Fișa de verificare a îndeplinirii standardelor minimale CNATDCU în vederea obţinerii titlului de Atestatului de Abilitare conform ordinului nr. 6129/20.12.2016

Conferențiar dr. OPRICĂ Lăcrămioara Anca

A. Condiţii preliminare obligatorii

1. Titlul de doctor în Biologie cu distincţia Cum Laude prin Ordinul M.E.C. Nr. 4802/ 15.08.2005. Titlul tezei de doctorat: *Cercetări asupra unor procese metabolice la unele specii celulozolitice în diferite condiţii de creştere,* elaborată sub conducerea prof. dr. Vlad Artenie (Diplomă de doctor eliberată de Universitatea "Alexandru Ioan Cuza" Iaşi)

CRITERIU INDEPLINIT

2. Articole științifice ca autor principal (primul, ultimul, corespondent**)**: minimum 4 articole în reviste cotate ISI cu **AIS cumulat mai mare sau egal cu 4**, din care 2 articole cu AIS de cel puțin 0,3 în ultimii 5 ani

	Autori/Lucrare (AIS in momentul publicarii)	**AIS**
2022	**1. Oprică L.,** Shvidkiy S., Molokanov A., Vochita G., Creanga D., **2022**, Some effects of proton irradiation in young seedlings of wheat, Romanian Journal of Physics, 67(9-10), 813 (WOS:000892872400010)	0,172
	2. Oprică L., Miclaus S., Vochita G., Creanga D., Ungureanu E., **2022,** Low-thermal microwave effects on the enzyme activity in the cellulolytic fungus *Phanerochaete chrysosporium*, Romanian Reports in Physics, 74, 1 (WOS:000763199000015)	0,202
2020	**3. Oprică L,** Grigore MN, Caraciuc I, Gherghel D, Mihai CT, Vochita G,**2020**, Impact of Proton Beam Irradiation on the Growth and Biochemical Indexes of Barley (Hordeum vulgare L.) Seedlings Grown under Salt Stress, Plants, 9(9), 1234 (WOS:000580690200001)	0,759
	4. Stoleru E., Vasile C., **Oprică L**., Onur Y., **2020**, Influence of the chitosan and rosemary extract on fungal biodegradation of some plasticized PLA-based materials, Polymers-Basel, 2(2):469 (WOS:000519849800219)	0,597
	5. Oprică L., Andries M., Sacarescu L., Popescu L., Pricop D., Creanga D., Balasoiu M., **2020**, Citrate-silver nanoparticles and their impact on some environmental beneficial fungi, Saudi Journal of Biological Sciences, 27(12):3365-3375. (WOS:000596478000022)	0,647
	6. Babusca D., Popescu L., Sacarescu L., Dorohoi DO., Creanga D., **Oprică L**., **2020**, Two phase photochemical synthesis of silver nanoparticles and their impact on the chlorophylls, Molecular Crystals and Liquid Crystals, 698(1), 56-64, Taylor & Francis. (WOS:000547836100006)	0,096
2019	7. Vochita G., **Oprică L.**, Gherghel G, Mihai C.T., Boukherroub R., Lobiuc A., **2019**, Graphene oxide effects in early ontogenetic stages of *Triticum aestivum* L. seedlings, Ecotoxicology and Environmental Safety, 181(15):345-352. (WOS:000475411500042)	0,760
	8. Oprică L., Antohe RG., Verdes A., Grigore MN., **2019**, Effect of freeze-drying and oven-drying methods on flavonoids content in two romanian grape varieties, Revista de chimie, 70(2):491-494. (WOS:000461982200026)	0,064
2018	9. Sirbu S., **Oprică L**, Poroch V., Iurea E., Corneanu M., Grigore MN., **2018,** Physical parameters, total phenolics, flavonoids and vitamin C content of nine sweet cherry cultivars, Revista de chimie, 69(1):125-129. (WOS:000425369600025)	0,052

