

INTERNATIONAL CONFERENCE

**CHIMIA 2020**

**“NEW TRENDS IN APPLIED CHEMISTRY”**



**PROGRAM**

*May 27 – 29, 2021*  
Constanta, ROMANIA

**SPONSORS:**

**S.C. CONPET S.A. PLOIEȘTI  
CHEMENGINEERING JOURNAL**

## Foreword for the 9<sup>th</sup> Conference “CHIMIA” 2020

*The ninth in the cycle “CHIMIA”, this conference was organized by our department starting with 2000 every three years until 2012, since it is organized every two years.*

*Chimia 2020 is part of an on-going Conference series which focuses on applied chemistry problems. The conference abstracts are published in the second volume of “International Conference “CHIMIA”. Book of Abstracts”, a journal with a periodicity of two years (ISSN 2360-3941). The full-text manuscripts can be published in “Ovidius University Annals of Chemistry”, an open access journal indexed in several international databases, like Emerging Sources Citation Index (ESCI), Chemical Abstracts Service (CAS), Directory of Open Access Journals (DOAJ), Index Copernicus (IC) etc.*

*At this meeting you can present your most recent research achievements and ideas. The organizers intend to create a warm and friendly atmosphere for stimulate the scientific discussions and confrontations.*

*Constanta is the second largest city in Romania and the biggest port at the Black Sea, an important cultural and economic centre, worth exploring for its archaeological treasures and the atmosphere of the old town centre. The name of Constanta dates from the Byzantine ruling when Tomis appears in Byzantine and later Italian documents, as Constantia, after an important imperial Roman family.*

*We wish you all a fruitful conference in Constanta with many new ideas and contacts all over Europe. We look forward to meet each of you at the CHIMIA 2020!*

*Sincerely,  
Viorica Popescu  
Conference Chairperson  
Chimia 2020 Organizing Committee*



## CONFERENCE PROGRAM

Thursday, May 27, 2021

8<sup>30</sup> – 9<sup>30</sup>      **Registration**

9<sup>30</sup> – 10<sup>00</sup>      **Opening ceremony**

### **Welcome addresses**

Rector of “Ovidius” University of Constanta

Dean of Applied Sciences and Engineering Faculty, Conference CHIMIA 2020 Chairperson

10<sup>00</sup> – 11<sup>20</sup>      **Plenary session (I)**

**PL1. Andrei MEDVEDOVICI**, University of Bucharest, Romania

**PL2. Eleonora-Mihaela UNGUREANU**, Politehnica University of Bucharest, Romania

11<sup>20</sup> – 11<sup>40</sup> *Coffee break*

11<sup>40</sup> – 13<sup>00</sup>      **Keynotes**

**K1. Camelia DRAGHICI**, Transilvania University of Brasov, Romania

**K2. Timur CHIS**, CONPET SA.

**K3. Ioan Teodor VERGU**, Project Manager

13<sup>00</sup> – 15<sup>00</sup> *Lunch*

15<sup>00</sup> – 16<sup>00</sup>      *Oral session (I)*

16<sup>00</sup> – 16<sup>15</sup> *Coffee break*

16<sup>15</sup> – 18<sup>15</sup>      *Poster session (I)*

**Friday, May 28, 2021**

**9<sup>30</sup> – 10<sup>50</sup> Plenary session (II)**

**PL4. Tănase DOBRE**, Politehnica University of Bucharest, Romania

**PL5. Alina BĂDĂNOIU**, Politehnica University of Bucharest,  
Romania

**10<sup>50</sup> – 11<sup>10</sup> Coffee break**

**11<sup>10</sup> – 12<sup>10</sup> Oral session (II)**

**12<sup>10</sup> – 13<sup>10</sup> WORKSHOP** “Requirements and opportunities for increasing  
the employment of students in the southeast region”

