



SICHEM 2018

PROGRAMME after BOOK OF ABSTRACTS

6 – 7 September, 2018

**Romanian Chemical Engineering Society
Romanian Chemistry Society
Academy of Technical Sciences – Chemical Engineering Section
and
University Politehnica of Bucharest,
Faculty of Applied Chemistry and Materials Science**

This event is dedicated to anniversaries:

- *100 years from the Great Union of the all Romanians*
- *200 years from the beginnings of engineering education at University Politehnica of Bucharest*
- *80 years of chemical engineering in Faculty of Applied Chemistry and Materials Science from University Politehnica of Bucharest.*

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SICHEM – 2018

PROGRAMME OVERVIEW

Time	Details of the Program		
Thursday, September 6			
8:00 – 9:00	Registration of Participants, Lobby, 4 th Floor UPB Library		
09:00 – 10:30	General Session, Room 4.1		
10:30 – 10:45	Coffee Break		
10:45 – 13:00	General Session, Room 4.1 <i>Plenary Lectures</i>		
13:00 – 14:00	Lunch Break		
14:00 – 16:30	Parallel Sessions <i>Keynote Lectures and Oral Presentations</i>		
	Room 4.1	Room 4.2	Room 4.3
	Session A	Session A	Session B
16:30 – 16:45	Coffee Break		
16:45 – 18:00	Poster Session I		
Friday, September 7			
08:00 – 09:00	Registration of Participants, Lobby, 4 th Floor UPB Library		
09:00 – 11:15	General Session, Room 4.1 <i>Plenary Lectures</i>		
11:15 – 11:30	Coffee Break		
11:30 – 13:00	Parallel Sessions <i>Keynote Lectures and Oral Presentations</i>		
	Room 4.1	Room 4.2	Room 4.3
	Session C	Session D	Session B
13:00 – 14:00	Lunch Break		
14:00 – 15:30	Parallel Sessions <i>Keynote Lectures and Oral Presentations</i>		
	Room 4.1	Room 4.2	
	Session C	Session D	
15:30 – 15:45	Coffee Break		
15:45 – 17:00	Poster Session II		

CONFERENCE PROGRAMME
ORAL COMMUNICATIONS

6 September, 2018

8:00 – 9:00 **Registration of Participants**

General Session, ROOM 4.1

Chair / Co-chair: Prof. Tanase Dobre, Prof Anton Ficai

9:00 – 9:45 **Welcome Messages**

Prof. Ecaterina ANDRONESCU– UPB

Rector Mihnea COSTOIU - UPB

Prof. Sorin ROȘCA – SChR

Prof. Mihai MIHĂIȚĂ – ASTR

Prof. Tănase DOBRE – SICR

Prof. Cristina ORBECI – UPB/CASM

9:45 – 10:30 **Honorary Diploma Awards: Prof. Gheorghita Jinescu, Prof. Sorin Roșca, Prof. Angela Lupu, CS.PhD. Viorica Tamaș, PhD. Eng. Virgiliu Băncilă, PhD. Eng. Sanda Velea, Prof. Liviu Literat, Prof. Emil Danciu, Prof. Octavian Floarea**

10:30 – 10:45 **Coffee Break**

10:45 – 11:30 **Plenary Lecture**

Virgiliu BĂNCILĂ - Romanian Chemistry Company: Beginning and Expected Future

11:30 – 12:15 **Plenary Lecture**

Shen-Ming CHEN - Syntheses of Advanced Nanomaterials for Electrochemical Biosensors and Energy Storage Applications

12:15 – 13:00 **Plenary Lecture**

Gheorghe MARIA - In-silico design of Genetic Modified Micro-organisms (GMO) of industrial use, by using Systems Biology and (Bio)Chemical Engineering tools

13:00 – 14:00 **Lunch Break**

Session A Chemical and Biochemical Engineering, ROOM 4.1

Chair / Co-chair: Prof. Sorin Bildea, Prof. Raluca Isopescu

14:00 – 14:30 **Keynote Lecture**

Cyril AYMONIER, Marie CLAVERIE, Marta DIEZ-GARCIA, Gilles PHILIPPOT - Supercritical fluid technology: a sustainable and scalable approach for advanced material design and recycling