2017	10. Stoleru E., Hitruc E., Vasile C., **Oprică L., 2017,** Biodegradation of poly(lactic acid)/chitosan stratified composites in presence of the *Phanerochaete chrysosporium* fungus, Polymer Degradation and Stability, 143:118-129 (WOS:000410254200014)	0,662
	11. Oprică L., Atofanei D., Poroch V., **2017,** Variation of phytochemicals content in pulp and skin of seven Romanian apples cultivars, Revista de chimie, 68(3):474-477. (WOS:000400731900010)	0,047
	12. Grigore MN., Ivan M., Verdes A., **Oprică L., 2017,** Enzymatic activity and non-enzymatic antioxidants content in several *Plantago* species (from Valea Ilenei nature reserve), during different phenophases, Revista de chimie, 68 (7):1539-1543, (WOS:000409234600027)	0,047
2015	**13. Oprică L.,** Nadejde C., Andries M., Puscasu E., Creanga D., Balasoiu M., **2015,** Magnetic contamination of environment - laboratory simulation of mixed iron oxides impact on microorganism Cells, Environmental Engineering and Management Journal, 14(3):581-586. **(**WOS:000352652700011**)**	0,07
	14. Oprică L., Grigore MM., Vochita G., **2015**, Impact of saline stress on growth and biochemical indices of *Calendula officinalis* seedlings, Romanian Biotechnological Letters, 20(6): 11007-11017. (WOS:000368248300013)	0,09
2014	**15. Oprică L.**, Stefan M., **2014,** Evaluation of morphological and biochemical parameters of soybean seedlings induced by saline stress, Romanian Biotechnological Letters, 19(4):9615-9624. **(**WOS:000341970300018**)**	0,09
	16. Oprică L., Ungureanu E., Vochita G., Creanga D., Miclaus S., **2014,** Electromagnetic exposure influence on protein synthesis in cellulolytic fungus, An Environmental Issue, Romanian Journal of Physics, 59(7–8):817–825. (WOS:000342395800018)	0,19
2013	17. Truta E., Vochita G, Rosu CM., Zamfirache MM., Olteanu Z., **Oprică L., 2013,** Karyotype traits in Romanian selections of edible blue honeysuckle, Turkish Journal of Biology, 37(1): 60-68. **(**WOS:000321227600008**).**	0,2
2010	18. Truta E., Căpraru G., Surdu S., Zamfirache M.M., Olteanu Z., Rosu CM.**, Oprică L., 2010,** Karyotypic studies in ecotypes of *Hippophae rhamnoides* L. from Romania, Silvae Genetica, 59 (4):175-182. (WOS:000283900500006).	0,2
	TOTAL AIS	**4,945**

CRITERIU INDEPLINIT	**TOTAL AIS = 4,945 (minim necesar 4)**

3. Coordonare proiecte de cercetare

Titlu proiect	Perioada
1. Contract **PN-III-P2-2.1-PTE2019-0697**, Optimizarea tehnologiilor de creștere a biomasei piscicole și vegetale în cadrul sistemelor multi-trofice de acvacultură intensive prin utilizarea tehnicilor inteligente de recunoaștere vizuală și IoT", **cod** contract de finanțare nr. **51PTE/2020 (RESPONSABIL PROIECT din partea Universitatii Alexandru Ioan Cuza Iasi)**, (Punctaj 90, poztia 52 în lista Rezultatelor finale – Transfer la operatorul economic) -99.000 lei	**2020-2022**
2. Contract ştiinţific bilateral Romania-Belarus, între Academia Română (Universitatea Alexandru Ioan Cuza din Iaşi - partener) şi Academia Naţională de Ştiinţe a Republicii Belarus şi Fundaţia Republicii Belarus pentru Cercetare Fundamentală (**competiţia AR-FRBCF-2020-2021**): "Mechanisms for increasing the abiotic stress tolerance of some medicinal and agricultural plants by using silicon nanoparticles" (Director proiect Romania-Oprică L, Director Proiect Minsk-Molchan O)	**2020-2021**