**13<sup>10</sup> – 15<sup>00</sup> Lunch**

**15<sup>00</sup> – 17<sup>00</sup> Poster session (II)**

**17<sup>00</sup> – 17<sup>30</sup> Closing ceremony**

**19<sup>00</sup> – Gala Dinner**

**Saturday May 29, 2021**

**10<sup>00</sup> Social Program**

**May 27, 2021**

9<sup>30</sup> – 10<sup>00</sup>, *Complex Bulevard Hotel, Conference Room 1*

**Opening ceremony**

**Welcome addresses**

Rector of “Ovidius” University of Constanta

Dean of Applied Sciences and Engineering Faculty, Conference CHIMIA 2020 Chairperson

**PLENARY LECTURES**

10<sup>00</sup> – 11<sup>20</sup>, *Complex Bulevard Hotel, Conference Room 1*

**Chairpersons:**

**Viorica POPESCU**, “Ovidius” University of Constanta, Romania

**Camelia DRAGHICI**, Transilvania University of Brasov, Romania

**PL1. Andrei MEDVEDOVICI**

**PEAK HOMOGENEITY IN LC/DAD AND LC/MS**

**PL2. Eleonora-Mihaela UNGUREANU**

**INFLUENCE OF THE STRUCTURE OF SUBSTITUTED  
AZULENES ON FILM FORMATION BY  
ELECTROCHEMISTRY**

11<sup>20</sup> – 11<sup>40</sup> *Coffee break*

**KEYNOTES**

11<sup>40</sup> – 13<sup>00</sup>, *Complex Bulevard Hotel, Conference Room 1*

**Chairpersons:**

**Viorica POPESCU**, “Ovidius” University of Constanta, Romania

**Alina BADANOIU**, Politehnica University of Bucharest, Romania

**K1. Dana PERNIU, Ileana MANCIULEA, Cristina SALCA  
ROTARU, Anca VASILESCU, Camelia DRAGHICI**

**ENVIRONMENTAL EDUCATION BY OPEN  
EDUCATIONAL RESOURCES FOR SUSTAINABLE  
COMMUNITIES**

**K2. Timur CHIS**

**CONPET S.A. FROM THE OIL, GASOLINE AND  
ETHANE CARRIER TO THE GREEN ENERGY  
SUPPLIER**

**K3 Ioan Teodor VERGU, project manager - ID 109084**

**INTERNSHIPS-INCREASING THE EMPLOYMENT  
OF STUDENTS FROM THE SOUTH-EAST REGION**

*13<sup>00</sup> – 15<sup>00</sup> Lunch*

## **ORAL SESSION**

*15<sup>00</sup> – 16<sup>00</sup>, Complex Bulevard Hotel, Conference Room 1*

**Chairpersons:**

**Ileana MANCIULEA, Transilvania University of Brasov, RO  
Mariana STEFANUT, INCEMC, Timisoara, RO**

### **Section A: Natural and Synthetic Compounds**

**OA1. Elvan ÜSTÜN**

**CO-RELEASING PROPERTIES, DFT/TDDFT AND  
DOCKING ANALYSIS OF [Re(CO)<sub>3</sub>(bpy)L]<sup>+</sup> TYPE  
COMPLEXES**



**Section B: Analytical and Environmental Chemistry**

- OB1.** Anca – Iuliana DUMITRU, Ancaelena Eliza STERPU, Cristiana CRAPCEA, and Gabriela Florina STANCIU  
**TRACE METALS MONITORING IN EXTRACTIVE INDUSTRY WASTES**
- OB2.** Octavian Gabriel SIMIONESCU, Carmen CIOBANU, Marius STOIAN, Oana TUTUNARU, Cristina PACHIU, Cosmin ROMANITAN, Antonio RADOI  
**THE ELECTROANALYTICAL PERFORMANCE OF NANO-CRYSTALLINE GRAPHENE ELECTRODES**
- OB3.** Silviu-Laurentiu BADEA, Diana Ionela STEGARUS, Violeta-Carolina NICULESCU, Stanica ENACHE, Amalia SOARE, Roxana-Elena IONETE, Patrick HÖHENER  
**ABIOTIC REDUCTIVE DECHLORINATION OF A-HEXACHLOROCYCLOHEXANE BY IRON SULFIDE NANOPARTICLES. OBSERVING THE INFLUENCE OF pH ON THE DEGRADATION RATE**

