

ACADEMIA ROMÂNĂ



INSTITUTUL DE CHIMIE „CORIOLAN DRĂGULESCU”

Bd. Mihai Viteazu, nr. 24, RO-300223, Timișoara,
România

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Vizat

DIRECTOR,

Dr. OTILIA COSTIȘOR

RAPORT DE ACTIVITATE 2023

ȘTIINȚE EXACTE – CHIMIE

1. Date de identificare institut/centru

- 1.1. Denumire: **Institutul de Chimie « Coriolan Dragulescu »**
- 1.2. Statut juridic: institutie publica cu personalitate juridica
- 1.3. Act de înființare: HG. 1366/2001
- 1.4. Număr de înregistrare în Registrul Potențialilor Contractorilor: **I-AR 3216**
- 1.5. Director general/Director: **Dr. Otilia Costisor**
- 1.6. Adresă: 300223-Timisoara, Bul. Mihai Viteazul, 24
- 1.7. Telefon, fax, pagină web, e-mail: **0256 491818; 0256 491824**
<http://acad-icht.tm.edu.ro>
E-mail: ocostisor@acad-icht.tm.edu.ro

2. Domeniu de specialitate

- 2.1. Conform clasificării UNESCO: **2303 - 07**
- 2.2. Conform clasificării CAEN: **7219**

3. Domenii de cercetare – programe: 4

Programul de cercetare 1. Proiectarea moleculară asistată de calculator.

Programul de cercetare 2. Contributii la chimia compusilor organici, element-organici si polimerici continand F, N, P, S. Sinteza, caracterizare, aplicatii.

Programul de cercetare 3. Chimia și aplicațiile compușilor tetrapirolici din clasa porfirinelor.

Programul de cercetare 4. Compuși anorganici și hibrizi cu relevanță în știința materialelor nanostructurate. Precursori pentru materiale avansate.

4. Resurse umane (centralizator secție): **Anexa 1.**
5. Publicații în anul 2023 (centralizator secție): **Anexa 2.**
6. Proiecte de cercetare 2023 – competiții naționale - **3**, competiții internaționale – **2**, programe operaționale europene – **1**, acorduri bilaterale AR – **2 (Anexa 3).**
7. Infrastructură de cercetare nouă achiziționată/completată în anul 2023: 56193 lei - investiții din venituri proprii și 34.365.741,00 lei - investiții din buget proiect RO-OPENSREEN
8. Rezultatele cercetării desfășurate în anul 2023 (**Anexele 4-13).**
9. Realizări excelente obținute în anul 2023 (minim 3 realizări), ale Institutului:
 - Cărți (opere fundamentale): -
 - Lucrări științifice (publicate în reviste cu factor de impact ridicat):
 1. Avram S., Halip L., Curpan R., Oprea T. I.
Novel Drug Targets in 2022.
Nat. Rev. Drug Discov. 22, 437, 2023
FI = 120.1
 2. Wang Y., Li Y.X., Cseh L., Chen Y.X., Yang S.G., Zeng X.B., Liu F., Hu W.B., Ungar G.
Enantiomers Self-Sort into Separate Counter-Twisted Ribbons of the Fddd Liquid Crystal Antiferrochirality and Parachirality
J. Am. Chem. Soc., 45(31), 17443-17460, 2023
FI = 15.0
 3. Avram S., Wilson T.B., Curpan R., Halip L., Borota A., Bora A., Bologa C.G., Holmes J., Knockel J., Yang J.J., Oprea T.I.
DrugCentral 2023 extends human clinical data and integrates veterinary drugs.
Nucleic Acids Res. 51(D1), D1276-D1287, 2023
FI = 14.9
 4. Conte G., Simari C., Putz A.-M., Bonaventura C.P., Porto M., Desiderio G., Agostino R.G., Policicchio A.
Hydrogen Storage and Mobility Determined By NMR To Various Organically Functionalized Porous Silica Synthesized by using the Post-Grafting Method.
Int. J. Hyd. Energy, 48(70), 27319-27329, 2023
FI = 7.2
 - Alte realizări pe care le considerați excelente:
 - a. **Proiect:** POC/448/1/1/Mari infrastructuri de CD, Cod MySMIS 127952, nr. contract 371/20.07.2020
Titlul proiectului: ICT - Centru interdisciplinar de specializare inteligentă în domeniul chimiei biologice RO-OPENSREEN”
Director de proiect: Dr. Liliana Cseh
Valoare totală contract: 42 459 595,61 RON
Buget pentru anul 2023: 36193340.00 lei
Durata contractului: 20.07.2020 - 31.12.2023
 - b. **Proiect:** 5U24CA224370-02, Contract: 3RDZ5
Titlul proiectului: Knowledge Management Center for Illuminating the Druggable Genome.

Director proiect: Dr. Sorin Avram
Valoare totală proiect: 1.263.790 lei / ~ 291480 USD
Buget ICT 2023: 251302.23 lei (~ 55389.52 USD)
Durata contractului: 01.1.2019 - 31.12.2023.

10. Premii internaționale/naționale, ale Academiei Române obținute de către cercetători (premiul, autori, lucrări premiate) – 2 premii internaționale (**anexa 6**)
11. Cooperări științifice naționale și internaționale, inclusiv în cadrul proiectelor- 39 (**anexa 10**)
12. Conferințe (simpozioane)/manifestări științifice organizate de institut - 3 (**anexa 8**)
13. Alte rezultate (dacă este cazul) - (**anexa 13**).

- Concluzii și propuneri.

Concluzii:

1. S-a continuat:
 - armonizarea programelor de cercetare cu tendințele în domeniu pe plan național și internațional.
 - susținerea tinerilor specialiști în formare prin doctorate.
2. Prin câștigarea proiectului de infrastructură cu titlul "*ICT - Centru interdisciplinar de specializare inteligentă în domeniul chimiei biologice RO-OPENSREEN*", contract nr. 371/20.07.2020, s-au reabilitat 2 obiective de pe platforma Fagului și dezvoltat infrastructura existentă prin achiziția de echipamente și instrumente de cercetare de înaltă performanță aliniate la standardele de cercetare internațională.

Propunere:

1. Deblocarea de fonduri pentru neutralizarea substantelor toxice și menținerea în stare de conservare a obiectivelor de pe Platforma Fagului, exceptând cele în curs de reabilitare prin proiectul de infrastructură.

* Sunteți rugați să prezentați materialele redactate concis, fără date de importanță minoră.

CUPRINS

<i>Raport privind activitatea Institutului de Chimie "Coriolan Drăgulescu" pentru anul 2023</i>		i-iii
	Anexe	Pag.
1	Resurse umane 2023 (centralizator secție)	1-1
2	Publicatii în anul 2023(centralizator secție)	2-2
3	Proiecte de cercetare	3-4
4	Articol publicat într-o revistă ISI din străinătate	5-8
5	Articol publicat într-o revistă CNCSIS (B+) sau indexată într-o bază internațională de date (BDI) – Anexa 5	9-9
6	Premiu (distincție) al unei societăți științifice internationale obținut printr-un proces de selecție	10-10
7	Citări conform <i>Web of Science</i> ((<i>Thomson Reuters</i>))	11-108
8	O manifestare științifică (congres, conferință, simpozion, workshop) internațională sau școală de vară organizată de institut	109-109
9	O conferinta invitata prezentata la o manifestare stiintifica internationala	110-110
10	Cooperari Stiintifice	111-112
11	Membrii in colectivul de redactie al unei reviste international - nationale	113-115
12	Brevet aplicat	116-116
13	Alte rezultate	117-121

RESURSE UMANE 2023

Nr. crt.	Institut/Centru	Număr cercetători	Conducători doctorat	Doctoranzi	Postdoctoranzi
1	INSTITUTUL DE CHIMIE "CORIOLAN DRAGULESCU"	45 30 atestați	Dr. Otilia COSTISOR	Drd. Maria Andreea NISTOR <i>Teza de doctorat susținută public în data de 12.09.2023</i>	
			Dr. Eugenia Lenuta FAGADAR-COSMA	Drd. Ion FRATILESCU	
				Drd. Camelia EPURAN	
			Dr. Liliana CSEH	Drd. Bogdan Ionut MARA	
			Dr. Elisabeta-Ildyko SZERB	Drd. Evelyn POPA	
				Drd. Alexandru VISAN	
TOTAL		45	4	6	0

