RAPORT ACTIVITATE

(2017)

1. Datele de identificare ale unității de cercetare

1.1. Denumirea: **CENTRUL EUROPEAN DE EXCELENȚĂ PE PROBLEME DE MEDIU, ECEE**

1.2. Anul de înființare: 1999, acreditat institutional din 04.04.2013

1.3. Adresa: Str. Domneasca, nr.111, Campus Științei, Corp S, Facultatea de Științe și Mediu.

1.4. Telefon, fax, pagina web, e-mail: 0374439329, www.ecee.ugal.ro

2. Scurta prezentare

2.1. Regulament de organizare și funcționare: HS71/13.07.2017/Anexa 20.

2.2. Domeniul fundamental/ramura de știința: Stiinte ingineresti/Ingineria mediului, Matematica si stiinte ale naturii/Chimie si inginerie chimica, Stiintele pamantului si atmosferei.

2.3. Corespondența activității CDI cu domeniile de specializare inteligentă pentru ciclul strategic 2014-2020:

- Energie, mediu și schimbări climatice
- Eco-nanotehnologii și materiale avansate
- Sănătate
- Patrimoniu și identitate culturală.

2.4. ***Directii de cercetare-dezvoltare/obiective de cercetare/priorități de cercetare***

a. domenii principale de cercetare-dezvoltare-inovare:

Stiinta si ingineria mediului, Stiintele Pamantului: managementul mediului si ale resurselor, ecologie, schimbari ale mediului, geofizica, climatologie.

Monitorizarea calității apelor, poluarea apelor, știința solului, poluarea solului, ecologie, biogeochimie, chimia mediului.

Meteorologie, fizica si chimia atmosferei, poluarea aerului (calitatea aerului), climatologie si variabilitate climatica, ozon, atmosfera inaltam ionosfera, geomagnetism, stiinte ale spatiului, mediul interplanetar, observatii terestre prin mijloace satelitare.

Funcţionalizarea alimentelor şi medicamentelor prin tehnici de micro şi nanoîncapsulare.

Extracţie şi sinteză compuşi organici prin metode convenţionale şi aparţinând chimiei verzi (biocataliză, ultrasunete, microunde).

Separarea şi purificarea compuşilor organici.

Analiza fizico-chimică şi biochimică a compuşilor organici naturali şi de sinteză.

b. domenii secundare de cercetare-dezvoltare-inovare:

Simulari numerice.

Analize numerice si statistice.

Statistică aplicată în ingineria mediului şi biostatistică.

Biomatematica.

Interacţii moleculare compuşi organici-biomolecule.

Suprafeţe funcţionale avansate (acoperiri biomateriale) pentru adsorbţie selectivă de biomolecule.

Studii pentru noi biosenzori funcţionali din compuşi care implică structuri organice cu azot.

Studii electrochimice conexe la intefata metal/microorganisme în obţinerea de materiale pentru industria alimentară (ambalaj, hârtie, polimer, compozit).

Modelarea suprafetelor functionale.

Studii in emulsii si cristale biofunctionale.

c. servicii / microproductie:

2.5. Teme de cercetare dezvoltate[1]:

- studii asupra utilizarii namolurilor de epurare;
- monitorizarea calitatii ecositemelor Dunarii, zonelor predeltaice si deltaice;

[1] Se vor nominaliza temele relevante, dezvoltate prin contracte de cercetare.

- decolmatari si studii de hidrodinamica asupra senalului navigabil al Dunarii de Jos;

- obţinerea şi caracterizarea de noi compuşi heteroaromatici cu variate proprietăţi optice sau bioactive;

- extracţia, separarea, identificarea şi caracterizarea unor compuşi organici din biomasa vegetală;

- complecsi moleculari metalo-organici;

- polimeri de coordinare pe bază de argint pentru hârtie antibacteriană;

- cercetării ştiinţifice în practica restaurării şi conservării bunurilor culturale;

- sinteza şi caracterizarea unor compuşi organici heterociclici cu proprietăţi biologic active;

- valorificarea potențialului energetic şi alimentar al unor specii de plante agricole (sorg, topinambur, cânepă);

- studiul si evaluarea starii de sanatate pentru arealele forestiere;

- evaluarea si modelarea parametrilor de crestere pentru zonele impadurite;

- aplicatii ale utilizarii UAV si imaginilor sateliltare in studiul si evaluarea starii de sanatate pentru arealele forestiere;

- evaluare si atenuare a impactului schimbarilor climatice si a altor factori de stres asupra starii ecosistemelor;

- utilizarea tehnicilor de teledetectie si a sistemelor de tip UAV;

- realizarea unui sistem electronic pe bază de senzori şi biosenzori pentru controlul aminelor biogene;

- dezvoltarea şi caracterizarea unor noi platforme spectroscopice şi electrochimice pentru determinarea activităţii antioxidante;

- realizarea unor noi senzori si biosenzori electrochimici pe baza de nanomateriale pentru determinarea substantelor biologic active din produse agrochimice şi cosmetic;

- dezvoltarea unei platforme de metode analitice pentru analiza nanomaterialelor în sisteme medioambientale şi biologice.

3. Structura de conducere a UC

3.1 Directorul centrului: Prof. univ. dr. ing. Lucian P. Georgescu

3.2 Consiliul de coordonare:

- Prof. univ. dr. Constantin Apetrei;
- Prof. univ. dr. Rodica Dinică;
- Prof. univ. dr. ing. Lucian P. Georgescu;
- Prof. univ. dr. Cătălina Iticescu;
- Conf. univ. dr. Gabriel Murariu;
- Prof. univ. dr. Mirela Voiculescu.

4. Structura resursei umane

Numărul total de membri, din care:

a. Număr membri titulari[2]: 45

b. Număr membri asociați: -

c. Conducători de doctorat[3]:

- Prof. univ. dr. ing. Lucian P. Georgescu – Inginerie industriala;
- Prof. univ. dr. Gabriel Murariu – Ingineria mediului;
- Prof. univ. dr. Rodica Mihaela Dinica – Chimie;
- Prof. univ. dr. Constantin Apetrei – Chimie;
- Prof. univ. dr. Geta Carac – Stiinta si ingineria materialelor.

d. Număr de tineri cercetatori (postoctoranzi, doctoranzi, masteranzi etc): 10.

e. Număr ingineri/tehnicieni: 3

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[2] Numai pe baza adeziunii aprobate de Responsabilul UC

[3] Nume, prenume, domeniul de doctorat.

5. Infrastructura de cercetare-dezvoltare, facilități de cercetare

5.1. Laboratoare[4]

Nr. crt.	Responsabil laborator Grad didactic/Prenume/Nume	Denumire laborator	Directii de cercetare
1.	Prof. univ. Constantin Apetrei	LABORATORUL DE SENZORI ŞI BIOSENZORI PENTRU ANALIZA PRODUSELOR ALIMENTARE, BIOSENS	Suprafețe funcționale avansate (acoperiri biomateriale) pentru adsorbție selectivă de biomolecule. Studii pentru noi biosenzori funcţionali din compuşi care implică structuri organice cu azot.
2.	Prof. univ. dr. Geta Cârâc	ELECTROCHIMIA SUPRAFEŢELOR, ANALITICĂ ŞI ANORGANICĂ APLICATIVĂ, ELECTROCHIM	Studii electrochimice conexe la intefata metal/microorganisme în obţinerea de materiale pentru industria alimentară (ambalaj, hârtie, polimer, compozit). Modelarea suprafetelor functionale. Studii in emulsii si cristale biofunctionale.
3.	Prof. univ. dr. Ştefan Dima	LABORATORUL DE SISTEME DISPERSE SI MICROINCAPSULARE, LABORCAPS	Funcționalizarea alimentelor și medicamentelor prin tehnici de micro și

[4] Se vor nominaliza laboratoarele, responsabilul si principale direcțiile de cercetare.

