



Formular de auto-evaluare a performanțelor în vederea obținerii unei gradații de merit

Nume și prenume cercetător: Cătălina-Ionica CIOBANU

Titlu științific: CS III dr.

Perioada pentru care se face raportarea: 01.01.2020-31.12.2024

Criteriul I: ACTIVITATEA DE CERCETARE 80%	Punctaj
DESCRIPTORI	
1. Articole științifice publicate in extenso în reviste cotate Web of Science, Clarivate Analytics (60 puncte x AIS) + 25- autor principal (60 puncte x AIS + 25) / numar autori) - co- autor	
1. Drochioiu, G., Mihalcea, E., Lagobo, J., Ciobanu, C. -I. Rapid Tryptophan Assay as a Screening Procedure for Quality Protein Maize, <i>Molecules</i> , 29(18), 4341, 2024, AIS= 0,677, COAUTOR (nr. autori = 4)	16,405
2. Berladean, I., Epure, E.-L., Ciobanu, C.I. , Carlescu, I., Boussoualem, Y., Danjou, P. E., Bhat, V., Duponchel, B., Hurduc, N., Daoudi, A., Novel antiferroelectric materials with resorcinol-based symmetrical fluorinated bent-core mesogens, <i>Journal of Molecular Liquids</i> , 388, 122753, 2023, AIS=0,671, COAUTOR (nr. autori = 10)	6,526
3. Amarandi, R.M., Al-Matarneh, M.C., Popovici, L., Ciobanu, C.I. , Neamțu, A., Mangalagiu, I.I., Danac, R., Exploring pyrrolo-fused heterocycles as promising anticancer agents: an integrated synthetic, biological and computational approach, <i>Pharmaceuticals</i> , 16(6), 865, 2023, AIS= 0,800, COAUTOR (nr. autori = 7)	10,428
4. Epure, E.L., Lisa, G., Simion, G., Simion, A., Ciobanu, C.I. , Carlescu, I., Thermal behavior, decomposition mechanism by TG/MS/FTIR technique and theoretical study of some symmetric and asymmetric bent-core liquid crystals based on 2, 7- dihydroxynaphthalene, <i>Journal of Thermal Analysis and Calorimetry</i> , 147, 12033–12045, 2022, AIS= 0,426, COAUTOR (nr. autori = 6)	8,426
5. Zbancioc, G., Ciobanu, C.I. , Mangalagiu, I.I., Moldoveanu, C., Ultrasound-Assisted Synthesis of Fluorescent Azatetracyclic Derivatives: An Energy-Efficient Approach, <i>Molecules</i> , 27 (10), 3180, 2022, AIS=0,677, COAUTOR (nr. autori = 4)	16,405
6. Lupaescu, A.-V., Mocanu, C.S., Drochioiu, G., Ciobanu, C.-I. , Zinc Binding to NAP-type neuroprotective peptides: nuclear magnetic resonance studies and molecular modeling, <i>Pharmaceuticals</i> , 14(10), 1011, 2021, AIS= 0,800, AUTOR Corespondent	73
7. Ciobanu, C.-I. , Berladean, I., Epure, E.-L., Simion, A., Lisa, G., Boussoualem, Y., Carlescu, I., Mesomorphic and thermal behavior of symmetric bent-core liquid	48,64