PUBLICATII ÎN ANUL 2023

Nr. crt.	Institut/Centru	Nr. articole publicate			Nr. cărți		Nr. capitole cărți (exclusiv Proceedings)		Nr. proceedings		Nr. rapoarte de interes public	Nr. citări ale lucrărilor anterioare în 2022	Nr. premii și distincții		Nr. manifestări științifice		Nr. membri în Editorial Boards reviste ISI		Nr. brevete de invenții
		Reviste ISI EXTERN	Reviste ISI RO	Reviste non ISI AR	EXTERN	RO	EXTERN	RO	Editor	Lucrare			EXTERN	RO	Interna-ționale	RO	EXTERN	RO	
1	INSTITUTUL DE CHIMIE "CORIOLAN DRĂGULESCU"	32	2	2	0	0	0	0	0	2	0	861	2	0	3		27	2	2

PROIECTE DE CERCETARE 2023

Categorii	Finanțator	Denumire proiect	Perioadă	Valoare totală	Valoare aferentă institutului/centrului în 2023
1. Competiții naționale					
PN-III-P4-ID-PCE-2020-1958; nr. contract PCE 48/2021	UEFISCDI	Nanorețele avansate hibride auto-organizate cu poziții inter-nanoelectrozi controlabile pentru detecție ultrasensibilă în aplicații medicale (SHIN-PULS)	01.01.2021- 31.12.2023	1.198.032,00 lei	358.268,56 lei
PN-III-P1-1.1-PD-2021-0427; nr. contract PD 21/11.04.2022	UEFISCDI	Nanoplatforme luminescente hibride organice-anorganice cu arhitectură supramoleculară, solubile în apă, ca agenți de tip theranostic	01.04.2022 – 31.03.2024	248.072,00 lei	143.541,15 lei
PN-III-P4-PCE-2021-0089; nr. contract PCE 24/2022	UEFISCDI	Rețele metal organice: de la sinteza verde la aplicatii prietenoase cu mediul inconjurator	25.05.2022-31.12.2024	1.200.000,00 lei	524.140,00 lei
	TOTAL			2.646.104,00 lei	1.025.949,71 lei
2. Competiții internaționale					
Cod proiect NIH: 5U24CA224370-02, cod proiect ICT: 3RDZ5	National Institute of Health (NIH), SUA	Knowledge management center for illuminating the druggable genome	01.01.2019-31.12.2023	1.366.764,00 lei	251.302,20 lei
H2020 - INFRADEV- 03 2018-2019: Grant agreement nr. 823893	Uniunea Europeana	Ensuring long-term sustainability of excellence in chemical biology within Europe and beyond - EU-OPENSSCREEN-DRIVE	2018-2023	14375 Euro	21.626,75 lei
	TOTAL				272.928,95 lei
3. Programe operaționale europene					
POC/448/1/1/Mari infrastructuri de CD: Cod SMIS: 127952; nr. contract 371/20.07.2020	AMPOC/OIC	ICT – Centru interdisciplinar de specializare inteligentă în domeniul chimiei biologice, RO-OPENSSCREEN	20.07.2020-31.12.2023	42.587.899,61 lei	36.193.340,00 lei
	TOTAL			42.587.899,61 lei	36.193.340,00 lei
4. Granturi AR					
-		-	-	-	-
	TOTAL		-		
5. Acorduri bilaterale AR					

Proiect comun de cercetare Academia Română - Institutul de Morfologie, Patologie si Antropologie Experimentală si Muzeu al Academiei Bulgare de Stiinte din Sofia	AR-Academia Bulgara de Stiinte	Cancer therapy: searching for new potential drugs	2022-2025	0	0
Proiect de colaborare bilaterală România-Ungaria	AR-Academia Ungara de Stiinte	Preparation and applications of functionalized mesoporous silica	2019-2023	0	0
	TOTAL			0	0
6. Comenzi instituționale/economice					
Raport cercetare nr. 3070 / 29.11.2022	Institutul Național de Cercetare-Dezvoltare în Sudură și Încercări de Materiale, Timișoara	Servicii de evaluare/analizare îmbinări sudate din punct de vedere al coroziunii suprafețelor	2022	3.250,00 lei	3.250,00 lei
	TOTAL			3.250,00 lei	3.250,00 lei

Anexa 4

Un articol publicat într-o revistă cotate de *Web of Science* (Thomson Reuters)

Factorul de impact total (FI) / nr. de cercetători acreditați: 278.78 / 30 = 9.29

Nr. Crt.	Articol	Factor de impact conform <i>Web of Science</i> (Thomson Reuters)
1.	Nitu S., Milea M.S., Boran S., Mosoarca G., Zamfir A.D., Popa S., Funar-Timofei S. Experimental and Computational Study of Novel Pyrazole Azo Dyes as Colored Materials for Light Color Paints. <i>Materials</i> , 15, 5507, 2022 (neraportata 2022)	3.4
2.	Avram S., Halip L., Curpan R., Oprea T.I. Novel drug targets in 2022 <i>Nat. Rev. Drug Discov.</i> , 22, 437, 2023	120.1
3.	Avram S., Wilson T.B., Curpan R., Halip L., Borota A., Bora A., Bologa C.G., Holmes J., Knockel J., Yang J.J., Oprea T.I. DrugCentral 2023 extends human clinical data and integrates veterinary drugs. <i>Nucleic Acids Res.</i> 51(D1), D1276-D1287, 2023	14.9
4.	Halip L., Avram S., Curpan R., Borota A., Bora A., Bologa C., Oprea T.I. Exploring Drugcentral: From Molecular Structures To Clinical Effects <i>J. Comp-Aid. Mol. Design</i> , 37, 681-694, 2023	4.179
5.	Istrate D., Crisan L. Dipeptidyl Peptidase 4 Inhibitors In Type 2 Diabetes Mellitus Management: Pharmacophore Virtual Screening, Molecular Docking, Pharmacokinetic Evaluations, And Conceptual DFT analysis. <i>Processes</i> , 11(11), 3100, 2023	3.5
6.	Pacureanu L., Bora A., Crisan L. New Insights on the Activity and Selectivity of MAO-B Inhibitors Through in Silico Methods. <i>Int. J. Mol. Sci.</i> , 24(11), 9583, 2023	5.6
7.	Popa A., Cochei L., Lupa L., Pop A., Visa A. β-Phosphonated Glycine Pendant Groups Grafted on Styrene-6.7% Divinylbenzene Copolymers: Synthesis and Their Application as Photocatalysts. <i>Appl. Sci.</i> , 13, 2025, 2023	2.7
8.	Dobos A. M., Popa A., Rimbu C. M., Filimon A. Structure-Bioactivity Relationship of the Functionalized Polysulfone with Triethylphosphonium Pendant Groups: Perspective for Biomedical Applications. <i>Polymers</i> , 15, 877, 2023	5
9.	Nichita I., Visa A., Maranescu B., Lupa L., Popa A. Synthesis and Characterization of Modified Chitosan with Aminophosphonic Groups and Zn(II) Ions and Assessment as Potential Antibacterial Adsorbent.	0.8