*16<sup>00</sup> – 16<sup>15</sup> Coffee break*

**POSTER SESSION (I)**

**16<sup>15</sup> – 18<sup>15</sup>**, *Complex Bulevard Hotel, Conference Room 2*

**Chairpersons:**

**Ionela POPOVICI**, *“Ovidius” University of Constanta, Romania*

**Georgeta VOICU**, *Politehnica University of Bucharest, Romania*

**Section B: Analytical and Environmental Chemistry**

- PB1.** Paula SFIRLOAGA, Dan ROSU, Maria POIENAR, Mariana STEFANUT, Iosif MALAESCU, Catalin Nicolae MARIN, Paulina VLAZAN  
**COMPARATIVE STUDY ON THE PHYSICO-CHEMICAL AND ELECTRICAL PROPERTIES OF ABO<sub>3</sub> PEROVSKITES**
- PB2.** Ileana MANCIULEA, Lucia DUMITRESCU, Dora LUCACI, Camelia DRAGHICI  
**RECYCLING VEGETABLE WASTE, WOOD ASH AND SAWDUST BY COMPOSTING**
- PB3.** Andreia-Cristina SOARE, Elena PINCU, Mihaela-Carmen CHEREGI, Victor DAVID  
**COMPARATIVE THERMODYNAMIC STUDY OF RETENTION ON VARIOUS STATIONARY PHASES IN REVERSED-PHASE LIQUID CHROMATOGRAPHY**
- PB4.** Mihaela Carmen CHEREGI, Andrei Florin DANET, Claudia Valentina POPA, Alina VASILESCU, and Simona Carmen LITESCU  
**METAL NANO-OXIDE BASED COLORIMETRIC SENSORS FOR THE DETERMINATION OF SOME POLYPHENOLS IN PLANTS**
- PB5.** Tudorița-Georgiana TOFAN, Andreia-Cristina SOARE, Mihaela-Carmen CHEREGI, Iulia-Gabriela DAVID, Victor DAVID  
**SPECTROFLUORIMETRIC DETERMINATION OF CIPROFLOXACIN AND NORFLOXACIN IN PHARMACEUTICAL FORMULATIONS. APPLICATIONS TO STABILITY STUDIES**
- PB6.** Vanda-Adriana MITRANĂ, Iulia-Gabriela DAVID, and Mihaela-Carmen CHEREGI  
**ELECTROCHEMICAL APPROACHES FOR ELLAGIC ACID DETERMINATION IN DIETARY SUPPLEMENTS**

- PB7.** Mihaela BULEANDRĂ, Corina RĂDUCANU, Iulia Gabriela DAVID, Dana-Elena POPA, Adela Magdalena CIOBANU, Paul LAZĂR and Anton Alexandru CIUCU  
**SIMULTANEOUS ELECTROCHEMICAL DETECTION OF CATECHOLAMINE NEUROTRANSMITTERS AT ACTIVATED PENCIL GRAPHITE ELECTRODE**
- PB8.** Iulia Gabriela DAVID, Alexandra-Gabriela OANCEA, Mihaela BULEANDRĂ, Dana-Elena POPA, Mihaela Carmen CHEREGI, Florentin TACHE and Adela Magdalena CIOBANU  
**VOLTAMMETRIC INVESTIGATION OF DIOSMIN**
- PB9.** Dana-Elena POPA, Irina MUNTEANU, Iulia Gabriela DAVID, Mihaela BULEANDRĂ, Vlad Nicolae STOICA, Paul LAZĂR, and Emilia Elena IORGULESCU  
**ELECTROCHEMICAL STUDY OF CHLOROGENIC ACID**
- PB10.** Mihaela BULEANDRĂ, Vlad Nicolae STOICA, Tatiana CIUREA, Dana Elena POPA, Iulia Gabriela DAVID and Anton Alexandru CIUCU  
**SIMPLE AND SENSITIVE VOLTAMMETRIC DETERMINATION OF LAMOTRIGINE**
- PB11.** Alina\_SOCEANU, Simona DOBRINAS, Viorica POPESCU, and Georgiana VIZITIU  
**MONITORING OF PHYSICO-CHEMICAL PARAMETERS OF GROUDWATERS FROM DOBROGEA AREA**
- PB12** Cristina SALCA ROTARU, and Camelia DRAGHICI  
**OPEN EDUCATIONAL RESOURCES FOR LEARNING WASTE MANAGEMENT IN RURAL COMMUNITIES**
- PB13.** Dana PERNIU, and Camelia DRAGHICI  
**SUSTAINABLE COMMUNITIES – LEVELS OF ANALYSIS**
- PB14.** Violeta-Carolina NICULESCU, Marius MIRICIOIU, Amalia SOARE, Daniela EBRASU-ION  
**FLUORESCENT DYE REMOVAL FROM WASTEWATER USING SBA-16-BASED NANOCATALYSTS**

