WASTE: AN EXPLORATION OF AERIAL PARTS

Friday October 13th 2023

Zoom address for PRIOCHEM day 3 – morning session (09:45 – 12:30)

Zoom address and password will be provided to registered participants

Zoom address for PRIOCHEM day 3 – afternoon session & closing ceremony
(13:30 – 16:00)

Zoom address and password will be provided to registered participants

Workshops and roundtables

No.	Starting time	Presenter	Room/Zoom address	Title
W-13	09 ⁰⁰	Radu Claudiu FIERASCU	Room 2 (1 st floor)	New materials for an integrated approach of the water resources protection. The AquaMat project: ICECHIM's vision on water protection

SPONSORS' PRESENTATION

Room 1, 3rd floor

No.	Starting time	Presenter	Title
EP	09 ⁴⁵	Sandra TUȚĂ - VWR International GmbH (AVANTOR)	Optimising sample preparation for environmental analysis

ORAL PRESENTATIONS

Room 1, 3rd floor

Chairpersons: Irina FIERĂSCU, Cristina Emanuela ENĂSCUȚĂ

No.	Authors	Title
PO-12	Maria GRAPIN, Valentin RADITOIU, Alina RADITOIU, Florentina Monica RADULY	STUDIES ON PHOTOCATALYTIC DEGRADATION OF METHYLENE BLUE USING TiO ₂ – TRANSITION METAL OXIDES HETEROJUNCTIONS
PO-13	Ioana POPA-TUDOR, Victor Alexandru FARAON, Diana CONSTANTINESCU-ARUXANDEI, Florin OANCEA	DIFFERENCES AND SIMILARITIES OF ACID-EXTRACTED LIGNIN VERSUS DES-EXTRACTED LIGNIN
PO-14	Faruk USMAN, Aminu Muhammad BAYAWA, Abdullahi Muhammad SOKOTO	DEOXYGENATION OF JATROPHA CURCUS OIL TO HYDROCARBONS USING NiO/Al-PILC AS A CATALYST
PO-15	Livia Teodora CIOBANU, Diana CONSTANTINESCU-ARUXANDEI, Naomi TRITEAN, Ileana Cornelia FĂRCĂȘANU, Florin OANCEA	THE PROPERTIES OF BIOPRODUCTS FROM STREAMLINED ULTRASONIC LYSIS OF SPENT BREWER'S YEAST CELLS ARE HIGHLY INFLUENCED BY LYSIS PARAMETERS
PO-16	Eliza-Gabriela BRETTFELD, Daria Gabriela POPA, Corina MOGA, Tănase DOBRE, Diana CONSTANTINESCU-ARUXANDEI, Florin OANCEA	SUSTAINABLE CO ₂ CAPTURE AND BIO-FIXATION USING FUNCTIONALIZED DEEP EUTECTIC SOLVENTS AND MICROALGAE
PO-17	Ștefan-Ovidiu DIMA, Diana CONSTANTINESCU-ARUXANDEI, Naomi TRITEAN, Marius GHIUREA, Cristian-Andi NICOLAE, Constantin NEAMȚU, Florin OANCEA	ANALYTIC FINGERPRINTS OF Se-STIMULATED CABBAGE BIOFORTIFICATION

11⁰⁰-11¹⁰ – Break

SELECTED POSTERS PRESENTATIONS

The scientific committee of the symposium will select up to 12 posters to be presented in the special section. Best presentations will be awarded. The invited authors will be announced during the corresponding section poster presentations

11:10-12:30

12³⁰-13³⁰ – Lunch

PLENARY SESSION

Room 1, 3rd floor

Chairpersons: Florin OANCEA, Tanța-Verona IORDACHE

No.	Starting time	Presenter	Title
PS-9	13 ⁴⁰	Boyko TSYNTSARSKI	POLYMER BASED GLASSY CARBONS – PREPARATION AND APPLICATION
PS-10	14 ¹⁵	Rafael LUQUE ALVAREZ de SOTOMAYOR	BENIGN-BY DESIGN METHODOLOGIES FOR A MORE SUSTAINABLE FUTURE: PRESENT AND FUTURE

SPECIAL PRESENTATIONS

Room 1, 3rd floor

No.	Starting time	Presenter	Title
S-3	15 ⁰⁰	Ada Lorena NICULIȚĂ	FROM IDEAS TO IMPACT: UNDERSTANDING KNOWLEDGE VALORIZATION IN THE EUROPEAN RESEARCH AREA
S-4	15 ¹⁵	Tănase DOBRE	CHEMICAL ENGINEERING AND THE ATMOSPHERIC CORROSION MODELLING

15³⁰

**Symposium closing & award ceremony
(Room 1, 3rd floor)**