	<i>Mater. Plast.</i>, 59(4), 125-134, 2022 (neraportata in 2022)	
10.	Ilia G., Simulescu V., Plesu N., Chiriac V., Merghes P. Wittig and Wittig–Horner Reactions under Sonication Conditions <i>Molecules.</i>, 4(28), 1958, 2023	4.6
11.	Plesu N., Macarie L., Tara-Lunga Mihali M., Maranescu B. Visa A., Jurcau D. Polyester-Based Coatings with a Metal Organic Framework: An Experimental Study for Corrosion Protection <i>J. Compos. Sci.</i>, 7(10), 422, 2023	3.3
12.	Muntean S.G., Halip L., Nistor M.A., Păcurariu C. Removal of Metal Ions Via Adsorption Using Carbon Magnetic Nanocomposites: Optimization Through Response Surface Methodology, Kinetic and Thermodynamic Studies. <i>Magnetochemistry</i>, 9, 163, 2023	2.7
13.	Muntean S.G., Nistor M.A., Nastas R., Petuhov O. Dyes And Heavy Metals Removal From Aqueous Solutions Using Raw and Modified Diatomite <i>Processes</i>, 11(8), 2245, 2023	3.5
14.	Sumalan R.L., Nescu V., Berbecea A., Sumalan R.M., Crisan M., Negrea P., Ciulca S. The Impact of Heavy Metal Accumulation on Some Physiological Parameters in <i>Silphium perfoliatum</i> L. Plants Grown in Hydroponic Systems. <i>Plants (Basel)</i>, 12(8), 1718, 2023	4.5
15.	Moșoarca G., Vancea C., Popa S., Boran S., Negrea P., Rădulescu-Grad M.E., Studies Regarding Copper Ions Removal from Wastewaters using Oak Wood Ash and the Effect of Exhausted Ash as Soil Amendment. <i>Studia UBB Chemia</i>, LXVIII, 1, 2023	0.3
16.	Birdeanu M., Fratilescu I., Epuran C., Mocanu L., Ianasi C., Lascu A., Fagadar-Cosma E. Nanomaterials Based on Collaboration with Multiple Partners: Zn ₃ Nb ₂ O ₈ Doped with Eu ³⁺ and/or Amino Substituted Porphyrin Incorporated in Silica Matrices for the Discoloration of Methyl Red <i>Int. J. Mol. Sci.</i>, 13, 8920, 2023	5.6
17.	Vlascici D., Lascu A., Fratilescu I., Anghel D., Epuran C., Birdeanu M., Chiriac V., Fagadar-Cosma E. Asymmetric Pt(II)-Porphyrin Incorporated in a PVC Ion-Selective Membrane for the Potentiometric Detection of Citrate. <i>Chemosensors</i>, 11, 108, 2023	4.2
18.	Taranu B.-O., Fagadar-Cosma E., Sfirloaga P., Poienar M. Free-Base Porphyrin Aggregates Combined with Nickel Phosphite for Enhanced Alkaline Hydrogen Evolution. <i>Energies</i>, 16, 1212, 2023	3.2
19.	Maxim F.I., Tanasa E., Mitrea B., Diac C., Skála T., Tanase L.C., Ianăși C., Ciocanea A., Antohe S., Vasile E., Fagadar-Cosma E., Stamatin S.N. Polymeric Carbon Nitrides for Photoelectrochemical Applications: Ring Opening-Induced Degradation. <i>Nanomaterials</i>, 13, 1248, 2023	5.3
20.	Lascu A., Epuran C., Fratilescu I., Birdeanu M., Halip L., Fagadar-Cosma E.	4.2

	Porphyrin Hetero-Trimer Involving a Hydrophilic and a Hydrophobic Structure with Application in the Fluorescent Detection of Toluidine Blue. <i>Chemosensors</i>, 10, 481, 2022 (neraportata 2022)	
21.	Cretu C., Popa E., Di Maio G., Candrea A., Buta I., Visan A., La Deda M., Donnio B., Szerb E.I. Bimetallic Liquid Crystal Blends Based On Structurally Related 3d-Metal Coordination Complexes <i>Chem. Commun.</i>, 59, 10616, 2023.	4.9
22.	Popa E., Andelescu A.A., Ilies S. (b. Motoc), Visan A., Cretu C., Scarpelli F., Crispini A., Manea F., Szerb E.I. Hetero-Bimetallic Ferrocene-Containing Zinc(II)-Terpyridyl-Based Metallomesogen: Structural and Electrochemical Characterization <i>Materials</i>, 16, 1946, 2023	3.4
23.	Cretu C., Nicola R., Marinescu S.-A., Piciorus E.-M., Suba M., Duda-Seiman C., Len A., Illés L., Horváth Z.E., Putz A.-M. Performance of Zr-Based Metal–Organic Framework Materials as In Vitro Systems for the Oral Delivery of Captopril and Ibuprofen. <i>Int. J. Mol. Sci.</i>, 24, 13887, 2023	5.6
24.	Baciu A., Orha C., Nicolae R., Nicolaescu M., Ilies S., Manea F. Advanced Electrochemical Degradation of Organic Pollutants from Water Using Sb-Doped SnO₂/Ti Anode and Assisted by Granular Activated Carbon <i>Coatings</i>, 13(6), 1127, 2023	3.4
25.	Negrea S., Andelescu A.A., Ilies S., Cretu C., Cseh L., Rastei M., Donnio B., Szerb E.I., Manea, F. Design of Nanostructured Hybrid Electrodes Based on a Liquid Crystalline Zn(II) Coordination Complex-Carbon Nanotubes Composition for the Specific Electrochemical Sensing of Uric Acid <i>Nanomaterials</i>, 12(23), 4215, 2022 (neraportată 2022)	5.3
26.	Mladin G., Ciopec M., Negrea A., Duteanu N., Negrea P., Svera P., Ianăși C. Selenite Removal from Aqueous Solution Using Silica-Iron Oxide Nanocomposite Adsorbents. <i>Gels</i>, 9(6), 497, 2023	4.6
27.	Vancea C., Mladin G., Ciopec M., Negrea A., Duteanu N., Negrea P., Mosoarca G., Ianăși C. Arsenic Removal Using Unconventional Material with Iron Content: Batch Adsorption and Column Study. <i>Toxics</i>, 11(10), 849, 2023	4.6
28.	Conte G., Simari C., Putz A.-M., Bonaventura C.P., Porto M., Desiderio G., Agostino R.G., Policicchio A. Hydrogen Storage and Mobility Determined By NMR To Various Organically Functionalized Porous Silica Synthetized by using the Post-Grafting Method. <i>Int. J. Hyd. Energy</i>, 48(70), 27319-27329, 2023	7.2
29.	Herman P., Pércsi D., Fodor T., Juhász L., Dudás Z., Horváth Z.E., Ryukhtin V., Putz A.-M., Kalmár J., Almásy L. Selective And High Capacity Recovery of Aqueous Ag(I) by Thiol Functionalized Mesoporous Silica Sorbent. <i>J. Mol. Liq.</i>, 387, 122598, 2023	6

30.	Wang Y., Li Y.X., Cseh L., Chen Y.X., Yang S.G., Zeng X.B., Liu F., Hu W.B., Ungar G. Enantiomers Self-Sort into Separate Counter-Twisted Ribbons of the <i>Fddd</i> Liquid Crystal Antiferrochirality and Parachirality <i>J. Am. Chem. Soc.</i> , 45(31), 17443-17460, 2023	15
31.	Borcănescu S., Popa A., Verdeş O., Suba M. Functionalized Ordered Mesoporous MCM-48 Silica: Synthesis, Characterization and Adsorbent for CO ₂ Capture <i>Int. J. Mol. Sci.</i> , 24(12), 10345, 2023	5.6
32.	Ianasi C., Svera P., Popa A., Lazau R., Negrea A., Negrea P., Duteanu N., Ciopec M., Nemes N.S. Adsorbent Material Based on Carbon Black and Bismuth with Tunable Properties for Gold recovery <i>Materials</i> , 16(7), 2837, 2023	3.4
33.	Ianasi C., Pascu B., Nemes N., Popa A. Synthesis and Characterization of Amorphous SiO ₂ -Fe _x O _y Materials Starting From Iron Sulfate for Preliminary Studies of CO ₂ adsorption <i>Separations</i> , 10(6), 352, 2023	2.6
34.	Ianasi C., Nemes N., Pascu B., Lazau R., Negrea A., Negrea P., Duteanu N., Ciopec M., Plocek J., Popa A., Badescu B., Duda-Seiman D.M., Muntean D. Synthesis, Characterization and Antimicrobial Activity of Multiple Morphologies of Gold/Platinum Doped Bismuth Oxide Nanostructures <i>Int. J. Mol. Sci.</i> , 24(17), 13173, 2023	5.6
TOTAL		278.78

Anexa 5

Un articol apărut într-o revistă recunoscută de CNCS (B+) sau indexată într-o bază internațională de date (BDI)

Punctaj $1 \times (N_{ic}/N_a)$

Nr. Crt.	Articol	$1 \times (N_{ic}/N_a)$	Punctaj
1	Florea M., Matache M., Visa A. Creating Stronger Bonds-Highlights of the Visit of IUPAC President to Romania <i>Chemistry International</i> , 45(4), 46-47, 2023	$1 \times (1/3)$	0.33
2	Negrea S.-C., Diaconu L.A., Gheorghe S., Neidoni D., Motoc S.,(m. Ilies), Manea F. Simultaneous Detection of Sodium Diclofenac and Tetracycline from Aqueous Solution <i>Romanian Journal of Ecology & Environmental Chemistry (RJEEC)</i> 4(2), 118-133, 2024	$1 \times (1/4)$	0.25
TOTAL			0.58

Anexa 6

Un premiu (distincție) al unei societăți științifice internaționale obținut printr-un proces de selecție

Punctaj unitar = 10

1. Dr. AVRAM Sorin

Premiul **"Best Poster Presentation Award"** obținut printr-un proces de selecție ca urmare a participării cu posterul intitulat: *"Using chemical similarity and drug therapeutic classification to identify drug repurposing opportunities"* la conferința **1st Aristotel Conference on Chemistry (ACC2023)**, 12-15 Noiembrie **2023**, Thessaloniki, Grecia

