ACADEMIA ROMÂNĂ
SCOSAAR

Anexa nr.3

AVIZAT,

Director ŞCOALA DOCTORALĂ DE ŞTIINŢELE VIEŢII

CSI Dr. FELICIA ANTOHE

1. Îndeplinirea standardelor IOSUD superioare standardelor minimale naţionale* [] DA|
   [] | NU

2. Îndeplinirea standardelor IOSUD egale standardelor minimale naţionale* [x] DA|
   [] | NU

FIŞA DE ÎNDEPLINIRE A STANDARDELOR IOSUD

FIŞA DE VERIFICARE
a îndeplinirii standardelor IOSUD

Candidat: Dr. Catană Rodica Daniela

Data: 3.02.2026

Semnătura: Rcatana

*se va alege una dintre variante

ACADEMIA ROMÂNĂ
SCOSAAR

COMISIA DE BIOLOGIE ŞI BIOCHIMIE

FIŞA DE EVALUARE
în raport cu O.M.E.N. 6129/2016

A. Condiţii preliminare obligatorii

1. Calificarea profesională: titlul de doctor în specialitatea disciplinei postului sau înrudită cu aceasta. Doctor în Biologie, Diplomă eliberată de Academia Romana, nr. 4226 din 15.06.2010 şi atestat seria D, nr. 0000030, eliberat de Ministerul Educaţiei, Cercetării, Tineretului şi Sportului
Titlu teză: Utilizarea tehnicilor *in vitro* în vederea conservării speciilor de plante din Masivul Piatra Craiului.

2. Articole ştiinţifice ca autor principal (pentru abilitare): minimum 4 articole în reviste cotate ISI cu AIS cumulat mai mare sau egal cu 4, din care 2 articole cu AIS de cel puţin 0,3 în ultimii 5 ani (2021-2026).

AIS cumulat = AIS Archives of Biological Sciences Belgrade 2012 0.088 + AIS Romanian Biotechnological Letters 2018 0.08 + AIS Romanian Biotechnological Letters 2018 0.08 + AIS Agrolife scientific journal 2020 0.105 + AIS Farmacia 2020 0.112 + AIS Journal of Fungi 2022 0.978 + AIS Plants 2022 0.623 + AIS Bangladesh Journal of Botany 2022 0.048 + AIS Molecules 2022 0.66 + AIS Toxics 2022 0.721 + AIS Sustainability 2023 0.533 + AIS Toxics 2023 0.734 + AIS pharmaceutics 2023 0.798 + AIS International Journal Of Ayurvedic Medicine 2023 0.012 + AIS Journal of Fungi 2023 0.875 + AIS Forests2023 0.464 + AIS Toxics 2023 0.734 + AIS AgroLife Scientific Journal 2023 0.074 + AIS Horticulturae 2024 0.416 + AIS Metabolites 2024 0.869 + AIS Fermentation 2024 0.485 + AIS Notulae Botanicae Horti Agrobotanici Cluj-Napoca 2024 0.204 + AIS Water 2024 0.526 + AIS Metabolites 2024 0.869 + AIS Toxics 2024 0.824 +AIS Pharmaceuticals 2024 0.872 + AIS Agriculture 2024 0.534 + AIS Aquatic Conservation: Marine and Freshwater Ecosystems 2024 0.634 + AIS *Phycology 2024* 0.538 + AIS *Fermentation* 2024 *0.485* + AIS Scientific Papers. Series B. Horticulture 2024 0.025 + AIS Scientific Papers. Series B. Horticulture 2024 0.025 + AIS Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering 2024 0.025 + AIS *Diversity 2024* 0.513 + AIS Scientific Reports 2024 1.031 = 16.056 (conform Web of Science Core Collection)

În ultimii 5 ani:

1. Raluca A. Mihai, Ramiro F. Vivanco Gonzaga, Fabián A. Silva Ayo, Romina A. López Mendoza, Mishell A. Nicolalde Padilla, Jeimy E. Calahorrano Cabrera, Alvarez R. Chuma, **Rodica D. Catană, 2026,** Host-Dependent Variations in Antioxidant Activity, Metabolic Profile, and Phenolic Content of the Parasitic Plant *Phoradendron nervosum* Oliv., Scientific Reports, 16, 1556. https://doi.org/10.1038/s41598-025-27242-z **AIS $_{2024}$ = 1.031**
2. Florescu, L.I.; Moldoveanu, M.M.; Dumitrache, C.A.; **Catană, R.D.** Zooplankton Indicators of Ecological Functioning Along an Urbanisation Gradient. *Diversity* **2026**, *18*, 58. https://doi.org/10.3390/d18010058 **AIS $_{2024}$ = 0.513**
3. **Rodica D. Catană**, Raluca A. Mihai, Ana-Maria Morosanu, Laurentiu Dobre, Mirela M. Moldoveanu, Larisa I. Florescu, **2025,** The initiation of *in vitro* culture in *Gongolaria barbata* species – a key species in the coastal marine areas. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 35(9), e70226 DOI 10.1002/aqc.70226 **AIS $_{2024}$ = 0.634**
4. Mihai, R.A.; Terán-Maza, V.A.; Portilla-Benalcazar, K.A.; Ramos-Guaytarilla, L.E.; Vizuete-Cabezas M.J.; Melo-Heras E.J.; Cubi-Insuaste N.S.; **Catană R.D. 2024**, Secondary Metabolites and Antioxidant Activity against Moko Disease as a Defense Mechanism of

Musa spp. from the Ecuadorian Coast Area. *Metabolites* 14, 307. https://doi.org/10.3390/metabo14060307 **AIS $_{2024}$ = 0.869**

5. **Catană R.D.**; Podosu A.; Florescu L.I.; Mihai R.A.; Enache M.; Cojoc R.; Moldoveanu M. **2023.** Quantitative Analyses of Chemical Elements in *Phragmites australis* as Bioindication of Anthropization in Urban Lakes. *Sustainability 15*, 553. **AIS $_{2023}$ = 0.533**
6. Mihai R.A., Melo Heras E.J., Florescu L.I., **Catană R.D. 2022**, The Edible Gray Oyster Fungi *Pleurotus ostreatus* (Jacq. ex Fr.) P. Kumm a Potent Waste Consumer, a Biofriendly Species with Antioxidant Activity Depending on the Growth Substrate. *Journal of Fungi* 8, 274. **AIS $_{2022}$ = 0.978**

3. Coordonare proiecte de cercetare obținute prin competiție națională sau internațională:

Candidatul a coordonat trei proiecte de cercetare câştigate prin competiții naționale:

1. **Proiecte pentru tineri doctoranzi - tip TD - PN - II - RU – TD –2007 „***Utilizarea tehnicilor in vitro în vederea conservării speciilor de plante din Masivul Piatra Craiului***”**, UEFSCDI, PNCDI II – Resurse umane, 42.000 lei, **2007-2009**
http://old.uefiscdi.ro/userfiles/file/TD2007_DOCUMENTE_COMUNE/PROIECTE%20FINALIZATE%20-%20actualizare%20mai%202011.pdf

2. **Proiecte de mobilitate a doctoranzilor „***Utilizarea tehnicilor in vitro în vederea conservării speciilor de plante din Masivul Piatra Craiului***”**, UEFSCDI, PNCDI II – Resurse umane, 2.100 lei **2007**
http://old.uefiscdi.ro/UserFiles/File/MC%202008/Proiecte_propuse_spre_finantare_tip_MD_iunie.htm

3. **Bursa de cercetare stiintifica/creatie artistica pentru tineri doctoranzi tip BD, „***Utilizarea tehnicilor in vitro în vederea conservării speciilor de plante din Masivul Piatra Craiului***”**, UEFSCDI, PNCDI II – Resurse umane 9.684 lei **2007-2009**
http://old.uefiscdi.ro/userfiles/file/BURSE%20BD/Rez_BD_2007_CONTINUARI.pdf