crystal compounds derived from resorcinol and isophthalic acid, <i>Crystals</i> , 11(10), 1215, 2021. AIS=0,394, AUTOR	
8. Bucur, S., Niculaua, M., Ciobanu, C.-I. , Lungu, N.C., Mangalagiu, I., A simple synthesis route for selectively methylated β -cyclodextrin using a copper complex sandwich protecting strategy, <i>Molecules</i> , 26(18), 5669, 2021. AIS= 0,677, COAUTOR (nr. autori = 5)	13,124
9. Necula, R., Zaharia, M., Butnariu, A., Zamfirache, M.-M., Surleva, A., Ciobanu, C.I. , Pintilie, O., Iacoban, C., Drochioiu, G., Heavy metals and arsenic in an abandoned barite mining area: ecological risk assessment using biomarkers, <i>Environmental Forensics</i> , 24(3-4), 164-175, 2021. AIS= 0,322, COAUTOR (nr. autori = 9)	4,924
10. Amăriucăi-Mantu, D., Mangalagiu, V., Ciobanu, C.-I. , Antoci, V., Hybrid pyridine bis-anthracene-imidazolium salt: NMR studies on Zn-acetate complexation, <i>Molbank</i> , 2021(3), M1280, 2022. AIS= 0,055, COAUTOR (nr. autori = 4)	7,075
11. Sardaru, M. C., Craciun, A. M., Al Matarneh, C. M., Sandu, I. A., Amarandi, R. M., Popovici, L., Ciobanu, C.-I. , Peptanariu, D., Pinteala, M., Mangalagiu, I., Danac, R., Cytotoxic substituted indolizines as new colchicine site tubulin polymerisation inhibitors, <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 35(1), 1581–1595, 2020. AIS= 0,724, COAUTOR (nr. autori = 11)	6,221
12. Danac, R., Pui, A., Corja, I., Amarandi, R.-M., Ciobanu, C.- I. , Apostu, M.-O., Palamarcu, O., New M(II) (M=Mn, Co, Ni, Cu, Zn, Pd) coordinative compounds with 2-formylpyridine S-methyl-isothiosemicarbazide, <i>Journal of Molecular Structure</i> , 1207, 127747, 2020. AIS= 0,385, COAUTOR (nr. autori = 7)	6,871
13. Lupaescu, A. V., Humelnicu, I., Petre, B. A., Ciobanu, C.- I. , Drochioiu, G., Direct evidence for binding of aluminum to NAP anti-amyloid peptide and its analogs, <i>European Journal of Mass Spectrometry</i> , 26(2), 106-116, 2020. AIS=0,194, COAUTOR (nr. autori = 5)	7,328
Subtotal 1	225,373
2. Cărți științifice de autor	
(monografii, tratate, îndrumare, culegeri) publicate (pentru prima ediție) în edituri:	
În străinătate (Metoda de calcul: 30 puncte la 100 pagini / număr autori), indexate WorldCat	
În țară acreditate de CNCS (Metoda de calcul: 40 puncte la 100 pagini / număr autori) Pentru edițiile revizuite și adăugate se va acorda jumătate din punctaj	
Subtotal 2	
3. Contracte de cercetare științifică obținute prin competiție derulate în ultimii 5 ani prin universitate, cu finanțare internațională sau națională	
Director de proiect (Metoda de calcul: 100 puncte *valoare grant in euro /100.000 Euro)	
Membru echipă proiect (Metoda de calcul: 25 puncte *valoare grant in euro /100.000 Euro / nr. membri echipa)	
Subtotal 3	
4. Brevete	
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(Metoda de calcul: 75 puncte / număr de autori)	