14:30 – 15:00 **Keynote Lecture**

Mihai Daniel MORARU, Costin Sorin BILDEA – Control of heterogeneous reactive distillation

15:00 – 15:15 **Oral Presentation**

Mohamed Amine DIDI, Rahmouna SEMMOUD - Extraction optimization of cupric ions by cloud point

15:15 – 15:30 **Oral Presentation**

G. MUNTIANU, A.I. SIMION, C.G. GRIGORAȘ, I.D. NISTOR, G. JINESCU - Mathematical modelling and optimization of pillared clay preparation processes

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15:30 – 15:45 **Oral Presentation**

George RIZEA, Cristiana Luminița GÎJIU, Raluca ISOPESCU - *Natural gas dehydration using glycol water absorption and membrane techniques*

15:45 – 16:00 **Oral Presentation**

Cosmin COJOCARU, Claudia Irina KONCSAG - *Parameters Estimation in New Kinetic Model for Mild-Hydrocracking Reactions*

16:00 – 16:15 **Oral Presentation**

Alexandru Lucian BOSCORNEA, Tiberiu D. DANCIU - *Modelling the Allam cycle. A high efficiency supercritical power process*

16:15 – 16:30 **Oral Presentation**

Simona RADU, Maria Magdalena BUDEANU, Vasile DUMITRESCU, Alexandru Dan CAMENIȚĂ - *The study of catalytic cracking performance improvement by the addition of the second stage of regeneration*

16:30 – 16:45 Coffee Break

16:45 – 18:00 Poster Session I

Session A Chemical and Biochemical Engineering, ROOM 4.2

Chair / Co-chair: Prof. Anicuta Stoica, Prof. Tiberiu Danciu

14:00 – 14:30 **Keynote Lecture**

S.V. SAVILOV, N.I. OSIPOV, A.S. IVANOV, V.V. LUNIN - *Carbon nanostructures from hydrocarbon pyrolysis: Synthesis and surface evolution*

14:30 – 15:00 **Keynote Lecture**

Vasile-Mircea CRISTEA, George OSTACE, Melinda VÁRHELYI, Marius BREHAR - *Control Strategies of the Waste Water Treatment Plant*

15:00 – 15:15 **Oral Presentation**

Anamaria SIVRIU, Claudia KONCSAG, Doinița-Roxana CIOROIU TÎRPAN, Alina-Monica MAREȘ, Gheorghîța JINESCU - *Adding value to waste vegetable oils through thermal processing*

15:15 – 15:30 **Oral Presentation**

Daniela Simina STEFAN, Nicolae SDRULA, Cornel CRAIU, Cristina ORBECI - *Biogas - a significant vector assuring energy for Romanian villages from renewable sources*

15:30 – 15:45 **Oral Presentation**

Doinița-Roxana CIOROIU, Claudia Irina KONCSAG, Oana Cristina PÂRVULESCU, Tănase DOBRE - *A comparative study on biochemical ethanol production of *Ulva lactuca* macroalgae*

15:45 – 16:00 **Oral Presentation**

Laura Ruxandra ZICMAN, Tănase DOBRE, Oana Cristina PARVULESCU, Elena NEACȘU - *Influence of feed quality on ultrafiltration membrane productivity and efficiency*

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16:00 – 16:15 **Oral Presentation**

B.C. KHOO, H.P. LEE, S.F. GUO - *On ultrasound for biofouling: prevention of barnacle cyprid settlement*

16:30 – 16:45 Coffee Break

16:45– 18:00 Poster Session I

Session B Applied organic, inorganic and supramolecular chemistry, ROOM 4.3

Chair, Co-chair: Prof. Michaela Stanescu, Prof. Ioan Calinescu

14:00 – 14:30 **Keynote Lecture**

Seong Soo CHOI - *Towards the plasmonic optical nanopore for single molecule analysis*

14:30 – 15:00 **Keynote Lecture**

Seishi ABE - *Oxidation resistance of Fe₃O₄ thin films doped with metal elements*

