ACADEMIA ROMÂNĂ

INSTITUTUL DE CHIMIE „CORIOLAN DRĂGULESCU"

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INSTITUTUL DE CHIMIE "CORIOLAN DRĂGULESCU"
Nr. 4022 Data 06.12.2022
INTRARE/IEŞIRE

Vizat
DIRECTOR,
Dr. OTILIA COSTIŞOR

RAPORT DE ACTIVITATE
2022

ŞTIINŢE 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 înfiinţare: HG. 1366/2001
1.4. Număr de înregistrare în Registrul Potenţialilor Contractori: **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

Program 1. Proiectarea moleculară asistată de calculator
Program 2. Contributii la chimia compusilor organici, element-organici si polimerici continand F, N, P, S. sinteza, caracterizare, aplicatii
Program 3. Chimia si aplicatiile compusilor tetrapirolici din clasa porfirinelor
Program 4. Compuşi anorganici şi hibrizi cu relevanţă în ştiinţa materialelor nanostructurate. Precursori pentru materiale avansate.

4. Resurse umane (centralizator secție): **Anexa 1**.

5. Publicații în anul 2022 (centralizator secție): **Anexa 2**.

6. Proiecte de cercetare 2022 – competiții naționale - **5**, competiții internaționale – **2**, programe operaționale europene – **1**, acorduri bilaterale AR – **3** (**Anexa 3**).

7. Infrastructură de cercetare nouă achiziţionată/completată în anul 2022: **12 227 945 lei**.

8. Rezultatele cercetării desfăşurate în anul 2022 (**Anexele 4-15**).

9. Realizări excelente obţinute în anul 2022 (minim 3 realizări), ale Institutului:

- Cărţi (opere fundamentale): -

- Lucrări ştiinţifice (publicate în reviste cu factor de impact ridicat):
  1. Avram S., Halip L., Curpan R., Oprea T. I.
     Novel Drug Targets in 2021.
     Nat. Rev. Drug Discov. 21(5), 328, **2022**

     FI = 112.288

  2. Motoc S., Manea F., Baciu A., Vasilie S., Pop A.
     Highly Sensitive And Simultaneous Electrochemical Determinations of Non-Steroidal Anti-Inflammatory Drugs in Water Using Nanostructured Carbon-Based Paste Electrodes.
     Sci. Total Environ. 846, 1-9, **2022**

     FI = 10.754

  3. Nistor M. A., Halip L.*, Muntean S. G.*, Kurunczi L.. Costisor O.
     Modeling and Optimization 0f Acid Orange 7 Adsorption Process using Magnetite/Carbon Nanocomposite.
     Sustain. Chem. Pharm. 29, 100778, **2022**

     FI = 6.464

- Alte realizări pe care le consideraţi 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-OPENSCREEN"
     Director de proiect: Liliana Cseh
     Valoarea totala a contractului: 42 459 595,61 RON
     Buget pentru anul 2022: **4.970.456 lei**
     Durata contractului: 20.07.2020-31.12.2023 (42 luni)

  b. **Proiect:** 5U24CA224370-02, Contract:3RDZ5
     Titlul proiectului: Knowledge Management Center for Illuminating the Druggable Genome.
     Director proiect: Dr. Sorin Avram
     Valoare totala proiect: 1.263.790 lei / 291480 USD
     Buget ICT 2022: **314 000 RON (64.800 USD)**
     Durata contractului: 01.1.2019-31.12.2022.

10. Premii internaționale/naţionale, ale Academiei Române obţinute de către cercetători (premiul, autori, lucrări premiate) **-** 2 premii acordate de către Societatea de Chimie **(anexa 8)**

11. Cooperări ştiinţifice naţionale şi internaționale, inclusiv în cadrul proiectelor-**49 (anexa 11)**

12. Conferinţe (simpozioane)/manifestări ştiinţifice organizate de institut - **2 (anexa 10**)

13. Alte rezultate (dacă este cazul) - (**anexa 14**).

- Concluzii şi 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-OPENSCREEN*”, contract nr. 371/20.07.2020, sunt în curs de reabilitare 2 obiective de pe platforma Fagului.

Propunere:

1. Deblocarea de fonduri pentru neutralizarea substantelor toxice și mentinerea în stare de conservarea 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.

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Anexa 1

RESURSE UMANE 2022

Nr. crt.	Institut/Centru	Număr cercetători	Conducători doctorat	Doctoranzi	Postdoctoranzi
1	INSTITUTUL DE CHIMIE "CORIOLAN DRAGULESCU"	46 37 atestați	Dr. Otilia COSTISOR	Drd. Maria Andreea NISTOR	
			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	
TOTAL		46	4	5	0

Anexa 2

PUBLICATII ÎN ANUL 2022

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	Internaționale	RO	EXTERN	RO	
1	INSTITUTUL DE CHIMIE "CORIOLAN DRĂGULESCU"	42		5			7			2		974	1	2	2		30	3	1

Anexa 3

PROIECTE DE CERCETARE 2022

Categorii	Finanțator	Denumire proiect	Perioadă	Valoare totală	Valoare aferentă institutului/centrului în 2022
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 (36 luni)	1.198.032 lei	368.125 lei
PN-III-P1-1.1-PD-2019-0676; nr. contract PD 88/13.08.2020	**UEFISCDI**	Detectia de inalta sensibilitate a calitatii apei contaminate "in urme" cu medicamente cu ajutorul electrozilor de carbon nanostructurati si cristale lichide (DRUWATSENS)	01.09.2020- 31 08.2022 (24 luni)	246.950 lei	61.479 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 (24 luni)	248.072 lei	73.075 lei
PN-III-P2-2.1-PED-2019-0487; nr. contract 528PED/2020	**UEFISCDI**	Materiale hibride de tip ceramic / porfirine depuse ca straturi unice sau de tip sandviş prin tehnica PLD pentru inhibarea coroziuni otelurilor in mediu acid (Cera-POR-Corr)	01.11.2020- 30.10.2022 (24 luni)	200.000 lei	67.400 lei
PN-III-P4-PCE-2021-0089; nr. contract PCE 24/2022	**UEFISCDI**	Retele metal organice: de la sinteza verde la aplicatii prietenoase cu mediul inconjurator	25.05.2022-31.12.2024 (32 luni)	1.200.000 lei	226.860 lei
	TOTAL			**3.093.054 lei**	**796.939 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	01.01.2019-31.12.2022 (48 luni)	1.263.790 lei (291480 USD)	314000 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-OPENSCREEN-DRIVE	2018-2022 (48 luni)	14375 Euro	30169,83 lei
	TOTAL				**344,169.83 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-OPENSCREEN	20.07.2020-31.12.2023 (42 luni)	42.587.899,61 lei	4.970.456 lei
	TOTAL			**42.587.899,61 lei**	**4.970.456 lei**
4. Granturi AR					
	TOTAL				
5. Acorduri bilaterale AR					
Proiect comun de cercetare Academia Română-CNR Italia 2020-2022	**AR-CNR Italia**	Insertion of sensitive fluorescent species in structured surfactant-based fluids for advanced photophysics	2020-2022	12.000 euro	0
Proiect comun de cercetare Academia Română - Institutul de Morfologie, Patologie si Antropologie Experimentala 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	2019-2022	0	0
	TOTAL			**0**	**0**
6. Comenzi instituționale					
	TOTAL				
7. Comenzi economice					
	TOTAL				

Anexa 4

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

r. Crt.	Articol	Factor de impact conform *Web of Science* (Thomson Reuters)
1	Crisan L., Funar-Timofei S., Borota A.* Homology Modeling and Molecular Docking Approaches for the Proposal of Novel Insecticides against the African Malaria Mosquito (Anopheles gambiae). ***Molecules*** *27*, 3846, **2022**	**4.927**
2	Maximov P.Y., Fan P., Abderrahman B., Curpan R., Jordan V.C. Estrogen Receptor Complex to Trigger or Delay Estrogen-Induced Apoptosis in Long-Term Estrogen-Deprived Breast Cancer ***Front. Endocrinol.*** *13*, 869562, **2022**	**6.055**
3	Avram S., Halip L., Curpan R., Oprea T. I. Novel Drug Targets in 2021. ***Nat. Rev. Drug Discov.*** *21(5)*, 328, **2022**	**112.288**
4	Istrate D., Crisan L.* Natural Compounds as DPP-4 Inhibitors: 3D-Similarity Search, ADME Toxicity, and Molecular Docking Approaches. ***Symmetry***, *14*,1842, **2022**	**2.940**
5	Vílchez-Cózar Á., Armakola E., Gjika M., Visa A., Bazaga-García M., Olivera-Pastor P., Choquesillo-Lazarte D., Marrero-López D., Cabeza A., Colodrero R.M. P., Demadis K.D. Exploiting the Multifunctionality of M^{2+}/Imidazole–Etidronates for Proton Conductivity (Zn2+) and Electrocatalysis (Co^{2+}, Ni^{2+}) toward the HER, OER, and ORR. ***ACS Appl. Mater. Interfaces***, *14,* 11273–11287, **2022**	**10.383**
6	Maranescu B., Visa A.* Applications of Metal-Organic Frameworks as Drug Delivery Systems. ***Int. J. Mol. Sci.*** *23*, 4458, **2022**	**6.208**
7	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** (*neraportata in 2021*)	**3.748**
8	Ardelean R., Popa A., Drăgan E.S.*, Davidescu C.-M.*, Ignat M. New Polymeric Adsorbents Functionalized with Aminobenzoic Groups for the Removal of Residual Antibiotics. ***Molecules*** *27*, 2894, **2022**	**4.927**
9	Murariu A. C., Macarie L. , Crisan L*, Pleşu N*. Experimental Investigations of Almg3 Components with Poly-Urethane and Graphene Oxide Nanosheets Composite Coatings, After Accelerated UV-Aging. ***Molecules*** *27(1*), 84, **2022**	**4.927**
10	Muntean S. G.*, Halip L.*, Nistor M. A., Pacurariu C. Efficient Separation And Removal Of Dyes From Single And Multiple Systems By Magnetic/Silver/Carbon Nanocomposite: Mechanism And Mathematical Modeling.	**5.464**