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(Metoda de calcul: 25 puncte / număr de autori)	
Subtotal 4	
5. Produse și servicii inovative cu impact economic demonstrabil prin documente emise de autorități legale (OSIM, RENAR, ASRO)	
În străinătate: 40 puncte/nr. autori	
În țară: 30 puncte/nr. autori	
6. Citări și recenzii ale creației de autor obținute în ultimii 5 ani (exclus autocitari/o citare se va cuantifica o singură dată)	
În reviste de specialitate indexate Web of Science, Clarivate Analytics	
Metoda de calcul: $(10 + 20 \times AIS)$ / număr autori: AIS-ul este al revistei care citează	
1. Lucrarea: Drochioiu, G., Ciobanu, C.-I., Bancila, S., Ion, L., Petre, B. A., Andries, C., Gradinaru, R.-V., Murariu, M., Ultrasound-based protein determination in maize seeds, <i>Ultrasonics Sonochemistry</i> , 29, 93-103, 2016. (Număr de autori: 8)	
1. Negi, P., Kalsi, R., Bhasin, J. K., Kashyap, P., Thakur, A., & Goksen, G. Ultrasound-driven advancements in food waste protein extraction: Assessing yield, nutritional impacts, techno-functionality, and structural modifications. <i>Sustainable Chemistry and Pharmacy</i> , 42, 101767, 2024, AIS:0,729	3.072
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3. Tu, K., Wen, S., Cheng, Y., Xu, Y., Pan, T., Hou, H., ... & Sun, Q. (2022). A model for genuineness detection in genetically and phenotypically similar maize variety seeds based on hyperspectral imaging and machine learning. <i>Plant Methods</i> , 18(1), 81. AIS:1,118	4.045
4. Das, M., Devi, L. M., & Badwaik, L. S. (2022). Ultrasound-assisted extraction of pumpkin seeds protein and its physicochemical and functional characterization. <i>Applied Food Research</i> , 2(1), 100121. AIS:0,601	2.752
5. Jin, S., Zhang, W., Yang, P., Zheng, Y., An, J., Zhang, Z., ... & Pan, X. (2022). Spatial-spectral feature extraction of hyperspectral images for wheat seed identification. <i>Computers and Electrical Engineering</i> , 101, 108077. AIS:0,678	2.945
6. Alfalahi, A. O., Alobaidy, B. S., Almarie, A. A., Dhanoon, O. M., Qasem, J. R., Almehemdi, A. F., & Najda, A. (2022). Ultrasonic treatment enhances germination and affects antioxidant gene expression in soybean (<i>Glycine max</i> L. Merr). <i>Agronomy</i> , 12(10), 2446. AIS:0,503	2.507
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9. Lupaescu, A.V., Ion-Darie, L., Oroian, M., Proteomic analysis and antioxidant evaluation of ultrasound-assisted pollen extracts, <i>Acta Chemica IASI</i> , 2022, 30(2), 138-150, AIS:0,088	1.47
10. Didpinrum, P., Siriangkawut, W., Ponhong, K., Chantiratikul, P., Grudpan, K. (2021). A newly designed sticker-plastic sheet platform and smartphone-based digital imaging for protein assay in food samples with downscaling Kjeldahl digestion. <i>RSC advances</i> , 11(58), 36494-36501. AIS:0,598	2.745