- PB15.** Elena DAVID, Violeta NICULESCU, Adrian ARMEANU, Claudia SANDRU  
**PHYSICALLY ACTIVATED CARBONS OBTAINED BY PYROLYSIS OF RESIDUAL BIOMASS FOR CATALYTIC CLEANING OF SYNGAS**
- PB16.** Alexandra Virginia MEREȘESCU (BOUNEGRU), Constantin APETREI  
**ELECTROCHEMICAL SENSOR BASED ON CARBON NANOFIBERS FOR DETECTION OF P-COUMARIC ACID IN PHYTOPRODUCTS**
- PB17.** Cristiana RADULESCU, Rodica Mariana ION, Ioana Daniela DULAMA, Anca Irina GHEBOIANU, Claudia STIHI, Geanina Sorina STANESCU, Raluca Maria STIRBESCU, Cristina Mihaela NICOLESCU, Ioan Alin BUCURICA, Ion Valentin GURGU, Radu Lucian OLTEANU, Dorin Dacian LET, Liviu OLTEANU, Nicolae STIRBESCU  
**NON-INVASIVE TECHNIQUES FOR CHARACTERIZATION OF ORIGINAL ROMAN MOSAIC FRAGMENTS**
- PB18.** Ionela CARAZEANU POPOVICI, Semaghiul BIRGHILA, Georgeta VOICU, Alina BĂDĂNOIU, Iuliana DOBRILA  
**SIMULTANEOUS REMOVALS OF ANIONIC SPECIES BY THE ACTIVATED RED MUD WASTE**
- PB19.** Ioana Georgiana BUGEAN, Adinuta PAUN, Elena DIACU, Eleonora Mihaela UNGUREANU, Liviu BIRZAN  
**MODIFIED ELECTRODES BASED ON 4-(AZULEN-1-YL)-2,6-BIS((E)-2-(THIOPHEN-2-YL)VINYL) PYRYLIUM PERCHLORATE FOR HEAVY METALS DETECTION**
- PB20.** Stefano SANGIORGI, Luca BOLELLI, Stefano GIROTTI, Ivan FAGIOLINO, Severino GHINI, Elida Nora FERRI  
**EVALUATION ON THE CHEMICAL COMPOSITION OF SMOKE FROM HEATED, NOT BURNT, TOBACCO IN ELECTRONIC CIGARETTES**