15:00 – 15:15 **Oral Presentation**

Masaki OTAGIRI, Kazuaki TAGUCHI, Keishi YAMASAKI, Yu ISHIMA, Toru MARUYAMA - *Pharmaceutical application of recombinant Human Serum Albumin dimer*

15:15 – 15:30 **Oral Presentation**

Melinda VAJDA, Oana GRAD, Oana MUNTEANU, Petru NEGREA, Marinela MICLAU, Mihaela CIOPEC, Daniel URSU, Adina NEGREA, Bogdan PASCU, Narcis DUȚEANU - *Cu₂O layers obtained by electrodeposition*

15:30 – 15:45 **Oral Presentation**

Irina Elena CHICAN, Dana VĂRĂȘTEANU, Sanda Maria DONCEA, Raluca ȘOMOGHI, Ana-Maria GĂLAN - *The influence of hydrocarbon chain length on the surface properties of gluconolactone-based surfactants*

15:45 – 16:00 **Oral Presentation**

Anca Andreea ȚURCANU, Ștefan-Ovidiu DIMA, Gabriel VASILIEVICI, Dragoș Mihael CIUPARU - *The influence of cerium on the textural properties and acidity of catalysts used in the furfural hydrogenation process*

16:00 – 16:15 **Oral Presentation**

Marius ZLAGNEAN, Antoaneta FILCENCO-OLTEANU, Eugenia PANTURU, Aura Daniela RADU, Nicolae TOMUS - *The effect of oxidative processes on the migration of elements in historical tailings pond*

16:15 – 16:30 **Oral Presentation**

Adina ARVINTE - *Bimetallic Nanostructured Electrochemical Sensors for Biomedical Applications*

16:30 – 16:45 Coffee Break

16:45 – 18:00 Poster Session I

7 September, 2018

8:00 – 9:00 **Registration of Participants**

General Session, ROOM 4.1

Chair / Co-chair: Prof. Petru Ilea, Prof. Vaireanu Danut

9:00 – 9:45 **Plenary Lecture**

Gholamreza DJELVEH - *Production of porous material based on chitosan for bone generation under steady state flow condition*

9:45 – 10:30 **Plenary Lecture**

Claudia Irina KONCSAG - *Design of a master degree in chemical engineering integrated with bachelor degree*

10:30 – 11:15 **Plenary Lecture**

Dănuț-Ionel VĂIREANU - *Professor Ionel A. Atanasiu – my Professor's Professor*

11:15 – 11:30 **Coffee Break**

**Session C Biomaterials and composites in chemical and biochemical applications
ROOM 4.1**

Chair / Co-chair: Prof. Anton Ficai, Asoc.Prof Iuliana Jipa

11:30-12:00 **Keynote Lecture**

Sergiu COSERI, Gabriela BILIUTA - *Towards future materials based on natural resources*

12:00 – 12:30 **Keynote Lecture**

S. KADEM, R. IRINISLIMANE, N. BELHANECHÉ-BENSEMRA - *Elaboration and characterization of biocomposites from epoxidized sunflower oil and alfa fibers*

12:30 – 12:45 **Oral presentation**

Adrian FIFERE, Ana- Lacramioara LUNGOCI, Ioana-Andreea TURIN-MOLEAVIN, Anca Roxana PETROVICI - *Antioxidant loaded dextran coated magnetic nanoparticles for biomedical applications*

12:45 – 13:00 **Oral presentation**

Madalina E. CULICA, Raluca I. BARON, Gabriela BILIUTA, Sergiu COSERI - *Polymer-supported N-Hydroxyphthalimide as catalyst for naturally occurring biopolymers*

13:00 – 14:00 **Lunch Break**

**Session D Green applied chemistry and agro-resources valorization
ROOM 4.2**

Chair / Co-chair: Prof. Claudia Koncsag, Asoc. Prof. Oana Parvulescu

11:30 – 12:00 **Keynote Lecture**

Guangjie ZHAO - *Microstructure and properties of activated carbon fibers deriving from liquefied wood*