3. Contract ştiinţific bilateral Romania-Belarus, între Academia Română (Universitatea Alexandru Ioan Cuza din Iaşi - partener) şi Academia Naţională de Ştiinţe a Republicii Belarus şi Fundaţia Republicii Belarus pentru Cercetare Fundamentală (**competiţia AR-FRBCF-2018-2019**): "Assesement of selenium nanoparticles role for alleviating biochemical effect of salt stress and drought in some medicinal and agricultural plants, in the context of global salinization and aridization" ((Director proiect Romania-Oprică L, Director Proiect Minsk-Molchan O)) –10500 lei	**2018-2019**
4. Contract ştiinţific bilateral Romania – Russia, între Universitatea Alexandru Ioan Cuza din Iaşi şi IUCN, Dubna: Plant-extract-assisted green synthesis of metal nanoparticles and their effect on environmental fungi**,** (Research Project 2020 JINR-Romania, no. 10, Ordinul nr. 269/20.05.2020) (Leader from Romania-Oprică L, Leader from Dubna-Rogachev A) – 3000 USD	**2020**
5. Contract ştiinţific bilateral Romania – Russia, între Universitatea Alexandru Ioan Cuza din Iaşi şi IUCN, Dubna: „Investigation of *Vaccinium myrtillus* extract in the mediation of silver nanoparticles green synthesis and the effect of their on environmental microorganisms" (Research Project 2019 JINR-Romania no. 7) (Leader from Romania-Oprică L, Leader from Dubna-Rogachev A) https://www.uaic.ro/wp-content/uploads/2020/02/IUCN-JINR-2019.pdf 1400 USD	**2019**
6. **Contract ştiinţific bilateral Romania – Russia, între Universitatea Alexandru Ioan Cuza din Iaşi şi IUCN, Dubna: "**Characterization of silver nanoparticles using green synthesis and their effects on environmental microorganisms metabolic activity" (Research Project 2018 JINR-Romania no. 43) (Leader from Romania-Oprică L, Leader from Dubna-Kuklin A) http://www.ifa-mg.ro/jinr/projects_2018/04-4-1121-UAIC.php 1800 USD	**2018**
7. **Contract ştiinţific bilateral Romania – Russia, între Universitatea Alexandru Ioan Cuza din Iaşi şi IUCN, Dubna: "**Combined experimental researches of metalic nanoparticles: structural characterization and effect control on environmental microorganisms metabolic activity (Research project 2017 JINR-Romania no. 39) (Leader from Romania-Oprică L, Leader from Dubna-Kuklin A) http://www.ifa-mg.ro/jinr/projects_2017/04-4-1121-2015-2017-UAIC.php). 2500 USD	**2017**
8. **Contract ştiinţific bilateral Romania – Russia, între Universitatea Alexandru Ioan Cuza din Iaşi şi IUCN, Dubna:** "Silver nanoparticles preparation by chemical methods and their structural investigation (Research Project 2016 JINR-Romania no. 57) (Leader from Romania-Oprică L, Leader from Dubna-Gorshkova J) (http://www.nipne.ro/international/cooperations/jinr/Romania-JINR_projects_and_grants_2016.pdf) 2016 USD	**2016**
9. **Contract ştiinţific bilateral Romania – Russia, între Universitatea Alexandru Ioan Cuza din Iaşi şi IUCN, Dubna: "**Magnetic nanoparticles impact on some microorganisms involved in forestry waste degradation, (Research project 2016 JINR-Romania no.81) (Leader from Romania-Oprică L, Leader from Dubna-Balasoiu M). (http://www.nipne.ro/international/cooperations/jinr/Romania-JINR_projects_and_grants_2016.pdf). 1200 USD	**2016**
10. **Contract ştiinţific bilateral Romania – Russia, între Universitatea Alexandru Ioan Cuza din Iaşi şi IUCN, Dubna:** "Experimental study of the impact of environmental particles processed microflora", (Research project 2015 JINR-Romania no. 75) (Leader from Romania-Oprică L, Leader from Dubna-Balasoiu M) (http://www.nipne.ro/international/cooperations/jinr/Romania-JINR_projects_and_grants_2015.pdf) 1500 USD	**2015**