			nanoîncapsulare.
4.	Prof. univ. dr. Rodica Dinică	LABORATOR DE SINTEZĂ ŞI ANALIZĂ ORGANICĂ, CyBiocat	Extracţie şi sinteză compuşi organici prin metode convenţionale şi aparţinând chimiei verzi (biocataliză, ultrasunete, microunde). Separarea şi purificarea compuşilor organici. Analiza fizico-chimică şi biochimică a compuşilor organici naturali şi de sinteză. Interacţii moleculare compuşi organici-biomolecule.
5.	Prof. univ. dr. Cătălina Iticescu	Laborator monitorizare ape uzate, namoluri de epurare si soluri-LAUNESO	Monitorizarea calităţii solului, poluarea solului, namoluri de epurare, ape uzate.
6.	Prof. univ. dr. ing. Lucian P. Georgescu	CENTRU REGIONAL DE CERCETARE ŞI MONITORIZARE A CALITĂŢII MEDIULUI - CREDENTIAL	Monitorizarea calităţii apelor, poluarea apelor, poluarea solului si aerului.
7.	Lector dr. Cătălina Ţopa	Laborator de determinare a indicatorilor biologici din ape si sediment - BIOSED	Determinarea indicatorilor biologici din ape si sedimente

8.	Prof. univ. dr. Mirela Voiculescu	STUDII ATMOSFERICE SI ALE MEDIULUI CIRCUMTERESTRU ATMOS-AIR	Meteorologie, fizica si chimia atmosferei, poluarea aerului (calitatea aerului), climatologie si variabilitate climatica, ozon, atmosfera inaltam ionosfera, geomagnetism, stiinte ale spatiului, mediul interplanetar, observatii terestre prin mijloace satelitare.
9.	Prof. dr. Mihaela Picu	LABORATORUL INTERDISCIPLINAR PENTRU MĂSURĂRI VIBRO-ACUSTICE ÎN MEDIUL OCUPAŢIONAL, PEM	Poluare sonora. Vibratiile instalatiilor. Vibratii transmise oamenilor.
10	Prof. univ. dr. Gabriel Murariu	LABORATOR DE ANALIZE STATISTICE SI APLICATII CADASTRALE, LASAC	Simulari numerice. Analize numerice si statistice. Statistică aplicată în ingineria mediului şi biostatistică. Biomatematica.

5.2. Echipamente, instalaţii şi software de interes naţional pentru cercetare fundamentală, dezvoltare tehnologică şi inovare[5]

Nr. crt.	**Denumire laborator**	**Echipamente**

[5] Se se vor enumera numai acele laboratoare si acele echipamente care au fost folosite in activitatea de cercetare din ultimii 2 ani); Se vor nominaliza echipamentele achiziţionate în anul 2017.

1.	CREDENȚIAL	Termoreactor Spectroquant TR 620
2.		Spectrofotometru Spectroquant NOVA 60
3.		Analizor XRF NITON XLt 793 WY
4.		Analizor continut produs petrolier total
5.		Sistem CBO5 VELP SCIENTIFICA
6.		Termoreactor pentru determinarea consumului chimic de oxigen, VELP SCIENTIFICA
7.		Analizor COV – THERMO FID
8.		Analizor pulberi MICRO Dust PRO
9.	BIOSED	Microscop trinocular prevazut cu camera CMOS, NOVEX, BTP, 86.091, CMEX-1300X, DC.1300X
10.		Barca cu motor, 75 CP, troliu dragare sedimente de fund
11.	LAUNESO	Calorimetru PARR 6765EF
12.		Fotocolorimetru pentru determinarea nutrientilor din sol (2017)
13.	ATMOS-AIR	Statie meteo WEATHER LINK
14.		Senzor NO2 Cairsens
15.		CAIRSENS NO_2- Sistem miniaturizat de determinare a dioxidului de azot.
16.		Senzor de gaze, NO_2 (2017)
17.	LASAC	Drona pentru aplicatii cadastrale
18.		Drona pentru investigarea factorilor de mediu
19.		Dronă X8-M +
20.		Drone aripa tip avion
21.		Autoturism de teren Duster Diesel 4x4 110 CP (2017)
22.		Potenţiostat/Galvanostat BIOLOGIC SCIENCE INSTRUMENTS model SP150

23.	BIOSENS	Spectrometru FT-IR Bruker ALPHA-E cu ATR Eco-ZnSe
24.		Spectrofotometru UV-1601
25.		
26.	CyBiocat	Microplate reader cu accesorii, model M200Pro
27.		Spectrofotometru UV-Vis, Labomed, model UV 2000
28.		Agitator orbital Biosan, model OS20

6. Contracte de cercetare derulate[6]

6.1. Contracte câştigate în competiţii:

- internaţionale – 3;
- naţionale – 10.

6.2. Contracte cu agenţi economici:

- din străinătate
- din ţară – 3.

7. Finanţarea UC din fonduri proprii UDJG[7]. Nu este cazul.

8. Rezultatele activităţii de cercetare, dezvoltare şi inovare (CDI)

8.1.Rezultate ale activităţii CDI (cercetare fundamentala şi aplicativă)[8]

		Nr.
8.1.1	Lucrări publicate în reviste cotate ISI	29
8.1.2	Factor de impact cumulat al lucrărilor cotate ISI	42,675
8.1.3	Citări în reviste de specialitate cotate ISI	287

[6] Se vor atasa liste pe categorii care să cuprindă următoarele detalii: nr. contract, titlu, domeniul (care se inscrie in lista domeniilor de cercetare declarate ale UC) de cercetare, director, parteneri (daca este cazul), valoare totala si valoarea regie şi valoarea din regie care a fost solicitata pentru intretinerea UC.

[7] Se va specifica valoarea finanţarilor şi destinaţia acestora.

[8] Se vor anexa lista acestor contribuţii.

8.1.4	Lucrări ştiinţifice/tehnice in reviste indexate în baze de date internaţionale	4
8.1.5	Comunicări ştiinţifice prezentate la conferinţe internaţionale şi publicate în volumele acestora	50
8.1.6	Comunicări ştiinţifice prezentate la conferinţe naţionale şi publicate în volumele acestora	4
8.1.7	Brevete de invenţie (solicitate / acordate)	4
8.1.8	Citări în sistemul ISI ale lucrărilor de cercetare/ brevete	-
8.1.9	Produse/servicii/tehnologii rezultate din activităţi de cercetare, bazate pe brevete, omologări sau inovaţii proprii.	-
8.1.10	Studii prospective şi tehnologice, normative, proceduri, metodologii şi planuri tehnice, noi sau perfecţionate, comandate sau utilizate de beneficiar.	-

8.2. Teze de doctorat finalizate şi în derulare[9]: 1 teza finalizata, 16 teze aflate in derulare.

8.3. Oportunităţi de valorificare a rezultatelor CDI

8.4. Rezultate ale activităţii CDI valorificate şi efectele obţinute

9. Măsuri privind creşterea capacităţii activităţii CDI

10. Măsuri pentru creşterea prestigiului şi a vizibilităţii UC[10]

10.1. Dezvoltarea de parteneriate:

[9] Se va anexa lista tezelor de doctorat în derulare, cu specificarea titlului, domeniul de doctorat, nume doctorand, nume conducator de doctorat.

[10] Se va descrie detaliat fiecare acţiune realizată.