2. Dr. FĂGĂDAR-COSMA Eugenia

Asia's Outstanding Researcher Award for excellence in: "Electrochemical behaviour and analytical applications of a manganese porphyrin – silica hybrid film prepared by pulsed laser deposition". ASTRA 2023, 1st July 2023, Grandeur Hall @Breeze Residency , Trichy, Tamil Nadu, **India**

Anexa 7

Citări conform *Web of Science* (Thomson Reuters)

$$\text{Punctaj unitar} = 861 \times 0.5 = 430.5 \text{ p}$$

- T1.** Ardelean R., Popa A., Dragan E.S., Davidescu C.M., Ignat M.
New polymeric adsorbents functionalized with aminobenzoic groups for the removal of residual antibiotics
Molecules, 27(9), 2894, **2022**,
- C1.** Wang C., Chen X., Yuan W., Zhou M.
Macroporous polyHIPE modified with beta-cyclodextrin for the removal of bisphenol A from water
New J. Chem., 4(24), 11643-11650, **2023**,
- T2.** Popa A., Visa A., Maranescu B., Hulka I., Lupa L.
Chemical modification of chitosan for removal of Pb(II) ions from aqueous solutions
Materials, 14(24), 7894, **2021**
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- C845.** Kumar N., Banerjee A.M., Pai M., Meena S.S., Patra A.K., Sastry P.U., Jagannath A.K., Tripathi A.K.
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- C846.** Slimani S., Talone A., Abdolrahimi M., Imperatori P., Barucca G., Fiorani D., Peddis D.
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- T316.** Popa A., Plesu N., Sasca V., Kis E.E., Marinkovic-Neducin R.
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***J. Optoelectron. Adv. Mater.* 8(5), 1944-1950, 2006**
- C847.** Ali A.A.Q., Siddiqui Z.N.
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- C848.** Stejskal J., Jurca M., Vilčáková J., Trchová M., Kolská Z., Prokes J.
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- electromagnetic interference shielding
***Mater. Chem. Phys.* 293, 126907, 2023**
- T317.** Popa A., Sasca V., Kis E.E., Marinkovic-Nedun R., Bokorov MT., Halasz J.
 Structure and texture of some Keggin type heteropolyacids supported on silica and titania
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- C849.** da Silva M.J., Rodrigues A.A., Lopes N.P.G.
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- C850.** Zhao X.D., Guo L.Y., Xu T.J., Zheng R.R., Wang H.Y.
 Preparation of Keggin-type monosubstituted polyoxometalate ionic liquid catalysts and their application in catalyzing the coupling reaction of ethylene carbonate and dimethyl succinate to synthesize poly(ethylene succinate)
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- T318.** Sasca V., Stefanescu M., Popa A.
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- C851.** Petrehele A.I.G., Duteanu N., Morgovan M.C., Filip S.M., Ciocan S., Marian E.
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- T319.** Ardit M., Borcanescu S., Cruciani G., Dondi M., Lazau I., Pacurariu C., Zanelli C.
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 Atomic-scale characterization of the oxidation state of Ti in meteoritic hibonite: Implications for early solar system thermodynamics
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- C853.** Rus I., Ianos R., Lazau R., Pacurariu C.
 New blue pigments based on Col plus and Las plus doped hibonite for NIR-reflective coatings
***Mater. Today Chem.* 28, 101391, 2023**
- T320.** Ianoş R., Borcănescu S., Lazău R.
 Large surface area $ZnAl_2O_4$ powders prepared by a modified combustion technique, ***Chem. Eng. J.* 240, 260–263, 2014**
- C854.** Podder M., Ahmed M.F., Moni M.R., Rahman M.L., Biswas B., Sharmin N.
 Effect of metal ions on structural, morphological and optical properties of nano-crystallite spinel cobalt-aluminate ($CoAl_2O_4$)
***Arab. J. Chem.* 16(5), 104700, 2023**
- C855.** Gildo-Ortiz L., Rodriguez-Betancourt V.M., Ortega J.A.R., Blanco-Alonso O.
 An alternative approach for the synthesis of zinc aluminate nanoparticles for CO and propane sensing applications
***Chemosensors* 11(2), 105, 2023**

- C856.** Song L.X., Wang H., Wang S., Qu Z.P.
Dual-site activation of H₂ over Cu/ZnAl₂O₄ boosting CO₂ hydrogenation to methanol
Appl. Catal., B 322, 122137, **2023**
- C857.** Tangcharoen T.
Influence of non-magnetic ions doping on structural, morphological, optical, and magnetic properties of nanocrystalline zinc oxide powders
Physica B: Condens. Matter. 663, 415010, **2023**
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Cu/ZnAl₂O₄ catalysts prepared by ammonia evaporation method: Improving methanol selectivity in CO₂ hydrogenation via regulation of metal-support interaction
J. Chem. Eng. 469, 144008, **2023**
- T321.** Ianoş R., Lazău R., Babuta R., Borcănescu S., Boruntea C.R.
Nanocrystalline BaAl₂O₄ powders prepared by aqueous combustion synthesis
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- C859.** Hussain S., Sharma M., Sharma V., Brahmane S., Sabiruddin K.
Effect of Ni-5Al Addition on the Properties of BaAl₂O₄-Based Coating Deposited with a Novel Explosive Spray Coating Technique
J. Therm. Spray Technol. 32(1), 135–151, **2023**
- C860.** Brahmane S., Hussain S., Sabiruddin K.
Effect of Al content in the pyrotechnic mixture on the properties of the BaAl₂O₄-based composite coating deposited on steel by a novel explosive spray technique
Mater. Chem. Phys. 309, 128385, **2023**
- T322.** Ianoşev (Borcănescu) S., Lazău R., Suba M., Pacurariu C., Lazău I.,
Synthesis and characterization of some thermoresistant pigments based on the Al³⁺ → Cr³⁺ substitution
Stud. Univ. Babes-Bolyai Chem. 54(1), 189–201, **2009**
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Adv. Powder Technol. 34(8), 104102, **2023**

Anexa 8

O manifestare științifică (congres, conferință, simpozion, workshop) sau școală de vară internațională/națională organizată de institut

Nr. crt.	Criteriu	n	Punctaj unitar	Punctaj acordat
1.	O manifestare științifică (congres, conferință, simpozion) sau școală de vară internațională/națională organizată de institut	3	10	30

Nr. crt	O manifestare științifică (congres, conferință, simpozion,) sau școală de vară internațională/națională organizată de institut
1	<i>The 15th Edition of the Conference "New Trends in Chemistry Research" (NewChemRes 2023)</i> 21-22 Septembrie 2023, Timișoara, România www.newtrends-timisoara.ro/
2	EU-OPENSREEN DRIVE Workshop 2023 <i>"EU-OPENSREEN - Chemical Biology for new therapeutical strategies", H2020 INFRADEV - 3 - 2018 - 2019, 20 iunie 2023, București, Romania</i> (organizat în colaborare cu Institutul de Biochimie al Academiei Romane, București) https://acad-icht.tm.edu.ro/wp/?page_id=133
3	Conferința de promovare a proiectului "ICT -Centru interdisciplinar de specializare inteligentă în domeniul chimiei biologice, RO-OPENSREEN" 15 decembrie 2023, Timișoara, Romania (conferință cu participare internațională) https://ro-openscreen.ro/?page_id=9 https://acad-icht.tm.edu.ro/wp/?page_id=133

Anexa 9

O conferință invitată/plenară/keynote prezentată la o manifestare științifică internațională

Punctaj unitar = 10

Nr. Crt.	Conferință invitată/plenară/keynote prezentată la o manifestare științifică internațională	Punctaj
1	VISA A. (<i>invited speaker</i>) Greener Alternatives for Phosphonate Metal-Organic Frameworks Synthesis and Applications 15th Green Chemistry Postgraduate Summer School , 2-7 Iulie 2023, Venetia, Italia	10
2	VISA A. (<i>invited speaker</i>), Maranescu B., Plesu N., Lupa L. Greener Alternatives for Phosphonate Metal Organic Frameworks Synthesis. Smart Diaspora 2023 , 10-13 Aprilie 2023, Timisoara, Romania, O-26	10
3	SZERB E.-I. (<i>invited keynote speaker</i>) Metallomesogens from design to functional properties 16th European Conference on Liquid Crystals ECLC 2023 , 10-14 iulie 2023, Università della Calabria, Rende, Italia.	10
TOTAL		30