**Section C: Physical Chemistry**

- PC1.** Viorel IONESCU  
**NUMERICAL MODELING OF MIXED-MODE DELAMINATION FRACTURE IN UNIDIRECTIONAL AS4/PEEK COMPOSITES**
- PC2.** Amalia STEFANIU, Mihaela BRINZEI, Olga IULIAN, and Sibel OSMAN  
**REFRACTIVE INDEX OF L-ALANINE AT DIFFERENT TEMPERATURES: EXPERIMENTAL AND PREDICTIVE CALCULATIONS**
- PC3.** Ramona-Daniela PAVALOIU, Fawzia SHA'AT, Cristina HLEVCA, Mousa SHA'AT, Gabriela SAVOIU, and Sibel OSMAN  
**EVALUATION ON DRUG RELEASE KINETICS FROM POLYMERIC NANOPARTICLES LOADED WITH POORLY-WATER SOLUBLE APIS**
- PC4.** Adina Maria PAUN, Ovidiu Teodor MATICA, Alina Georgiana BROTEA, Elena DIACU, Elena Mihaela UNGUREANU  
**SPECTROSCOPIC AND VOLTAMETRIC TECHNIQUES FOR ASSESSING THE COMPLEXING CAPACITY OF E-5-((5-ISOPROPYL-3,8-DIMETHYLAZULEN-1-YL) DYAZENYL)-1H-TETRAZOLE OF HEAVY METAL CATIONS**

**Section E: Food Chemistry and Engineering**

- PE1.** Sergiu PĂDUREȚ  
**CHEMICAL COMPOSITION AND TEXTURE EVALUATION OF FOOD EMULSIONS**

- PE2.** Raluca – Olimpia ZIMBRU, and Sonia AMARIEI  
**DESIGN AND CHARACTERIZATION OF AERATED CONFECTIONERY PRODUCTS**
- PE3.** Sorina ROPCIUC, Mircea OROIAN, Ana LEAHU, and Cristina DAMIAN  
**EVALUATION OF THE RHEOLOGICAL PROPERTIES OF THE DOUGH AND THE CHARACTERISTICS OF THE BREAD WITH THE ADDITION OF PURPLE POTATO**
- PE4.** Ana LEAHU, Cristina GHINEA and Mircea-Adrian OROIAN  
**OSMOTIC DEHYDRATION OF APPLE AND PEAR SLICES: COLOR AND CHEMICAL CHARACTERISTICS**
- PE5.** Cristina GHINEA, and Ana LEAHU  
**LIFE CYCLE ASSESSMENT OF FERMENTED MILK: YOGURT PRODUCTION**
- PE6.** Ionuț AVRĂMIA  
**PRODUCTION OF BETA GLUCAN FROM SPENT BREWER'S YEAST**
- PE7.** Simona DOBRINAS, Alina SOCEANU, Nicoleta MATEI, Viorica POPESCU, and Andreea GRIGORAS  
**THE CORRELATION BETWEEN QUALITY PARAMETERS AND MINERAL CONTENT OF FRUIT JUICES**
- PE8.** Nicoleta MATEI, Alina SOCEANU, Simona DOBRINAS, and Viorica POPESCU  
**QUALITY CONTROL OF WHITE AND ROSÉ WINES**
- PE9.** Ana Corina IONIȚĂ, Teodor Octavian NICOLESCU, Elena MOROȘAN, Gabriela STANCIU, Florica NICOLESCU, Magdalena MITITELU  
**DOSAGE OF SULFUR DIOXIDE IN SOME FRUIT JAM AND JELLY**

- PE10.** Ana Corina IONIȚĂ, Teodor Octavian NICOLESCU, Elena MOROȘAN, Gabriela STANCIU, Florica NICOLESCU, Magdalena MITITELU  
**NITRATES AND NITRITES OCCURRENCE IN FRUITS**
- PE11.** Andreea ANGHEL, Daniela JITARIU, Dorina NADOLU, Zoia Zamfir, Elena ILISIU  
**CONSIDERATIONS ON GOAT MILK BIOCHEMICAL COMPOSITION**
- PE12.** Vasile-Florin URSACHI  
**THE FIRST STEP OF BIOETHANOL PRODUCTION - EXTRACTION YIELD OF CELLULOSE FROM SOFTWOOD SAWDUST**
- PE13.** Sonia AMARIEI, Ionuț AVRĂMIA, Florin URSACHI, Ancuța CHETRARIU  
**DEVELOPMENT OF BIODEGRADABLE AND EDIBLE MATERIALS FOR PACKAGING MEAT PREPARATIONS**