- dezvoltarea de parteneriate la nivel național și internațional (cu personalități/ instituții / asociații profesionale) în vederea participării la programele naționale și internaționale specifice. In anul 2017 au fost incheiate mai multe parteneriate:

- ACORD FERM DE COLABORARE cu Institutul Național de Cercetare-Dezvoltare pentru Tehnologii Criogenice și Izotopice-INC-DTCI-ICSI Rm. Vâlcea

- asigurarea de stagii de cercetare pentru bursieri ai Agenției Universitare a Francofoniei

  - acord de colaborare cu INCSDB Bucuresti, Geoecomar, INCDD Tulcea si Academia Romana –Institutul de Geodinamica „Sabba Stefanescu";
  - accord de colaborarea cu Apa-Canal S.A. Galati;
  - accord de colaborare cu ARBDD Tulcea;

- înscrierea UC în platforme naționale și internaționale care promovează parteneriatele;
- înscrierea UC în rețele de cercetare/asociații profesionale de prestigiu pe plan național/internațional;
- personalități științifice ce au vizitat UC. In 2017, au vizitat ECEE d-na D.R. Martine Demeunynck, de la Departamentul de Farmacochimie moleculară, Universitatea Grenoble-Alpes, Franța

  octombrie 2017 – vizita D.R. Isabelle Baussane, de la Departamentul de Farmacochimie moleculară, Universitatea Grenoble-Alpes, Franța;
- asigurarea de stagii de cercetare pentru specialiști din țară și străinătate:
  - octombrie 2017 – stagiu de cercetare doctorand de la Emile Roussel, Departamentul de Farmacochimie moleculară, Universitatea Grenoble-Alpes, Franța.
- cursuri și seminarii susținute de personalitățile științifice invitate;
- membrii în colective editoriale ale revistelor recunoscute ISI sau incluse în baze internaționale de date. Astfel, dl. Prof. Apetrei este membru in board-ul stiintific a doua reviste:

  1.Food Research International, Editorial Board Member

2. Review Editor for Bionics and Biomimetics; Frontiers in Bioengineering and Biotechnology, http://loop.frontiersin.org/people/334762/overview.

D-na prof. Dinica este, de asemenea, membru in colectivele de redactie ale revistelor:

1. SCIENTIFIC STUDY & RESEARCH, Chemistry & Chemical Engineering, Biotechnology, Food Industry
2. Annals of the University Dunarea de Jos of Galati, Fascicle VI - Food Technology

10.2. Prezentarea rezultatelor la târgurile și expozițiile naționale și internaționale;

- târguri și expozitii internaționale;
- târguri și expoziții naționale.

10.3. Premii obținute prin proces de selecție/distincții, etc.

UEFISCDI-Pemierea rezultatelor cercetarii 2017– articole

I. M. Apetrei, C. Apetrei, Highly sensitive voltamperometric determination of pyritinol using carbon nanofiber/gold nanoparticle composite screen-printed carbon electrode. International Journal of Nanomedicine 2017: 12, 5177-5188

10.4. Prezentarea activitătii de mediatizare:

extrase din presa (interviuri). Articol/interviu în ziarul Adevărul http://adevarul.ro/locale/galati/un-roman-inventat-aparatul-detecteaza-substantele-periculoase-mancare-1_587236475ab6550cb8383407/index.html

- participare la dezbateri radiodifuzate / televizate.

11.Concluzii

Cresterea valorii adaugate a cercetarii stiintifice se realizeaza prin urmarirea unor obiective precise pe termen mediu si lung:

- Asigurarea sustenabilitatii unor temetici si arii de cercetare pentru care exista experienta si competenta. In spijinul acestui deziderat vin contractele de finantare care au fost obtinute de catre membrii echipei ECEE, numarul mare de lucrari ISI publicate si participarile la manifestari stiintifice de anvergura.

- Asigurarea reseurselor umane si materiale la un nivel calitativ ridicat. Realizarea acestui deziderat va fi posibila prin cresterea numarului de conducatori de doctorat si a numarului de doctoranzi la nivelul centrului. De asemenea, in perioada urmatoare, alaturi de doctoranzi vor fi implicati si masteranzi in implementarea proiectelor de cercetare aflate in derulare sau care vor fi obtinute.

- Rezultatele obtinute vor sta la baza implicarii in cercetarea aplicativa care va permite diversificarea tipului si dimensiunilor proiectelor la care vom aplica.

Data: 14.05.2018

Responsabil ECEE,
Prof. univ. dr. ing. Lucian P. Georgescu

Universitatea "Dunărea de Jos" din Galați

Facultatea de Științe și Mediu

RAPORT DE ACTIVITATE

CENTRUL EUROPEAN DE EXCELENȚĂ PE PROBLEME DE MEDIU, ECEE

2017

Anexa 6a

CENTRUL EUROPEAN DE EXCELENȚĂ PE PROBLEME DE MEDIU, ECEE

Contracte câștigate în competiții naționale aflate in derulare - 2017

Contract		Titular		Anul obtinerii/ derularii	Valoare contract decontata (Lei)
Nr. Contract	Denumire	Nume	Prenume		2017
79BG. Cod proiect PN-III-P2-2.1-BG-2016-0307	Eficientizarea procesului tehnologic de obținere a nămolurilor de epurare utilizabile în agricultură, Eficient	Iticescu	Cătălina	2016	284.818,00
PN III, Grant mobilitati, 21/2017	Multivariate analysis of physico-chemical parameters and WQI of Lower Danube water to identify potential pollution sources	Iticescu	Cătălina	2017	13.750,00
3PS/2017	Cercetări în sprijinul dezvoltării capacității de monitorizare, evaluare și valorificare a resurselor naturale oferite de zonele umede de importanță internațională din România și de zona costieră a Mării Negre	Murariu	Gabriel	2017	120.000,00
4PS/2017	Cercetări în sprijinul dezvoltării capacității de evaluare și atenuare a impactului schimbărilor climatice și a altor factori de stress asupra stării ecosistemelor forestiere și a culturilor viticole	Murariu	Gabriel	2017	150.000,00
6PS/2017	Cercetări în sprijinul modernizării sistemului național de monitorizare a ecosistemelor silvice prin utilizarea tehnicilor de teledetecție și a sistemelor de tip UAV	Murariu	Gabriel	2017	400.000,00

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CENTRUL EUROPEAN DE EXCELENȚĂ PE PROBLEME DE MEDIU, ECEE

24/31.10.2017	Proiect de mobilitate pentru cercetători PN-III-P1-1.1-MC-2017-0218	Furdui	Bianca	2017	11.054,66
408/ PN-III-P1-1.1-MC-2017	Physical and oxidative stability evaluation of water-in-oil emulsions with edible/bio dyes as antioxidants	Crețu	Romică	2017	7916,4
MC_PN-III-P1-1.1-MC-2017-1001	Proiect de mobilitate pentru cercetători PN-III-P1-1.1-MC-2017-1001	ROSU	ADRIAN	2017	19250
PN-II-RU-TE-2014-4-2584	DEterminarea DIstribuției spațiale a Compoziției ATmosferice folosind tehnica DOAS pe platforme mobile (DEDICAT-DOAS)	CONSTANTIN	DANIEL	2014	194194
ASSESS 505/2017	Atmospheric studies in support of ESA's sentinel 4 and 5 products (ASSES), finanțat de ESA, coordonator Institutul National de Cercetare Dezvoltare Aerospatiala "Elie Carafoli" - INCAS (INCAS), partener Universitatea Dunărea de Jos Galați.	CONSTANTIN	DANIEL	2017	70000

Contracte câștigate în competiții internaționale aflate in derulare - 2017

Contract		**Titular**		**Anul obtinerii/ derularii**	**Valoare contract decontata Lei**
Nr. Contract	Denumire	Nume	Prenume		2017

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CENTRUL EUROPEAN DE EXCELENȚĂ PE PROBLEME DE MEDIU, ECEE

85BM/2017	Proiect PNIII mobilități - Bilaterla România – Franța, Concepția, sinteza și evaluarea biologică a unor molecule hibride pentru tratamentul multitintit al maladiei Alzheimer - MolHybAl	Furdui	Bianca	2017	7.483,49
MPNS COST Action MP1407	Electrochemical processing methodologies and corrosion protection for device and systems miniaturization (e-MINDS) http://www.e-minds.ch/the-project/cost-mp1407/	Cârâc Apetrei	Geta (MC) Constantin (MC Substitute)	2015/2017	
RAMOS 4000118115/16/NL/FF/GP/2016	Technical Assistance For A Romanian Atmospheric Observation System (RAMOS) proiect finanțat de ESA-ESTEC prin contractul	CONSTANTIN	DANIEL	2017	70000