12:00 – 12:15 **Oral Presentation**

Seyed Jamaledin SHAHTAHERI, Bahram HARATI, Ali KARIMI, Kamal AZAM - *Evaluation of BTEX in an automobile manufacturing followed by risk assessment associated the exposed workers, Iran*

12:15 – 12:30 **Oral Presentation**

Andrei RADOVICI, Zoltán TÖRÖK, Alexandru OZUNU - *Comparative exposure analysis of hazards related to ammonia road transportation. A case study for Valea Oltului area, Romania*

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12:30 – 12:45 **Oral Presentation**

H. BENAÏSSA, M-A. ELOUCHDI - *Preliminary study to assess the potential of sunflower leaves as a low-cost sorbent material for zinc ion removal from synthetic aqueous solutions in batch mode*

12:45 – 13:00 **Oral Presentation**

Bogdan TRICĂ, Alina-Violeta URSU, Cédric DELATTRE, Fabrice GROS, Gholamreza DJELVEH, Philippe MICHAUD, Tănase DOBRE - *Heavy metals adsorption properties of alginate beads from a brown seaweed in the Black Sea (Cystoseira barbata)*

13:00 – 14:00 **Lunch Break**

Session B Applied organic, inorganic, and supramolecular chemistry, ROOM 4.3

Chair, Co-chair: Prof. Valentin Plesu, Prof. Anca Cojocaru

11:30 – 11:45 **Oral Presentation**

Anca Roxana PETROVICI, Mihaela SILION, Irina ROȘCA and Diana CIOLACU - *The four different culture media influences on the polymer biosynthesis*

11:45 – 12:00 **Oral Presentation**

Gheorghe BUMBAC, Ionuț BANU, Grigore BOZGA, Ana-Maria GĂLAN, Sanda VELEA - *Modeling and simulation of a glycerol acetylation process*

12:00 – 12:15 **Oral Presentation**

K. SARITHA, K.T. RAMAKRISHNA REDDY, M. TIVANOV, V.F. GREMENOK – *Structural behaviour of SnSSe layers deposited by thermal co-evaporation*

12:15 – 12:30 **Oral Presentation**

Gabriela BILIUTA, Sergiu COSERI - *A new catalytic system for greener oxidation of cellulose*

12:30 – 12:45 **Oral Presentation**

Raluca I. BARON, Gabriela BILIUTA, Madalina E. CULICA, Sergiu COSERI - *New hydrogels prepared by using poly (vinyl alcohol) and tempo-oxidized cellulose*

12:45 – 13:00 - **Oral Presentation**

Mihaela POPESCU, Petrica IANCU, Valentin PLESU, Cristina TODASCA – *Extraction of valuable products from tomatoes*

13:00 – 14:00 **Lunch Break**

Session C Biomaterials and composites in chemical and biochemical applications

ROOM 4.1

Chair / Co-chair: Prof. Stefania Stoleriu, Asoc. Prof. Adina Gavrila

14:00 – 14:30 **Keynote Lecture**

Soumya MUKHERJEE - *A glimpse on the effect of CNT on titania in terms of catalytic action and environmental aspects*

14:30 – 15:00 **Keynote Lecture**

Yousef JAHANI, Asra ALI, Sihama Issa SALIH, Fadhil ABBAS - *PEEK-PVDF blends and their nanocomposites with nano hydroxyapatite and multiwall carbon nanotube biocompatibility, rheology and morphology*

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15:00 – 15:15 **Oral Presentation**

Z. SAMKHARADZE, J. METREVELI, E. TSKHAKAIA, T. MARSAGISHVILI, G. TATISHVILI - *Production of carbon nanocomposite materials from secondary raw materials*

15:15 – 15:30 **Oral Presentation**

Cristian RĂDUCANU, Alexandra MOCANU, Aurel DIACON, Cristina BUSUIOC, Oana PÂRVULESCU - *Composite materials based on active carbon from biomass residues and zinc oxide nanoparticles for photocatalytic degradation*