B. Criterii şi standarde minimale

Evaluarea activității de cercetare

Tabel 1. Parametrii luați în calcul şi modul de cuantificare

Nr. crt.	Parametrul	Modul de calcul	Punctaj (Format #,0000)
1	Articole publicate în reviste cotate *Web of Science Core Collection*, ca autor principal*	conform formulei (1)	434.384
2	Articole publicate în reviste cotate *Web of Science Core Collection*, ca şi contributor **	conform formulei (2)	109.6837
3	Articole publicate în reviste indexate BDI*** , ca autor principal	$(1+c_1)+(1+c_2)+...+(1+c_N)$	46.00
4	Articole publicate în reviste indexate BDI***, ca şi contributor	$0,7 \times [(1+c_1)+(1$	22.4

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		$+c_2) +...+ (1 +c_N)]$	
5	Cărţi apărute la edituri edituri internaţionale de prestigiu ****	(100+c):n	-
6	Cărţi apărute în alte edituri internaţionale	(40+c):n	-
7	Cărţi apărute în Editura Academiei Române	(40+c):n	-
8	Cărţi apărute în edituri Universitare	(20+c):n	-
9	Cărţi apărute în alte edituri din ţară	(20+c):n	-
10	Capitole în volume apărute la edituri internaţionale de prestigiu ****	(50+c):n	-
11	Capitole apărute în volume la alte edituri internaţionale	(20+c):n	-
12	Capitole apărute în cărţi/volume la edituri naţionale	(10+c):n	9.19298
13	Editor/redactor/coordonator cărţi apărute la edituri edituri internaţionale de prestigiu ****	(50+c):n	-
14	Editor/redactor/coordonator cărţi apărute în alte edituri internaţionale	(30+c):n	10.00
15	Editor/redactor/coordonator cărţi apărute la edituri naţionale	(20+c):n	-
Ri -recunoaştere internaţională		Σ_{1-2}	**544.06770**
Pt - performanţă totală		Σ_{1-15}	**631.66068**

Formula (1): $1 \times [4 + (7 \times AI_1) + c_1] + 1 \times [4 + (7 \times AI_2) + c_2] + ... +1 \times [4 + (7 \times AI_N) + c_N]$

Formula (2): $0,7 \times [4 + (7 \times AI_1) + c_1] + 0,7 \times [4 + (7 \times AI_2) + c_2] + ... +0,7 \times [4 + (7 \times AI_N) + c_N]$

Tabel 2. Standarde minimale

Parametrul	Punctaj minim Abilitare	Punctaj	Îndeplinirea standardului
$S\Sigma_{1-2}$ Recunoaştere internaţională	**150**	**544.06770**	**Îndeplinit**
Σ_{1-15}-Performanţă totală	**250**	**631.66068**	**Îndeplinit**

Calculul punctajului obţinut în tabelul nr. 1

Criteriul 1. Articole în reviste cotate ISI, ca autor principal

Nr crt.	**Articole în reviste cotate ISI, ca autor principal** (prim autor inclusiv cu contribuţii egale, autor correspondent, ultim autor)	AIS	Citări	**Punctaj** $1 \times [4 + (7 \times AIS) + c]$
1	Holobiuc I., **Catană R., 2012**, Recurrent somatic embryogenesis in long-term cultures of *Gentiana lutea* L. as a source for synthetic seed production for medium-term preservation. Archives of Biological Sciences Belgrade 64(2), 817-825. **Citată în:**	0.088	11	15.616

	1. Catorci A; Piermarteri K; Tardella FM, 2014, Pedo-climatic and land use preferences of Gentiana lutea subsp lutea in central Italy. Plant ecology and evolution 147(2), 176-186, DOI 10.5091/plecevo.2014.96. (Web of Science) 2. Holobiuc I. 2015, Somatic embryogenesis in long-term cultures of Gentiana lutea L. in the presence of osmotic stress (Book Chapter), The Gentianaceae - Volume 2: Biotechnology and Applications, pp. 139-161 (Scopus) 3. Brezeanu A., Cogalniceanu G., 2016, Theoretical and Biotechnological Approaches in the Institute of Biology Bucharest Between 1975-2015 based on Plant Cell and Tissue Culture Technology. Studia Universitatis Babes-Bolyai Biologia 61(1), 89-106. (Web of Science) 4. Vinterhalter B; Mitic N; Vinterhalter D; Uzelac B; Krstic-Milosevic D., 2016, Somatic embryogenesis and in vitro shoot propagation of Gentiana utriculosa. Biologia 71(2), 139-148, DOI 10.1515/biolog-2016-0020. (Web of Science) 5. Tomiczak K; Mikula A; Niedziela A; Wojcik-Lewandowska A; Domzalska L; Rybczynski JJ 2019, Somatic Embryogenesis in the Family Gentianaceae and Its Biotechnological Application, Frontiers in plant science 10, 762 DOI10.3389/fpls.2019.00762. (Web of Science) 6. Saxena A; Shukla M; Saxena P., 2019, Synthetic Seeds: Relevance to Endangered Germplasm Conservation In Vitro, Faisal, M; Alatar, AA (Eds.) Synthetic seeds: germplasm regeneration, preservation and prospects, 21-60, DOI 10.1007/978-3-030-24631-0_2. (Web of Science) 7. Sharma N; Gowthami R; Pandey R, 2019, Synthetic Seeds: A Valuable Adjunct for Conservation of Medicinal Plants, Faisal, M; Alatar, AA (Eds), Synthetic seeds: germplasm regeneration, preservation and prospects, pp. 181-216, DOI 10.1007/978-3-030-24631-0_7. (Web of Science) 8. Sava CS; Antofie MM, 2019, Bioprospecting Wild Biodiversity in Romania: Case Study - Gentiana lutea, Romanian biotechnological letters 24(1), 129-139, DOI 10.25083/rbl/24.1/129.139. (Web of Science) 9. Nicolae I-C., Venat O., Peticilă A.G., Hoza D., 2023, Conservation of plant germplasm using synthetic seed technology – review. Scientific Papers. Series B, Horticulture LXVII (2), 520-526 (Web of Science) 10. Ghosh P.K., Ghorai S., Bhunia R., Samanta A., Bose S., Mondal M.S.A., Roy S., Hazra S. 2025, Synthetic seed technology and in vitro conservation of vegetable germplasm: a review. Vegetos 559986, DOI: 10.1007/s42535-025-01321-y (Scopus) 11. Bogdanovic, MD (Bogdanovic, Milica D.); Cukovic, KB (Cukovic, Katarina B.) ; Todorovic, SI (Todorovic, Sladana I.), 2025, Hormonal and Environmental Factors Influencing Secondary Somatic Embryogenesis, AGRONOMY-BASEL, 16 Issue 1 DOI			

	10.3390/agronomy16010070 Article Number 70 (Web of Science)			
2	**Catană R.**, Holobiuc I., Mitoi M., **2017.** The antioxidant properties of *Gentiana lutea* root cultures, AgroLife Scientific Journal 6(2), 51-57. **Citată în:** 1. Asci OA.; Demirci T.; Albayrak I.; Deveci H.; Baydar NG. 2022. Optimization of inoculum density to support root growth and secondary metabolite accumulation in root cultures of endangered Gentiana species: Gentiana lutea and Gentiana boissieri, In Vitro Cellular & Developmental Biology-Plant, DOI 10.1007/s11627-022-10305-5 (Web of Science) 2. Cvetković S.D. 2021, Antimicrobial and Antigenotoxic Effect of Extracts of Yellow Gentian (Gentiana Lutea L.) Grown in Field and in Laboratory Conditions/ Antimikrobni i Antigenotoksični Efekat Ekstrakata Lincure (Gentiana Lutea L) Gajene u Plantažnim i Laboratorijskim Uslovima, University of Belgrade (Serbia). Dissertation/Thesis (Web of Science)	0	2	6
3	**Catană R.**, Florescu L., Simon-Gruiță A., Mitoi M., **2018,** Effect of the storage at low temperatures on the germination and antioxidant activity of *Geum urbanum* seeds. Romanian Biotechnological Letters 23(3), 13599 – 13606. **Citată în:** 1. Posta DS; Rujescu C; (...); Sala F., 2020, Influence of ultrasound on germination, some biometric and physiological indices in Liquidambar styraciflua L. Romanian biotechnological letters 25(2), 1369-1377. (Web of Science) 2. Omar OM., Mohammed MY., 2021, Effect of stratification and pre-chilling on germination of Ziziphus spina-christi L. seed and seedling growth, International Journal of Agricultural and Statistical Sciences 17, 1031-1037 (Web of Science)	0.088	2	6.616
4	Holobiuc I., **Catană R.*,** Cogălniceanu G., Cristea V., **2018,** Biotechnological approach for *ex situ* conservation of the vulnerable species Moehringia jankae. Romanian Biotechnological Letters 23(5), 13954 – 13963. **Citată în:** 1. Radomir A.-M.; Stan R.; Florea A.; Ciobotea C.-M.; Bănuță F.M.; Negru M.; Neblea M.A; Sumedrea D.I. 2023, Overview of the Success of In Vitro Culture for Ex Situ Conservation and Sustainable Utilization of Endemic and Subendemic Native Plants of Romania. Sustainability 15, 2581. https://doi.org/10.3390/su15032581 (Web of Science) 2. Sarropoulou V., Maloupa E., Grigoriadou K., 2023. In vitro direct	0.088	2	6.616