Contracte cu agenți economici – 2017

Contract		**Titular**		**Anul obtinerii/ derularii**	**Valoare contract decontata (Lei)**
Nr. Contract	Denumire	Nume	Prenume		2017
731/2017	*Tehnologii de valorificare a nămolurilor rezultate din stațiile de epurare orășenești și a deșeurilor din gropile de gunoi*	Iticescu	Cătălina	2017	25.000,00

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721/2017	Cercetari asupra dispersiei emisiilor rezultate din instalatia de uscare, neutralizare si valorificare termica a namolului din cadrul SEAU-BRAILA	Iticescu	Cătălina	2017	13.500,00
692/23.12.2016	Studiu asupra namolului provenit de la Statia de Epurare a Apelor Uzate Braila	Iticescu	Cătălina	2016	27.000,00

Director ECEE,

Prof. univ. dr. ing. Lucian P. Georgescu

Anexa 8.1.1.a
CENTRUL EUROPEAN DE EXCELENȚĂ PE PROBLEME DE MEDIU, ECEE

Articole publicate in reviste cotate ISI in anul 2017

Nr. crt.	Autori	Titlu articol	Titlu revistă
1.	Tăbăcaru, A., Furdui, B., Ghinea, I. O., Cârâc, G. Dinică, R. M.	Recent Advances in Click Chemistry Reactions Mediated by Transition Metal Based Systems	Inorganica Chimica Acta,â Volume 455, Part 2, 30 January 2017, Pages 329-349
2.	Burada A., Teodorof L., Despina C., Seceleanu-Odor D., Tudor M., Ibram O., Năvodaru I., Murariu G., Ţopa M. C., Tudor M.	Trace elements in fish tissue with commercial value of the Danube Delta biosphere reserve	EEMJ Volume 16 2017, No 3, 731-738
3.	G Murariu, V Hahuie, A Murariu, L Georgescu, C Iticescu, .. Calin, M ; Preda, C ; Buruiana, D; Carp, Gb.	FOREST MONITORING METHOD USING COMBINATIONS OF SATELLITE AND UAV AERIAL IMAGES. CASE STUDY-BĂLĂBĂNEŞTI FOREST.	International Journal of Conservation Science 8 (4), p.703 - 714
4.	Gabriel Murariu, Valentin Hahuie, Adrian Gabriel Murariu, Lucian Georgescu, Mihaela Alina CAL1N, Daniela BURU1ANA, Ionica Soare, Mihaela Onica, Gabriel Bogdan Carp,	GROWTH RATE MODELING FOR WHITE POPLAR IN THE SOUTH EASTERN PART OF ROMANIA: AN IMPORTANT ISSUE OF FOREST CONSERVATION.	International Journal of Conservation Science 8 (2), p. 303 - 316
5.	Creţu, ROMICA, Şolea LIVIU	Zeta potential and color investigations of vegetable oil based emulsions as eco-friendly lubricants	Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry, Vol. 18, no. 2, p. 167 - 180

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6.	S. Condurache-Bota, M. Praisler, R. Gavrilă, N. Țigău,	*Sandwich heterostructures of antimony trioxide and bismuth trioxide films: Structural, morphological and optical analysis,*	Appl. Surf. Sci., 391 (A), 59-65 (2017); scor relativ de influență: 1,36118; factor de impact: 1,793
7.	S. Condurache-Bota, N. Tigau, M. Praisler, G. Prodan, R. Gavrila,	*Near-infrared energy bandgap bismuth oxide thin films and their in-depth morpho-structural and optical analysis*	Rom. Rep. Phys., **69** (3), 1-10, 2017
8.	N. Tigau, S. Condurache-Bota, R. Drasovean J. Cringanu, R. Gavrila,	*Vacuum annealing effect on the structural and optical properties of antimony trioxide thin films,*	Rom. J. Phys., **62** (1-2), art. no. 604, 1-10, 2017
9.	S. Condurache-Bota, N. Tigau	*The influence of the oxidation degree of bismuth oxide thin films on their optical properties*	Rev. Roum. Chim., **62**(10), 757-762, 2017
10.	Arseni, M., Rosu, A., Bocaneala, C., Constantin, D. E., & Georgescu, L. P.	Flood hazard monitoring using GIS and remote sensing observations	Carpathian Journal of Earth and Environmental Sciences, 12(2), 329-334., ISSN: 1842-4090 (IF 2016 = 0.88)
11.	Constantin, D. E., Merlaud, A., Voiculescu, M., Van Roozendael, M., Arseni, M., Rosu, A., & Georgescu, L.	NO2 and SO2 observations in southeast Europe using mobile DOAS observations	Carpathian Journal of Earth and Environmental Sciences, 12(2), 323-328., ISSN: 1842-4090 (IF 2016 = 0.88)
12.	Vasilescu, Vlad Gabriel; Vasilescu, Elisabeta; Dima, Dumitru; et al.	Contributions on Setting the Optimal Regime of Antibacterial Deposition on the Surface of the Oral Implant of Ti10Zr Bio-alloy	REVISTA DE CHIMIE Volume: 68 Issue: 1 Pages: 55-59 Published: JAN 2017
13.	P. Vaideanu, M. Dima and M. Voiculescu ,	Atlantic Multidecadal Oscillation footprint on global high cloud cover,	*Theor Appl Climatol.*, pp 1-12, https://doi.org/10.1007/s00704-017-2330-3, 2017
14.	L. Sfica, I. Iordache, M. Voiculescu	Solar signal on regional scale:A study of possible Solar impact upon Romania's Climate,	*J. Atm. Sol.-Terr. Phys.*, 2017

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15.	D. E. Constantin, A. Merlaud, M. Voiculescu, C.Dragomir, L.P. Georgescu , F. Hendrick, G. Pinardi , M. Van Roozendael, ,	Mobile DOAS observations of tropospheric NO2 using an UltraLight Trike and flux calculation	*Atmosphere*, 8, 78; doi:10.3390/atmos8040078, 2017
16.	S. Paraschiv, D. E. Constantin, S. –L. Paraschiv, and M. Voiculescu,	OMI and Ground-Based In-Situ Tropospheric Nitrogen Dioxide Observations over Several Important European Cities during 2005–2014	*Int. J. Environ. Res. Public Health*, 14, 1415; doi:10.3390/ijerph14111415www.mdpi.com/journal/ijerph, 2017
17.	Alexis Merlaud, Frederik Tack, Daniel Constantin, Lucian **Georgescu**, Jeroen Maes, Caroline Fayt, Florin Mingireanu, Dirk Schuettemeyer, Andreas Carlos Meier, Anja Schönardt, Thomas Ruhtz, Livio Bellegante, Doina Nicolae, Mirjam Den Hoed, Marc Allaart, and Michel Van Roozendael;	The Small Whiskbroom Imager for atmospheric compositioN monitorinG (SWING) and its operations from an Unmanned Aerial Vehicle (UAV) during the AROMAT campaign (2017)	Atmos. Meas. Tech. Discuss., https://doi.org/10.5194/amt-2017-211, (IF=3.089)
18.	Meier, A. C., Schönhardt, A., Bösch, T., Richter, A., Seyler, A., Ruhtz, T., Constantin, D.-E., Shaiganfar, R., Wagner, T., Merlaud, A., Van Roozendael, M., Belegante, L., Nicolae, D., Georgescu, L., and Burrows, J. P.:	High-resolution airborne imaging DOAS measurements of NO2 above Bucharest during AROMAT (2017)	Atmos. Meas. Tech., 10, 1831-1857, https://doi.org/10.5194/amt-10-1831-2017, (IF=3.089)
19.	V. Pintilie; A. Ene; Lucian P. Georgescu; D.I. Moraru;	Gross alpha, gross beta and 40K activities and daily effective dose due to natural radionuclides from food supplements (2017)	Romanian Journal of Physics 62 · May 2017 (IF = 1.398)
20.	Carac, A, Boscencu, R, Dediu, AV, Bungau, SG, Dinica, RM	Solvent Effects on the Spectral and Electrochemical Properties of Some Pyridinium Quaternary Compounds,	REVISTA DE CHIMIE, 68, 7, 1423-1428, 2017