15:30 – 15:45 **Coffee Break**

15:45 – 17:00 **Poster Session II**

Session D Green applied chemistry and agro-resources valorization

ROOM 4.2

Chair / Co-chair: Prof. Alexandru Woinaroschi, CS I. Viorica Tamas

14:00 – 14:15 **Oral Presentation**

Anamaria VARTOLOMEI, Ioan CĂLINESCU, Adina-Ionuța GAVRILĂ, Mircea VÎNĂTORU - *Optimisation of the ultrasonic assisted lipase catalysed reaction of acetic acid with isoamyl alcohol*

14:15 – 14:30 **Oral Presentation**

Cristiana COSMA, Ion Viorel PĂTROESCU, Ioana Alexandra IONESCU, Ionut CRISTEA, Mirela Alina CONSTANTIN - *Break-point chlorination drawbacks for a complex impurified groundwater sources (NH₄, Fe, Mn) potabilization treatment*

14:30 – 14:45 **Oral Presentation**

Elena DUMITRESCU, Andreia VLADIMIRESCU, Ramona VIȘOIU, Ana CRĂCICĂ - *Estimation of hydrocarbons biodegradation rate from soils contaminated with oil*

14:45 – 15:00 **Oral Presentation**

Ștefan-Ovidiu DIMA, Tănase DOBRE, Elena-Iulia OPRIȚA, Sanda-Maria DONCEA, Anca-Andreea ȚURCANU, Florin OANCEA - *Hydrogels based on bacterial nanocellulose for controlled drug delivery*

15:00 – 15:15 **Oral Presentation**

Ana Despina IONESCU, Angela CASARICA, Irina LUPESCU, Roxana Madalina STOICA - *Emphasizing the cellulose containing wastes pre-treatment, in order to make them more available to further biosynthesis*

15:15 – 15:30 **Oral Presentation**

V. CARABELA, V. TAMAS, G.C. IVOPOL, A.M. NEAGU - *A new phytotherapeutic product with health-promoting effects in rheumatic ailments*

15:30 – 15:45 **Coffee Break**

15:45 – 17:00 **Poster Session II**

CONFERENCE PROGRAMME

POSTERS PRESENTATIONS

6 September, 2018

Session A Chemical and biochemical engineering (CBE)	
A1.	Maria Aida JURJ, Ana-Maria MĂRGĂRIT, Bogdan Ilie PALADI, Dumitru PROCOPOVICI, Oana Cristina PÂRVULESCU, Cristian Eugen RĂDUCANU, Tănase DOBRE - <i>Drying of medicinal plants – Experimental and modelling</i>
A2.	Alina-Georgiana CIUFU, Cristian RADUCANU, Oana Cristina PÂRVULESCU, Tănase Dobre, Ionuț SURUPĂCEANU - <i>Natural wool for removal of crude oil and refined oil/products from water surface. The crude oil retention and the phenomenon of capillary migration</i>
A3.	Paula POSTELNICESCU, Anca Mădălina DUMITRESCU - <i>Identification of the rheological behaviour of magnetic fluids</i>
A4.	Claudia PATRICHI, Ali A. Abbas AL JANABI, Claudia Irina KONCSAG, Tanase DOBRE - <i>Integrated System of Fed Batch ABE Biosynthesis and Solvent Recovery by Pervaporation</i>
A5.	Doinița-Roxana CIOROIU, Claudia Irina KONCSAG, Oana Cristina PÂRVULESCU, Tănase DOBRE - <i>Black Sea algae biomass as an alternative resource in biofuels production</i>
A6.	Ștefania-Cristina IONESCU, Sorin Ilie DAMIAN, Tănase DOBRE - <i>Two-dimension model for nickel tetracarbonyl synthesis</i>
A7.	Cristian Eugen RĂDUCANU, Ali A. Abbas Al JANABI, Oana Cristina PÂRVULESCU, Iuliana DUMITRU, Florentina DRĂGUȘIN, Tănase DOBRE, Nicolae BECHERESCU - <i>Air drying of aromatic plants coupled with recovery of volatile compounds</i>
A8.	Mihaiella CRETU, Radu MIREA - <i>Extended the service life of a rotary screw compressor by choosing the right oil</i>
A9.	Mihăiță-Iulian NIȚĂ, Tănase DOBRE - <i>The analysis of the ABE synthesis process in the semi-continuous process with gas stripping</i>
A10.	Olga ȚAGA (SĂPUNARU), Claudia KONCSAG, Alina-Monica MAREȘ, Gheorghita JINESCU - <i>Process design for etherification of FCC gasoline's olefins in situ</i>
A11.	Ali A. Abbas Al JANABI, Cristian Eugen RĂDUCANU, Oana Cristina PÂRVULESCU, Tănase DOBRE, Alin ENACHE - <i>Organic superbases as heterogeneous catalysts for biodiesel production</i>
A12.	Cristina SINGUREANU, Alexandru WOINAROSCHY - <i>Using STOAT 5.0 software for SBR processes simulation</i>
A13.	Elena-Adina ȘUBEĂ, Tănase DOBRE, Oana Cristina PÂRVULESCU - <i>Drying of aromatised vegetable materials with recovery of volatile organic compounds</i>
A14.	Carmen Veronica TURCU, Oana PÂRVULESCU, Tănase DOBRE - <i>The effect of the additives on the rheology of some types of drilling mud systems</i>
A15.	Valentin SPĂNU, Mădălina Alexandra TOMA, Emilia Andreea VIȘOIU, Cristian RĂDUCANU, Iuliana JIPA - <i>Dissolution kinetics of suspended particle in liquid agitated systems</i>
A16.	Iulian CEBANU, Virginia-Sorina CERNAT, Cristian PETRE, Elena-Catalina VOICU, Cristian RĂDUCANU, Iuliana JIPA - <i>The effect of temperature on water diffusion coefficients when drying a porous material</i>