ANEXA 10

COOPERĂRI ȘTIINȚIFICE

a. SCHIMBURI INTERACADEMICE

1. **Proiect comun de cercetare Academia Română - Institutul de Morfologie, Patologie și Antropologie Experimentală și Muzeu al Academiei Bulgare de Științe din Sofia, 2022-2025**
Titlu proiect: *Cancer therapy: searching for new potential drugs*
Coordonator proiect ICT: Dr. Buta Ildiko Mariana
Coordonator proiect Bulgaria: Prof. Radostina Alexandrova
2. **Proiect de colaborare bilaterală România-Ungaria 2019-2023** (Schimburi Interacademice), în cadrul acordului încheiat între Academia Română (Institutul de Chimie Coriolan Drăgulescu, ICT) și Academia Ungară de Științe (Institute for Energy Security and Environmental Safety, Centre for Energy Research).
Titlu proiect: *Preparation and applications of functionalized mesoporous silica*
Coordonator proiect ICT: Dr. Putz Ana-Maria
Coordonator proiect IESIES: Dr. Almásy László.

b. COLABORĂRI CU UNIVERSITĂȚI ȘI INSTITUTE INTERNAȚIONALE: 26

- University of Sheffield, UK - Prof. Ungar G., Dr. Xianbing Zeng
- Xi'an Jiaotong University, R.P. China - Prof. Goran Ungar și Prof. Feng Liu
- NOVA School of Science and Technology, Photochemistry and Supramolecular Chemistry Research Group, Lisbona, Portugalia – Prof. Jorge Parola
- University of Szeged, Ungaria - Dr. Andras Erdohelyi, Prof. Dr. Zoltan Konya
- Toyo University, Natural Science Laboratory, Toyo University, Tokyo, Japonia - Prof. dr. Takahiro Suzuki
- University of Texas MD Anderson Cancer Center, USA - Prof. dr. Craig Jordan, Dr. Philipp Maximov
- University of New Mexico Health Sciences Center, Albuquerque, USA - Prof. Tudor Oprea, Dr. Cristian Bologa
- University of Crete Heraklion, Department of Chemistry, Greece – Prof. Demadis Konstantinos
- Instituto Nacional del Carbon - CSIC, Oviedo, Spania - Dr. Diaz Somoano Mercedes
- Brno University of Technology, Faculty of Chemistry, Brno, Czech Republic
- Universitatea din Malaga, Spania - Prof. dr. Cabeza Aurelio, Prof. Colodrero Rosario
- University of Crete Heraklion, Department of Chemistry, Greece – Prof. Demadis Konstantinos
- University of Wolverhampton, Prof. dr. Gary Hix
- Ca' Foscari University of Venice, Italia - Prof. Tundo Pietro, Prof. Arico Fabio
- Institutul de Fizică Aplicată-Chisinau, Moldova - Prof. Dr. Pavlina Bouros, Prof. Dr. Yurii Chumakov, Dr. Lilia Croitor
- University of Technology, Faculty of Technical Chemistry, Institute of Chemical Technologies and Analytics, Viena, Austria - Prof. Günter Faflek
- Institute of Experimental Morphology, Pathology and Anthropology with Museum, Sofia, Bulgaria - Prof. Radostina Alexandrova
- University of Belgrad, Physics Faculty/Pharmacy Faculty - Prof. Dr. Danica Bajuk-Bogdanović, Prof. dr. Snezana Uskoković–Marković
- University of Calabria, Department of Chemistry and Chemical Technologies, Italia - Prof. Crispini Alessandra, Dr. Oliviero Rossi Cesare, Dr. La Deda Massimo
- National Council of Research (CNR), Institute of nanostructured materials (ISMN), Roma, Italia - Dr. Pietro Calandra

- CNR-SCITEC, Istituto di Scienze e Tecnologie Chimiche “G. Natta”, Milano, Italia – Dr. Alessandra Forni
- CNR-ISMAL, Istituto di Scienze e Tecnologie Chimiche “G. Natta”, Milano, Italia – Dr. Salvatore Iannace, Dr. Erika Kozma
- Institut de Physique et Chimie des Matériaux de Strasbourg (IPCMS), CNRS-Université de Strasbourg, Strasbourg, Franța - Dr. Donnio Bertrand, Dr. Mircea Rastei
- National Technical University of Athens, Director of Laboratory of Electronic Sensors – Prof. Dr. Evangelos Christoforou
- NTNU- Norwegian University of Science and Technology, Trondheim, Gjøvik and Ålesund, Norway - Prof. Dr. B. Pollet
- The Fundació Institut Català d’Investigació Química, Spain – Profe. Miquel A. Pericàs

c. COLABORARI CU UNIVERSITATI SI INSTITUTE NATIONALE: 11

- Universitatea din București, Facultatea de Chimie - Prof. Marius Andruh
- Universitatea de Vest Timisoara, Conf. Dr. Paul Barvinschi, Conf. Dr. Ercuța Aurel
- Institutul de Biochimie al Academiei Române, Bucuresti - Dr. Costin-Ioan Popescu, Dr. Sorin Tunaru
- Universitatea Politehnica Timisoara, Facultatea de Chimie Industrială și Ingineria Mediului, Timisoara, Romania – Prof. Peter Francisc, Prof. Dr. Ianos Robert, Prof. Dr. Ing. Negrea Adina, Dr. Badea Valentin, Prof. Florica Manea
- Universitatea de Medicina și Farmacie "Victor Babes" Timisoara, Facultatea de Farmacie - As.Univ.Dr. Racoviceanu Roxana,
- Universitatea de Stiinte Agricole și Medicina Veterinara a Banatului „Regele Mihai I al Romaniei” din Timisoara, Facultatea de Horticultura și Silvicultura - Prof. Dr. Sumalan Radu
- Universitatea de Medicina și Farmacie “V. Babes” Timisoara - Conf. Dr. habil. Popescu Roxana, Prof. Danina Muntean
- Universitatea de Medicina și Farmacie “Iuliu Hatieganu” Cluj-Napoca, Fiziologie - Conf. Dr. Baldea Ioana
- Institutul National de Electrochimie și Materie Condensată Timisoara, Dr. Țăranu B., Dr. Birdeanu M., Dr. ing. Radu Banică, Dr.ing. Daniel Ursu
- Institutul National C&D pentru Fizica Materialelor Bucuresti-Magurele & Nano-SAE Research Centre, University of Bucharest, Bucharest-Magurele & National Institute R&D of Materials Physics Bucharest-Magurele - Dr. Lorinczi A., Dr. Cristescu R., Prof. Dr. Ioan Stamatina
- ICM „Petru Poni” Iasi, Dr. Maria Cazacu, Prof. Sergiu Shova - Dr. Ana-Maria Macsim,
- Institutul de Chimie Macromoleculară „Petru Poni”, Iasi - Dr. Alina Nicolescu, Dr. Sergiu Shova, Dr. Liviu Săcărescu, Dr. Maria Cazacu, Prof. Sergiu Shova, Dr. Ana-Maria Macsim

Anexa 11

Membru în colectivul de redacție al unei reviste naționale/internaționale (cotată de *Web of Science*, Thomson Reuters sau indexată într-o BDI) sau în colectivul editorial al unor edituri internaționale consacrate