	Sustain. Chem. Pharm. *29,* 100802, **2022**	
11	Nistor M. A., Halip L.*, Muntean S. G.*, Kurunczi L.. Costisor O. Modeling and Optimization Of Acid Orange 7 Adsorption Process Using Magnetite/Carbon Nanocomposite. ***Sustain. Chem. Pharm.*** *29*, 100778, **2022**	**5.464**
12	Moşoarca G*., Vancea S., Popa S., Rădulescu-Grad M.E., Boran S., Powdered Adsorbent Obtained From Bathurst Burr Biomass For Methylene Blue Removal From Aqueous Solutions. ***J. Serb. Chem. Soc****. 87(0),* **2022**	**1.240**
13	Croitor L., Vlase G., Vlase T., Bourosh P.N., Chumakov Y.M., Crisan M.* Relationship Between Crystal Structure and Thermal Properties of Polymorphic System Methylethanolammonium 2-Chloro-4-Nitrobenzoate. ***J. Therm. Anal. Calorim****. 147(9)*, 5437–5449, **2022**	**4.755**
14	Croitor L., Petric M.*, Crisan L., Bourosh P.N., Vlase G., Vlase T., Crisan M.* Effect of Substituents on The Crystal Structure and Thermal Stability Of N-Phosphorylated Iminophosphoranes. ***J. Therm. Anal. Calorim****. 147(9),* 5423–5435, **2022**	**4.755**
15	Fratilescu I., Lascu A., Taranu B.O., Epuran C., Birdeanu M., Macsim A.-M., Tanasa E., Vasile E., Fagadar-Cosma E. One A_3B Porphyrin Structure-Three Successful Applications. ***Nanomaterials*** *12(11)*, 1930, **2022**	**5.719**
16	Epuran C.; Fratilescu I.; Macsim A.-M.; Lascu A.; Ianasi C.; Birdeanu M.; Fagadar-Cosma E.* Excellent Cooperation between Carboxyl-Substituted Porphyrins, k-Carrageenan and AuNPs for Extended Application in CO2 Capture and Manganese Ion Detection. ***Chemosensors*** *10(4)*, 133, **2022**	**4.229**
17	Epuran C., Fratilescu I., Anghel D., Birdeanu M., Orha C., Fagadar-Cosma E. A Comparison of Uric Acid Optical Detection Using as Sensitive Materials an Amino-Substituted Porphyrin and Its Nanomaterials with CuNPs, PtNPs and Pt@CuNPs. ***Processes*** *9*, 2072, **2021**	**3.352**
18	Birdeanu M.; Fratilescu I.; Epuran C.; Murariu A.C.; Socol G.; Fagadar-Cosma E*. Efficient Decrease in Corrosion of Steel in 0.1 M HCl Medium Realized by a Coating with Thin Layers of $MnTa_2O_6$ and Porphyrins Using Suitable Laser-Type Approaches. ***Nanomaterials*** *12(7)*, 1118. **2022**	**5.719**
19	Taranu B.-O.; Fagadar-Cosma E*. Catalytic Properties of Free-Base Porphyrin Modified Graphite Electrodes for Electrochemical Water Splitting in Alkaline Medium. ***Processes*** *10*, 611, **2022**	**3.352**
20	Taranu B.-O.; Fagadar-Cosma E*. The pH Influence on the Water-Splitting Electrocatalytic Activity of Graphite Electrodes Modified with Symmetrically Substituted Metalloporphyrins. ***Nanomaterials*** *12*, 3788, **2022**	**5.719**
21	Fringu I.; Lascu A.*; Macsim AM.; Fratilescu I.; Epuran C.; Birdeanu M.; Fagadar-Cosma E.* Pt(II)-A2B2 Metalloporphyrin AuNPS Hybrid Material Suitable for Optical Detection of 1-Anthraquinonsulfonic Acid. ***Chem. Pap****. 76*, 2513–2527, **2022**	**2.16**
22	Birdeanu M., Epuran C., Fratilescu I., Fagadar-Cosma E.* Structured Composites Between Mnta2o6 And Porphyrins: Influence of the Number	**0.76**

	of Carboxylic Groups Grafted on Porphyrins on the Capacity to Inhibit Corrosion of Steel. ***Indian J. Chem. Technol***. *29*, 354-366, **2022**	
23	Szerb E.I., Chatterjee S., La Deda M., Palermo G., Sancey L., Strangi G., Ricciardi L.* A Luminescent, Water-Soluble Ir(III) Complex as a Potential Photosensitizer for Two-Photon Photodynamic Therapy. ***Appl. Sci***. *11*, 11596, **2021** (*neraportata in 2021*)	**2.838**
24	Andelescu A.A., Ilies (b. Motoc) S., Cretu C., Popa E., Marinescu S., Heinrich B., Manea F.*, Negrea S., Donnio B., Szerb E.I.* Pentacoordinated Liquid Crystalline Zn(II) Complex Organized in Smectic Mesophase: Synthesis, Structural and Electrochemical Properties. ***Appl. Sci***. *12*, 8306, **2022**	**2.838**
25	Lo Celso F., Barone G., Maiuolo L.*, Algieri V., Cretu C., Calandra P.* Dissolution of Nitrones In Alkylphosphates: A Structural Study. ***J. Molec. Liq.*** *367*, 120517, **2022**	**6.633**
26	Motoc S., Manea F., Baciu A., Orha C., Pop A. Electrochemical Method for Ease Determination of Sodium Diclofenac Trace Levels in Water Using Graphene-Multi-Walled Carbon Nanotubes Paste Electrode. ***IJERPH*** *19(1)*, 1-16, **2022**	**4.616**
27	Motoc S., Manea F., Baciu A., Vasilie S., Pop A., Highly Sensitive And Simultaneous Electrochemical Determinations Of Non-Steroidal Anti-Inflammatory Drugs In Water Using Nanostructured Carbon-Based Paste Electrodes. ***Sci. Total Environ.*** *846*, 1-9, **2022**	**10.754**
28	Buta I., Shova S., Ilies S., Manea F., Andruh M., Costisor O. Mono- and Oligonuclear Complexes Based On A *O*-Vanillin Derived Schiff-Base Ligand: Synthesis, Crystal Structures, Luminescent And Electrochemical Properties. ***J. Mol. Struct.*** *1248*, 131439, **2022**.	**3.196**
29	Putz A.-M., Ivankov O.I., Kuklin A.I., Ryukhtin V., Ianăşi C., Ciopec M., Negrea A., Trif L., Horváth Z.E., Almásy L.* Ordered Mesoporous Silica Prepared in Different Solvent Conditions: Application for Cu(II) and Pb(II) Adsorption. ***Gels*** *8*, 443, **2022**	**4.432**
30	Putz A.-M.*, Len A., Trif L., Horváth Z.E., Almásy L.* Imidazolium Ionic Liquids as Designer Solvents Confined in Silica Nanopores. ***Gels*** *8*, 388, **2022**	**4.432**
31	Caputo P., Calandra P.*, Loise V., Le Pera A., Putz A.-M., Abe A.A., Madeo L., Teltayev B., Luprano M.L., Alfè M., Gargiulo V., Ruoppolo G., Oliviero Rossi C. When Physical Chemistry Meets Circular Economy to Solve Environmental Issues: How the ReScA Project Aims at Using Waste Pyrolysis Products to Improve and Rejuvenate Bitumens. ***Sustainability*** *14*, 5790, **2022**	**3.251**
32	Ianăşi C., Picioruş E.M., Nicola R., Putz A.-M., Negrea A., Ciopec M., Len A., Almásy L. Synthesis and Characterization of Magnetic Iron Oxide – Silica Nanocomposites Used for Adsorptive Recovery of Palladium (II). ***Soft Materials*** **2021**, doi.org/10.1080/1539445X.2021.1999270 (*neraportata 2021*)	**1.619**
33	Merkulov D.S., Vlazan P., Poienar M., Bognár S., Ianasi C., Sfirloaga P.* Sustainable Removal of 17α-Ethynylestradiol from Aqueous Environment Using Rare Earth Doped Lanthanum Manganite Nanomaterials.	**6.562**