	organogenesis of the medicinal single-mountain local prioritized vulnerable Greek endemic Achillea occulta under different medium variants. Notulae Botanicae Horti Agrobotanici Cluj-Napoca 51(2), 13124-13124. (Web of Science)			
5	**Catană R.,** Nicoară R., Onete M., **2020,** The current stage of biotechnological approaches and systematic remarks on some spontaneous medicinal plants in Romania – review of literature. Farmacia 68(2), 213-218. **Citată în:** 1. Setiowati FK., Widoretno W., Prasetyawan S., Lukiati B., 2022, Elicitation of organosulfur bioactive compounds with Fe3+ and Zn2+ in cell suspension culture of single garlic (Allium sativum L.). Farmacia 70(1), 81-89. (Web of Science)	0.112	1	5.784
6	**Catană R.,** Lazar M., Holobiuc I., Florescu L., **2020,** Seed germination of some medicinal plant species for conservative purpose. Romanian biotechnological letters 25(9), 1621-1627 **Citată în:** 1. Saffari P., Majd A., Jonoubi P., Najafi F., 2021, Effect of treatments on seed dormancy breaking, seedling growth, and seedling antioxidant potential of Agrimonia eupatoria L., Journal of applied research on medicinal and aromatic plants 20, 100282, 10.1016/j.jarmap.2020.100282 (Web of Science) 2. Saffari P., Majd A., Jonoubi P, Najafi F, 2021. Study on the reproductive organs development and embryological features of Agrimonia eupatoria L. (Rosaceae). Botany letters 168(2), 270-282 (Web of Science) 3. Zaleschi LH., Apostol M., Simion IM., Cara GI., Teliban GC., Stavarache M., Nazare A., Hlihor RM., 2021, Short Overview of Heavy Metals Effects for Plants and Human Health and Their Determination in Medicinal Plants, 2021, International conference on e-health and bioengineering (ehb 2021), 9th edition, Book Series E-Health and Bioengineering Conference, DOI 10.1109/EHB52898.2021.9657747. (Web of Science) 4. Stoian V.A., Gâdea Ș., Vidican R., Balint C., Stoian V., Vâtcă A., Trușcă M., Horvat M., Brozović B., Camen D., Vâtcă, S.D. 2024. Seed priming methods tested on Salvia officinalis L. germination according to BBCH scale. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 52(2), 13676. (Web of Science)	0	4	8
7	**Catană Rodica,** Helepciuc Florena-Elena, Zamfir Medana, Florescu Larisa, Mitoi Monica, **2020**, *In vivo* and *in vitro* antioxidant activity of *Cnicus benedictus*. Agrolife scientific journal 9(1), 73-78. **Citată în:** 1. Irimescu LS., Guerrero Olivares C., Preda CI., Diguta CF., Luta G., Balan D., Matei F., 2021, Characterisation of the antimicrobial	0.105	6	10.735

	and antioxidant profile of Phalaenopsis orchid wastes, Agrolife scientific journal 10(1), 101-108. (Web of Science) 2. Dănăilă-Guidea S.M.; Eremia M.C.; Dinu L.D.; Miu D.-M. 2022, Helichrysum arenarium: From Cultivation to Application. Appl. Sci. 12, 10241. https://doi.org/10.3390/app122010241 (Web of Science) 3. Cherian J.; Sehgal A.; Singh S.K.; Vamanu E.; Singh M.P. 2022, 2'-Hydroxyflavanone: A Bioactive Compound That Protects against Cancers. Appl. Sci. 12, 9543. https://doi.org/10.3390/app12199543 (Web of Science) 4. Tabassum N.; Singh V.; Chaturvedi V.K.; Vamanu E.; Singh M.P. 2023, A Facile Synthesis of Flower-like Iron Oxide Nanoparticles and Its Efficacy Measurements for Antibacterial, Cytotoxicity and Antioxidant Activity. Pharmaceutics 15, 1726. https://doi.org/10.3390/pharmaceutics15061726 (Web of Science) 5. Singh B. 2023, Ethnopharmacological Properties, Biological Activity and Phytochemical Attributes of Medicinal Plants, 1st edition, Volume 3, pages 1-3181, CRC Press. (Scopus) 6. Zhang J, Shen S, Zhu S, Jia F, Li J, Sun Y. 2024, Cnicus benedictus extract-loaded electrospun gelatin wound dressing for treating diabetic wounds: An in vitro and in vivo study. Journal of Applied Biomaterials & Functional Materials 22. Doi:10.1177/22808000241245298 (Web of Science)			
8	Mihai R.A.; Melo Heras E.J.; Florescu L.I.; **Catană R.D. 2022**. The Edible Gray Oyster Fungi *Pleurotus ostreatus* (Jacq. ex Fr.) P. Kumm a Potent Waste Consumer, a Biofriendly Species with Antioxidant Activity Depending on the Growth Substrate. Journal of Fungi 8, 274. https//doi.org/10.3390/jof8030274 **Citată în:** 1. Tsivileva OM., Perfileva AI., 2022, Mushroom-Derived Novel Selenium Nanocomposites' Effects on Potato Plant Growth and Tuber Germination. Molecules 27(14), 4438 DOI 10.3390/molecules27144438 (Web of Science) 2. Bryła M.; Pierzgalski A.; Zapasnik A.; Uwineza P.A.; Ksieniewicz-Wozniak E.; Morzewska M.; Waskiewicz A. 2022, Recent Research on Fusarium Mycotoxins in Maize—A Review. Foods 11, 3465. https:// doi.org/10.3390/foods11213465 (Web of Science) 3. Törős G.; El-Ramady H.; Prokisch J.; Velasco F.; Llanaj X.; Nguyen D.H.H.; Peles F. 2023, Modulation of the Gut Microbiota with Prebiotics and Antimicrobial Agents from Pleurotus ostreatus Mushroom. Foods 12, 2010. https://doi.org/10.3390/foods12102010 (Web of Science) 4. Wang Z., Xiujing Bao, Rongrong Xia, Zhenshan Hou, Yunting Li, Yao Feng, Song Pan, Yafei Wang, Heran Xu, Zhuqing Huang, Guang Xin, 2023, Effect of mushroom root fermentation broth on the umami taste and nutrients of Flammulina velutipes. Journal of Future Foods 3(1): 67-74 (Scopus)	0.978	33	43.846

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36	**Rodica D. Catană**, Raluca A. Mihai, Ana-Maria Morosanu, Laurentiu Dobre, Mirela M. Moldoveanu, Larisa I. Florescu, **2025,** The initiation of *in vitro* culture in *Gongolaria barbata* species – a key species in the coastal marine areas. Aquatic Conservation: Marine and Freshwater Ecosystems, 35(9), DOI 10.1002/aqc.70226	0.634	0	8.438
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38	Raluca A. Mihai, Ramiro F. Vivanco Gonzaga, Fabián A. Silva Ayo, Romina A. López Mendoza, Mishell A. Nicolalde Padilla, Jeimy E. Calahorrano Cabrera, Alvarez R. Chuma, **Rodica D. Catană, 2026,** Host-Dependent Variations in Antioxidant Activity, Metabolic Profile, and Phenolic Content of the Parasitic Plant *Phoradendron nervosum* Oliv., Scientific Reports, 16, 1556. https://doi.org/10.1038/s41598-025-27242-z	1.031	0	11.217
Punctaj criteriul 1 = $1 \times [4 + (7 \times AI_1) + c_1] + 1 \times [4 + (7 \times AI_2) + c_2] + ... + 1 \times [4 + (7 \times AI_N) + c_N]$				**434.384**