Punctaj unitar = 20

Nr. Crt.	Membru în colectivul de redacție al unei reviste naționale/internaționale (cotată de <i>Web of Science</i> , Thomson Reuters sau indexată într-o BDI) sau în colectivul editorial al unor edituri internaționale consacrate
	<i>Colectiv redacție al unei Reviste Naționale</i>
1	Membru în colectivul editorial: Dr. Otilia Costisor <i>Rev. Roum. Chim.</i> , https://revroum.lew.ro/
2	Membru în colectivul editorial: Dr. Alina Bora (2022 – prezent) <i>Bull. Soc. Chim. Rom</i> , ISSN 2066-2971, Buletin al Societatii de Chimie din Romania www.schr.ro/publicatii/buletinul-societatii-de-chimie-din-romania/
	<i>Colectiv redacție al unei Reviste Internaționale</i>
3	Editor invitat: Dr. Borota A., Dr. Funar-Timofei S. Special Issue "In Silico Methods Applied in Drug and Pesticide Discovery", <i>Molecules</i> (FI=4.927), Journal Open Acces MDPI, section "Chemical Biology", www.mdpi.com/journal/molecules/special_issues/In_Silico_Drug_Discovery#editors .
4	Editor invitat: Dr. Crisan L. Special Issue "Synthetic and Natural Compounds with Symmetry/Asymmetry in Medicinal and Environmental Chemistry" <i>Symmetry</i> (FI=2.700), Jurnal Open Acces MDPI, section "Chemistry: Symmetry/Asymmetry" www.mdpi.com/journal/symmetry/special_issues/Natural_Compounds_Medicinal_Environmental
5	Editor invitat: Dr. Bora A., Dr. Crisan L. Special Issue "Natural Compounds Applications in Drug Discovery and Development", <i>Processes</i> (FI=3.500), Jurnal Open Acces MDPI, section "Pharmaceutical Processes" www.mdpi.com/journal/processes/special_issues/9T0L5065FV
6	Editor invitat: Dr. Fagadar-Cosma Eugenia, Dr. Vlascici D. Special Issue "Diversity in Sensing Applications of Porphyrin or Other Macrocyclic Compound-Based Materials", <i>Chemosensors</i> (FI=4.2), Jurnal Open Acces MDPI; www.mdpi.com/journal/chemosensors/special_issues/DSAPMCBM
7	Editor invitat: Dr. Fagadar-Cosma Eugenia, Dr. Birdeanu M., Dr. Man I., Dr. Stamatina S. Special Issue "Functionalized Carbon-Based Nanomaterials for Emerging Applications in Optoelectronics, Clean Energy, and Environmental Monitoring", <i>Nanomaterials</i> (FI=5.3), Jurnal Open Acces MDPI; www.mdpi.com/journal/nanomaterials/special_issues/EX626B1P2B
8	Editor invitat: Dr. Szerb Elisabeta-Ildyko, Dr. Cseh Liliana, Prof. Dr. Manea F Special Issue "New Trends in Functional and Multifunctional Advanced Materials", <i>Applied Sciences</i> (FI=2.7), Jurnal Open Acces MDPI; www.mdpi.com/journal/applsci/special_issues/New_Trends_in_Functional_and_Mult

	ifunctional Advanced Materials
9	Editor invitat: Dr. Ilieș S. (b. MOȚOC), Prof.dr. Manea F., Dr. Pop A. Special Issue "Advanced Electrochemical Sensors or Biosensors Based on Nanomaterial" Chemosensors (FI=4.2), Jurnal Open Acces MDPI; www.mdpi.com/journal/chemosensors/special_issues/9F5413JV85
10	Editor invitat: Dr. Putz A.-M., Dr. Policicchio Alfonso Special Issue "Applications of Silica and Silica-Based Composites" Chemosensors (FI=4.2), Jurnal Open Acces MDPI; www.mdpi.com/journal/chemosensors/special_issues/9F5413JV85
11	Editor invitat: Dr. Putz A.-M., Dr. Policicchio Alfonso, Dr. Alfe M., Dr. Aloise A., Dr. Barrera D. Special Issue "Advanced Nanostructured Materials for Gas Capture and Storage Applications: Challenges and Trends" Frontiers in Materials (FI = 3.985), Jurnal Open Acces MDPI; www.frontiersin.org/research-topics/54970/advanced-nanostructured-materials-for-gas-capture-and-storage-applications-challenges-and-trends
12	Editor invitat: Dr. Putz A.-M., Dr. Duda-Seiman C. Special Issue "Drug Delivery Systems: Synthesis, Characterization and Release Kinetics Modelling" Pharmaceutics (FI=5.4), Jurnal Open Acces MDPI; www.mdpi.com/journal/pharmaceutics/special_issues/P3613AQL1F
13	Editor invitat: Dr. Ianași Cătălin, Dr. Ciopec M. Special Issue "Ions Sorption Processes for Environment Purification" Processes (FI=3.352), Jurnal Open Acces MDPI; www.mdpi.com/journal/processes/special_issues/Ions_Sorption_Processes
14	Editor invitat: Dr. Popa Alexandru, Dr. Verdes Orsina Special Issue "Synthesis and Applications of Zeolites and related Porous Materials as Adsorbents and Catalysts" Molecules (FI=4.927), MDPI https://www.mdpi.com/journal/molecules/special_issues/4MY3R15325
15	Editor invitat: Dr. Borcănescu Silvana, Prof. Dr. Swiegers G., Dr. Kim M., Dr. Shin J. Special Issue "Advanced Composite Materials for Gas Adsorption and Separation" Separations (FI=2.6), MDPI https://www.mdpi.com/journal/separations/special_issues/E4U41DL0M2
16	Membru in colectivul editorial: Dr. Borota A. Molecules (FI=4.927), MDPI www.mdpi.com/journal/molecules/submission_reviewers
17	Membru in colectivul editorial: Dr. Crisan L. Molecules (FI=4.927), MDPI www.mdpi.com/journal/molecules/submission_reviewers
16	Membru in colectivul editorial: Dr. Szerb E.-I. Scientific and Technical Bulletin, Series: Chemistry, Food Science and Engineering (FI=4.927), MDPI www.uav.ro/jour/index.php/stb-cfse/about/editorialTeam
17	Membru in colectivul editorial: Dr. Popa A. Reactive and Functional Polymers (FI=4.966), Elsevier www.journals.elsevier.com/reactive-and-functional-polymers/editorial-board
18	Membru in colectivul editorial: Dr. Popa A. Polymers (FI=4.967), MDPI

	www.mdpi.com/journal/polymers
19	Membru in colectivul editorial: Dr. Eugenia Fagadar-Cosma <i>Der Chemica Sinica</i> (FI=7.9) www.imedpub.com/der-chemica-sinica/editors.php
20	Membru in colectivul editorial: Dr. Eugenia Fagadar-Cosma <i>Advances in Applied Science Research</i> (FI=3.52), Prime Scholars www.imedpub.com/advances-in-applied-science-research/editors.php
21	Membru in colectivul editorial: Dr. Eugenia Fagadar-Cosma <i>American Journal of Organic Chemistry</i> , Scientific & Academic Publishing www.sapub.org/journal/editorialdetails.aspx?JournalID=1035&PersonID=15286
22	Membru in colectivul editorial: Dr. Eugenia Fagadar-Cosma <i>New Frontiers in Chemistry</i> www.newfrontchem.iqstorm.ro/editors.php
23	Membru in colectivul editorial: Dr. Eugenia Fagadar-Cosma <i>Open Journal of Biological Sciences</i> www.peertechzpublications.com/index.php/editor/eugenia-lenuta-fagadar-cosma
24	Membru in colectivul editorial: Dr. Eugenia Fagadar-Cosma <i>Asian Journal of Physical and Chemical Sciences</i> www.journalajopacs.com/index.php/AJOPACS/eugenia-lenuta-fagadar-cosma
25	Membru in colectivul editorial: Dr. Eugenia Fagadar-Cosma <i>Journal of Solar Energy Research Updates</i> www.zealpress.com/eugenia-fagadar-ebm-jseru/
26	Membru in colectivul editorial: Dr. Eugenia Fagadar-Cosma <i>Journal of Biochemistry and Pharmacology</i> https://madridge.org/editorial_board_member/Eugenia-Lenuta-FAGADAR-COSMA
27	Membru in colectivul editorial: Dr. Eugenia Fagadar-Cosma, CSI <i>Insights in Chemistry & Biochemistry</i> https://irispublishers.com/icbc/editorialboard.php
28	Membru in colectivul editorial: Dr. Eugenia Fagadar-Cosma, CSI <i>Nanomedicine And Nanotechnology Journal</i> https://scientificliterature.org/nanomedicine-and-nanotechnology-editorial-board.html
29	Membru in colectivul editorial: Dr. Eugenia Fagadar-Cosma, CSI <i>Journal of Materials</i> , Journal Open Acces SCIREA www.scirea.org/journal/EditorialBoard?JournalID=43000#7970

Anexa 12
Un brevet aplicat

Nr. crt.	Criteriu	n	Punctaj unitar	Punctaj acordat
1.	Un brevet aplicat	la nivel internațional	0	0
		la nivel național	2	20

Nr. crt	Criteriu Un brevet aplicat la nivel național
1	RO Patent–a202200130 Birdeanu M.; Epuran C.; Frățilescu I.; Fagadar-Cosma E. Titlu: „Procedeu de obținere de inhibitori de coroziune organizați în straturi subțiri alternative de porfirine substituie cu grupări carboxil și oxid pseudo-binar de tip MnTa2O6, realizate prin tehnica PLD” Publicare: RO-BOPI 9/2023 din 29.09.2023
2	RO Patent–a202000533 Frățilescu I.; Anghel D.; Epuran C.; Ianasi C.; Fagadar-Cosma E. Titlu: „Metoda de Adsorbție a Coloranților din Ape Contaminate Utilizând Materiale Hibrice pe Bază de Silice Mezoporoasă care Încorporează Nanoparticule de Platină sau Pt(II)-tetra-(aliloxi-fenil)-porfirina” Publicare: RO-BOPI 2/2022 din 28.02.2022 (neraportat 2022)