	***Catalysis Today* 2022**, doi.org/10.1016/j.cattod.2022.05.011	
34	Ciopec M., Grad O., Negrea A.*, Duteanu N.*, Negrea P., Voda R., Ianasi C. Highly Efficient Recovery of Ruthenium from Aqueous Solutions by Adsorption Using Dibenzo-30-Crown-10 Doped Chitosan. ***Polymers** 14,* 1551, **2022**	**4.967**
35	Matusoiu F., Negrea A.*, Ciopec M., Duteanu N., Negrea P., Svera P., Ianasi C.* Molybdate Recovery by Adsorption onto Silica Matrix and Iron Oxide Based Composites. ***Gels** 8,* 125, **2022**	**4.432**
36	Mladin G., Ciopec M.*, Negrea A., Duteanu N.*, Negrea P., Ianasi P., Ianasi C. Silica-Iron Oxide Nanocomposite Enhanced with Porogen Agent Used for Arsenic Removal. ***Materials** 15(15),* 5366, **2022**	**3.748**
37	Matusoiu F., Negrea A.*, Nemes N.S.*, Ianasi C., Ciopec M., Negrea P., Duteanu N., Ianasi P., Duda-Seiman D.*, Muntean D. Antimicrobial Perspectives of Active SiO2FexOy/ZnO Composites. ***Pharmaceutics** 14(10),* 2063, **2022**	**6.525**
38	Ciocărlie L., Negrea A.*, Ciopec M., Duteanu N.*, Negrea P., Ianasi P., Ianasi C., Nemes N.S*. Indium Recovery by Adsorption on MgFe2O4 Adsorbents. ***Materials** 15(20),* 7054, **2022**	**3.748**
39	Borcănescu S*., Popa A., Bajuk-Bogdanović D., Holclajtner-Antunović I., Uskoković-Marković S. Amino-Functionalized mesoporous materials used for CO_2 adsorption. ***Environ. Eng. Manag. J.** 20*, 1893-1903, **2021**	**0.916**
40	Verdeș O., Popa A*., Borcănescu S., Suba M., Sasca V. Thermogravimetry Applied for Investigation of Coke Formation in Ethanol Conversion over Heteropoly Tungstate Catalysts. ***Catalysts** 12*, 1059, **2022**	**4.501**
41	Suba M., Popa A.*, Verdeș O., Borcănescu S., Barvinschi P. Ni and Ce grafted Ordered Mesoporous Silica KIT-6 for CO_2 Adsorption. ***Catalysts** 12(11)*, 1339, **2022**	**4.501**
42	Ricciardi L.*, Chatterjee S., Palermo G., Szerb E.I., Sanna A., Palermo F., Pieroni N., Fratini M., Bartolino R., Cedola A., La Deda M., Strangi G.* Hybrid Nanoparticles as Theranostics Platforms for Glioblastoma Treatment: Phototherapeutic and X-ray Phase Contrast Tomography Investigations ***J. Nanotheranostics** 3*, 1–17, **2022**.	**0.00**
TOTAL		**293.6**

Anexa 5

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

Nr. Crt.	Articol	$1\times(N_{ic}/N_a)$	Punctaj
1.	Avram S., Halip L., Curpan R., Borota A., Bora A., Oprea T.I. Annotating Off-Label Drug Usage from Unconventional Sources. ***medRxiv***, **2022**, doi: 10.1101/2022.09.08.22279709	1×(5/6)	0.833
2.	Hojamberdiev M.,Visa A., Arico F., Tundo P. Green Chemistry Postgraduate Summer School ***Chemistry International***, *44(1)*, 46-48, **2022**	1x(1/4)	0.25
3.	Moşoarca G.,Vancea C., Popa S., Boran S., Rădulescu-Grad M.E. Crystal Violet Removal from Aqueous Solutions using Dry Bean Pods Kusks Powder-Optimisation and Desorption Studies ***"Ovidius" Univ. Ann. Chem.,*** *33(2),* 120-134, **2022**	1x(1/5)	0.2
4.	Moşoarca G.,Vancea C., Popa S., Boran S., Rădulescu-Grad M.E. Equilibrum Study Regarding Crystal Violet Dye Adsorption On Raspberry Leaves Powder. ***The Annals of "Dunarea de jos" University of Galati Fascicle IX Metallurgy and Material Science***. *2*, 38-43, **2022**	1x(1/5)	0.2
5.	Moşoarca G.,Vancea C., Popa S., Boran S., Rădulescu-Grad M.E. Crystal Violet Dye Adsorption on Raspberry Leaves Powder - Kinetic and Thermodynamic Studies. ***The Bulletin of the Polytechnic Institute of Iasi, Chemistry and Chemical Engineering, "Gheorghe Asachi "***, *68(72) 3*, 123-136, **2022**	1x(1/5)	0.2
6.	Szerb E.I. A 13-a ediție a Simpozionului cu Participare Internațională Noi Tendințe si Strategii in Chimia Materialelor Avansate, cu Relevanță in Sisteme Biologice, Tehnică si Protecția Mediului. ***Bul. Soc. Chim. România*** Nr. XXVIII, *3*, 50, **2021** (*neraportata in 2021*)	1x(1/1)	1
7.	**TOTAL**		**2.683**

Anexa 6

Un capitol într-un tratat, carte sau monografie editate într-o editură consacrată din străinătate

Nr. Crt.	Articol	13×(Nic/Na)×(Np/Ntp)	Punctaj
1	Bora A., Funar-Timofei S.* ***Chemometric Modeling of Pesticide Aquatic Toxicity*** In: ***Chemometrics and Cheminformatics in Aquatic Toxicology***, Chapter 19, pag.: 377-389, 624 book pages, 1st Edition, Roy K. (Ed.), John Wiley & Sons, **2021,** ISBN: 9781119681595; doi:10.1002/9781119681397.ch19, (*neraportat in 2021*)	13×(2/2)×(12/624)	**0.25**
2	Avram S., Funar-Timofei S.*, Ilia G.* ***Application of Cheminformatics to Model Fish*** In: ***Chemometrics and Cheminformatics in Aquatic Toxicology*** Chapter 12, pag.: 227-241, 624 book pages, 1st Edition, Roy K. (Ed.), John Wiley & Sons, **2021**, ISBN: 9781119681595; doi:10.1002/9781119681397.ch12, (*neraportat in 2021*)	13×(3/3)×(14/624)	**0.296**
3	Crisan L., Borota A., Bora A., Funar-Timofei S.*, Ilia G.* ***Chemometric Modeling of Algal and Daphnia Toxicity*** In: ***Chemometrics and Cheminformatics in Aquatic Toxicology***, Chapter 13, pag. 243-274, 624 book pages, 1st Edition, Roy K. (Ed.), John Wiley & Sons, **2021,** ISBN: 9781119681595; doi:10.1002/9781119681397.ch13, (*neraportat in 2021*)	13×(5/5)×(31/624)	**0.646**
4	Simulescu V., Funar-Timofei S., Chiriac V., Ilia G*. ***Synthesis of Phosphorus-Based Phosphors*** In: ***Hybrid Phosphor Material. Synthesis, Characterization and Applications. Engineering Materials***, pag. 119-149, 359 book pages, Sabu T., Upadhyay K., Tamrkar R.K. (Eds.), Springer, Cham (Switzerland), **2022,** ISBN 978-3-030-90505-7; eBook ISBN: 978-3-030-90506-4; doi:10.1007/978-3-030-90506-4_5	13×(2/4)×(30/359)	**0.543**
5	Avram S., Curpan R., Oprea T. I. ***Cheminformatics Data Mining and Modeling for Drug Repurposing*** In ***Drug Repurposing***, Cavalla D. (ed.), The Royal Society of Chemistry, Chapter 7, pag: 129-146, 332 book pages, **2022**; ISBN 978-1-78801-903-3; doi: 10.1039/9781839163401-00129	13×(2/3)×(17/332)	**0.429**
6	Plesu N., Macarie L., Popa A., Ilia G. ***Polymeric supports for water treatment applications*** In ***Water-Formed Deposits, Fundamentals and Mitigation Strategies***, Amjad Z., Demadis K.D. (Eds.), Elsevier Inc., Chapter 19, pag. 397-433, 858 book pages, **2022**, ISBN 978-0-12-822896-8; doi:10.1016/B978-0-12-822896-8.00026-1	13x(4/4)x(27/858)	**0.409**

7	Popa A., Motoc S., Manea F.*, ***Carbon nanomaterials-based sensors for water treatment*** In ***Carbon Nanomaterials-Based Sensors, Emerging Research Trends in Devices and Applications***, Manjunatha J.G., Hussain C.M. (Eds.), Elsevier, Chapter 9, pag. 125-148, 443 book pages, **2022**, ISBN 978-0-323-91174-0, doi: 10.1016/C2020-0-04501-9	13x(2/3)x(23/443)	**0.45**
TOTAL			**3.023**

Anexa 7

Un premiu (distincţie) al unei societăţi ştiinţifice naţionale obţinut printr-un proces de selecţie

Punctaj unitar = 10

1. BADESCU Bianca: Bursa acordata printr-un proces de selecție de către Societatea de Chimie din Romania pentru participarea la conferința **„Conferința Națională de Chimie, Ediția a XXXVI”,** Călimănești -Căciulata, 04-07 Octombrie **2022.**

Punctaj unitar = 10

2. NISTOR Maria Andreea: Diploma “***Best young scientist poster presentation award*”,** oferită de Societatea de Chimie printr-un proces de selecție ca urmare a participarii cu prezentare în cadrul secțiunii ”Flash Poster presentation” la simpozionul: ***The 14th Edition of Symposium with international participation “New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection”,*** *20-21 October* ***2022****, Timişoara, Romania, www.newtrends-timisoara.ro/.*

Punctaj unitar = 10
TOTAL= 20

ANEXA 8

Un premiu (distincţie) al unei societăţi ştiinţifice internationale obţinut printr-un proces de selecţie

1. FĂGĂDAR-COSMA E. - **PREMIUL INSO 2021** – „**Lifetime Achievement Award**" in „*International Scientist Awards on Engineering, Science and Medicine*" – Premiul pentru intreaga activitate științifică - decernat decembrie **2021**, www.vdgood.org (*neraportat 2021*)

TOTAL = 10

Anexa 9

Citări conform *Web of Science* (Thomson Reuters)

Punctaj total= 974 x 0.5= 487 p

T1. Suzuki T., Timofei S., Kurunczi L., U. Dietze, Schüürmann G.
Correlation of aerobic biodegradability of sulfonated azo dyes with the chemical structure
Chemosphere 45(1), 1-9, **2001**

C1. Yadollahi E., Shareghi B., Farhadian S.
Binding parameters and molecular dynamics of Trypsin-Acid Yellow 17 complexation as a function of concentration
Spectrochim. Acta A 281, 121589, **2022**