Criteriul 2. Articole în reviste cotate ISI, ca și **contributor**

Nr crt.	Articole în reviste cotate ISI, ca și contributor	AIS	Citări	Punctaj 0,7x[4+(7xAIS)+citări]
1	Holobiuc I., **Blîndu R.,** Cristea V., **2009**, Researches concerning *in vitro* conservation of the rare plant species *Dianthus nardiformis* Janka. *Biotechnology & Biotechnological Equipment* 23(2), 221-224. **Citată în:** 1. Onete M; Pop OG; Marculescu A, 2010, Dianthus callizonus habitat traits and growth strategies - stages in conservation and management, Environmental engineering and management journal 9(12), 1651-1658 (Web of Science) 2. Cristea V.; Brummer A.T.; Jarda L.; Miclaus M., 2010, In vitro culture initiation and phytohormonal influence on Dianthus henteri - a Romanian endemic species. Romanian biotechnological	0.1	24	20,09

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8	Florescu L.I.; Moldoveanu M.M.; **Catană R.D.;** Pacesila I.; Dumitrache A.; Gavrilidis A.A.; Ioja C.I., **2022**, Assessing the Effects of Phytoplankton Structure on Zooplankton Communities in Different Types of Urban lakes. Diversity 14, 231. https//doi.org/10.3390/d4030231 Citată în: 1. Yue Geng, Meixia Li, Ruihong Yu, Heyang Sun, Linxiang Zhang, Liangqi Sun, Changwei Lv, Jifei Xu, 2022, Response of planktonic diversity and stability to environmental drivers in a shallow eutrophic lake. Ecological Indicators 144: 109560 (Web of Science) 2. Popa CL., Dontu SI., Carstea EM., Ioan- Ioja C., Florescu LI., Dumitrache AC, Vanau G, Popa A-M, Moldoveanu M, 2023, Land use impact on the levels of fluorescent dissolved organic matter, phytoplankton and zooplankton in urban lakes. Limnologica 99: 126062, https://doi.org/10.1016/j.limno.2023.126062. (Web of Science) 3. Pikuła K., Tomasz H., Arciszewski M., Lewicka-Rataj K., 2023. Dynamics of zooplankton in a lake undergoing restoration. Ecohydrology & Hydrobiology https://doi.org/10.1016/j.ecohyd.2023.09.006. (Web of Science) 4. Tian M.; Chen G.; Kong L.; Chen L.; Li R.; Wang L.; Han Q.; Chen X. 2023. Spatio-temporal variation and environmental drivers of chlorophyll a concentration and diatom community in four small urban lakes of Kunming, China. Chinese Journal of Applied Ecology 34(9), 2545 – 2554. (Web of Science) 5. Fan T.; Amzil H.; Fang W.; Xu L.; Lu A.; Wang S.; Wang X.; Chen Y.; Pan J.; Wei X. 2023, Phytoplankton-Zooplankton Community Structure in Coal Mining Subsidence Lake. Int. J. Environ. Res. Public Health 20, 484. https://doi.org/10.3390/ijerph20010484 (Web of Science) 6. Zhikharev V.; Gavrilko D.; Kudrin I.; Vodeneeva E.; Erina	0,528	21	20.087

	O.; Tereshina M.; Shurganova G. 2023, Structural Organization of Zooplankton Communities in Different Types of River Mouth Areas. Diversity 15, 199. https://doi.org/10.3390/d15020199 (Web of Science) 7. Bita-Nicolae C; Florescu LI; Purice D; Kaya O., 2024, Riparian woody plant communities in the Romanian Carpathians: Species diversity and community structure of Salix and Hippophaë communities. Ecology and Evolution 14(5), e11361 DOI10.1002/ece3.11361 (Web of Science) 8. Shen H., Xu H., Zhang X., Chen J., Zhu T., Jiang W., Fu Y., 2024, Characteristics of phytoplankton functional groups and ecological health assessment in spring type urban lakes: A case study in Lake Darning, Jinan City [泉水型城市湖泊浮游植物功能群特征及其生态健康评价以济南大明湖为例], Hupo Kexue/Journal of Lake Sciences 36 (4), 1036 – 1045 (Web of Science) 9. Samudra S.R.; Islami S.F.; Sanjayasari D.; Firdaus A.M.; Putri A.K.; Fikriyya N.; Attaqi, Ahmad Naufal, 2024, Phytoplankton community structure in PB. Soedirman Reservoir, Banjarnegara District, Central Java, Indonesia. Biodiveritas 25(5): 2161 – 2169 (Scopus) 10. Dumitran G.; Vuta L.; Popa B. 2024. Overview of the Eutrophication in Romanian Lakes and Reservoirs. Limnological Review 24, 76-104. (Scopus) 11. Siddique M.A.B., Mahalder B., Shohan M.H., Haque M.M., Shakur Ahammad A.K., 2024, Plankton Abundance and its Nexus with Climatic and Water Quality Parameters in the Nile Tilapia (Oreochromis niloticus) Broodfish Pond. Egyptian Journal of Aquatic Biology and Fisheries 28 (2), 403 – 428. (Scopus) 12. Gerasimova T.N., Sadchikov A.P. 2024, Rotifers in a Highly Trophic Water Body under Cyanobacterial Bloom Conditions. Russian Journal of General Chemistry 93. 3321-3324. (Web of Science) 13. Arfiati D.; Zakiyah U.; Anitasari S.; Inayah Z.N.; Orchida K.; Pratiwi R.K., 2024, Plankton diversity in the Rowo Klampok Swamp, Malang District, East Java, Indonesia. Biodiveritas 25(4), 1846 – 1855 (Scopus) 14. Shen H., Xu H.,Zhang X., Zhu T., Jiang, W., Li X. 2024. Succession characteristics of phytoplankton functional groups and ecological assessment in a cold spring-type urban lake, China. Frontiers in Microbiology 15. 10.3389/fmicb.2024.1435078. (Web of Science) 15. Chao Chang, En Hu, Xudong Xue, Juan Li, Dou Du, Fang Yang, Ming Li, 2024, Hydro-morphology and water quality jointly shape the structure and network stability of the plankton community in multi-tributary river basins, Journal of Hydrology 131945, https://doi.org/10.1016/j.jhydrol.2024.131945. (Web of Science) 16. Nezbrytska I.; Bilous O.; Sereda T.; Ivanova N.; Pohorielova			