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21.	Apetrei, RM; Bahrim, GE ; Carac G	Spectroelectrochemical characteristics of Polypyrrole synthesized by different methods	BULGARIAN CHEMICAL COMMUNICATIONS Volume: 49, Pages: 74-83, Special Issue: C, Published: 2017
22.	Lisa, Elena Lacramioara; Carac, Geta; Lupu, Irina Teodora; et al.	Chemical Interactions among Some Antimicrobial Solutions and Chelating Agents Used in Endodontics for Irrigation of Infected Root Canals	REVISTA DE CHIMIE Volume: 68 Issue: 7 Pages: 1490-1495 Published: JUL 2017
23.	Apetrei, Roxana Mihaela; Carac, Geta; Bahrim, Gabriela; et al.	Glucose biosensor based on whole cells of Aspergillus niger MIUG 34 coated with polypyrrole	JOURNAL OF BIOTECHNOLOGY Volume: 256 Supplement: S Pages: S55-S56 Published: AUG 30 2017
24.	Lisa, Elena Lacramioara; Carac, Geta; Barbu, Vasilica; et al.	The Synergistic Antioxidant Effect and Antimicrobial Efficacity of Propolis, Myrrh and Chlorhexidine as Beneficial Toothpaste Components	REVISTA DE CHIMIE Volume: 68 Issue: 9 Pages: 2060-2065 Published: SEP 2017
25.	Carac, Andreea; Boscencu, Rica; Carac, Geta; et al.	Spectral Study of Some Lanthanides Complexes with Quaternary Pyridinium Ligands	REVISTA DE CHIMIE Volume: 68 Issue: 10 Pages: 2265-2269 Published: OCT 2017
26.	Duinea, Madalina I.; Sandu, Ana M.; Petcu, Mihaela A.; et al.	Aqueous oxidation of iron monosulfide (FeS) in the presence of glycine	JOURNAL OF ELECTROANALYTICAL CHEMISTRY Volume: 804 Pages: 165-170 Published: NOV 1 2017
27.	I. M. Apetrei, C. Apetrei	Highly sensitive voltamperometric determination of pyritinol using carbon nanofiber/gold nanoparticle composite screen-printed carbon electrode	International Journal of Nanomedicine 2017: 12, 5177-5188. https://doi.org/10.2147/IJN.S138978
28.	I. M. Apetrei, A. A. Bejinaru, M. Boev, C. Apetrei, O. Dumitriu Buzia	Determination of ibuprofen based on screen-printed electrodes modified with carbon nanofibers	Farmacia 2017, Vol. 65, 5, 790-795. http://www.revistafarmacia.ro/201705/issue52017art22.html

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29.	J. Lozano, C. Apetrei, M. Ghasemi-Varnamkhasti, D. Matatagui, J. P. Santos	Sensors and Systems for Environmental Monitoring and Control	Journal of Sensors, Volume 2017, Article ID 6879748, 2 pages, https://doi.org/10.1155/2017/6879748

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Lucrări ştiinţifice/tehnice in reviste indexate în baze de date internaționale - 2017

Nr. crt.	Titlu lucrare ştiinţifică	Nume, prenume autor(i) lucrare	Revistă indexată BDI
1.	Arseni, M., Roşu, A., Nicolae A. F. , Georgescu L. P. & Constantin, D. E.,	Comparison of models and volumetric determination for Catusa lake, Galati	Tehnomus Journal New Tecchnologies and Products in Machine Manufacturing Technologies
2.	Roşu, A., Roşu, B., Arseni, M., Constantin, D. E., Voiculescu, M., Georgescu, L. P., Van Roozendael, M.	Tropospheric nitrogen dioxide measurements in south-east of Romania using zenith-sky mobile DOAS observations.	Tehnomus Journal New Tecchnologies and Products in Machine Manufacturing Technologies
3.	George Ioan Notarescu, Violeta Teodor Panait, Daniela Grama, Gabriel Murariu,	MATHEMATICAL MODELING OF THE BIOGAS USING PROCESS PRODUCED IN LEACHATE POWERPLANT FROM THE GALATI - TIRIGHINA WASTE DEPOSITS,	ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI MATHEMATICS, PHYSICS, THEORETICAL MECHANICS, FASCICLE II, YEAR IX (XL) 2017, No. 1, 113-122
4.	S. Condurache-Bota, G. Condurache-Bota, I. Florea,	*The evolution of the surface ultraviolet flux over Romania*,	Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, year IX (XL), No. 2, 182-186, 2017.
5.	S. Condurache-Bota, G. Condurache-Bota, C. B. Murat	*Monitoring air pollution in the most important Romanian cities*	Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, year IX (XL), No. 2, 175-181, 2017

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Comunicări ştiinţifice prezentate la conferinţe internaţionale si nationale - 2017

Nr. crt.	Titlu lucrare	Autori	Conferinta
1.	INFLUENCE of SEWAGE SLUDGE on AGRICULTURAL LAND QUALITY and CROP	Catalina Iticescu, Lucian P. Georgescu, Mihaela Timofti, Gabriel Murariu	ICPES 2017: 19th International Conference on Plant and Environmental Sciences, July 2017
2.	The influence of characteristics of waste water on properties of sewage sludge,	Catalina Iticescu, Lucian P. Georgescu, Mihaela Timofti, Gabriel Murariu, Catalina Topa	ICWTWCQ 2017 : 19th International Conference on Wastewater Treatment, Water Cycle and Quality, Barcelona, August 2017
3.	Multivariate analysis of physico-chemical parameters and WQI of Lower Danube water to identify potential pollution sources	Catalina Iticescu, Lucian P. Georgescu, Gabriel Murariu, Maria Catalina Topa, Mihaela Timofti, Violeta Pintilie	5th International Conference on Environment Pollution and Prevention (ICEPP 2017), Singapore, December 2017
4.	Use of sewage sludge in incinerators	Cătălina Iticescu, Mihaela Timofti, Dumitru Dima, Adrian Cârciumaru, Gabriel Murariu, Lucian Puiu Georgescu,	5th International Conference on Environment Pollution and Prevention (ICEPP 2017), Singapore, December 2017
5.	STUDIES REGARDING THE SEAWAGE SLUDGE PROPERTIES FOR USE IT IN SAFE WAYS IN ORDER TO AVOID THE POLLUTION OF ENVIRONMENT, TEME INTERNATIONAL CONFERENCE 2017	Mihaela Timofti, Cătălina Iticescu, Lucian. P. Georgescu, Gabriel Murariu, Cătălina Ţopa, Dumitru Dima	New Trends in Environmental and Materials Engineering, 25 – 27 October 2017, Galati, Romania
6.	ASSESSMENT OF THE EFFICIENCY EXPLOITATION FOR WHITE POPLAR SPECIES USING AN OPTIMIZED MANAGEMENT SYSTEM. CASE STUDY - INDEPENDENTA FOREST	G. Murariu, V. Hahuie, A. Murariu, L. Georgescu, C. Iticescu, M. A. Calin, M. Oniga, I. Soare	Thursday, May 25th, 2017 – UAB - BENA CONFERENCE