C2. Zosenko O.O., Kushch O.V., Kompanets M.O., Anishchenko V.M., Shendrik A.N.
Aliphatic oxime 3-(hydroxyimino)pentan-2,4-dione as new potential mediator for laccase-catalyzed decolorization of dyes
J. Environ. Chem. Eng. 10 (4), 108149, **2022**

C3. Jayapal M., Jagadeesan H., Krishnasamy V., Shanmugam G., Muniyappan V., Chidambaram D., Krishnamurthy S.
Demonstration of a plant-microbe integrated system for treatment of real-time textile industry wastewater
Environ. Pollut. 302, 119009, **2022**

C4. Rashed S.H., Abd-Elhamid, A.I., Abdalkarim S.Y.H., El-Sayed R.H., El-Bardan A.A., Soliman H.M.A., Nayl A.A.
Preparation and characterization of layered-double hydroxides decorated on graphene oxide for dye removal from aqueous solution
J. Mater. Res. Technol. 17, 2782-2795, **2022**

C5. Elbarbary A.M., Bekhit M., El Fadl F.I.A., Sokary R.
Synthesis and Characterization of Magnetically Retrievable Fe3O4/Polyvinylpyrrolidone/Polystyrene Nanocomposite Catalyst for Efficient Catalytic Oxidation Degradation of Dyes Pollutants
J. Inorg. Organomet. Polym. 32(2), 383-398, **2022**

C6. Yogeeswaran A., Sekar R.R.J., Maheswari S.U., Vijila S.M., Kumar T.V.
Halophilic Alkaline Protease Enzyme on Biodegradation of Contaminants in Raw Textile Effluent
Indian J. Environ. Prot. 42(2), 142-148, **2022**

C7. Mouele E. S. Ma., Myo T. Z. Myint, Kyaw H. H., Otijanig J., Dinu M., Parau A. C., Pana I., El Ouardi Y., Al-Sabahi J., Al-Belushi M., Sosnin E., Tarasenko V., Zhang C., Shao T., Iordache T. V., Teodor S., Laatikainen K., VladescuA., Al-Abric M., Sarbu A., Braic M., Braic V., Dobretsove S., Petrik L. F.
Degradation of Sulfamethoxazole by Double Cylindrical Dielectric Barrier Discharge System combined with Ti /C-N-TiO2 supported Nanocatalyst
J. Hazard. Mater. Adv. 5, 100051, **2022**

T2. Timofei S., Schmidt W., Kurunczi L., Simon Z.
A review of QSAR for dye affinity for cellulose fibres
Dyes Pigments 47(1-2): 5-16, **2000**

C8. Wu X.W., Boulos S., Yulikov M., Nystrom, L.
Site-selective and stochastic spin labelling of neutral water-soluble dietary fibers optimized for electron paramagnetic resonance spectroscopy
Carbohyd. Polym. 293, 119724, **2022**

C9. Toropova A.P., Toropov A.A., Roncaglioni A., Benfenati E.
Monte Carlo technique to study the adsorption affinity of azo dyes by applying new statistical criteria of the predictive potential
SAR QSAR Environ. Res. 33(8), 621-630, **2022**

C10. Ran J., Pryazhnikova V.G., Telegin F.Y.
Chemoinformatics Analysis of the Colour Fastness Properties of Acid and Direct Dyes in Textile Coloration.
Colorants 1, 280-297, **2022**

T3. Suzuki T., Timofei S., Eiuoras B., Uray G., Verdino P., Fabian W.M.F.
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J. Chromatogr. A 922 (1-2), 13-23, **2001**

C11. Perez-Baeza M., Martin-Biosca Y., Escuder-Gilabert L., Medina-Hernández M.J., Sagrado S.; Sagrado S.
Artificial neural networks to model the enantioresolution of structurally unrelated neutral and basic compounds with cellulose tris(3,5-dimethylphenylcarbamate) chiral stationary phase and aqueous-acetonitrile mobile phases
J. Chromatogr. A 1672, 463048, **2022**

T4. Avram S., Funar-Timofei S., Borota A., Chennamaneni S. R., Manchala A. K., Muresan S.
Quantitative estimation of pesticide-likeness for agrochemical discovery
J. Cheminformatics 6, Article Number: 42, **2014**

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Finding the Missing Property Concepts in Pesticide-Likeness
J. Agric. Food Chem. 70, 33, 10090–10099, 2022

C13. Chen Y., Wang Z.Z., Hao G.-F., Song B.A.
Web support for the more efficient discovery of kinase inhibitors
Drug Discov. Today 27 (8) , 2216-2225, 2022

C14. Raha F.K., Hasan J., Ali A., Fakayode S.O., Halim M.A.
Exploring the molecular level interaction of Xenoestrogen phthalate plasticisers with oestrogen receptor alpha (Er alpha) Y537S mutant
Mol. Simulat. **2022**, DOI: 10.1080/08927022.2022.2101675

C15. Antony A., Karuppasamy R.
Searching of Novel Herbicides for Paddy Field Weed Management-A Case Study with Acetyl-CoA Carboxylase
Agron.-Basel 12 (7), 1635, **2022**, DOI: 10.3390/agronomy12071635

C16. de Oliveira M.V.D., Fernandes G.M.B., da Costa K.S., Vakal S., Lima, A.H.
Virtual screening of natural products against 5-enolpyruvylshikimate-3-phosphate synthase using the Anagreen herbicide-like natural compound library
RSC Adv. 12 (29), 18834-18847, **2022**

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Applications of Isosteres of Piperazine in the Design of Biologically Active Compounds: Part 2
J. Agr. Food Chem. 70, 36, 10972–11004, **2022**

C18. Mei L.C., Chen H.M., Dong A. –Y., Huang G. –Y., Liu Y. –W., Zhang X., Wang W., Hao G.-F., Yang G.F.
Pesticide Informatics Platform (PIP): An International Platform for Pesticide Discovery, Residue, and Risk Evaluation
J. Agr. Food Chem. 70 (22) , 6617-6623, **2022**

T5. Funar-Timofei S., Borota A., Crisan L.

Combined molecular docking and QSAR study of fused heterocyclic herbicide inhibitors of D1 protein in photosystem II of plants
Mol. Divers. 21 (2), 437-454, **2017**

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Exploring the molecular level interaction of Xenoestrogen phthalate plasticisers with oestrogen receptor alpha (Er alpha) Y537S mutant
Mol. Simulat. **2022**, DOI: 10.1080/08927022.2022.2101675

C20. Agrwal A., Verma A., Chantola N., Verma S., Kasana V., Kasana V.
Synthesis, molecular docking and extensive structure activity relationship of substituted DHP derivatives: a new class of herbicides
J. Environ. Sci. Heal. B 57 (5) , 379-420, **2022**

C21. Sukhoverkov K.V., Breese K.J., Debowski A.W., Murcha M.W., Stubbs K.A., Mylne J.S.
Inhibition of chloroplast translation as a new target for herbicides
RSC Chem. Biol. 3(1), 37-43, **2022**

T6. Schuurmann G., Funar-Timofei S.
Multilinear regression and comparative molecular field analysis (CoMFA) of azo dye-fiber affinities. 2. Inclusion of solution-phase molecular orbital descriptors
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C22. Aljannahi A., Alblooshi R.A., Alremeithi R., Karamitsos I., Ahli N., Askar A., Albastaki I., Ahli M., Modak S.
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Molecules 27 (13), 4281, **2022**, DOI: 10.3390/molecules27134281

T7. Bora A., Suzuki T., Funar-Timofei S.
Neonicotinoid insecticide design: molecular docking, multiple chemometric approaches, and toxicity relationship with *Cowpea aphids*
Environ. Sci. Pollut. Res. 26, 14547–14561, **2019**

C23. Pan Z., Liu Q.L., Xu J., Li W., Lin H.
Microplastic contamination in seafood from Dongshan Bay in southeastern China and its health risk implication for human consumption
Environ. Pollut. 303, 119163, **2022**

C24. Yue M., Liu Q., Wang F., Zhou W., Liu L., Wang L., Zou Y., Zhang L., Zheng M., Zeng S., Gao J.Y.
Urinary neonicotinoid concentrations and pubertal development in Chinese adolescents: A cross-sectional study
Environ. Int. 163, 107186, **2022**

C25. Lin C., Chen J.M., Xu J., Li Y., Liu Y., Lin H.
Distribution and risk assessment of heavy metals in the economic fish of the Southern Fujian Province
Environ. Toxicol. Phar. 92, 103834, **2022**

C26. Cens T., Chavanieu A., Bertaud A., Mokrane N., Estaran S., Roussel J., Ménard C., De Jesus Ferreira M. –C., Guiramand J., Thibaud J. –B., Cohen-Solal C., Rousset M., Rolland V., Vignes M., Charnet P.
Molecular Targets of Neurotoxic Insecticides in Apis mellifera
European J. Org. Chem. 21, e202101531, **2022**

C27. Liu Y., Kuang W.M., Xu J., Chen J., Sun X., Lin C., Lin H., Lin H.
Distribution, source and risk assessment of heavy metals in the seawater, sediments, and organisms of the Daya Bay, China
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Structure-flammability relationship study of phosphoester dimers by MLR and PLS
Polímeros 26(2), 129–136, **2016**

C28. Yang L.F., Wen Z.P., Yan X., Hua Q., Su H.Z.
Structural inverse analysis of concrete dams: considering residual hydration heat effect on dam displacements
Eng. Comput. **2022**, DOI:10.1007/s00366-022-01675-w

T9. Bora A., Seclaman E., Kurunczi L., Funar-Timofei S.
A preliminary MTD-PLS study for androgen receptor binding of steroid compounds
Int. J. Quantum Chem. 107 (8) , 1707-1713, **2007**

C29. Khan K., Roy K.
Ecotoxicological risk assessment of organic compounds against various aquatic and terrestrial species: application of interspecies i-QSTTR and species sensitivity distribution techniques
Green Chem. 24 (5) , 2160-2178, **2022**

T10. Funar-Timofei S., Ilia G.
QSAR Modeling of Dye Ecotoxicity. In ***Ecotoxicological QSARs***; Roy, K., Ed.; Springer: New York, NY, USA, **2020**; pp. 405–436. ISBN 978-1-0716-0149-5.