ANEXA 13

ALTE REZULTATE 2023

CERCETĂTORI CU UN INDICE HIRSCH PESTE 8: 25

RECENZORI/REFERENȚI LA PUBLICAȚII ȘI/SAU TEZE DE DOCTORAT:

1. Recenzori/referenți pentru lucrări științifice - **19 cercetători/ 208 prezențe**
2. Referenți/președinte susținere teze de doctorat - **4 cercetători/5 prezențe**
3. Referenți evaluatori externi pentru programe ale Comisiei Europene - **4 cercetători**

TEZE DE DOCTORAT SUSȚINUTE ÎN 2023: 1

1. **Drd. NISTOR Andreea, CS** - susținere publică în data de 12.09.2023 a tezei de doctorat cu titlul *"Identificarea și caracterizarea unui sistem de adsorbție eficient pentru epurarea selectivă a apelor reziduale colorate"*, conducător științific: Dr. Otilia COSTIȘOR.

COORDONARE REȚELE NATIONALE DE CHIMIE: 1

1. **Dr. PACUREANU Liliana, CS II** - coordonator al rețelei naționale de chimie biologică: **RoChemBioNet**.

PARTICIPĂRI LA CURSURI DE SPECIALIZARE IN FORMAT ON-LINE: 2

1. **Dr. BORA Alina, CS II** - EU – OPENSREEN, Berlin, Germania – ediție online.
Titlul: " *Autumn training school 2023* "
Perioada: 20-22 Noiembrie 2023
2. **Dr. CURPĂN Ramona, CS II** - EU – OPENSREEN, Berlin, Germania – ediție online.
Titlul: " *Autumn training school 2023* "
Perioada: 20-22 Noiembrie 2023

STAGII DE CERCETARE ÎN STRĂINĂTATE: 11

Finantate din proiectul EU-OPENSREEN DRIVE (grant nr. 823893): 5

1. **Dr. CURPĂN Ramona, CS II** - stagiul derulat în perioada 18-21 Iulie **2023** la *Institute of Bioorganic Chemistry, Polish Academy of Sciences (IBCH PAS)* și *EU-OPENSREEN Central Compound Management Facility (CCMF) & Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP) Compound Management Facility*, Berlin.
2. **Dr. CSEH Liliana, CS I** - stagiul derulat în perioada 18-21 Iulie **2023** la *Institute of Bioorganic Chemistry, Polish Academy of Sciences (IBCH PAS)* și *EU-OPENSREEN Central Compound Management Facility (CCMF) & Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP) Compound Management Facility*, Berlin.
3. **Dr. CURPĂN Ramona, CS II** - Participare la conferința de încheiere a proiectului EU-OPENSREEN-DRIVE *4th Annual General Meeting + Final meeting* Berlin, Germania, 19 – 20 Septembrie **2023**
4. **Dr. CURPĂN Ramona, CS II** - stagiul derulat în perioada 9-12 Octombrie **2023** la *Institutul de Biologie Medicală al Academiei Poloneze de Științe, Lodz, Polonia* care găzduiește librăria de compuși chimici a Poloniei, POL-OPENSREEN.

5. **Dr. CRIȘAN Luminița, CS III** - stagiul derulat în perioada 9-12 Octombrie **2023** la *Institutul de Biologie Medicală al Academiei Poloneze de Științe*, Lodz, Polonia care găzduiește librăria de compuși chimici a Poloniei, POL-OPENSREEN.

Finantate din alte proiecte/colaborări: 6

1. **Dr. PUTZ Ana-Maria, CS II**: Un stagiul de colaborare științifică-pentru efectuarea de măsurători SANS, la Budapest Neutron Centre, Budapesta în cadrul unei aplicații pentru măsurători multiple la Central European Research Infrastructure Consortium (CERIC-ERIC) Trieste, Italy”.
Titlul:” Determination of Structural and Adsorption Properties of Methyl- and/or Vinyl Functionalized Mesoporous Silica.
Perioada: 20.02.2023-24.02.2023.
2. **Dr. PUTZ Ana-Maria, CS II**: Un stagiul de colaborare științifică-proiect comun, în cadrul relațiilor deschimb interacademic, la Centre for Energy Research, Academia Ungară de Științe, Budapesta.
Titlul:” Environmental applications of novel mesoporous silica sorbents ”.
Perioada: 29.10.2023-04.11.2023.
3. **Chim. RUSU Diana-Oana, AsC**: Un stagiul de colaborare științifică-proiect comun, în cadrul relațiilor deschimb interacademic, la Centre for Energy Research, Academia Ungară de Științe, Budapesta.
Titlul:” Environmental applications of novel mesoporous silica sorbents ”.
Perioada: 29.10.2023-04.11.2023.
4. **Dr. SZERB Elisabeta-Ildyko, CS II**: „Visiting professor / researcher” la Strasbourg, Institutul de Fizică și Chimia Materialelor, (Institut de Physique et Chimie des Matériaux de Strasbourg (IPCMS), Franța, stagiul finanțat de IPCMS
Perioada: 17-30 aprilie **2023**.
5. **Dr. ANDELESCU Adelina-Antonia, CS III**: stagiul de cercetare la Departamentul de Chimie și Tehnologie Chimică, Laboratorul MAT-INLAB, Universitatea din Calabria, Rende, Italia
Finanțare stagiul: PN-III-P1-1.1-PD-2021-0427, PD 21/2022
Perioada: 03- 17 iulie **2023**.
6. **Drd. POPA Evelyn, AsC**: stagiul de cercetare la Departamentul de Chimie și Tehnologie Chimică, Laboratorul MAT-INLAB, Universitatea din Calabria, Rende, Italia
Finanțare stagiul: PN-III-P4-ID-PCE-2020-1958, PCE 48/2021
Perioada: 03- 28 iulie **2023**.

PARTICIPĂRI LA CONFERINȚE, SIMPOZIOANE ÎN TARĂ/STRĂINĂTATE: 5

1. **SZERB Elisabeta-Ildyko** – keynote invitat la *16th European Conference on Liquid Crystals – ECLC 2023*, 10-14 Iulie **2023**, Universitatea din Calabria, Rende, Italia
2. **BORA Alina** – *1st Aristotel Conference on Chemistry, Advances and Challenges in Chemistry* 12-15 Noiembrie **2023**, Salonic, Grecia
3. **CURPAN R.**, participare la *1st Aristotel Conference on Chemistry, Advances and Challenges in Chemistry* 12-15 Noiembrie **2023**, Salonic, Grecia
4. **HALIP Liliana** – participare la *1st Aristotel Conference on Chemistry, Advances and Challenges in Chemistry* 12-15 Noiembrie **2023**, Salonic, Grecia
5. **AVRAM Sorin** – *1st Aristotel Conference on Chemistry, Advances and Challenges in Chemistry* 12-15 Noiembrie **2023**, Salonic, Grecia

LUCRĂRI PUBLICATE CA REZUMAT LA CONFERINȚE, CONGRESE ȘI SIMPOZIOANE:

1. Manifestări internaționale/naționale: **49** lucrări publicate ca rezumat

MEMBRI ÎN CONDUCEREA UNEI ORGANIZATII INTERNATIONALE/NAȚIONALE DE SPECIALITATE: 3/1

Internaționale

1. **Dr. VISA Aurelia – Membru asociat IUPAC- ICGCSD**
Interdivisional Committee on Green Chemistry for Sustainable Development (ICGCSD) – International Union of Pure and Applied Chemistry
https://iupac.org/who-we-are/committees/committee-details/?body_code=041
2. **Dr. FĂGĂDAR-COSMA Eugenia - Membru (expert)**
Comisia europeana: Risk Assessment & Advisory Structure of Scientific Committees and Experts, EUROPEAN COMMISSION, Health systems and products; e-Health and Health Technology Assessment
Scrisoare de numire: Ref. Ares (2013)1262115 - 23/05/2013
3. **Dr. FĂGĂDAR-COSMA Eugenia - Membru comisia europeana**
Comisia europeana: The Future and Emerging Technologies Community of European Commission within the Excellence in Science pillar of Horizon 2020
<https://ec.europa.eu/digital-agenda/en/communities/>