CRITERIU INDEPLINIT	**10 proiecte coordonate (minim necesar 2)**

B. Criterii şi standarde minimale

1. Articole în reviste cotate ISI, ca autor principal 1x[4+(7xAI1)+c1] + 1x[4 +(7xAI2)+c2]

	1. Articole în reviste cotate ISI, ca autor principal	AIS	Citări Web of Science/Scopus	Punctaj
2022	**1. Oprică L.,** Shvidkiy S., Molokanov A., Vochita G., Creanga D., 2022, Some effects of proton irradiation in young seedlings of wheat, Romanian Journal of Physics, 67(9-10), 813.	**0,172**	**0**	**5,204**
	2. Oprică L., Miclaus S., Vochita G., Creanga D., Ungureanu E., 2022, Low-thermal microwave effects on the enzyme activity in the cellulolytic fungus *Phanerochaete chrysosporium*, Romanian Reports in Physics, 74, 1	**0,202**	**0**	**5,414**
2021	**3. Oprică L.,** Strungaru-Jijie R., Grigore MN., Balasoiu M., Creanga D., Vochiţa G, 2021, Effect of AgNPs biologically and chemically synthesized on Phanerochaete chrysosporium antioxidant enzymes activities,The 9th IEEE International Conference on E-Health and Bioengineering - EHB 2021, Grigore T. Popa University of Medicine and Pharmacy, Web Conference, Romania, November 18-19, 2021	**0**	**0**	**4**
	4. Oprică L., Grigore MN., Bara I., Vochiţa G, 2021, Salinity and SiO2 impact on growth and biochemical responses of basil (Ocimum basilicum L.) seedlings, The 9th IEEE International Conference on E-Health and Bioengineering - EHB 2021, Grigore T. Popa University of Medicine and Pharmacy, Web Conference, Romania, November 18-19, 2021 **1. Citare în:** Sarraf, M.; Vishwakarma, K.; Kumar, V.; Arif, N.; Das, S.; Johnson, R.; Janeeshma, E.; Puthur, J.T.; Aliniaeifard, S.; Chauhan, D.K.; Fujita, M.; Hasanuzzaman, M., 2022, Metal/Metalloid-Based Nanomaterials for Plant Abiotic Stress Tolerance: An Overview of the Mechanisms. Plants, 11, 316.	**0**	**1**	**5**
2020	**5. Oprică L,** Andries M, Sacarescu L, Popescu L, Pricop D, Creanga D, Balasoiu M, **2020**, Citrate-silver nanoparticles and their impact on some environmental beneficial fungi, Saudi Journal of Biological Sciences, 27(12):3365-3375. **1. Citare în:** Saxena J, Ayushi KM, 2023, Evaluation of **Sclerotinia sclerotiorum** MTCC 8785 as a biological agent for the synthesis of silver nanoparticles and assessment of their antifungal potential against **Trichoderma harzianum** MTCC 801, Environmental Research, 216 (3), 114752 **2. Citare în:** M. Skiba and V. Vorobyova, 2021, Rapid Synthesis of Silver Nanoparticles and Their Decoration on TiO2 by Plasma-Over-Liquid Process: Characterization and Application for Tetracycline Antibiotic Degradation Iran. J. Catal. 11(4), 377-387 **3. Citare în:** Zhang H, Licun Zhang, Rui Tao, Juanjuan Hu, and Guixin Chu, 2022, Nitrapyrin Addition Mitigated CO_2 Emission from a Calcareous Soil Was Closely Associated with Its Effect on Decreasing Cellulolytic Fungal Community Diversity, *Journal of Agricultural and Food Chemistry* **2022 70** (17), 5299-5309 **4. Citare în:** Lavande S, Shraddha Jaiswal, Roshanee Deore, Jayant Pawar, Vidya Tale, 2022, Metal Nanoparticle Synthesis Using Fruit Extracts as Reducing Agents and Comparative Studies with a Chemical Reducing Agent, Biosciences Biotechnology Research Asia, Vol. 19(2), p. 487-496 **5. Citare în:** Ihsan Ilahi, Fazli Khuda, Muhammad Umar Khayam Sahibzada,Saad Alghamdi, Rahim Ullah, Zakiullah, Anas Dablool, Mehboo Alame, Ayub Khan, Atif Ali Khan Khalil, 2021, Synthesis of silver nanoparticles using root extractof Duchesnea indicaand assessment of its biologicalactivities, Arabian Journal of Chemistry, 14. **6. Citare în:** Nicole Jara, Nataly S. Milán, Ashiqur Rahman, Lynda Mouheb, Daria C. Boffito,Clayton Jeffryes, Si Amar Dahoumane, 2021, Photochemical Synthesis of Gold and Silver Nanoparticles—A Review, Molecules, 26(15): 4585 **7. Citare în:** Sharmin N, Pang C, Sone I, Walsh JL, Fernández CG, Sivertsvik M, Fernández EN. Synthesis of Sodium Alginate-Silver Nanocomposites Using Plasma Activated Water and Cold Atmospheric Plasma Treatment. Nanomaterials (Basel). 2021 Sep 5;11(9):2306	**0,647**	**7**	**15,529**
	6. Babusca D, Popescu L, Sacarescu l, Dorohoi DO, Creanga D, **Oprica L, 2020**, Two phase photochemical synthesis of silver nanoparticles and their impact on the	**0,096**	**3**	**7,672**