C30. Ran J., Pryazhnikova V.G., Telegin F.Y.
Chemoinformatics Analysis of the Colour Fastness Properties of Acid and Direct Dyes in Textile Coloration.
Colorants 1, 280-297, **2022**

T11. Funar-Timofei S., FabianW.M., Kurunczi L., Goodarzi M., Ali S.T., Heyden Y.V.
Modelling heterocyclic azo dye affinities for cellulose fibres by computational approaches.
Dyes Pigments 94, 278–289, **2012**

C31. Ran J., Pryazhnikova V.G., Telegin F.Y.
Chemoinformatics Analysis of the Colour Fastness Properties of Acid and Direct Dyes in Textile Coloration.
Colorants 1, 280-297, **2022**

C32. Ayun, A.Q., Tasli P.T., Kart H.H., Kart S.O.
Quantum Chemical Characterization of 4-({4-[Bis(2-Cyanoethyl)Amino]Phenyl}Diazinyl)Benzene Sulfonamide by Ab-Initio Calculation.
ICONTECH Int. J. 6, 12-29, **2022**

T12. Bora A., Crisan L., Borota A., Funar-Timofei S., Ilia G.
Ecotoxicological QSAR Modeling of Organophosphorus and Neonicotinoid Pesticides. In ***Ecotoxicological QSARs. Methods in Pharmacology and Toxicology***; Roy, K., Ed., Springer: New York, NY, USA, **2020**; pp. 513–544. ISBN 978-1-0716-0149-5.

C33. Magomedov, K.E.; Zeynalov, R.Z.; Suleymanov S.I.; Tataeva, S.D.; Magomedova, V.S.
Calculation of Lipophilicity of Organophosphate Pesticides Using Density Functional Theory.
Membranes 12, 632, **2022**

T13. Iliescu S., Grozav I., Funar-Timofei S., Plesu N., Popa A., Ilia G.
Optimization of synthesis parameters in interfacial polycondensation using design of experiments.
Polym. Bull. 64, 303-314, **2010**

C34. Tumusiime G. Wambua P., Rwahwire S., Njuguna D., Yiga V.
Production and mechanical characterization of reinforced zinc oxide nanoparticle-coated silk waste bio-composites.

Polym. Bull. **2022**, DOI: 10.1007/s00289-022-04475-w

T14. Borota A., Mracec M., Gruia A., Rad-Curpan R., Ostopovici-Halip L., Mracec M.
A QSAR study using MTD method and Dragon descriptors for a series of selective ligands of alpha C-2 adrenoceptor
Eur. J. Med. Chem. 46(3), 877-884, **2011**

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MACAW: An Accessible Tool for Molecular Embedding and Inverse Molecular Design.
J. Chem. Inf. Model. 62(15), 3551-3564, **2022**

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Structure- and ligand- based studies to gain insight into the pharmacological implications of histamine H-3 receptor
Struct Chem 32(3), 1141–1149, **2021**

C36. Frlan R.
An Evolutionary Conservation and Druggability Analysis of Enzymes Belonging to the Bacterial Shikimate Pathway
Antibiotics (Basel) 11(5), 675, **2022**

T16. Halip L., Avram S., Neanu C.
The *B-factor* index for the binding site (BFI_{bs}) to prioritize crystal protein structures for docking
Struct Chem 32, 1693–1699, **2021**

C37. Avram S., Neanu C.
Large-scale comparison between the diffraction-component precision indexes favors Cruickshank's R-free function
Journal of the Serbian Chemical Society 87(3), 321-330, **2022**

T17. Lewis-Wambi J.S., Kim H., Curpan R., Grigg R., Sarker M.A., Jordan V.C.
The selective estrogen receptor modulator bazedoxifene inhibits hormone-independent breast cancer cell growth and down-regulates estrogen receptor alpha and cyclin D1
Mol. Pharmacol. 80(4), 610-620, **2011**

C38. Gale-Day Z.J., Gestwicki J.E.
Stability of steroid hormone receptors: the intersection of proteostasis and selective degradation.
Protein Homeostasis in Drug Discovery: A Chemical Biology Perspective, **2022**

C39. Ferraro E., Walsh E.M, Tao J.J., Chandarlapaty S., Jhaveri K.
Accelerating drug development in breast cancer: New frontiers for ER inhibition.
Cancer Treat. Rev. 102432, **2022**

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Insilico docking study of isoxazole indole linked resorcinol derivatives as promising selective estrogen receptor modulators & anticancer drugs.
Drug Res. **2022,** DOI:10.1055/a-1958-3823

C41. Lloyd M.R, Wander S.A, Hamilton E., Razavi P., Bardia A.
Next-generation selective estrogen receptor degraders and other novel endocrine therapies for management of metastatic hormone receptor-positive breast cancer: current and emerging role.
Ther. Adv. Med. Oncol. 14, 17588359221113694, **2022**

C42. Farkas S, Szabó A, Hegyi AE, Török B, Fazekas CL, Ernszt D, Kovács T, Zelena D.
Estradiol and Estrogen-like Alternative Therapies in Use: The Importance of the Selective and Non-Classical Actions.
Biomedicines. 10(4), 861, **2022**

C43. Manore SG, Doheny DL, Wong GL, Lo HW.
IL-6/JAK/STAT3 signaling in breast cancer metastasis: biology and treatment.
Front. Oncol. 12, 866014, **2022**

T18. Maximov P.Y., Myers C.B., Curpan R.F., Lewis-Wambi J.S., Jordan V.C.
Structure-function relationships of estrogenic triphenylethylenes related to endoxifen and 4-hydroxytamoxifen
J. Med. Chem. 53(8), 3273-3283, **2010**

C44. Duró C., Jernei T., Szekeres K.J., Láng G.G., Oláh-Szabó R., Bősze S., Szabó I., Hudecz F., Csámpai A.
Synthesis and SAR analysis of novel 4-hydroxytamoxifen analogues based on their cytotoxic activity and electron-donor character.
Molecules. 27(19), 6758, **2022**

C45. Maximov P.Y., Fan P., Abderrahman B., Curpan R., Jordan V.C.
Estrogen receptor complex to trigger or delay estrogen-induced apoptosis in long-term estrogen deprived breast cancer.
Front. Endocrinol. 13, 869562, **2022**

T19. Fan P., Maximov P.Y., Curpăn R.F., Abderrahman B., Jordan V.C.
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Mol. Cell. Endocrinol. 418, 245-263, **2015**

C46. Manna P.R., Ahmed A.U., Molehin D., Narasimhan M., Pruitt K., Reddy P.H.
Hormonal and genetic regulatory events in breast cancer and its therapeutics: importance of the steroidogenic acute regulatory protein.
Biomedicines. 10(6), 1313, **2022**

C47. Soni M., Saatci O., Gupta G., Patel Y., Keerthi Raja M.R., Li J., Liu X., Xu P., Wang H., Fan D., Sahin O.
miR-489 Confines uncontrolled estrogen signaling through a negative feedback mechanism and regulates tamoxifen resistance in breast cancer.
Int. J. Mol. Sci. 23(15), 8086, **2022**

C48. Abderrahman B., Jordan V.C.
Estrogen for the treatment and prevention of breast cancer: a tale of 2 Karnofsky Lectures.
The Cancer Journal. 28(3), 163-168, **2022**

C49. Santen R.J., Stuenkel C.A., Yue W.
Mechanistic effects of estrogens on breast cancer.
The Cancer Journal. 28(3), 224-240, **2022**

C50. Fan P., Jordan V.C.
Estrogen receptor and the unfolded protein response: double-edged swords in therapy for estrogen receptor-positive breast cancer.
Targeted oncology. 15, 1-4, **2022**

C51. Scarim C.B., Chin C.M.
Recent trends in drug development for the treatment of adenocarcinoma breast cancer: thiazole, triazole, and thiosemicarbazone analogues as efficient scaffolds.
Anti-Cancer Agents Med. Chem. 22(12), 2204-2240, **2022**

T20. Jordan V.C., Curpan R., Maximov P.Y.
Estrogen receptor mutations found in breast cancer metastases integrated with the molecular pharmacology of selective ER modulators.
JNCI-Journal Natl. Cancer Inst. 107(6), djv075, **2015**

C52. Khan M.Z., Uzair M., Nazli A., Chen J.Z.
An overview on estrogen receptors signaling and its ligands in breast cancer.