	M.; Shevchenko T.; Dubniak S.; Lietytska O.; Zhezherya V.; Polishchuk O.; ...More, 2024, Effects of War-Related Human Activities on Microalgae and Macrophytes in Freshwater Ecosystems: A Case Study of the Irpin River Basin, Ukraine. Water 16(24) 10.3390/w16243604 (Web of Science) 17. Flores-Gomez V.S.; Villanueva Q.C.; Arpasi O.D.; Costa Adilson Benda; Lobo E.A. 2024, Phytoplankton in lake water quality assessment: a review of scientific literature based on bibliometric and network techniques/ Fitoplâncton na avaliação da qualidade da água de lagos: uma revisão da literatura científica baseada em técnicas bibliométricas e de rede. Acta Limnologica Brasiliensia 36, e35, DOI 10.1590/s2179-975x0924 (Web of Science) 18. Sun Q., Cao T., Peng W., Liu X., Luo H., Hou Y. 2025, Plankton community structure and its influencing factors in Yongding River under the background of ecological water replenishment, Huanjing Kexue Xuebao. Acta Scientiae Circumstantiae, 45 (2), 488 - 496, DOI: 10.13671/j.hjkxxb.2024.0416 (Scopus) 19. Phonmat P; Chaichana R; Rakasachat C; Klongvessa P; Chanthorn W; Moukomla S. 2025, Phytoplankton and Zooplankton Assemblages Driven by Environmental Factors Along Trophic Gradients in Thai Lentic Ecosystems. Diversity-Basel 17(6), DOI 10.3390/d17060372 (Web of Science) 20. Hangtong, Bao; Yiping, Li; Guoli, Zhao; Ronghui, Li; Ya, Zhu; +6 authors, 2025, Phytoplankton Community structure and driving factors of filamentous cyanobacteria dominance in south subtropical reservoirs: A case study of Dawangtan Reservoir, Guangxi [南亚热带水库浮游植物群落特征及丝状蓝藻优势驱动因素研究：以广西大王滩水库为例] Hupo Kexue/Journal of Lake Sciences DOI: 10.18307/2025.0611 (Scopus) 21. Jiang, Chao; Jiang, Min; Ren, Chenliang; Zhang, Xiaoke; Li, Bowen; +1 author, 2025, Diversity Patterns and Environmental Drivers of Bivalve Communities in the Caizi Lake Group and Its Major Tributaries During the Initial Post-Fishing Ban Period Diversity DOI: 10.3390/d17110773 (Scopus)			
9	Holobiuc I., Mitoi M., **Catană R.,** Helepciuc F., Maximilian C. **2023,** Assessment of the threatened species *Dianthus nardiformis* Janka after slow-growth culture and cryopreservation as *ex-situ* conservation approach. Propagation of Ornamental Plants 23(1), 3-12. **Citată în:** 1. Park H.Y., Saini R.K., Keum Y.-S., Sivanesan I., 2024, Exploring somatic embryogenesis in Ajuga multiflora Bunge: Profiling lipophilic metabolites via HPLC, GC-FID, and GCMS– analysis. Scientia Horticulturae 332, 113228. DOI:	0,044	1	3.715

	10.1016/j.scienta.2024.113228 (Web of Science)			
10	Maria G.M., Truşcă R.D., Banciu C., Vladimirescu M., Paica I.C., **Catană R.D.,** Manole A. **2023.** SEM-EDX identification and characterization of airborne microspheres, potential effects on human health. Carpathian Journal of Earth and Environmental Sciences 18(2), 299 – 306. DOI,10.26471/cjees/2023/018/260 **Citată în:** 1. Szwed M; Pasieka D, **2024,** Micrographic image of air pollutants in Poland. *Archives of Environmental Protection* 50(4)3-8, DOI 10.24425/aep.2024.152890 (Web of Science)	0,135	1	4.161
	Punctaj criteriul 2= $0,7 \times [4 + (7 \times AI_1) + c_1] + 0,7 \times [4 + (7 \times AI_2) + c_2] + ... + 0,7 \times [4 + (7 \times AI_N) + c_N]$			**109.68370**

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Criteriul 3. Articole publicate în reviste indexate BDI, ca autor principal

Nr crt.	Articol	Punctaj 1 + Citări
1	Holobiuc, I., **R. Blîndu, 2006.** Improvement of the micropropagation and *in vitro* medium-term preservation of some rare *Dianthus* species. *Contributii Botanice* 41.2, 143-151. Revistă indexată Scopus, Index copernicus **Citată în:** 1. Markovic M.; Grbic M.; Djukic M., 2013, Micropropagation of the Endangered and Decorative Species Dianthus serotinus Waldst. et Kit. Notulae botanicae horti agrobotanici Cluj-Napoca 41(2), 370-377 (Web of Science) 2. Cristea V.; Jarda L.; Holobiuc I., 2013, Ex situ Conservation of Three Endemic and/or Endangered Dianthus Species. Notulae botanicae horti agrobotanici Cluj-Napoca 41(1), 73-78 (Web of Science) 3. Cristea V.; Craciunas C.; Marcu D.; Palada M.; Butiuc-Keul A. 2014, Genetic stability during in vitro propagation of Dianthus spiculifolius Schur. Propagation of ornamental plants 14(1), 26-31 (Web of Science) 4. Brezeanu A., Cogalniceanu G., 2016, Theoretical and Biotechnological Approaches in the Institute of Biology Bucharest Between 1975-2015 based on Plant Cell and Tissue Culture Technology. Studia Universitatis Babes-Bolyai Biologia 61 (1), 89-106.(Web of Science) 5.Markovic M.; Grbic M.; Djukic M., 2016, Micropropagation of Endangered and Decorative Species Dianthus pinifolius Sibth. et Sm. Brazilian archives of biology and technology 59, e16150320 DOI 10.1590/1678-4324-2016150320. (Web of Science) 6.Arda H.; Dayan S.; Kartal C.; Guler N. 2016, In vitro conservation of critically endangered Dianthus ingoldbyi Turrill under slow growth conditions. Trakya University Journal of Natural Sciences 17(1), 47-54 (Web of Science) 7.Radomir A.-M.; Stan R.; Florea A.; Ciobotea C.-M.; Bănuță F.M.; Negru M.; Neblea M.A.; Sumedrea D.I. 2023, Overview of the Success of In Vitro Culture for Ex Situ Conservation and Sustainable Utilization of Endemic and Subendemic Native Plants of Romania. Sustainability 15, 2581. https://doi.org/10.3390/su15032581 (Web of Science)	1+7=8

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2	Irina Holobiuc, **Rodica Blîndu, 2008.** *In vitro* culture of the protected rare species *Gentiana lutea* L. for conservative purpose. *Contribuţii Botanice* XLIII,125-134. Revistă indexată Scopus, Index copernicus **Citată în:** 1. Vinterhalter B.; Milosevic D.K.; Jankovic T.; Milojevic J.; Vinterhalter D., 2012, In vitro propagation of Gentiana dinarica Beck. Central european journal of biology 7(4), 690-697, DOI 10.2478/s11535-012-0059-7.(Web of Science) 2. Tomiczak K.; Mikula A.; Niedziela A.; Domzalska L.; Rybczynski JJ., 2019, Somatic Embryogenesis in the Family Gentianaceae and Its Biotechnological Application. Frontiers in plant science 10, 762, DOI 10.3389/fpls.2019.00762.(Web of Science) 3. Hurdu BI., Coste, A., Halmagyi A., Szatmari PM., Farkas A., Puscas M., Turtureanu PD., Rosca-Casian O., Tanaseh C., Oprea A., Mardari C., Radubtoiu D., Camen-Comanescu P., Sirbu IM., Stoie A., Lupoae P., Cristea V.; Jarda L; Holobiuc I; Goia I; Catană C; Butiuc-Keul A. 2022, Ex situ conservation of plant diversity in Romania: A synthesis of threatened and endemic taxa. Journal for Nature Conservation 68: 126211, DOI 10.1016/j.jnc.2022.126211 (Web of Science) 4. Afnan Saleem A.; Akhtar M.F.; Sharif A.; Akhtar B.; Siddique R.; Ashraf G.M.; Alghamdi B.S.; Alharthy S.A. 2022, Anticancer, Cardio-Protective and Anti-Inflammatory Potential of Natural-Sources-Derived Phenolic Acids. Molecules 27, 7286. https://doi.org/10.3390/molecules27217286 (Web of Science) 5. Aras Aşcı, Ö., Demirci, T., Albayrak, İ. et al. 2022. Optimization of inoculum density to support root growth and secondary metabolite accumulation in root cultures of endangered Gentiana species: Gentiana lutea and Gentiana boissieri. In Vitro Cell.Dev.Biol.-Plant https://doi.org/10.1007/s11627-022-10305-5 (Web of Science)	1+5=6
3	**Catană R.**, Mitoi M., Helepciuc F., Holobiuc I., **2010.** *In vitro* conservation under slow growth conditions of two rare plant species from Caryophyllaceae family, *Electronic Journal of Biology* 6(4), 86-91. Revistă indexată Index Copernicus **Citată în:** 1.Malinski M.P.; Michalska A.D.; Tomczykowa M.; Tomczyk M.; Thiem B., 2014, Ragged Robin (Lychnis flos-cuculi) - a plant with potential medicinal value. Revista brasileira de farmacognosia-brazilian journal of pharmacognosy 24(6), 722-730 (Web of Science) 2.Gashi B.; Abdullai K.; Sota V.; Kongjika E., 2015, Micropropagation and in vitro conservation of the rare and threatened plants Ramonda serbica and Ramonda nathaliae. Physiology and molecular biology of plants 21(1), 123-136, DOI 10.1007/s12298-014-0261-3. (Web of Science) 3.Brezeanu A., Cogalniceanu G. 2016, Theoretical and Biotechnological Approaches in the Institute of Biology Bucharest Between 1975-2015 based on Plant Cell and Tissue Culture Technology. Studia Universitatis Babes-Bolyai Biologia 61 (1), 89-106. (Web of Science) 4.Li J.; He M.; Xu X.; Huang T.; Tian H.; Zhang, W. 2022. In Vitro Techniques for Shipping of Micropropagated Plant Materials. Horticulturae 8, 609. 10.3390/horticulturae8070609. (Web of Science) 5.Hurdu BI., Coste A., Halmagyi A., Szatmari PM., Farkas A., Puscas M., Turtureanu	1+6=7