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7.	Study on the influence of atmospheric parameters on the accuracy of the geodetic measurements,	Gabriel Murariu, Valentin Hahuie, Lucian Georgescu, Maxim Arseni, Catalina Iticescu, Adrian Gabriel Murariu, Florin Buhociu, Nicusor Nistor	Timisoara, AIP Conference, 2017
8.	Searching for a N-heterocyclic lead compound - Docking on biomolecules	Patriche S., Thomas A., Furdui B., Ghinea I. O., Baussanne I., Demeunynck M., Dinică R. M.	4ème Colloque Franco-Roumain de Chimie Médicinale, 5-7 Oct. 2017, Iași, Romania
9.	Volatile constituents of *Hexalobus monopetalus (A. Rich.) Engl. & Diels* and *Securidaca longepedunculata Fresen* plants used in the treatment of gout in Chad	Mbaïhougadobé S., Furdui B., Adolphe N. C. L., Gouollaly T., Dediu A. V., Borda D., Mahmout Yaya, Dinică R.M.	4ème Colloque Franco-Roumain de Chimie Médicinale, 5-7 Oct. 2017, Iași, Romania
10	*Nymphaea alba* – source de phytonutrients	Cudalbeanu M., Stuparu Cretu M., Furdui B., Barbu V., Dinică R. M.	Conférence Nationale avec une Participation Internationale "Nutrition – Médecine du Futur", 7ème édition & Colloque Francophone sur la Nutrition et la Sécurité Alimentaire Nutrisûr, 23-24 Noiembrie 2017, Cluj-Napoca, Romania
11	Composés phytochimiques impliqués dans la gestion et la prévention du syndrome métabolique	Dinica R. – M., Ghinea I.O., Furdui B.	Le Jour Mondiale de l'Alimentation - Conferinta Nutrition Saine - de la conception à la pratique în cadrul proiectului Réseau régional francophone sur la santé, la nutrition et la sécurité alimentaire (SaIN) finanțat de AUF – BECO, Galați 16-17 octombrie 2017
12	Antioxidant properties of crude extracts of *Nymphaea alba*	Cudalbeanu M., Ghinea I. O., Barbu V., Furdui B., Dinica R.	International Conference on Science and Society 2017 : "Phytomedicine and Biopiracy" ICSS-2017, July 24 – 28 / 2017, Mainz, Germany
13	Insight sur la cytoxicité possible des composés N-hétérocycliques obtenues par des méthodes «vertes»	Dediu A. V., Furdui B., Ghinea I. O., Bahrim G., Dinica R. M.	Journées Scientifiques du Médicament, Epigenetic: Toward New Therapeutic Targets, June 1st 2017, Grenoble, France
14	Influența concentrației de TiO2 ca nanoaditiv în uleiul de rapiță asupra comportării tribologice pe tribotesterul cu patru bile	George Cătălin Cristea, Daniel Cazamir, Cosmin Dima, Lorena Deleanu, Constantin Georgescu, Dumitru Dima	Ugal Invent SalonulInovarii si Cercetarii Editia a III a 12-20 Octombrie 2017 Mecanica-Motoare- Masini-Echipamente-Proceduri industrial-Metalurgie 1.11

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15	Comportarea tribologică a uleiului de soia aditivat cu nanografit	George Cătălin Cristea, Lorena Deleanu, Constantin Georgescu, Dumitru Dima, Alexandru Petrică	Ugal Invent SalonulInovarii si Cercetarii Editia a III a 12-20 Octombrie 2017 Mecanica-Motoare- Masini-Echipamente-Proceduri industrial-Metalurgie 1.12
16	Determination of Nitrogen Dioxide Using a New Doas Instrument with two Dimensional Axes	Adrian Roşu, Bogdan Roşu, Maxim Arseni, Corina Bocăneală, Daniel-Eduard Constantin, Mirela Voiculescu, Lucian Puiu Georgescu	5th edition of the Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galati (CSSD-UDJG), on 8th and 9th of June 2017, in Galati, Romania.
17	Estimation of NO2 Concentrations Derived From DOAS Mobile Measurement in South-East of Romania	A. Roşu, B. Roşu, D. E. Constantin, M. Arseni, C. Bocăneală, L. P. Georgescu	Conferința International U.A.B. – B.EN.A. Conference Environmental Engineering And Sustainable Development Alba Iulia, Romania May 25-27th, 2017.
18	Assessing flooded surface area Using Landsat satellite data on Siret River downstream of lower Danube	Arseni Maxim, Roşu Adrian, Georgescu Lucian, Murariu Gabriel	Conferința International U.A.B. – B.EN.A. Conference Environmental Engineering And Sustainable Development Alba Iulia, Romania May 25-27th, 2017.
19	Research of remaining storage volume on Tirighina solid waste system, Galati	Maxim Arseni, Adrian Roşu, Lucian Puiu Georgescu, Gabriel Murariu	5th edition of the Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galati (CSSD-UDJG), on 8th and 9th of June 2017, in Galati, Romania.
20	The investigation of the prebiotic activity of inulin-type fructans from Cichorium intybus and Taraxacum officinale	Patriche, S., Costea, R., Dediu (Botezatu), A.V., Dinica, R.M.	AGRI-FOOD 2017, Agriculture and Food for XXI, International Conference Sibiu, 11-13 May 2017
21	The Prevention of Hemp Oil Oxidation by Using Natural Antioxidants	Patriche, S., Preda, C.N., Grigore (Moraru), N.C., Dediu (Botezatu), A.V., Dinică, R.M.	8th International EuroAliment Symposium, Galati, 7-8 September 2017
22	Searching for a N-heterocyclic lead compound- Docking on biomolecules	Patriche, S., Thomas, A., Furdui, B., Ghinea, I.O., Baussanne, I., Demeunynck, M., Dinică, R.M.	4 ème Colloque Franco-Roumain de Chimie Médicinale, Iași, 05-07 Octobre 2017
23	Physico-chemical and biochemical studies on palm oil used for frying-1. effects of frying cycles	Andreea Dediu (Botezatu), Romică Creţu, Rodica-Mihaela Dinică	8th International Symposium Euro-Aliment 2017, Galati, Romania

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24	Physico-chemical and biochemical studies on palm oil used for frying-2. Assessment of this oil impact on cucurbita pepo species during its growth and development	Mihaela Cudălbeanu, Romică Crețu, Rodica-Mihaela Dinică	8th International Symposium Euro-Aliment 2017, Galati, Romania
25	Polycyclic aromatic hydrocarbons impact on enzymatic potential of plants	Crețu Romică, Mihaela Gabriela Mardare	Scientific Symposium CURRENT TRENDS IN NATURAL SCIENCES - 20-21 April 2017, Pitesti
26	*Annealed bismuth and antimony trioxide sandwich films with increased refractive index and visible range energy bandgap*	S. Condurache-Bota, N. Țigău	Conferința IBWAP 2017, secțiunea S1, poster no. P8
27	*The effect of annealing on the structural and optical properties of ZnSe thin films*	N. Țigău, S. Condurache-Bota	Conferința IBWAP 2017
28	*A perspective view of O3 and NO2 evolution above several important cities during 2005-2016 using UV-Vis observations from space*	Lucian Dimitrievici, Daniel-Eduard Constantin, Adrian Rosu, Luminita Moraru	RAD Conference Proceedings
29	"Food antioxidants from Nymphaea alba species in aquatic ecosystems of Romania", "	Cudalbeanu Mihaela, Ghinea Ioana Otilia, Burada Adrian, Spiridon Cosmin and Dinică Rodica – Mihaela,	AGRICULTURE AND FOOD FOR THE XXI CENTURY, Sibiu, Mai 11-13, 2017
30	THE INVESTIGATION OF THE PREBIOTIC ACTIVITY OF INULIN-TYPE FRUCTANS FROM CICHORIUM INTYBUS AND TARAXACUM OFFICINALE, "	S. Patriche, R. Costea, A.V.Dediu (Botezatu), R.M.Dinica	AGRICULTURE AND FOOD FOR THE XXI CENTURY, Sibiu, Mai 11-13, 2017
31	Composition and biological activities of Morinda lucida extracts used in Benin traditional medicine,	Dah Nouvlessounon Marius Durand, Mihaela Cudălbeanu, Ioana Otilia Ghinea, Daniela Borda, Rodica Mihaela Dinica, Baba-Moussa Lamine,	4th French-Romanian Colloquium on Medicinal Chemistry Iasi, Romania – October 05-07, 2017