*The posters will be displayed on May 27, between 12:00 – 15:00, before the poster's session.*

**May 28, 2021**

**PLENARY LECTURES**

9<sup>30</sup> – 10<sup>50</sup>, Complex Bulevard Hotel, Conference Room 1

**Chairperson:**

**Gabriel Lucian RADU**, Politehnica University of Bucharest, RO

**Iulia Gabriela DAVID**, University of Bucharest, RO

**PL3. Tănase DOBRE**

**COUPLED PROCESSES IN BIOFUELS TECHNOLOGY**

**PL4. Alina BADANOIU**, Georgeta VOICU, Taha AL SAADI, Oana CIRSTEA, Adrian NICOARA, Nicoleta CIRSTEA, Cristian BOSCORNEA

**INTUMESCENT MATERIALS BASED ON WASTE GLASS**

10<sup>50</sup> – 11<sup>10</sup> *Coffee break*

**ORAL SESSION**

11<sup>10</sup> – 12<sup>10</sup>, Complex Bulevard Hotel, Conference Room 1

**Chairpersons:**

**Tanase DOBRE**, Politehnica University of Bucharest, RO

**Mihaela Carmen CHEREGI**, University of Bucharest, RO

**Section D: Petroleum Technology and Management**

**OD1. Ana-Maria SIVRIU**, and **Claudia-Irina KONCSAG**

**EXPERIMENTAL STUDY FOR OBTAINING QUENCH OIL FROM A RENEWABLE RESOURCE**



- OD2.** Olga TAGA (SĂPUNARU), Ancaelena Eliza STERPU, Silviu PASCU, Mihaela BRÎNZEI , and Claudia Irina KONCSAG  
**NEW TECHNOLOGY FOR ETHERS  
MANUFACTURING BY REACTIVE DISTILLATION  
PROCESS**
- OD3.** Said MAAROUF, Bouchra TAZI, Farhate GUENOUN  
**PREPARATION OF SULFONATED PVA-PVP-HPA  
MEMBRANES FOR FUEL CELL APPLICATIONS**

### **Section E: Food Chemistry**

- OE1.** Dora Domnica BACIU, Andreea Matei, Aurora Sălăgeanu, Anca Cojocaru, and Teodor Vișan  
**STUDIES OF ELECTROCHEMICAL BEHAVIOR AND  
SOME BIOLOGICAL EFFECTS PRODUCED AT  
CELLULAR LEVEL OF MONOSODIUM GLUTAMATE  
FOOD ADDITIVE**