11. Chi, C. H., & Cho, S. J. (2020). Extraction solvent's effect on protein profiles of processed soybean meal. <i>Food Bioscience</i> , 37, 100734. AIS:0,656	2.89
2.Lucrarea: Bancila, S., Ciobanu, C.- I., Murariu, M., Drochioiu, G., Ultrasound-assisted zein extraction and determination in some patented maize flours, <i>Revue Roumaine de Chimie</i> , 61(10), 725-731, 2016. (<i>Număr de autori: 4</i>)	
1. Rodsuwan, U., Vatanyoopaisarn, S., Thumthanaruk, B., Thisayakorn, K., Uttapap, D., Zhong, Q., & Rungsardthong, V. (2024). Physicochemical properties of spray-dried microcapsules prepared with gamma oryzanol pre-encapsulated in zein nanoparticles and maltodextrin as a drying agent. <i>Food and Bioprocess Technology</i> , 1-14. AIS:0,657	5.785
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4. Mneimneh, A. T., Hayar, B., Al Hadeethi, S., Darwiche, N., & Mehanna, M. M. (2024). Application of Box-Behnken design in the optimization and development of albendazole-loaded zein nanoparticles as a drug repurposing approach for colorectal cancer management. <i>International Journal of Biological Macromolecules</i> , 281, 136437. AIS:0,969	7.345
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9. Darie-Ion, L., Jayathirtha, M., Hitruc, G. E., Zaharia, M. M., Gradinaru, R. V., Darie, C. C., ... & Petre, B. A. (2021). A proteomic approach to identify zein proteins upon eco-friendly ultrasound-based extraction. <i>Biomolecules</i> , 11(12), 1838. AIS:1,047	7.735
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1581–1595, 2020 (Număr de autori: 6)		
1. Saruengkanphasit, R., Ngiwsara, L., Lirdprapamongkol, K., Chatwichien, J., Niwetmarin, W., Eurtivong, C., ... & Ruchirawat, S. (2024). Synthesis, in-silico, in-vitro evaluation of furanyl-and thiophenyl-3-phenyl-1 H-indole-2-carbohydrazide derivatives as tubulin inhibitors and anticancer agents. <i>RSC Medicinal Chemistry</i> . AIS:0,896	4.653	
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3. Al-Matarneh, C. M., Pinteala, M., Nicolescu, A., Silion, M., Mocci, F., Puf, R., ... & Gratterer, P. (2024). Synthetic Approaches to Novel Human Carbonic Anhydrase Isoform Inhibitors Based on Pyrrol-2-one Moiety. <i>Journal of Medicinal Chemistry</i> , 67(4), 3018-3038. AIS:1,652	7.173	
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5. Amarandi, R. M., Al-Matarneh, M. C., Popovici, L., Ciobanu, C. I., Neamtu, A., Mangalagiu, I. I., & Danac, R. (2023). Exploring Pyrrolo-Fused Heterocycles as Promising Anticancer Agents: An Integrated Synthetic, Biological, and Computational Approach. <i>Pharmaceuticals</i> , 16(6), 865. AIS:0,800	4.333	
6. Amariuca-Mantu, D., Antoci, V., Sardaru, M. C., Al Matarneh, C. M., Mangalagiu, I., & Danac, R. (2023). Fused pyrrolo-pyridines and pyrrolo-(iso) quinoline as anticancer agents. <i>Physical Sciences Reviews</i> , 8(9), 2583-2645. AIS:0,390	2.966	
7. da Silva, T. S., da Silva Souza, M., Andricopulo, A. D., & Coelho, F. (2023). Discovery of indolizine lactones as anticancer agents and their optimization through late-stage functionalization. <i>RSC advances</i> , 13(29), 20264-20270. AIS:0,598	3.66	
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9. Al-Matarneh, M. C., Amārandi, R. M., Mangalagiu, I. I., & Danac, R. (2021). Synthesis and biological screening of new cyano-substituted pyrrole fused (iso) quinoline derivatives. <i>Molecules</i> , 26(7), 2066. AIS:0,677	3.923	
10. Saruengkanphasit, R., Butkinaree, C., Ornnork, N., Lirdprapamongkol, K., Niwetmarin, W., Svasti, J., ... & Eurtivong, C. (2021). Identification of new 3-phenyl-1H-indole-2-carbohydrazide derivatives and their structure-activity relationships as potent tubulin inhibitors and anticancer agents: A combined in silico, in vitro and synthetic study. <i>Bioorganic Chemistry</i> , 110, 104795. AIS:0,660	3.866	
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12. Sardaru, M. C., Carp, O., Ursu, E. L., Craciun, A. M., Cojocaru, C., Silion, M., ... & Rotaru, A. (2020). Cyclodextrin encapsulated pH sensitive dyes as fluorescent cellular probes: self-aggregation and in vitro assessments. <i>Molecules</i> , 25(19), 4397. AIS:0,677	3.923	
13. Sokolova, E. A., Festa, A. A., Subramani, K., Rybakov, V. B., Varlamov, A. V., Voskressensky, L. G., & Van der Eycken, E. V. (2020). Microwave-assisted synthesis of fluorescent pyrido [2, 3-b] indolizines from alkylpyridinium salts and enaminones. <i>Molecules</i> , 25(18), 4059. AIS:0,677	3.923	
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1. Mardanyan, S., Sharoyan, S., & Antonyan, A. (2024). Diversity of amyloid beta peptide actions. <i>Reviews in the Neurosciences</i> , (0). AIS:1,081	4.517
2. Yu, X., Liu, X., & Zhou, D. (2024). A critical review of a typical research system for food-derived metal-chelating peptides: Production, characterization, identification, digestion, and absorption. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 23(1), e13277. AIS:2,487	8.534
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4. Mocanu, C. S., Niculaua, M., Zbancioc, G., Mangalagiu, V., & Drochioiu, G. (2022). Novel design of neuropeptide-based drugs with β -sheet breaking potential in amyloid-beta cascade: Molecular and structural deciphers. <i>International Journal of Molecular Sciences</i> , 23(5), 2857. AIS:1.055	4.442
5. Liu, Q., Wu, TZ; Ma, YF; Liu, SY; Xia, XJ; Sun, WF Novel Multiple-Layer Stack Capacitor and Its Application in the IRPFA Readout Circuit, 2021, <i>IEEE ACCESS</i> , 9, 161806-161813. AIS:0,698	3.422
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4. Guo, H., Yu, Y., Hong, Z., Zhang, Y., Xie, Q., & Chen, H. (2021). Effect of collagen peptide-chelated zinc nanoparticles from pufferfish skin on zinc bioavailability in rats.	2.914