Eur. J. Med. Chem. 241, 114658, **2022**

C53. Raha F.K., Hasan J., Ali A., Fakayode S.O., Halim M.A.
Exploring the molecular level interaction of Xenoestrogen phthalate plasticisers with oestrogen receptor alpha (ERα) Y537S mutant.
Molecular Simulation. 48(17), 1513-1526, **2022**

C54. Fan P., Jordan V.C.
Estrogen receptor and the unfolded protein response: double-edged swords in therapy for estrogen receptor-positive breast cancer.
Target Oncol. 17(2), 111-124, **2022**

C55. Maximov P.Y., Fan P., Abderrahman B., Curpan R., Jordan V.C.
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Ni-Ti codoped hibonite ceramic pigments by combustion synthesis: crystal structure and optical properties
J. Am. Ceram. Soc. *99*(5), 1749-1760, **2016**

C965. Cheng Q., Chen X., Jiang P., Wang Q., Wang Z., Subramanian M. A.
Synthesis and properties of blue zirconia ceramic based on Ni/Co doped Ba0.956Mg0.912Al10.088O17 blue pigments
J. Eur. Ceram. Soc. *42*(10), 4311-4319, **2022**

C966. Wang Y., Cheng Q., Jiang P., Liu L., Cui K., Li Y.
Synthesis and properties of novel blue zirconia ceramic based on Co/Ni-doped BaAl12O19 blue chromophore
J. Eur. Ceram. Soc. *42*(2), 543-551, **2022**

C967. Ianoș R., Rus I., Lazău R., Păcurariu C.
Near-infrared reflective Ni, La-doped hibonite pigments for cool blue coatings
Ceram. Int. DOI: 10.1016/j.ceramint.2022.08.021, **2022**

T345. Ianoş R., Lazău R., Borcănescu S., Băbuță R.
Single-step combustion synthesis of YAlO3 powders
J. Mater. Sci. *50*(19), 6382-6387, **2015**

C968. Dhapodkar T. S., Kadam A. R., Dhoble S. J.
Combustion-assisted Ca8.25Na1.5Al6O18:Sm3+ phosphors for solid-state lighting and WLED applications
Luminescence DOI:10.1002/bio.4371, **2022**

T346. Ianoş R., Lazău R., Borcănescu S., Băbuță R.
Single-step combustion synthesis of LaAlO3 powders and their sintering behavior
Ceram. Int. *40*(5), **2014**, 7561-7565

C969. Munoz H. J., Korili S.A., Gil A.
Progress and recent strategies in the synthesis and catalytic applications of perovskites based on lanthanum and aluminum
Mater. *15*(9), 3288**, 2022**

T347. Ianoș 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**

C970. Matveyeva A. N., Omarov S. O., Nashchekin A.V., Popkov V. I., Murzin D.Y.
Catalyst supports based on ZnO-ZnAl2O4 nanocomposites with enhanced selectivity and coking resistance in isobutane dehydrogenation
Dalton Trans. *15*(32), 12213-12224, **2021**

C971. Chowdhury T., Chakraborty T., Ghosh A., Das A. K., Das D.
ZnAl2O4 nanomaterial as a naked-eye arsenate sensor: a combined experimental and computational mechanistic approach
ACS Appl. Mater. Interfaces *14*(28), 32457-32473*,* **2022**

C972. Tangcharoen T., Klysubun W., Kongmark C.
Composition dependence of structural, optical, magnetic and photodegradation properties of nanocrystalline nio/cuo heterostructured powders
Phys Status Solidi A. Appl. Mater. Sci. *219*(16), 2200072, **2022**

C973. El-Araby R., Ibrahim M. A., Abdelkader E., Ismail E. H.
(Co/Zn) Al_2O_4 nano catalyst for waste cooking oil catalytic cracking

Sci. Rep. *12*(1), 6667, **2022**

C974. Pipattanaporn P., Pansiri P, Kumpeerakij P., Yaemphutchong S., Siri-apai P, Suetrong N., Chansaenpak K., Singkammo S., Kanjanaboos P., Hanlumyuang Y., Wannapaiboon S., Wattanathana W.
Effect of triethanolamine chelating agent on crystallinities, phase purities, and optical properties of zinc aluminate spinel synthesized by thermal decomposition
Ceram. Inter. 48(6), 8186-8195, **2022**

Anexa 10

O manifestare ştiinţifică (congres, conferinţă, simpozion, workshop) sau şcoală de vară internaţională organizată de institut

Nr. crt	O manifestare ştiinţifică (congres, conferinţă, simpozion) sau şcoală de vară internaţională organizată de institut	**n**	**Punctaj acordat**
1	***The 14th Edition of the Symposium New Trends and Strategies in the Chemistry of Advanced materials with relevance in Biological Systems, technique and Environmental Protection***, 20-21 Octombrie **2022**, Timişoara, România https://www.newtrends-timisoara.ro/	1	10
2	**Workshop Medicinal chemistry in drug discovery, new therapeutical approaches**, *H2020 - INFRADEV-03-2018-2 019, Ensuring long-term sustainability of excellence in chemical biology within Europe and beyond*, 19-20 octombrie **2022**, Timisoara, Romania https://acad-icht.tm.edu.ro/wp/?page_id=154	1	10
	TOTAL	**2**	**20**

Anexa 11

O conferinţă invitată/plenară/*keynote* prezentată la o manifestare ştiinţifică internaţională

Nr. Crt.	Conferinţă invitată/plenară/*keynote* prezentată la o manifestare ştiinţifică internaţională	Punctaj
1	Visa A.(invited speaker), Maranescu B., Lupa L. Metal organic frameworks: complexity and diversity in structures and green applications ***14th Green Chemistry Postgraduate Summer School Online,*** 03-09 Iulie **2022**, Venetia, Italia	10
2	Fagadar-Cosma Eugenia, Invited Plenary Talk, ICTFPA016 Thin film layers based on porphyrins and pseudo-binary-oxides with synergistic effects in corrosion inhibition of steel ***International Conference on Thin-Film Application and Processing-2022, ICTFPA-2022,*** University of Johannesburg, South Africa, 4-5 martie **2022**, (Online event), Thin Film Application-Section	10
TOTAL		**20**

ANEXA 12

COOPERĂRI ŞTIINŢIFICE

a. Schimburi interacademice

1. ***Proiect comun de cercetare Academia Română- CNR Italia 2020-2022***
Titlu proiect: *Insertion of sensitive fluorescent species in structured surfactant-based fluids for advanced photophysics*
Responsabil român: Dr. Elisabeta I. Szerb
Responsabil italian: Dr. Pietro Calandra

2. ***Proiect comun de cercetare Academia Română - Institutul de Morfologie, Patologie si Antropologie Experimentala si Muzeu al Academiei Bulgare de Stiinte 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

b. Colaborari internaţionale bilaterale

1. **Proiect de colaborare bilaterală România-Ungaria 2019-202*2 (Schimburi Interacademice)***, în cadrul acordului încheiat între **Academia Română şi Academia Ungară de Ştiinţe** (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 Ungaria: Dr. Almásy László.

c. Colaborări cu universităţi şi institute internaţionale: 26

- Universitatea din Sheffield, UK - Prof. Ungar G., Dr. Xianbing Zeng
- Xi'an Jiaotong University, R.P. China
- Universitatea Belgrad, Serbia - Prof. Dr. Ivanka Holclajtner-Antunović, Prof. dr. Snezana Uskoković−Marković.
- Universitatea din 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 National 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
- Universitatea Ca`Foscari, Venetia, Italia - Prof. Tundo Pietro, Prof. Arico Fabio
- Institutul de Fizica Aplicata-Chisinau, Moldova - Prof. Dr. Bouros Pavlina, Prof. Dr. Chumakov Yurii, Dr. Croitor Lilia
- University of Technology, Faculty of Technical Chemistry, Institute of Chemical Technologies and Analytics, Viena, Austria - Prof. Günter Fafilek
- The Fundació Institut Català d'Investigació Química, Spain – Profe. Miquel A. Pericàs,

- Istituto per lo Studio delle Macromolecole (ISMAC)-CNR Milano, Italy, The Group of Materials for Electronics and Photonics Group - Researchers Erika KOZMA, Salvatore Iannace
- Institute of Experimental Morphology, Pathology and Anthropology with Museum, Sofia, Bulgaria - Prof.Radostina Alexandrova
- Institute of Neurobiology, Bulgarian Academy of Sciences, Sofia, Bulgaria – Prof. Reni Kalfin
- Wigner Reseach Center of Physics, Budapest, Hungary – TamásVeres
- National Technical University of Athens, Director of Laboratory of Electronic Sensors – Prof. Evangelos Christoforou
- NTNU- Norwegian University of Science and Technology, Trondheim, Gjøvik and Ålesund, Norway - Prof. B. Pollet
- University of Calabria, Department of Chemistry and Chemical Technologies, Italia - Prof. Crispini Alessandra, Dr. Oliviero Rossi Cesare, Dr. La Deda Massimo, Dr. Policicchio Alfonso
- National Council of Research (CNR), Institute of nanostructured materials (ISMN), Roma, Italia - Dr. Calandra Pietro
- Institut de Physique et Chimie des Matériaux de Strasbourg (IPCMS), CNRS-Université de Strasbourg, Strasbourg, Franţa - Dr. Donnio Bertrand
- Wigner Research Centre for Physics, Neutron Spectroscopy Department, Budapest Neutron Centre, Ungaria - Dr. Len Adél, Dr. Almásy László
- IUCN-Institutul Unificat de Cercetări Nucleare, Dubna, regiunea Moscovei, Federația Rusă - Dr. Kuklin Alexander, Dr. Murugova Tatiana, Dr. Ivankov Olexandr

d. Colaborari cu universitati si institute nationale: **15**

- Universitatea din București, Facultatea de Chimie - Prof. Marius Andruh
- Universitatea de Vest Timisoara, Conf. Dr. Paul Barvinschi, Conf. Dr. Ercuţa Aurel
- Institutul national de Cercetare – Dezvoltare pentru Electrochimie si Materie Condensata, Timisoara, Dr.ing. Radu Banica si Dr.ing. Daniel Ursu
- Institutul de Biochimie al Academiei Române, Bucuresti - Dr. Costin-Ioan Popescu
- Universitatea Politehnica Timisoara, Facultatea de Chimie Industriala si Ingineria Mediului, Timisoara, Romania - Prof. Dr. Ianos Robert, Prof. Dr.Ing. Negrea Adina, Dr. Badea Valentin, Prof. Florica Manea
- Universitatea de Medicina si Farmacie "Victor Babes" Timisoara, Facutatea de Farmacie - As.Univ.Dr. Racoviceanu Roxana,
- Universitatea "Politehnica" Timisoara, Facultatea de Chimie Industriala si Ingineria Mediului, Departament Chimie Aplicata si Ingineria Compusilor Organici Naturali**,** Timisoara - Prof.Dr.Ing. Peter Francisc
- Universitatea de Stiinte Agricole si Medicina Veterinara a Banatului „Regele Mihai I al Romaniei" din Timisoara, Facultatea de Horticultura si Silvicultura - Prof. Dr. Sumalan Radu
- Universitatea de Medicina si Farmacie "V. Babes" Timisoara, Disciplina de Biologie Celulara si Moleculara - Conf. Dr. habil. Popescu Roxana
- Universitatea de Medicina si Farmacie "Iuliu Hatieganu" Cluj-Napoca, Fiziologie - Conf. Dr. Baldea Ioana
- Institutul National de Electrochimie şi Materie Condensata Timisoara, Dr. Ţăranu B., Dr. Birdeanu M.
- 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 Stamatin
- ICM „Petru Poni" Iasi, Dr. Maria Cazacu, Prof. Sergiu Shova - Dr. Ana-Maria Macsim,
- Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania - Prof. Danina Muntean
- Institutul de Chimie Macromoleculara „Petru Poni", Iasi - Dr. Nicolescu Alina, Dr. Sergiu Shova, Dr. Săcărescu Liviu