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32	Composition chimique des métabolites secondaires de Trichoderma gansii et activité antimicrobienne contre deux phytopathogènes,	Marie Ampère Boat Bédiné, Mihaela Cudălbeanu, Mihaela Cotarlet, Ioana Otilia Ghinea Séverin Nguemezi Tchameni, Lambert Modeste Samezad, Gabriela Bahrimc, Daniela Borda, Rodica Mihaela Dinica,	4th French-Romanian Colloquium on Medicinal Chemistry Iasi, Romania – October 05-07, 2017
33	Searching for a N-heterocyclic lead compound-docking on biomolecules,	Simona Patriche, Aline Thomas, Bianca Furdui, Ioana O. Ghinea, Martine Demeunynck and Rodica M. Dinică,	, 4th French-Romanian Colloquium on Medicinal Chemistry Iasi, Romania – October 05-07, 2017
34	THE INVESTIGATION OF THE PREBIOTIC ACTIVITY OF INULIN-TYPE FRUCTANS FROM CICHORIUM INTYBUS AND TARAXACUM OFFICINALE, "	S. Patriche, R. Costea, A.V.Dediu (Botezatu), R.M.Dinica	AGRICULTURE AND FOOD FOR THE XXI CENTURY, Sibiu, Mai 11-13, 2017
35	Caracterizarea compuşilor bioactivi cu stuctură polifenolică din fructele de Sambucus nigra recoltate din Grădina Botanică Galaţi,	LUPOAE Paul, LUPOAE Mariana, DINICĂ Rodica, GRECU Mariana Cristache	SESIUNEA DE COMUNICĂRI ȘTIINȚIFICE „D. BRANDZA" Ediția a XXIII-a București, 4 noiembrie 2017
36	*Physicochemical Caracteristics of Germinated Soryz*,	Giorgiana V. Blaga (Costea), Andreea- V. Dediu (Botezatu), Rodica Dinică, Camelia Vizireanu,	8th International EuroAliment Symposium, Galati, Romania 7 – 8 September, 2017

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37	*Characterization of Aqueous Extracts from Sea Buckthorn (Hippophae rhamnoides*	Ana Scurtu, Geanina Ghenea, Daniela I. Istrati, Rodica Dinica, Camelia Vizireanu,	8th International EuroAliment Symposium, Galati, Romania 7 – 8 September, 2017
38	*Influence of Water Extraction Temperature on Phenolic Content, Flavonoids and Antioxidant Activity of Rose Hip (Rosa canina) Fruits,*	Geanina Ghenea, Ana Scurtu, Daniela I. Istrati, Rodica Dinica, Camelia Vizireanu,	8th International EuroAliment Symposium, Galati, Romania 7 – 8 September, 2017
39	The Prevention of Hemp Oil Oxidation by Using Natural Antioxidants	Simona Patriche, Cristina N. Preda, Nela C. Grigore (Moraru), Andreea V. Dediu (Botezatu), Rodica M. Dinică	, 8th International EuroAliment Symposium, Galati, Romania 7 – 8 September, 2017
40	Proteolytic Activity of Natural Fruit Juices and Commercial Enzymes,	Ioana O. Ghinea, Mihaela Cudălbeanu, Gianina Niculiță, Rodica M. Dinica	8th International EuroAliment Symposium, Galati, Romania 7 – 8 September, 2017
41	Physico-Chemical and Biochemical Studies on Palm Oil Used for Frying-1. Effects of Frying Cycles,	Andreea Dediu (Botezatu), Romică I. Creţu, Rodica M. Dinică	8th International EuroAliment Symposium, Galati, Romania 7 – 8 September, 2017
42	Physico-Chemical and Biochemical Research on Palm Oil Used for Frying-2. Assessment of This Oil Impact on Cucurbita Pepo Species During Its Growth and Development,	Mihaela S. Cudălbeanu, Romică I. Creţu, Rodica M. Dinică,	8th International EuroAliment Symposium, Galati, Romania 7 – 8 September, 2017
43	Fluorescent Dyes: Design and Applications, SCIENTIFIC -9 th of June 2017	Rodica - Mihaela Dinică	CONFERENCE OF DOCTORAL SCHOOLS – Perspectives and challenges in doctoral research, SCDS-UDJG 2017 The Fifth Edition GALAȚI, 8 th
44	Kinetic and Electrochemical Study of Heterocyclic bisIndolizine Derivatives,	Andreea Veronica Dediu, Iuliana Golomoz, Rodica Mihaela Dinică, Geta Cârâc,	SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS – Perspectives and challenges in doctoral research, SCDS-UDJG 2017 The Fifth Edition GALAȚI, 8 th -9 th of June 2017

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45	The Synthesis of Some Indolizine Compounds with Bioactive Properties Using Classic and Unconventional Methods,	Andreea Veronica Dediu (Botezatu), Rodica Mihaela Dinică	SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS – Perspectives and challenges in doctoral research, SCDS-UDJG 2017 The Fifth Edition GALAŢI, 8 th -9 th of June 2017
46	The Antioxidant Activity Analysis of the Nymphaea alba Extracts from the Danube Delta Biosphere Reserve	Mihaela Cudălbeanu, Adrian Burada, Cosmin Spiridon, Rodica - Mihaela Dinică	, SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS – Perspectives and challenges in doctoral research, SCDS-UDJG 2017 The Fifth Edition GALAŢI, 8 th -9 th of June 2017
47	Phytochemical Screening, Antimicrobial and Cytotoxicity Activities of Parkia biglobosa (Jacq) benth Extracts from Benin,	Dah Nouvlessounon Mèdéhouékon Marius Durand, Mihaela Cudălbeanu, Rodica Mihaela Dinică	SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS – Perspectives and challenges in doctoral research, SCDS-UDJG 2017 The Fifth Edition GALAŢI, 8 th -9 th of June 2017
48	Chemical Screening of Crude Extracts from Trichoderma sp. and Potential Antimicrobial Activities against Phytophthora colocasiae, the Causative Agent of Taro Leaf Blight,	Moïse Ntah à Ayong, Mihaela Cudălbeanu, Séverin Nguemezi Tchameni, Lambert Modeste Sameza, Jean Duplex WansI, Rodica Mihaela Dinică	SCIENTIFIC CONFERENCE OF DOCTORAL SCHOOLS – Perspectives and challenges in doctoral research, SCDS-UDJG 2017 The Fifth Edition GALAŢI, 8 th -9 th of June 2017
49	La nutrition pendant la grossesse- un facteur clé dans le déterminisme de la santé foetale et son prédisposition a certaines maladies non-génétique,	Mariana Stuparu-Crețu, Camelia Buşilă, Rodica Dinică.	Colloque international Les Territoires de la Santé:Production agroalimentaire, Nutrition, Sécurité alimentaire-PANSaTS*, Timișoara
50	Nanostructured biosensor based on L-amino acid oxidase immobilized onto carboxylated multiwalled carbon nanotubes/Prussian Blue hybrid film with applications in pharmaceutics	C. Apetrei, I.M. Apetrei	EuroNanoForum 2017, 21 - 23 June 2017, Valletta, Malta, poster. http://www.b2fair.com/Catalogue/ENF2017/Catalogue/Catalogue http://euronanoforum2017.eu/poster-abstracts/ (055)
51	Amperometric biosensor based on graphene/ferrocene carboxylic acid/L-	C. Apetrei, I.M. Apetrei	The 3rd International Conference New Trends on Sensing-Monitoring-Telediagnosis for Life Sciences 2017, Bucharest,