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<p><i>Decani: 40 puncte anual</i> <i>Prodecani, Directori departamente interdisciplinare, Director scoala doctorala, Director ID, Director centru de studii europene, Gradina Botanica, Muzeu, Statiuni de cercetare: 35 puncte anual</i> <i>Director Departament Facultate: 30 puncte anual</i> <i>Coordonator Laborator, grup, colectiv: 10 puncte anual</i></p>	
<p>4. Responsabilitati in cadrul Senatului Universitatii/Consiliului Facultatii/ Consiliului Departamentului <i>Metoda de calcul:</i> Senat: presedinte- 30 puncte anual vicepresedinte- 25 puncte anual presedinte al unei comisii de specialitate- 20 puncte anual/membru-15 puncte anual Facultate: 10 puncte anual Departament: 5 puncte anual</p>	
Responsabila cu detinerea si raportarea trimestriala la CNCAN a stocului de reactivi chimici deuterati din Facultatea de Chimie, conform autorizatiei valabila in perioada 05.03.2020-04.03.2025	5ani x10 pct.= 50.000
Responsabila in Centrul CERNESIM cu folosirea infrastructurii in inregistrarea experimentelor RMN, respectiv Spectrometrul RMN Bruker Avance III de 500 MHz, pentru studentii Facultatii de Chimie din ciclul de licenta, in vederea finalizarii lucrarii de licenta, 2020-2024	5ani x10 pct.= 50.000
Responsabila in Centrul CERNESIM cu folosirea infrastructurii in inregistrarea experimentelor RMN, respectiv Spectrometrul RMN Bruker Avance III de 500 MHz, pentru studentii masteranzi ai Facultatii de Chimie in vederea finalizarii lucrarii de disertatie, 2020-2024	5ani x10 pct.= 50.000
Responsabila in Centrul CERNESIM cu folosirea infrastructurii in inregistrarea experimentelor RMN, respectiv Spectrometrul RMN Bruker Avance III de 500 MHz, pentru studentii doctoranzi din Facultatea de Chimie in vederea finalizarii tezei de doctorat, 2020-2024	5ani x10 pct.= 50.000
<p>5. Membru in comisii ale Universitatii avizate de Senat (Comisia de Etica, Comisia pentru managementul calitatii, Comisia de regulamente, etc.,) 10 puncte anual/comisie</p>	
Membru in Comisia electorala responsabila cu organizarea alegerilor pentru functiile de conducere academica la nivelul ICI-UAIC 2024	10.000
<p>6. Membru in comisii de concurs in vederea ocuparii unui post didactic ori de cercetare in invatamantul universitar 5 puncte /comisie</p>	
<p>7. Membru in comisii de doctorat (admitere, indrumare, sustinere publica) strainatate: 5 puncte pentru fiecare activitate tara: 2 puncte pentru fiecare activitate</p>	
<p>8. Proiecte pentru mobilitati de tip grant Coordonator: 20 puncte x valoarea proiectului/500.000 Euro Membru: 10 puncte x valoarea proiectului/500.000 Euro/nr. membrilor echipei</p>	
TOTAL II	245.000
TOTAL I +II	1231.08

Criterii suplimentare de eligibilitate:

- Îndeplinirea punctajelor minime la evaluările anuale ale activității de cercetare
- Raportarea activității anuale de cercetare care stă la baza accesării finanțării suplimentare
- Participarea la evaluările prevăzute de actele normative în vigoare și regulamentele UAIC

Data: 10.01.2025

CS III dr. Cătălina-Ionica CIOBANU
Laborator L1 – Centrul CERNESIM