### **WORKSHOP**

**12<sup>10</sup> – 13<sup>10</sup>**, *Complex Bulevard Hotel, Conference Room 1*

**Chairpersons:**

**Viorica POPESCU**, “Ovidius” University of Constanta, Romania

**Rodica VLADOIU**, “Ovidius” University of Constanta, Romania

**REQUIREMENTS AND OPPORTUNITIES FOR  
INCREASING THE EMPLOYMENT OF STUDENTS IN  
THE SOUTHEAST REGION**

**Mihaela Denis GALATANU**- CNE Cernavoda

**13<sup>10</sup> – 15<sup>00</sup>** *Lunch*

**POSTER SESSION (II)**

15<sup>00</sup> - 17<sup>00</sup>, Complex Bulevard Hotel, Conference Room 2

**Chairpersons:**

**Ionela POPOVICI**, “Ovidius” University of Constanta, Romania

**Georgeta VOICU**, Politehnica University of Bucharest, Romania

**Section A: Natural and Synthetic Compounds**

- PA1.** Iuliana Florina COSTEA (NOUR), Mihaela CUDALBEANU, Rodica Gabriela MELINTE, and Geta CĂRĂC  
**NEW CHITOSAN DERIVATIVES WITH N-HETEROCYCLIC SALTS AND INFLUENCE’S FACTORS IN THEIR STRUCTURE**
- PA2.** Ecaterina-Daniela BĂJENARU, Rodica OLAR, Gina VASILE SCĂEȚEANU, and Mihaela BADEA  
**EVALUATING THE BIOLOGICAL POTENTIAL OF SOME NEW COBALT (II) COMPLEXES WITH 3,5-DIMETHYLPYRAZOLE AS LIGAND**
- PA3.** Ioana SOARE, Rodica OLAR, Gina VASILE SCĂEȚEANU, and Mihaela BADEA  
**SYNTHESIS, PHYSICO – CHEMICAL CHARACTERIZATION, CRYSTAL STRUCTURE AND BIOLOGICAL ACTIVITY OF NEW COPPER (II) COMPLEXES WITH NICOTINAMIDE**
- PA4.** Iarina-Ana-Bianca STOICA, Rodica OLAR, Gina VASILE SCĂEȚEANU, and Mihaela BADEA  
**SYNTHESIS, SPECTRAL AND BIOLOGICAL CHARACTERIZATION OF NEW COPPER (II) COMPLEXES WITH PYRAZOLE TYPE LIGANDS**
- PA5.** Ana-Maria HOLTEA, Rodica OLAR, Gina VASILE SCĂEȚEANU, and Mihaela BADEA  
**COBALT (II) COMPLEXES AS ANTIBACTERIAL AGENTS**

- PA6.** Ana Maria CHIREA, Mihaela BADEA, and Rodica OLAR  
**PHYSICO-CHEMICAL AND BIOLOGICAL CHARACTERISATION OF SOME COBALT(II) COMPLEXES WITH MIXED LIGANDS**
- PA7.** Adriana CIURARU, Mihaela BADEA, and Rodica OLAR  
**INSIGHT ON PHYSICO - CHEMICAL AND BIOLOGICAL PROPERTIES OF SOME COPPER(II) COMPLEXES WITH MIXED LIGANDS**
- PA8.** Andreea Gabriela DUMITRESCU, Mihaela BADEA, and Rodica OLAR  
**VANADIUM (V) COMPLEXES WITH BIGUANIDE DERIVATIVES DEVELOPED AS BIOLOGICALLY ACTIVE SPECIES**
- PA9.** George GIOCAS, Mihaela BADEA, and Rodica OLAR  
**RUTHENIUM (III) COMPLEXES WITH A PURINE ANALOG DEVELOPED AS ANTITUMOR SPECIES**
- PA10.** Laura Ioana DOBRE, Mihaela BADEA, Anca DUMBRAVĂ and Rodica OLAR  
**PHYSICO-CHEMICAL AND BIOLOGICAL CHARACTERISATION OF SOME COPPER(II) COMPLEXES WITH MIXED LIGANDS**
- PA11.** Adriana Camelia CEBUC, Mihaela BADEA, Rodica OLAR, Gina VASILE SCĂEȚEANU, and Anca DUMBRAVA  
**NEW BIOLOGICAL ACTIVE COPPER(II) COMPLEXES WITH MIXED LIGANDS**
- PA12.** Mariana Nela ȘTEFĂNUȚ, Adina CĂȚA, Cristian VASZILCSIN, Ioana Maria IENAȘCU  
**GLUCOSINOLATES FROM SOME ROMANIAN SPECIES OF BRASSICACEAE FAMILY**
- PA13.** Ioana M. C. IENAȘCU, Adina CĂȚA, Cristina MOȘOARCĂ, Iuliana M. POPESCU and Mariana N. ȘTEFĂNUȚ  
**SYNTHESIS AND CHARACTERIZATION OF SOME N-(2-CHLORO-PHENYL)-2-HYDROXY-BENZAMIDE DERIVATIVES**