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	PD., Rosca-Casian O., Tanaseh C., Oprea A., Mardari C., Radubtoiu D., Camen-Comanescu P., Sirbu IM., Stoie A., Lupoae P., Cristea V.; Jarda L.; Holobiuc I.; Goia I.; Catana C.; Butiuc-Keul A. 2022, Ex situ conservation of plant diversity in Romania: A synthesis of threatened and endemic taxa. Journal for Nature Conservation 68, 126211, DOI 10.1016/j.jnc.2022.126211 (Scopus) 6.Radomir A.-M.; Stan R.;Florea A.; Ciobotea C.-M.; Bănuță F.M.; Negru M.; Neblea M.A.; Sumedrea D.I. 2023, Overview of the Success of In Vitro Culture for Ex Situ Conservation and Sustainable Utilization of Endemic and Subendemic Native Plants of Romania. Sustainability 15, 2581. https://doi.org/10.3390/su15032581 (Scopus)	
4	**Catană R.,** Ciucă M., Holobiuc I., **2010.** Using RAPD techniques to check the genetic stability of *Erigeron nanus* Schur regenerants in the *ex-situ* conservation context, *Analele Universităţii din Oradea Fascicula Biologie, University of Oradea Publishing House*. XVII (2), 230-234. Revistă indexată Zoological Record **Citată în:** 1. Cristea V.; Craciunas C.; Marcu D., Palada M.; Butiuc-Keul A. 2014. Genetic stability during in vitro propagation of Dianthus spiculifolius Schur, Propagation of ornamental plants 14(1), 26-31 (Web of Science) 2. Brezeanu A., Cogalniceanu G, 2016, Theoretical and Biotechnological Approaches in the Institute of Biology Bucharest Between 1975-2015 based on Plant Cell and Tissue Culture Technology. Studia Universitatis Babes-Bolyai Biologia 61 (1), 89-106. (Web of Science) 3. Hurdu BI., Coste A., Halmagyi A., Szatmari PM., Farkas A., Puscas M., Turtureanu PD., Rosca-Casian O., Tanaseh C., Oprea A., Mardari C., Radubtoiu D., Camen-Comanescu P., Sirbu IM., Stoie A., Lupoae P., Cristea V; Jarda L; Holobiuc I; Goia I; Catana C; Butiuc-Keul A. 2022, Ex situ conservation of plant diversity in Romania: A synthesis of threatened and endemic taxa. Journal for nature conservation 68, 126211, DOI 10.1016/j.jnc.2022.126211. (Web of Science)	1+3=4
5	**Catană R.,** Holobiuc I., Moldoveanu M., **2013**. *In vitro* seed germination in three rare taxa from Romanian Carpathians flora. *Studii şi comunicări. Ştiinţele Naturii* 29(1), 85-92. Revistă indexată Zoological Record, CAB Abstracts, EBSCO **Citată în:** 1. Doncheva T., Stanilova M., Vutov V., Philipov, S., 2017. Alkaloids of Seeds, in Vitro Cultivated, and ex vitro Adapted Plants of the Bulgarian Endemic Species Papaver Degenii (Papaveraceae). Natural Product Communications 12(3), p.1934578X1701200312 (Web of Science). 2. Radomir A.-M.; Stan R.; Florea A.; Ciobotea C.-M.; Bănuță F.M.; Negru M.; Neblea M.A.; Sumedrea D.I. 2023, Overview of the Success of In Vitro Culture for Ex Situ Conservation and Sustainable Utilization of Endemic and Subendemic Native Plants of Romania. Sustainability 15, 2581. https://doi.org/10.3390/su15032581 (Scopus)	1+2=3
6	Panciu I., Holobiuc I., **Catană R., 2014.** The use of biotechnology for supplying of plant material for traditional culture of medicinal, rare species *Arnica montana* L., *Lucrări Ştiinţifice Universitatea de Ştiinţe Agricole şi Medicină Veterinară Iaşi seria Agronomie*, 57 (1), 183-188. Revistă indexată CAB International, Index Copernicus	1+1 =2

	Citată în: 1. Brezeanu A., Cogalniceanu G, 2016, Theoretical and Biotechnological Approaches in the Institute of Biology Bucharest Between 1975-2015 based on Plant Cell and Tissue Culture Technology. Studia Universitatis Babes-Bolyai Biologia 61(1), 89-106 (Web of Science)	
7	**Catană Rodica**, Holobiuc Irina, **2015**, Direct somatic embryogenesis of the endemic taxon *Papaver alpinum* L. ssp. *corona-sancti-stefani* (Zapal.) Borza for conservative purpose. *Studii şi comunicări. Ştiinţele Naturii* 31(1), 47-51. Revistă indexată Zoological Record, CAB Abstracts, EBSCO **Citată în:** 1. Brezeanu A., Cogalniceanu G. 2016, Theoretical and Biotechnological Approaches in the Institute of Biology Bucharest Between 1975-2015 based on Plant Cell and Tissue Culture Technology. Studia Universitatis Babes-Bolyai Biologia 61(1), 89-106. 2. Doycheva I., Doncheva T., Philipov S. 2022. Indirect somatic embryogenesis induction of Papaver degenii and influence of gell7ing agents and elicitors. In Vitro Cell.Dev.Biol.-Plant 58, 716–727 3. Radomir A.-M.; Stan R.;Florea A.; Ciobotea C.-M.; Bănuţă F.M.; Negru M.; Neblea M.A.; Sumedrea D.I. 2023, Overview of the Success of In Vitro Culture for Ex Situ Conservation and Sustainable Utilization of Endemic and Subendemic Native Plants of Romania. Sustainability, 15,2581. https://doi.org/10.3390/su15032581	1+3 =4
8	Holobiuc Irina, Voichiţă Carmen, **Catană Rodica**, **2015**. *In vitro* conservation of the critically endangered taxon *Convolvulus persicus* L. and regenerants evaluation, *Studii şi comunicări. Ştiinţele Naturii* 31(2), 51-59. Revistă indexată Zoological Record, CAB Abstracts, EBSCO **Citată în:** 1.Brezeanu A., Cogalniceanu G., 2016, Theoretical and Biotechnological Approaches in the Institute of Biology Bucharest Between 1975-2015 based on Plant Cell and Tissue Culture Technology. Studia Universitatis Babes-Bolyai Biologia 61(1), 89-106. (Web of Science) 2.Strat D; Holobiuc IM., 2018, The occurrence and conservation status of Convolvulus persicus L. (Solanales: Convolvulaceae) on the western Black Sea coast – Romania. Acta zoologica bulgarica Supplement 11,125-132. (Web of Science)	1+2=3
9	Florescu L., Parpală L., Catană R.*, Moldoveanu M., 2016, Comparative assessment of micro and mesozooplankton in different types of ecosystems in the Danube Delta (Romania). *Romania Journal of Biology – Zoology* 61(1–2), 61–73 Revistă indexată Zoological Record, index copernocus **Citată în:** 1. Rogozin, A.G. **2022**, Material to the fauna and ecology of rotifers in the urals. The family Synchaetidae (Rotifera, Eurotatoria, Ploima). The genus Polyarthra. Zoologichesky zhurnal 101(7), 723-735, Doi 10.31857/s0044513422070091(Web of Science)	1+1=2
	Punctaj criteriul 3	**46**

***BDI (baze de date internaţionale) sunt considerate cele recunoscute pe plan ştiinţific internaţional, cum ar fi: *Scopus (Elsevier), Web of Science, CAB, ProQuest, EBSCO, CSA/Biological Sciences, Index Copernicus, SpringerLink,* **c1, c2,** – numărul de citări **fără** autocitări pentru articolul 1, 2,. N, preluat de pe Web of Science sau Scopus, în momentul depunerii dosarului, cu specificarea sursei utilizate.