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A17.	Shaalán BDAIWI AHMED, Cristian RĂDUCANU Alexandra BALEA, Irina MĂCĂU, Ștefania SERDARU, Anda VASILE, Iuliana JIPA - <i>Statistical model to characterize process factors influence on partial mass transfer coefficient in Rotating Biological Contactors</i>
A18.	Andrei Maxim ANDREI, Costin Sorin BÎLDEA - <i>Economic optimization and dynamic control of propylene production by metathesis of 2-butene</i>
A19.	Iulian PĂTRAȘCU, Costin Sorin BÎLDEA, Anton A. KISS - <i>Dynamics and control of a heat pump assisted azeotropic dividing-wall column for biobutanol purification</i>
A20.	Elena Cătălina UDREA, Valentin PLEȘU, Costin Sorin BÎLDEA - <i>Design, optimisation and control of TAME process separation section</i>
A21.	Adrian Sergiu ACIU, Tănase DOBRE – <i>Pyrolysis with direct flame in biochar processing</i>
A22.	Ioana CHISELEV, Ioana Mirela PEPTĂNARU, Maria Cristina VOICU, Oana Cristina PÂRVULESCU, Cristian Eugen RĂDUCANU – <i>Fixed bed adsorption of volatile organic compounds onto activated carbon – Experimental and modelling</i>
Session C – Biomaterials and composites in chemical and biochemical applications (BCCBA)	
C1.	Larisa MELIȚĂ - <i>Selective transport and removal of Cd(II) from the Ni-Cd batteries leaching with polymer inclusion membranes (PIMs)</i>
C2.	Radu Claudiu FIERASCU, Irina FIERASCU, Liliana Cristina SOARE, Anca Nicoleta SUTAN, Camelia UNGUREANU - <i>Phytosynthesised metallic nanoparticles: synthesis and applications in crop protection</i>
C3.	Irina FIERASCU, Radu Claudiu FIERASCU, Alina ORTAN, Cristian MOISE, Iulia Florentina DANA NEGULA - <i>Development of new nanomaterials for the restoration/conservation of cultural heritage artifacts</i>
C4.	Ana Maria DUMITRESCU; Adrian NICOARA; Mihai RADU; Ioana ARDELEAN; Denisa FICAI; Ovidiu OPREA; Anton FICAI; Ecaterina ANDRONESCU - <i>Development and evaluation of antimicrobial products with controlled delivery</i>
C5.	Cătălin PĂUN, Ioana ARDELEAN, Adrian Vasile SURDU, Denisa FICAI, Ovidiu OPREA, Anton FICAI, Ecaterina ANDRONESCU - <i>The useful applications of Metal Organic Frameworks (MOFs) in manufacturing detector devices for organic compounds with explosive potential</i>
C6.	Natalia MIHAILESCU, I. UNGUREANU (NEGUT), Anton FICAI, Roxana TRUSCĂ, Dragos GUDOVAN, Laura FLOROIAN, Ion N. MIHAILESCU - <i>A comparative study of pure Mg/Mg-based alloys for metallic implants application</i>
C7.	Mădălina-Ștefania PÎRVAN, Diana-Carmen MIRILĂ, Laurance PIRAULT-ROY, Rachid BRAHMI, Ileana Denisa NISTOR - <i>Retention of anthracene on functionalized anionic clays - layered double hydroxydes in wastewater treatment processes</i>
C8.	Diana-Carmen MIRILĂ, Mădălina-Ștefania PÎRVAN, Nicoleta PLATON, Ileana-Denisa NISTOR, Abdelkrim AZZOUZ - <i>Uses of composite materials of the smectite type in catalytic ozonation</i>