Anexa 13

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

Nr. Crt.	Membru în colectivul de redacţie al unei reviste naţionale/internaţionale (cotată de *Web of Science*, Thomson Reuters sau indexată într-o BDI) sau în colectivul editorial al unor edituri internaţionale consacrate	Punctaj
1	Guest Editor: **Dr. Simona Funar-Timofei, CSI** Special Issue "In Silico Methods Applied in Drug and Pesticide Discovery", ***Molecules* (FI=4.927)**, Journal Open Acces MDPI, section "Chemical Biology", https://www.mdpi.com/journal/molecules/special_issues/In_Silico_Drug_Discovery#editors.	**20**
2	Guest Editor: **Dr. Ana Borota, CSIII** Special Issue "In Silico Methods Applied in Drug and Pesticide Discovery", ***Molecules* (FI=4.927)**, Journal Open Acces MDPI, section "Chemical Biology", https://www.mdpi.com/journal/molecules/special_issues/In_Silico_Drug_Discovery#editors.	**20**
3	Guest Editor: **Dr. Alina Bora, CSII** Special Issue " Natural Compounds Applications in Drug Discovery and Development", ***Processes* (FI=3.352)**, Jurnal Open Acces MDPI; www.mdpi.com/journal/processes/special_issues/9T0L5065FV	**20**
4	Guest Editor: **Dr. Luminita Crisan, CSIII** Special Issue " Natural Compounds Applications in Drug Discovery and Development", ***Processes* (FI=3.352)**, Jurnal Open Acces MDPI; www.mdpi.com/journal/processes/special_issues/9T0L5065FV	**20**
5	Guest Editor: **Dr. Alina Bora, CSII** Special Issue "Natural, Synthetic or Repurposed Anticancer and Antiviral Drugs to Treat Challenging Diseases", ***Processes* (FI=3.352)**, Jurnal Open Acces MDPI; www.mdpi.com/journal/processes/special_issues/Natural_Synthetic_Repurposed_Anticancer	**20**
6	Guest Editor: **Dr. Luminiţa Crişan, CSIII** Special Issue "Synthetic and Natural Compounds with Symmetry/Asymmetry in Medicinal and Environmental Chemistry", ***Symmetry* (FI=2.940)**, Jurnal Open Acces MDPI; www.mdpi.com/journal/symmetry/special_issues/Natural_Compounds_Medicinal_Environmental	**20**
7	Guest Editor: **Dr. Aurelia Visa, CSI** Special Issue „*Structure Determination of Polycrystalline Materials*" ***Crystals* (FI=2.670),** Journal Open Access MDPI www.mdpi.com/journal/crystals/special_issues/structure_determination_of_polycrystalline_materials	**20**
8	Guest Editor: **Dr. CRISAN Manuela, CS III** Special Issue "*Multicomponent Molecular Crystals: An Outlook for the Future*" ***Crystals* (FI = 2.670),** Journal Open Access MDPI	**20**

	www.mdpi.com/journal/crystals/special_issues/multicomponent_molecular_crystals	
9	Reviewer Board member: **Dr. Luminita Crisan, CSIII** **Molecules (IF=4.927),** Jurnal Open Acces MDPI; www.mdpi.com/journal/molecules/submission_reviewers	**20**
10	Reviewer Board member**: Dr. Popa Adriana, CSI** ***Polymers*** **(FI=4.967)**, Journal Open Access MDPI www.mdpi.com/journal/polymers	**20**
11	Editorial Board member**: Dr. Popa Adriana, CS I** ***Reactive and Functional Polymers*** **(FI=4.966**), Elsevier www.journals.elsevier.com/reactive-and-functional-polymers/editorial-board	**20**
12	Guest Editor: **Dr. Eugenia Fagadar-Cosma, CSI** Special Issue: Diversity in Sensing Applications of Porphyrin or Other Macrocyclic Compound-Based Materials **Chemosensors (FI=4.229),** Journal Open Access MDPI www.mdpi.com/journal/chemosensors/special_issues/DSAPMCBM	**20**
13	Guest Editor: **Dr. Eugenia Fagadar-Cosma, CSI** Special Issue: Functionalized Carbon-Based Nanomaterials for Emerging Applications in Optoelectronics, Clean Energy, and Environmental Monitoring **Nanomaterials (FI=5.719),** Journal Open Access MDPI www.mdpi.com/journal/nanomaterials/special_issues/EX626B1P2B	**20**
14	Guest Editor: **Dr. Liliana Cseh, CSI** Special Issue: New Trends in Functional and Multifunctional Advanced Materials ***Applied Sciences*** **(FI = 2.838)**, Jurnal Open Acces MDPI; www.mdpi.com/journal/applsci/special_issues/New_Trends_in_Functional_and_Multifunctional_Advanced_Materials	**20**
15	Guest Editor: **Dr. Liliana Cseh, CSI** Special Issue: Biomedical Analysis of Proteins and Proteomes by Mass Spectrometry **Molecules (IF: 4.927),** Jurnal Open Acces MDPI; www.mdpi.com/journal/molecules/special_issues/protein_analysis_ms	**20**
16	Guest Editor: **Dr. Elisabeta Ildyko Szerb, CSI** Special Issue: New Trends in Functional and Multifunctional Advanced Materials ***Applied Sciences*** **(FI = 2.679)**, Jurnal Open Acces MDPI www.mdpi.com/journal/applsci/special_issues/New_Trends_in_Functional_and_Multifunctional_Advanced_Materials	**20**
17	Guest Editor: **Dr. Elisabeta Ildyko Szerb, CSI** Special Issue: Metals-Based Functional Advanced Materials: Challenges and Trends ***Frontiers in Chemistry*** **(FI = 5.221)**, Jurnal Gold Open Access www.frontiersin.org/research-topics/28375/metals-based-functional-advanced-materials-challenges-and-trends	**20**
16	Guest Editor: **Dr. Sorina Ilies, CSIII** Special Issue: Advanced Electrochemical Sensors or Biosensors Based on Nanomaterial ***Chemosensors*** **(FI=4.229)**, Journal Open Access MDPI; www.mdpi.com/journal/chemosensors/special_issues/9F5413JV85	**20**
17	Guest Editor: **Dr. Sorina Ilies, CSIII** Special Issue: Functionalized Silica Materials: Preparation and Applications ***Materials*** **(FI = 3.749)**, Jurnal Open Access MDPI; www.mdpi.com/journal/materials/special_issues/silica_porous_material	**20**
18	Guest Editor: **Dr. Sorina Ilies, CSIII** Special Issue: Advanced Nanostructured Materials for Gas Capture and Storage Applications: Challenges and Trends	**20**