- PA14.** Adina CĂȚA, Ioana M. C. IENAȘCU, and Mariana N. ȘTEFĂNUȚ  
**ANTHOCYANIN EXTRACTS FROM DIFFERENT PLANT MATRICES AS POTENTIAL NATURAL FOOD DYES**
- PA15.** Mihaela Mirela BRATU, Semaghiul BIRGHILĂ, Antoanela POPESCU, Lenuța ZGLIMBEA, and Larissa Mihaela STANCU  
**CHEMICAL COMPOUNDS AND ANTIOXIDANT ACTIVITIES IN TWO FLAVONIC EXTRACTS FROM *HELICHRYSUM ARENARIUM* FLOWERS AND *ROBINIA PSEUDOACACCIA* FLOWERS**
- PA16.** Doinița-Roxana CIOROIU TIRPAN, Claudia Irina KONCSAG, and Tănase DOBRE  
**CELLULOSE FIBER EXTRACTION FROM *ULVA LACTUCA* ALGAE BY CHEMICAL TREATMENT**
- PA17.** Amalia STEFANIU, Lucia PIRVU, and Sibel OSMAN  
**DRUGLIKENESS PARAMETERS FOR LUTEOLIN DERIVATIVES: A COMPUTATIONAL APPROACH**
- PA18.** Lucia PINTILIE, Amalia STEFANIU, Constantin TANASE, Maria MAGANU, Miron Teodor CAPROIU, and Gabriela STANCIU  
**DESIGN, SYNTHESIS AND MOLECULAR DOCKING STUDIES OF SOME SULFONAMIDE DERIVATIVES**
- PA19.** Gabriela STANCIU, Florin AONOFRIESEI, Simona LUPSOR  
**BIOLOGICAL ACTIVITY OF SAGE ESSENTIAL OIL**
- PA20.** Gabriela STANCIU, Florin AONOFRIESEI, Simona LUPSOR, Elena OANCEA, Magdalena MITITELU  
**QUANTITATIVE ANALYSIS OF POLYPHENOLS AND BIOLOGICAL ACTIVITY OF BLACK POPLAR BUDS ALCOHOLIC MACERATES**

- PA21.** Teodor Octavian NICOLESCU, Magdalena MITITELU, Corina IONIȚĂ, Lucian ISCRULESCU, Dragoș Paul MIHAI, Gabriela STANCIU, and Florica NICOLESCU  
**SYNTHESIS, SPECTRAL CHARACTERIZATION AND MOLECULAR DOCKING STUDY OF NEW 2,6-PYRIMIDINEDIONE DERIVATIVES WITH POTENTIAL BIOLOGICAL ACTION**
- PA22.** Teodor Octavian NICOLESCU, Magdalena MITITELU, Corina IONIȚĂ, Lucian ISCRULESCU, Dragoș Paul MIHAI, Gabriela STANCIU, Florica NICOLESCU  
**SYNTHESIS, SPECTRAL CHARACTERIZATION AND MOLECULAR DOCKING STUDY OF SOME NEW N3-ARYLBARBITURIC ACID DERIVATIVES WITH POTENTIAL LOCAL ANESTHETIC ACTION**
- PA23.** Anca DUMBRAVA, Daniela BERGER, and Florin MOSCALU  
**FUNCTIONALIZED ZINC OXIDE NANOPARTICLES OBTAINED IN GREEN SEAWEEDS EXTRACT**

### **Section D: Petroleum Technology and Management**

- PD1.** Rami, DOUKEH, Catalina CALIN, Mihaela BOMBOȘ, Gabriel VASILIEVICI, Dorin BOMBOS and Elena-Emilia OPRESCU  
**HYDROCONVERSION OF PYROLYTIC BIO-OIL OVER Cu/Mo CATALYST**
- PD2.** Irina NITA, Maria OPREA and Sibel OSMAN  
**BIOPENTANOL, A POSSIBLE FUEL FOR TRANSPORTATION DOMAINE**

*The posters will be displayed on May 28, between 12:00 – 14:30, before the poster's session.*

**17<sup>00</sup> – 17<sup>30</sup>      Closing ceremony**

**19<sup>00</sup> –              Gala Dinner**

**Saturday May 29, 2021**

**10<sup>00</sup> Social Program**