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B – Applied organic, inorganic and supramolecular chemistry (AOISC)	
B1.	Anca COJOCARU, Alina Ioana CIOBOTARU, Madalina Alexandra TOMA, Florin Mariano PATRICHE, Ionut Cristian RADU, Catalin ZAHARIA, Ioana MAIOR - <i>Electrochemical characterization of graphite/polyester composite</i>
B2.	Ana-Alexandra SORESCU, Alexandrina NUTA, Rodica-Mariana ION, Lorena IANCU, Cristina Lavinia NISTOR - <i>Noble metal nanoparticles from Kohlrabi peel: green synthesis and antioxidant activity</i>
B3.	Ioana-Alina CIOBOTARU, Oana-Claudia CIOBOTEA BARBU, Anca COJOCARU, Ioana MAIOR, Florin-Mihai BENGA, Dănuț-Ionel VĂIREANU - <i>Electrochemical Studies on Reinforced BTSE Coatings deposited on anodized aluminium</i>
B4.	Dumitra LUCAN, Gheorghita JINESCU - <i>Corrosion Testing on Structural Materials of CANDU NPP Equipment</i>
B5.	C. BOSCORNEA, I. MAIOR, A. COJOCARU, A.M. BREZOIU, A. IVANCIU, A. LASCU - <i>Epoxy anticorrosive systems based on metal phthalocyanines</i>
B6.	
B7.	Elena Viorica IONIȚĂ, Diana Maria BANU, Ana Maria OBREJA - <i>Environmental pollution and additional doses calculation for critic groups, generated by geological exploration areas of uranium ores</i>
B8.	Elena NEACSU, Bogdan OBREJA, Mihaela MICU, Laura IONASCU, Felicia DRAGOLICI - <i>Studies on the use of indigenous natural materials as selective sorbents for Cs in the treatment of aqueous radioactive waste</i>
B9.	Alexandru WOINAROSCHY, Alice IORDACHE - <i>Drinking water quantity risk management. Risk analysis of the incomplete quantity of potable water distributed to consumers using Analytica Software</i>
B10.	Iulian CEBANU, Raluca ISOPESCU, Ana Maria JOSCEANU, Roxana SPULBER - <i>Classification and property-modeling of natural products based on spectral data analysis</i>
B11.	Ramona-Daniela PĂVĂLOIU, Fawzia SHA'AT, Corina BUBUEANU, Cristina HLEVCA, Daniela BERGER - <i>Engineering lipid coated polymeric nanoparticles loaded with curcumin for cancer therapy</i>
B12.	Rami DOUKEH, Sanda VELEA, Mihaela BOMBOS, Gabriel VASILIEVICI - <i>Hydrogenation of furfural in order to obtain components for gasoline</i>
B13.	K. T. RAMAKRISHNA REDDY, R. W. MILES - <i>ZnIn₂Se₄ films grown by chemical bath deposition for solar cell application</i>
B14.	Florin-Mihai BENGA, Ioana-Alina CIOBOTARU, Irina-Elena CIOBOTARU, Dănuț-Ionel VĂIREANU - <i>A reconditioning procedure of some Li-Pol batteries</i>
B15.	Sorin-Aurel DORNEANU, Alexandru-Horatiu MARINCAȘ, Tiberiu FRENȚIU, Petru ILEA - <i>Electrochemical recovery of metals from WPCBs: Evaluation of direct accessible metals content</i>
B16.	Ana-Domnica MĂRINCEAN, Sorin-Aurel DORNEANU, Petru ILEA - <i>Study of hydrogen peroxide electrosynthesis using a modified Micro Flow Cell filter press reactor equipped with different types of carbonaceous materials as cathode</i>
B17.	S. VARVARA, S.A. DORNEANU, R. BOSTAN, M. POPA, R. TRUȚĂ, P. ILEA - <i>Electrochemical dissolution behaviour of several metals from WPCBs in different bromide-based electrolytes</i>