Criteriul 4. Articole publicate în reviste indexate BDI*, ca şi contributor**

Nr. crt	Articol	Punctaj = 0,7 × (1 + citari)
1	Irina Holobiuc, Carmen Voichita, **Rodica Blîndu**, Gavril Negrean, **2006.** *In vitro* conservation of the rare plant *Veronica multifida L. ssp. capsellicarpa* Dubovik A. Jelen, *Contribuţii botanice* XLI, (2), 135-141. Revistă indexată Scopus, Index copernicus **Citată în:** 1.Gashi B.; Millaku F.; Abdullai K.; Daskalova E.; Dontcheva S.; Krasniqi E.; Mata V.; Kongjika E., 2013, Ecological and Morphological Characteristics and in vitro Conservation of Ramonda serbica Panc in Kosovo. Ekoloji 22(89), 19-28 DOI 10.5053/ekoloji.2013.893. (Web of Science) 2.Gashi B.; Abdullai K.; Sota V.; Kongjika E. 2015, Micropropagation and in vitro conservation of the rare and threatened plants Ramonda serbica and Ramonda nathaliae. Physiology and molecular biology of plants 21(1), 123-136 DOI 10.1007/s12298-014-0261-3 (Web of Science) 3.Brezeanu A., Cogalniceanu G., 2016, Theoretical and Biotechnological Approaches in the Institute of Biology Bucharest Between 1975-2015 based on Plant Cell and Tissue Culture Technology. Studia Universitatis Babes-Bolyai Biologia 61 (1): 89-106. (Web of Science)	0.7 * (1+3)=2.8

2	Holobiuc IM, **R. Blîndu**, M. Mitoi, F. Helepciuc, V. Cristea, **2009**, The establishment of an *in vitro* gene bank in *Dianthus spiculifolius* Schur and *D. glacialis* ssp. *gelidus* (Schott Nym. et Kotschy) Tutin: I. The initiation of a tissue collection and the characterization of the cultures in minimal growth conditions. *Annals of forest research* 52, 117-128. Revistă indexată Zoological Record **Citată în:** 1.Gashi B.; Abdullai K.; Sota V.; Kongjika E. 2015, Micropropagation and in vitro conservation of the rare and threatened plants Ramonda serbica and Ramonda nathaliae. Physiology and molecular biology of plants 21(1), 123-136 DOI 10.1007/s12298-014-0261-3 (Scopus) 2.Brezeanu A., Cogalniceanu G. 2016, Theoretical and Biotechnological Approaches in the Institute of Biology Bucharest Between 1975-2015 based on Plant Cell and Tissue Culture Technology. Studia Universitatis Babes-Bolyai Biologia 61(1), 89-106. (Web of Science) 3.Hayati Arda, Sergun Dayan, Çiler Kartal, Necmettin Güler, 2016, In vitro conservation of critically endangered Dianthus ingoldbyi Turrill under slow growth conditions. Trakya University Journal of Natural Sciences 47-54. (Web of Science) 4.Zhou A., Ma H., Liu E., (...), Gong S., Wang J., 2017 Transcriptome sequencing of Dianthus spiculifolius and analysis of the genes involved in responses to combined cold and drought stress. International Journal of Molecular Sciences 18(4),849 (Web of Science) 5.Nandy S., Singh J., Pandey D.K., Dey A. 2020, Hemidesmus indicus L. Br.: critical assessment of in vitro biotechnological advancements and perspectives. Appl Microbiol Biotechnol 104(20),8517-8548 (Web of Science) 6.Halmagyi A., Coste A., Jarda L., Butiuc-Keul A., Holobiuc I., Cristea V., 2020, A safeguard measure of endemic and endangered plant species: cryostorage of Dianthus taxa. Biodiversity and conservation. 29(11-12), 3445-3460 (Web of Science) 7.Ahmed M.Es.A.En. 2022. In vitro propagation for conservation and genetic fidelity of the near threatened Dimocarpus longan plant. J Genet Eng Biotechnol 20, 130 https://doi.org/10.1186/s43141-022-00406-4 (Web of Science) 8.Hurdu BI., Coste, A., Halmagyi A., Szatmari PM., Farkas A., Puscas M., Turtureanu PD., Rosca-Casian O., Tanaseh C., Oprea A., Mardari C., Radubtoiu D., Camen-Comanescu P., Sirbu IM., Stoie A., Lupoae P., Cristea V.; Jarda L; Holobiuc I; Goia I; Catană C; Butiuc-Keul A. 2022, Ex situ conservation of plant diversity in Romania: A synthesis of threatened and endemic taxa. Journal for Nature Conservation 68: 126211, DOI 10.1016/j.jnc.2022.126211 (Web of Science) 9.Radomir A.-M.; Stan R.; Florea A.; Ciobotea C.-M.; Bănuță F.M.; Negru M.; Neblea M.A.; Sumedrea D.I. 2023, Overview of the Success of In Vitro Culture for Ex Situ Conservation and Sustainable Utilization of Endemic and Subendemic Native Plants of Romania. Sustainability 15, 2581. https://doi.org/10.3390/su15032581 (Web of Science)	0.7 * (1+9)= 7

3	Holobiuc, I., **Catană, R.**, Cristea, V., **2010**. Researches Concerning *in vitro* cultures optimization of the vulnerable species *Dianthus nardiformis* Janka. *Analele Universităţii din Oradea Fascicula Biologie, University of Oradea Publishing House* XVII (1), 116-201. Revistă indexată Zoological Record **Citată în:** 1.Marković M., Grbić M., Djukić M. 2013. Micropropagation of the Endangered and Decorative Specie Dianthus serotinus Waldst. et Kit. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 41(2), 370–377. (Web of Science) 2.Marković M., Grbić M., Djukić M. 2016. Micropropagation of Endangered and Decorative Species Dianthus pinifolius Sibth. et Sm. Brazilian archives of biology and technology 59, e16150320 DOI 10.1590/1678-4324-2016150320. (Web of Science) 3.Marković M., Grbić M., Dunisijevic-Bojovic D. 2019, Effects of medium pH and carbohydrate source on the in vitro propagation of the endangered metallophyte Dianthus pinifolius Sibth. Et Sm. Propagation of ornamental plants 19(3), 72-84. (Web of Science) 4.Sarropoulou V.; Maloupa E. 2022, Micropropagation and ex situ conservation of three rare and endemic ornamental Dianthus taxa (Caryophyllaceae), Botanica Serbica 469(1),49-60 (Web of Science) 5.Radomir A.-M.; Stan R.;Florea A.; Ciobotea C.-M.; Bănuţă F.M.; Negru M.; Neblea M.A.; Sumedrea D.I. 2023, Overview of the Success of In Vitro Culture for Ex Situ Conservation and Sustainable Utilization of Endemic and Subendemic Native Plants of Romania. Sustainability 15, 2581. https://doi.org/10.3390/su15032581 (Scopus)	0.7* (1+5)= 4.2
4	Holobiuc I., **Catană R.**, Voichiţă C., Helepciuc F., **2013**. *In vitro* introduction of *Dianthus trifasciculatus* Kit ssp. *parviflorus* as *ex situ* preservation method. *Studii şi comunicări. Ştiinţele Naturii* 29(1), 93-100. Revistă indexată Zoological Record, CAB Abstracts, EBSCO **Citată în:** 1.Markovic M.; Grbic M.; Djukic M. 2016, Micropropagation of Endangered and Decorative Species Dianthus pinifolius Sibth. et Sm. Brazilian archives of biology and technology 59, e16150320 DOI 10.1590/1678-4324-2016150320. (Web of Science) 2.Halmagyi A.; Coste A.; Jarda L.; Butiuc-Keul A.; Holobiuc I.; Cristea V., 2020, A safeguard measure of endemic and endangered plant species: cryostorage of Dianthus taxa. Biodiversity and conservation 29(11-12), 3445-3460 DOI10.1007/s10531-020-02032-3. (Web of Science) 3.da Silva J.A.T.; Wicaksono A.; Engelmann F., 2020, Cryopreservation of carnation (Dianthus caryophyllus L.) and other Dianthus species. Planta 252(6), 105, DOI 10.1007/s00425-020-03510-2. (Web of Science) 4.Hurdu BI., Coste A., Halmagyi A., Szatmari PM., Farkas A., Puscas M., Turtureanu PD., Rosca-Casian O., Tanaseh C., Oprea A., Mardari C., Radutoiu D., Camen-Comanescu P., Sirbu IM., Stoie A., Lupoae P., Cristea V; Jarda L; Holobiuc I; Goia I; Catana C; Butiuc-Keul A. 2022, Ex situ conservation of plant	0.7* (1+5)= 4.2