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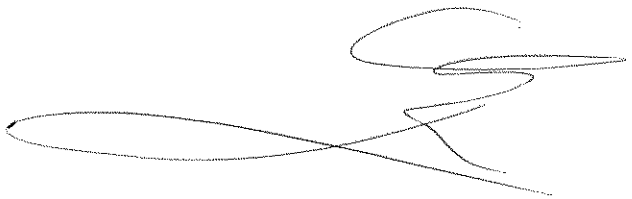
	amino acid oxidase nanocomposite for the detection of L-alanine		Romania - September 7-9, 2017, oral presentation. http://www.healthfoodenviron.unitbv.ro/2017/ Abstract published in: Journal of Medicine and Life, Vol. 10, Special Issue second edition, 2017, page 17, ISSN 1844-122x
52	Determinarea falsificarii uleiului de ricin	Brinca Alina, Maghinici Ana-Raluca, Patruta Cristina-Andreea, Constantin Apetrei	Sesiunea Națională de Comunicări Ştiinţifice Studenţeşti „INGINERIA – PROFESIA VIITORULUI", ediția I SNCSS BACĂU- 2017, EDITURA "ALMA MATER" BACĂU, 2017, page 72
53	Studiul spectrofotometric al unor coloranţi din produse alimentare	Costache Mădălina, Nedelcu Valentina, Polodeanu Luminița, Melinte Gabriela, Constantin Apetrei	Sesiunea Națională de Comunicări Ştiinţifice Studenţeşti „INGINERIA – PROFESIA VIITORULUI", ediția I SNCSS BACĂU- 2017, EDITURA "ALMA MATER" BACĂU, 2017, page 73
54	Synthesis and characterization of a pyridyl-based copper(II) thiocyanate coordination polymer	Mirela Cătălina Stan, Silvia Noapteș, Constantin Apetrei, Aurel Tăbăcaru	XIVth International Conference Students for Students, 25th-30th April 2017, Cluj Napoca



Anexa 8.1.7
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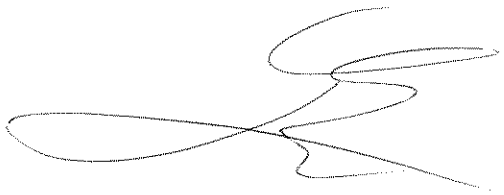
Anexa 8.1.7. Brevete de invenţie (solicitate / acordate)

Nr. crt.	Numele si prenumele autorilor	Denumirea brevetului
1.	Andrei Gabriel, Cîrciumaru Adrian, Dima Dumitru, Murărescu Monica	Compozit polimeric, multifuncţional, cu arhitectură multistrat, RO 128729 B1, 30.10.2017
2.	Dima Dumitru, Murărescu Monica, Andrei Gabriel, Cîrciumaru Adrian	Procedeu de obţinere a materialelor compozite polimerice cu nanotuburi de carbon prin dispersie succesivă mecanică, ultrasonică şi magnetică, RO 127396 B1, 29.09.2017
3.	Cîrciumaru Adrian, Andrei Gabriel, Dima Dumitru, Murărescu Monica	Matrice epoxidică, aditivată cu nanotuburi de carbon şi amidon, RO 128730 B1, 30.05.2017.
4.	GURAU G; GEORGESCU P L; CANANAU N; ITICESCU C; GURAU M C	*Metoda de utilizare a namolurilor de epurare a apelor uzate in procesul de obtinere a fontei* Brevet de inventie nr. 129647 (30.08.2017)



Anexa 8.1.8
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Anexa 8.1.8. Citări în sistemul ISI ale lucrărilor de cercetare/ brevete

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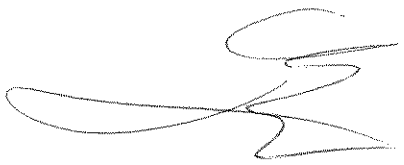

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Anexa 8.2. Teze de doctorat finalizate și în derulare

Nr. crt.	Domeniul de doctorat	Nume si prenume doctorand	Nume si prenume conducator de doctorat	Titlul tezei de doctorat	Observatii (anul inscrieri la doctorat, stadiul)
1.	Chimie	Cudălbeanu Mihaela	Prof. dr. abilitat Dinică Rodica Mihaela	Studiul unor compusi chimici importanti prezenti in plante acvatice/ecosisteme acvatice provenind din rezervatii naturale	2016, anul II
2.	Chimie	Dediu (Botezatu) Andreea - Veronica	Prof. dr. abilitat Dinică Rodica Mihaela	Obţinerea şi caracterizarea unor compuşi heteroaromatici cu proprietăţi bioactive utilizând metode clasice sau aparţinând chimiei verzi	2016, anul II
3.	Chimie	Bălănescu Fănică	Prof. dr. abilitat Dinică Rodica Mihaela	Separarea si caracterizarea unor compusi izolati din plante cu proprietati bioactive –Alternative antimicrobiene	2017, anul I

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4.	Chimie	Cazanevscaia E. Anna	Prof. dr. abilitat Dinică Rodica Mihaela	Compusi chimici importanti prezenti in germenii proveniti din plante cu continut ridicat de fitohormoni	2017, anul I
5.	**Chimie**	Dinu Ancuţa	Apetrei Constantin	Realizarea unor noi senzori pe baza de polimeri conductori si polimeri imprimati molecular pentru detectarea unor markeri de calitate si autenticitate	2017
6.	**Chimie**	Gunache (Roşca) Ramona Oana	Apetrei Constantin	Realizarea unor noi senzori si biosenzori electrochimici cu aplicabilitate in controlul produselor farmaceutice	2017
7.	Inginerie industrială	ROȘU ADRIAN	Prof.dr.ing. Puiu-Lucian GEORGESCU	Utilizarea tehnicii spectroscopiei optice de absorbție diferențială în cuantificarea poluării atmosferice cu dioxid de azot (Nu este cerere de schimbarea titlului)	2014, Anul IV taxa. Este in procedura de susținere publică a tezei
8.	Inginerie industrială	ARSENI MAXIM	Prof.dr.ing. Puiu-Lucian GEORGESCU	Tehnici moderne GIS pentru determinarea riscurilor teritoriale	2014, Anul IV taxa A sustinut public la data de 21.04.2018
9.	Inginerie industrială	LEFTER DĂNUȚ	Prof.dr.ing. Puiu-Lucian GEORGESCU	Monitorizare în	2014, Anul IV taxa, nu are prelungire

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				prognoza pe soluri poluate	facuta
10.	Inginerie industrială	NICOLAE ALINA-FLORINA	Prof.dr.ing. Puiu-Lucian GEORGESCU	Impactul antropic asupra componentelor ecosistemelor acvatice specifice Dunării	2014, Anul IV taxa
11.	Inginerie industrială	BRATFANOF EDWARD	Prof.dr.ing. Puiu-Lucian GEORGESCU	Elemente de impact multiplu asupra ecosistemelor din sectorul inferior al Dunării	2015, Anul III-buget
12.	Inginerie industrială	NICOLOV VIOLETA (PINTILIE)	Prof.dr.ing. Puiu-Lucian GEORGESCU	Studii privind expunerea populației la radiații ionizante	2015, Anul III-buget
13,	Inginerie industrială	ZAMFIR ADRIAN-ȘTEFAN	Prof.dr.ing. Puiu-Lucian GEORGESCU	Dunărea și conectivitățile spațiale. Studiu multicriterial (titlul inițial din Anexa 1) Impactul antropic asupra componentelor ecosistemelor acvatice specifice Dunării (Titlul actual din A2) Trebuie făcută cerere de schimbarea titlului.	2015, Anul III-buget
14.	Inginerie industrială	SPIRIDON COSMIN	Prof.dr.ing. Puiu-Lucian GEORGESCU	Presiunile antropice asupra elementelor biogene in ecosistemele acvatice	2016, Anul II-buget
15.	Inginerie industrială	HAHUIE VALENTIN	Prof.dr.ing. Puiu-Lucian GEORGESCU	Metode moderne de monitorizare a	2012. A susținut teza si a fost confirmat in

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				ecosistemelor forestiere pentru evaluarea nivelului de sănătate	2017
16.	Inginerie industrială	BĂNESCU ALEXANDRU	Prof.dr.ing. Puiu-Lucian GEORGESCU	Studii privind riscul la inundații în Delta Dunării	2017, Anul I-buget
17.	Inginerie industrială	DRAGU MIHAI-DANIEL	Prof.dr.ing. Puiu-Lucian GEORGESCU	Contribuții la optimizarea proiectării și construcției UAV-urilor cu regim mixt de zbor	2017, Anul I-buget