	Frontiers in Materials **(FI = 3.985)**, Jurnal Open Access Frontiers; www.frontiersin.org/research-topics/33807/advanced-nanostructured-materials-for-gas-capture-and-storage-applications-challenges-and-trends	
19	Editorial Board member**: Dr. Elisabeta Ildyko Szerb, CSI** **Scientific and Technical Bulletin, Series: Chemistry, Food Science and Engineering, Arad,** Web Edition ISSN: 2668-4764 (on-line) www.uav.ro/jour/index.php/stb-cfse/about/editorialTeam	**20**
20	Membru in colectivul editorial: **Dr. Alina Bora** (2022 – prezent) ***Bull. Soc. Chim. Rom***, ISSN 2066-2971, Buletin al Societatii de Chimie din Romania www.schr.ro/publicatii/buletinul-societatii-de-chimie-din-romania/	**20**
21	Membru in colectivul editorial: **Dr. Otilia Costisor** ***Rev. Roum. Chim***., https://revroum.lew.ro/	
22	Editorial Board member**: Dr. Eugenia Fagadar-Cosma, CSI** **Advances in Applied Science Research**	**20**
23	Editorial Board member**: Dr. Eugenia Fagadar-Cosma, CSI** **American Journal of Organic Chemistry** www.sapub.org/journal/editorialdetails.aspx?JournalID=1035&PersonID=15286	**20**
24	Editorial Board member**: Dr. Eugenia Fagadar-Cosma, CSI** **New Frontiers in Chemistry** www.newfrontchem.iqstorm.ro/editors.php	**20**
25	Editorial Board member**: Dr. Eugenia Fagadar-Cosma, CSI** **Open Journal of Biological Sciences** www.peertechzpublications.com/index.php/editor/eugenia-lenuta-fagadar-cosma	**20**
26	Editorial Board member**: Dr. Eugenia Fagadar-Cosma, CSI** **Asian Journal of Physical and Chemical Sciences** www.journalajopacs.com/index.php/AJOPACS/eugenia-lenuta-fagadar-cosma	**20**
27	Editorial Board member**: Dr. Eugenia Fagadar-Cosma, CSI** **Journal of Solar Energy Research Updates** www.zealpress.com/eugenia-fagadar-ebm-jseru/	**20**
28	Editorial Board member**: Dr. Eugenia Fagadar-Cosma, CSI** **Journal of Biochemistry and Pharmacology** https://madridge.org/editorial_board_member/Eugenia-Lenuta-FAGADAR-COSMA	**20**
30	Editorial Board member**: Dr. Eugenia Fagadar-Cosma, CSI** **Insights in Chemistry & Biochemistry** https://irispublishers.com/icbc/editorialboard.php	**20**
31	Editorial Board member**: Dr. Eugenia Fagadar-Cosma, CSI** **Nanomedicine And Nanotechnology Journal,** Journal Open Acces https://scientificliterature.org/nanomedicine-and-nanotechnology-editorial-board.html	**20**
32	Editorial Board member**: Dr. Eugenia Fagadar-Cosma, CSI** **J. Materials,** Journal Open Acces SCIREA www.scirea.org/journal/EditorialBoard?JournalID=43000#7970	**20**
33	Editorial Board member**: Dr. Eugenia Fagadar-Cosma, CSI** **Der Chemica Sinica,** Journal Open Acces www.imedpub.com/der-chemica-sinica/editors.php	**20**
	TOTAL	**640**

Anexa 14

Un brevet aplicat

Nr. crt	Criteriu la nivel naţional	n	Punctaj acordat
1	**Titlu brevet:** Procedeu de detecţie electrochimică rapidă și cu sensibilitate ridicată a capecitabinei din soluţii apoase folosind electrod pastă de nanotuburi de carbon, grafen și cristale lichide pe bază de combinații complexe ale Cu(I) **Autori**: Sorina Motoc, Florica Manea, Szerb Elisabeta, Cretu Carmen **Număr cerere brevet**: A00490/**2022**	1	**10**
TOTAL		1	**10**

ANEXA 15

ALTE REZULATATE 2022

CERCETATORI CU UN INDICE HIRSCH PESTE 8: 22

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

- Recenzori/referenti pentru lucrari stiintifice – **19 persoane/ 319 prezente**
- Referenti evaluatori externi pentru programe ale Comisiei Europene – **4 cercetatori**

PARTICIPĂRI LA CURSURI DE SPECIALIZARE: 5

1. **Dr. CURPĂN Ramona** - Institute of Molecular Genetics of the ASCR, Praga, Cehia.
   Titlul: " *Compound logistics course",*
   Perioada: *17-18 Martie **2022***
2. **Dr. CRIȘAN Luminița** - Institute of Molecular Genetics of the ASCR, Praga, Cehia.
   Titlul: " *Compound logistics course",*
   Perioada: *17-18 Martie **2022***
3. **Dr. CURPĂN Ramona** - EU – OPENSCREEN, Berlin, Germania – ediţie online.
   Titlul: " *Autumn training school"*
   Perioada: *15-19 Noiembrie **2021** (neraportat in anul 2021)*
4. **Dr. BORA Alina** - EU – OPENSCREEN, Berlin, Germania – ediţie online.
   Titlul: " *Autumn training school"*
   Perioada: *15-19 Noiembrie **2021** (neraportat in anul 2021)*
5. **Dr. CRIȘAN Luminița** - EU – OPENSCREEN, Berlin, Germania – ediţie online.
   Titlul: " *Autumn training school"*
   Perioada: *15-19 Noiembrie **2021** (neraportat in anul 2021)*

STAGII DE CERCETARE ÎN ȚARĂ/STRĂINĂTATE: 3

1. **Dr. VISA Aurelia** - Stagiu de cercetare în cadrul Proiectului PN-III-P4-PCE-2021-0089, nr. Contract PCE 24/2022
   Titlul: Metal Organic Frameworks: from GREEN Synthesis to GREEN Applications
   Perioada: 29 iunie-3 Iulie **2022**
2. **Dr. CSEH Liliana**: Stagiu de cercetare la European Synchrotron Radiation Facility (ESRF), University of Warwick , Grenoble, Franţa.
   Valoare grant: 850 euro, finantare University of Warwick
   Perioada: 07 martie 2022 – 13 martie **2022**
3. **Dr. PUTZ Ana-Maria**: Stagiu de colaborare ştiinţifică-proiect comun, în cadrul relaţiilor de schimb interacademic, la Centre for Energy Research, Academia Ungară de Ştiinte, Budapesta.
   Titlul: Preparation and applications of functionalized mesoporous silica
   Perioada: 20.06.2022-24.06.**2022**

DEPLASĂRI ÎN STRĂINĂTATE PENTRU PARTICIPĂRI LA CONFERINŢE: 5

1. **CURPAN Ramona** – participare la ***23rd European Symposium on Quantitative Structure-Activity Relationships & Molecular Modelling: EuroQSAR 2022***, 26-30 September, **2022**, Heidelberg, Germany
2. **HALIP Liliana** – participare la ***23rd European Symposium on Quantitative Structure-Activity Relationships & Molecular Modelling: EuroQSAR 2022***, 26-30 September, **2022**, Heidelberg, Germany
3. **AVRAM Sorin** – participare la ***23rd European Symposium on Quantitative Structure-Activity Relationships & Molecular Modelling: EuroQSAR 2022***, 26-30 September, **2022**, Heidelberg, Germany
4. **BUTA Ildiko** - participare la conferința ***14th National Società Italiana Cristalli Liquidi Conference (SICL),*** 22 – 23 September **2022**, Padova, Italia
5. **ANDELEASCU Adelina** - participare la conferința ***14th National Società Italiana Cristalli Liquidi Conference (SICL),*** 22 – 23 September **2022**, Padova, Italia

LUCRĂRI PUBLICATE CA REZUMAT LA CONFERINŢE, CONGRESE ŞI SIMPOZIOANE:

- internaționale: **37** lucrări publicate ca rezumat
- naționale: **6** lucrări publicate ca rezumat

STUDII DE IMPACT SI SERVICII COMANDATE DE UN BENEFICIAR: 1

1. Visa A., Maranescu B., Lupa L. Cocheci L., Plesu N., Ilia Gh., Popa A., Muntean S., Macarie L, Tolea S., Iosivoni M.
Retele Metal Organice: de la Sinteza Verde la Aplicatii Prietenoase cu Mediul Inconjurator
Contract de finantare nr. PCE 24/2022 incheiat intre UEFISCDI si Institutul de Chimie "Coriolan Dragulescu"

ACTIVITĂŢI DE DISEMINARE A ACTIVITATII ICT: 2

1. **Participarea ICT** la evenimentul ***"Noaptea Cercetatorilor Europeni 2022"*** proiect din cadrul Evenimentelor Marie Skłodowska-Curie, 30 septembrie **2022**.
www.noapteacercetatorilor.eu/timisoara
2. **Participarea ICT** la programul "***Educaţia e cheia***", proiect "***Teach with inEDU***", derulat în perioada 3-10 octombrie **2022**.

ACTIVITATI DE VOLUNTARIAT IN CADRUL ICT: 1

1. BRUTARU VLAD ANDREI - activitate de voluntariat desfăsurată la ICT, 05.09– 30.09.**2022**
Coordonatori de voluntar: Dr. Cretu Carmen, Dr. Visa Aurelia, Dr. Crisan Luminita.

MEMBRI ÎN CONDUCEREA UNEI ORGANIZATII INTERNATIONALE/NAŢIONALE DE SPECIALITATE: 3

1. **IUPAC**

Dr. Aurelia Visa - ***Associate member***
Interdivisional Committee on Green Chemistry for Sustainable Development (ICGCSD) – International Union of Pure and Applied Chemistry

2. **Societatea de Chimie din România, Filiala Timişoara**

Vicepreşedinte
Dr. MACARIE Lavinia (până în iunie 2021)
Dr. SZERB Elisabeta-Ildyko (din iulie 2021)

Secretar trezorier
Dr. BORA Alina

3. Dr. FĂGĂDAR-COSMA Eugenia-Lenuța ***membru (expert) în Comisia****: 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

- ***membra*** din 28.06.2014 a grupului *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/

SELECTIE COVER STORY - JURNALE MDPI: 2

1. **Cover Story - *Nanomaterials* 2022 (FI=5.719)**
   https://www.mdpi.com/2079-4991/12/11
   Articol: One A3B Porphyrin Structure—Three Successful Applications, Ion Fratilescu, Anca Lascu, Bogdan Ovidiu Taranu, Camelia Epuran, Mihaela Birdeanu, Ana-Maria Macsim, Eugenia Tanasa, Eugeniu Vasile and Eugenia Fagadar-Cosma
   ***Nanomaterials* 2022**, 12(11), 1930; doi:10.3390/nano12111930

2. **Cover Story - Chemosensors 2022 (FI=3.398)**
   https://www.mdpi.com/2227-9040/10/4
   Articol: Excellent Cooperation between Carboxyl-Substituted Porphyrins, k-Carrageenan and AuNPs for Extended Application in CO2 Capture and Manganese Ion Detection
   Camelia Epuran, Ion Fratilescu, Ana-Maria Macsim, Anca Lascu, Catalin Ianasi, Mihaela Birdeanu and Eugenia Fagadar-Cosma
   ***Chemosensors* 2022**, 10(4), 133; doi:10.3390/chemosensors10040133