	diversity in 5. Romania: A synthesis of threatened and endemic taxa. Journal for nature conservation 68, 126211, DOI 10.1016/j.jnc.2022.126211. (Web of Science) 5.Radomir A.-M.; Stan R.; Florea A.; Ciobotea C.-M.; Bănuță F.M.; Negru M.; Neblea M.A.; Sumedrea D.I. 2023, Overview of the Success of In Vitro Culture for Ex Situ Conservation and Sustainable Utilization of Endemic and Subendemic Native Plants of Romania. Sustainability 15, 2581. https://doi.org/10.3390/su15032581 (Scopus)	
5	Holobiuc I., Voichiță C., **Catană R.**, Mitoi M., Helepciuc F., **2014**. Medium-term preservation of *Dianthus trifasciculatus* kit ssp. *parviflorus* through minimal cultures, *Studii şi comunicări. Ştiinţele Naturii* 30(1), 57-66. Revistă indexată Zoological Record, CAB Abstracts, EBSCO **Citată în:** 1.Brezeanu A., Cogalniceanu G, 2016, Theoretical and Biotechnological Approaches in the Institute of Biology Bucharest Between 1975-2015 based on Plant Cell and Tissue Culture Technology. Studia Universitatis Babes-Bolyai Biologia 61(1), 89-106 (Web of Science) 2.Hurdu BI., Coste A., Halmagyi A., Szatmari PM., Farkas A., Puscas M., Turtureanu PD., Rosca-Casian O., Tanaseh C., Oprea A., Mardari C., Radubtoiu D., Camen-Comanescu P., Sirbu IM., Stoie A., Lupoae P., Cristea V; Jarda L.; Holobiuc I.; Goia I.; Catana C.; Butiuc-Keul A. 2022, Ex situ conservation of plant diversity in Romania: A synthesis of threatened and endemic taxa, Journal for Nature Conservation 68, 126211, DOI 10.1016/j.jnc.2022.126211. (Web of Science) 3.Radomir A.-M.; Stan R.; Florea A.; Ciobotea C.-M.; Bănuță F.M.; Negru M.; Neblea M.A.; Sumedrea D.I. 2023, Overview of the Success of In Vitro Culture for Ex Situ Conservation and Sustainable Utilization of Endemic and Subendemic Native Plants of Romania. Sustainability 15,2581. https://doi.org/10.3390/su15032581 (Web of Science)	0.7 * (1+3)= 2.8
6	Florescu L., **Catană R.**, Gavrilidis A-A., Moldoveanu M. **2018**. The impact of invasive species on urban ecosystems. *Studii şi comunicări. Ştiinţele Naturii* 34(1), 212-217. Revistă indexată Zoological Record, CAB Abstracts, EBSCO	0.7 * (1+0) = 0.7
7	Florescu L., **Catană R.**, Moldoveanu M., **2016**, How do the stagnant and flowing systems influence the production of rotifers in the Danube Delta? Muzeul Olteniei Craiova. Oltenia. *Studii şi comunicări. Ştiinţele Naturii* 32(1), 143-149. Revistă indexată Zoological Record, CAB Abstracts, EBSCO	0.7 * (1+0) = 0.7
	Punctaj criteriul 4= 0,7 x [(1 + C1) + (1+CN)]	**22.4**

***BDI (baze de date internaționale) sunt considerate cele recunoscute pe plan științific internațional, cum ar fi: *Scopus (Elsevier), Web of Science, CAB, ProQuest, EBSCO, CSA/Biological Sciences, Index Copernicus, SpringerLink.*, **c1, c2,...**–numărul de citări **fără** autocitări pentru articolul 1, 2, ..., N, preluat de pe Web of Science sau Scopus, în momentul depunerii dosarului, cuspecificarea sursei utilizate.

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SCOSAAR

Criteriul 12. Capitole apărute în cărţi/volume la edituri naţionale

Nr crt.	Capitole apărute în cărţi/volume la edituri naţionale	Punctaj = (10 +citari) / nr. autori
1	Mitoi Elena, **Blîndu Rodica,** Enache Mădălin, **2010,** Partea a-II-a, capitolul 10, Studii privind înfiinţarea unei bănci de gene la speciile vegetale de interes conservativ şi biotehnologic din zona Retezat –Ţara Haţegului, În: Conservarea geo- şi biodiversităţii şi dezvoltarea durabilă în Ţara Haţegului - Retezat. Sub redacţia: Păun Ion Otiman, Vol. I – Geo şi Biodiversaitatea în Ţara Haţegului - Retezat, Coordonatori: Dan Grigorescu, Mădălin Enache, Alexandru Bogdan, **Editura Academia Română**, Bucureşti, pg.417-422.	(10+0)/3 = 3.666
2	Mitoi Monica, **Blîndu Rodica, 2010,** Partea a-II-a, capitolul 9, Evaluarea variabilităţii genetice la *Draba dorneri* Heuff. – specie endemică de interes conservativ în zona Retezat -Ţara Hategului, În: Conservarea geo- şi biodiversităţii şi dezvoltarea durabilă în Ţara Hategului - Retezat. Sub redacţia: Păun Ion Otiman, Vol. I – Geo şi Biodiversaitatea în Ţara Hategului - Retezat, Coordonatori: Dan Grigorescu, Mădălin Enache, Alexandru Bogdan, **Editura Academia Română**, Bucureşti pg. 411-416.	(10+0)/2 = 5
3	Ştefănuţ S., Manole A., Ion C.M., Öllerer K.Á.,Onete M., Manu M., Vicol I., Moldoveanu M.M., Maican S., Banciu C., Cobzaru I., Nicoară R.G., Florescu L.I., Mogîldea E.D., Purice D.-M., Nicolae C.D., **Catană R.D.,** Văleanu V.F., Constantin M., **2017**, Ghid de utilizare a speciilor în programele de biomonitorizare, Editura Ars Docendi, 105 p. (ISBN: 978-973-558-978-3)	(10+0)/19 = 0.5263
	Punctaj criteriul 8 = ((20+ c): n) +..	**9.1929**

c-citări **fără** autocitări preluat de pe Web of Science sau Scopus, în momentul depunerii dosarului, cu specificarea sursei utilizate. În categoria "cărţi" nu se includ şi broşurile de popularizare, n –numărul de autori (ed., red., coord., în cazul cărţilor/capitolelor editate/elaborate)

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Criteriul 14. Editor/redactor/coordonator cărți la edituri internaționale

Nr. crt.	Editor/redactor/coordonator cărți la edituri internaționale	Punctaj = (30 +citari) / nr. autori
1	Anush Kosakyan, Rodica Catană and Alona Biketova (Eds.) Biodiversity, Distribution and Conservation of Plants and Fungi Effects of Global Warming and Environmental Stress, June 2022, Pages: 240, ISBN 978-3-0365-4405-2 (PDF) https://doi.org/10.3390/books978-3-0365-4405-2 (registering DOI).	(30 +0)/3 = 10
Punctaj criteriul 14 = ((20+ c): n) +..		**10**

Declar pe proprie răspundere că îndeplinesc standardele minimale

IOSUD.

Data

Candidata
3.02.2026

Dr. Catană Rodica Daniela

R Catana