Naționale

1. **Societatea de Chimie din România, Filiala Timișoara**
Vicepreședinte
Dr. SZERB Elisabeta-Ildyko (2021-prezent)
Secretar trezorer
Dr. BORA Alina (2015 – prezent)

CONFERINȚE ALE UNOR SPECIALIȘTI DIN STRĂINĂTATE ÎN CADRUL INSTITULUI:

1. **Dr. Y. Sarazin** (CNRS Rennes, Franța), *"Low coordinate main group metal complex: synthetic challenges and reactivity oportunities"*, conferință susținută în data de 25.05.2023
2. **Dr. A. Salifoglu** (Univ. Aristotel Thessaloniki, Grecia), *"Bioinorganic metal-organics in the fabrication of films for food packaging"*, conferință susținută în data de 22.05.2023
3. **Dr. P. Golkiewicz** (Elsevier Life Sci. Sol., Polonia), *"How reaxys can support research and education"*, workshop susținut în data de 28.03.2023
4. **Dr. B. Donnio** (IPCMS Strasbourg, Franța), predare/coordonare/evaluare examen în cadrul scolii doctorale ICT a cursului "Metalomessogeni, cristale lichide functionale supramoleculare "soft"/ "visiting proffesor" la ICT, septembrie 2023
5. **Prof. Dr. L. Gardosi** (Univ. Trieste, Italia) – vizitarea institului, discuții cu cercetatorii din institut privind stabilirea de colaborări în proiecte tip consorțiu, 13.06.2023

ACTIVITĂȚI DE VOLUNTARIAT ÎN INSTITUT: 1

1. **CIOCAN Mihnea** - activitate de voluntariat în domeniul de cercetare chimie desfășurată la Institutul de Chimie "Coriolan Drăgulescu", perioada 05.09.2023 – 30.09.2023
Coordonatori voluntar: Dr. Cretu Carmen, Dr. Visa Aurelia, Dr. Crisan Luminita.

ACTIVITĂȚI DE PRACTICĂ DE SPECIALITATE A STUDENȚILOR ÎN INSTITUT: 1

1. **Activități de practică de specialitate** ale studenților din anul II de la programele de studii chimie și chimie medicală din cadrul Facultății de Chimie-Biologie-Geografie, Universitatea de Vest Timișoara desfășurate în baza acordului de parteneriat dintre unități;

Nr. stundenți practicanți: 7

Perioada stagiul de practică: stagiul cu durată de 100 ore /student desfășurat în perioada 28.02.2023 – 31.05.2023.

Tutori de practică desemnați: Dr. Halip Liliana, Dr. Crisan Luminita, Dr. Putz Ana-Maria, Dr. Cretu Carmen, Dr. Visa Aurelia, Dr. Plesu Nicoleta.

DISEMINARE A ACTIVITĂȚII ICT: 1

1. **Participarea Institutul de Chimie "Coriolan Drăgulescu",** la evenimentul **"Noaptea Cercetătorilor Europeni 2022"** proiect din cadrul Evenimentelor Marie Skłodowska-Curie, 29 septembrie 2023, www.noapteacercetatorilor.eu/timisoara

STUDII DE IMPACT ȘI SERVICII COMANDATE DE UN BENEFICIAR: 1

1. Plesu N.

Servicii de evaluare/analizare îmbinări sudate din punct de vedere al coroziunii suprafețelor

Raport cercetare nr. 3070/29.11.2022 derulat între Institutul Național de Cercetare-Dezvoltare în Sudură și Încercări de Materiale, Timișoara (ISIM) și Institutul de Chimie "Coriolan Drăgulescu" (ICT) (*neraportat 2022*)

Valoare raport cercetare: 3250,00Lei (Factura 031/7.12.2022)

COORDONARE LUCRĂRI DE LICENȚĂ/DISERTAȚIE ÎN COTUTELĂ: 2 coordonatori/6 lucrări

1. **Dr. Nicoleta Plesu, CS II:** coordonator în cotutela 1 lucrare licență, 1 lucrare disertație, anul universitar 2023-2024:

- **Titlu lucrare licență:** Studiul electrochimic al oxidării fenolului

Student: Mariuta Alexandra Teodora

Coordonatori: dr. Daniela Dascalu (UVT)/dr. Nicoleta Plesu (ICT)

- **Titlu lucrare disertație:** Testări preliminare de protecție anticorozivă pentru inhibitori de tipul rețelelor metal-organice

Student: Cîmpean Ana-Maria

Coordonatori: dr. Bianca Maranescu (UVT)/dr. Nicoleta Plesu (ICT)

2. **Dr. VISA Aurelia, CS I:** coordonator în cotutela 1 lucrare licență, 3 lucrări disertație - an universitar 2023-2024

- **Titlu lucrare licență:** Sarurile cuaternare de fosfoniu. Sinteza și aplicații

Student: Buhai Alexandru Răzvan

Coordonatori: dr. Daniela Dascalu (UVT)/dr. Aurelia Visa (ICT)

- **Titlu lucrare disertație:** Mecanochimia, o metodă alternativă de sinteză a rețelelor metal organice

Student: Bufta-Bercea Giulia Roberta

Coordonatori: dr. Bianca Maranescu (UVT)/dr. Aurelia Visa (ICT)

- **Titlu lucrare disertație:** Rețele metal organice: catalizatori eterogeni pentru reacția de metilare

Student: Cojocaru Monica-Adriana

Coordonatori: dr. Bianca Maranescu (UVT)/dr. Aurelia Visa (ICT)

- **Titlu lucrare disertatie:** M Rețele metal organice fosfonice ca materiale adsorbante prietenoase cu mediul
Student: Iosivoni Marcela-Georgiana
Coordonatori: dr. Bianca Maranescu (UVT)/dr. Aurelia Visa (ICT)

COORDONARE ACTIVITATE IN CADRUL STUDIILOR DOCTORALE DIN ALTE INSTITUTII: 1

1. **Dr. CRIȘAN Manuela, CS II - Tutor** în cadrul Scolii Doctorale Medicina-Farmacie a Universitatii de Medicina si Farmacie „Victor Babes” din Timisoara pentru doctoranzii:
 - Emma CARABENCIOV, **Titlu teza doctorat:** *Evaluarea markerilor moleculari in neuro-oncologie*
 Coordonator doctorat: Prof. univ. dr. Roxana Popescu
 - Amira RABIA, **Titlu teza doctorat:** *Current research on anti-cancer compounds*,
 Coordonator doctorat: Prof. univ. dr. Roxana Popescu

MEMBRI ÎN COMITETUL DE ORGANIZARE / ȘTIINȚIFIC AL UNOR ȘCOLI DE VARĂ NAȚIONALE / INTERNAȚIONALE: 1

1. **Dr. VISA Aurelia, CS I - membru in comitetul de organizare**
 Scoala de vara: “15th Green Chemistry Postgraduate Summer School”, 2-7 Iulie 2023, Venetia, Italia, <https://iupac.org/event/xv-postgraduate-summer-school-on-green-chemistry/>

MEMBRI ÎN COMITETUL ȘTIINȚIFIC/COMITETUL DE ORGANIZARE AL UNEI CONFERINTE/ SIMPOZIOANE/ COMUNICARI ȘTIINȚIFICE NAȚIONALE/ INTERNAȚIONALE

1. Conferinte organizate la nivel național – 19 cercetători / 20 prezențe
2. Conferinte organizate la nivel internațional – 3 cercetători / 4 prezențe

STAGII DE CERCETARE ALE STUDENȚILOR STRĂINI ÎN CADRUL ICT: 2

1. **Drd. COLELLA Maria Francesca**, în calitate de doctorand, în baza acordului de colaborare nr. 104 din 18.01.2023 între Universitatea din Calabria (Italia) și Institutul de Chimie “Coriolan Drăgulescu” (Romania)
Perioada: 3 luni din 01.05.2023 până în 31.07.2023
Coordonator științific ICT: Dr. SZERB Elisabeta
2. **Drd. RAHMANZADEH Atyeh**, în calitate de doctorand, în baza acordului de colaborare nr. 104 din 18.01.2023 între Universitatea din Calabria (Italia) și Institutul de Chimie “Coriolan Drăgulescu” (Romania)
Perioada: 6 luni din 01.07.2023 până în 31.12.2023 aferentă stagiului de doctorat astfel: primele 3 luni la ICT (01.07.2023 până în 31.9.2023) și ultimele 3 luni prin smart-working (01.09.2023 până în 31.12.2023).
Coordonator științific ICT: Dr. SZERB Elisabeta