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D – Green applied chemistry and agro-resources valorisation	
D1.	Andreea COZEA, Elena BUCUR, Mihaela NEAGU, Tănase DOBRE, Mariana POPESCU - <i>Obtaining activated charcoal support starting from vegetal wastes</i>
D2.	Bianca Cristina STANCU, Elena Viorica IONIȚĂ - <i>Assessment of radiological risk for people working in coal mines</i>
D3.	Diana VELCEA (GOLEA), Violeta Alexandra ION, Oana Cristina PÂRVULESCU - <i>Quantification method of ochratoxin A in cereal and cereal products</i>
D4.	H. BENAÏSSA, M. MEZIANI - <i>Attempts of cadmium (II) ions removal from synthetic aqueous solutions using almond (soft shell) peel as an eco-friendly sorbent material in batch mode</i>
D5.	Diana-Maria BANU, Viorica Elena IONIȚĂ, Aura Daniela RADU - <i>The study of rocks and soils in areas affected by uranium mining exploitations</i>
D6.	Bianca Ioana OLTEANU, Anicuta STOICA-GUZUN, Marta STROESCU, Elena ZAHARIA - <i>Extraction of bioactive compounds from blackberries pomace</i>
D7.	Mihaela TOCIU, Ovidiu OPREA, Michaela Dina STANESCU - <i>Preliminary investigations for the valorization of grape seeds after the oil extraction</i>
D8.	Natalita BORDEI, Viorica TAMAS, Daniela BELALA, Gabriel IVOPOL, Mariana POPESCU - <i>A comparative study of the omega 3, 6, 9 fatty acid composition of certain indigenously-sourced plant oils for cosmetic use</i>
D9.	Andreea Cristina DONISE, Roxana Maria CRĂCIUN, Mihaela Emanuela CRĂCIUN, Oana Cristina PÂRVULESCU - <i>Edible flowers – Composition and antioxidant activity</i>
D10.	Gabriela ISOPENCU, Ștefania Cristina IONESCU, Bogdan – Ilie PALADI, Monica MAREȘ, Vasile LAVRIC - <i>Study of simple sugar release using microbial strains from vegetal waste</i>
D11.	Ioana MAIOR, Anca COJOCARU, Dănuț-Ionel VĂIREANU, Ioana-Alina CIOBOTARU, Oana-Cristina PÂRVULESCU - <i>Green Corrosion Inhibitor for Mild Steel in Neutral and Acid Solutions</i>
D12.	Andreea IORDACHE, Petrica IANCU, Valentin PLEȘU – <i>Coal combustion gases heat recovery</i>
D13.	Petrica IANCU, Valentin PLEȘU, Gheorghe BUMBAC, Dumitru COMAN – <i>Fuel gases by carbon dioxide metanization</i>
D14.	Leonard Georgian SAFTA, Petrica IANCU, Valentin PLEȘU, Gheorghe BUMBAC – <i>Methanol to olefines (MTO) from syngas-design sustainable process</i>