	chlorophylls, Molecular Crystals and Liquid Crystals, 698(1), 56-64, Taylor & Francis. **1**. Citare în: Ghassan H. Matar, Güliz Akyüz, Elif Kaymazlar, Muberra Andac, 2022, An Investigation of Green Synthesis of Silver Nanoparticles Using Turkish Honey Against Pathogenic Bacterial Strains, Biointerface Research in Applied Chemistry, 13(2), 1-13. 2. Citare în: Bergal A, Ghassan H. Matar, Müberra Andaç *BioNanoScience*, 2022, Olive and green tea leaf extracts mediated green synthesis of silver nanoparticles (AgNPs): comparison investigation on characterizations and antibacterial activity, 12, 307–321 3. Citare în: Jara N, Nataly S. Milán, Ashiqur Rahman, Lynda Mouheb, Daria C. Boffito,Clayton Jeffryes, Si Amar Dahoumane, 2021, Photochemical Synthesis of Gold and Silver Nanoparticles—A Review, Molecules, 26(15): 4585			
	7. Oprică L, Grigore MN, Caraciuc I, Gherghel D, Mihai CT, Vochita G,**2020**, Impact of Proton Beam Irradiation on the Growth and Biochemical Indexes of Barley (Hordeum vulgare L.) Seedlings Grown under Salt Stress, Plants, 9(9), 1234 (WOS:000580690200001) **1**. Citare în: Jiaqi Wang, Yixin Zhang,Libin Zhou,Fu Yang,Jingpeng Li, Yan Du,Ruiyuan Liu, Wenjian Li,Lixia Yu, 2022, Ionizing Radiation: Effective Physical Agents for Economic Crop Seed Priming and the Underlying Physiological Mechanisms, Int. J. Mol. Sci.**,** 23**(23)**	**0,759**	**1**	**10,313**
	8. Stoleru E., Vasile C., **Oprică L.,** Onur Y., **2020**, Influence of the chitosan and rosemary extract on fungal biodegradation of some plasticized PLA-Based materials, Polymers, 12(2):469 **1. Citare în:** Vasile C., Pamfil D, Zaharescu T, Dumitriu RP, Pricope GM, Râpă M, Vasilievici G, 2022, Effect of Gamma Irradiation on the PLA-Based Blends and Biocomposites Containing Rosemary Ethanolic Extract and Chitosan, Polymers (Basel)., 14(7): 1398 **2. Citare în:** Bhowmik S, Dominic Agyei, Azam Ali, 2022, Bioactive chitosan and essential oils in sustainable active food packaging: Recent trends, mechanisms, and applications, Food Packaging and Shelf Life,Volume 34, **3. Citare în:** Linying S, XI Yuewei, WENG Yunxuan, 2022, Research progress in degradation characteristics of polylactic acid composites,China Plastics, 36(6):155-164 **4. Citare în:** Samaneh Hadian-Ghazvini, Fahimeh Hooriabad Saboor, Leila Safaee Ardekani, 2022, Bioremediation Techniques for Microplastics Removal, Microplastics Pollution in Aquatic Media, 327–377 **5. Citare în:** Lupu, AM, Zaharescu, T, Lungulescu, EM, Iovu, H, 2020, Contributions Of Ecological Oxidation Protectors In The Stability Of Epdm-Based Packaging Materials, University Politehnica Of Bucharest Scientific Bulletin Series B-Chemistry And Materials Science,82(4):85-96 **6. Citare în:** Zambrano MC, Pawlak JJ, Venditti RA, 2020, Effects of Chemical and Morphological Structure on Biodegradability of Fibers, Fabrics, and Other Polymeric Materials, Bioresources, 15(4):9786-9833	**0,597**	**6**	**14,179**
2019	9. Vochita G., **Oprică L**, Gherghel G, Mihai CT, Boukherroub R., Lobiuc A., **2019**, Graphene oxide effects in early ontogenetic stages of *Triticum aestivum* L. seedlings, Ecotoxicology and Environmental Safety, 181(15):345-352. 1. **Citare in:** Kazlauskas M, Ž. Jurgelėnė, S. Šemčuk, K. Jokšas, N. Kazlauskienė, D. Montvydienė, 2023, Effect of graphene oxide on the uptake, translocation and toxicity of metal mixture to Lepidium sativum L. plants: Mitigation of metal phytotoxicity due to nanosorption, Chemosphere, 312, Part 1, **2. Citare in:** Zhang X, Cao H, Wang H, Zhao J, Gao K, Qiao J, Li J, Ge S. The Effects of Graphene-Family Nanomaterials on Plant Growth: A Review. Nanomaterials (Basel). 2022 Mar 12;12(6):936 **3. Citare in:** Liu C, Lu Sun, Yanxia Sun, Xiaoqing You, Yan Wan, Xiaoyong Wu, Maoling Tan, Qi Wu, Xue Bai, Xueling Ye, Lianxin Peng, Gang Zhao, Dabing Xiang, Liang Zou, 2022, Integrating transcriptome and physiological analyses to elucidate the molecular responses of buckwheat to graphene oxide, Journal of Hazardous Materials, Volume 424, Part B, **4. Citare in:** Zhao S, Xiangui Zhu, Mengdi Mou, Ziyuan Wang, Lian Duo, 2022, Assessment of graphene oxide toxicity on the growth and nutrient levels of white clover (Trifolium repens L.), Ecotoxicology and Environmental Safety, Volume 234, **5. Citare in:** Konwar, A., Boruah, J.S., Phukan, K., Rahman, S., 2022, Fate of 2D Nanomaterials and Their Toxic Effects on the Environment and Human Health. In: Khanam, Z.,	**0,760**	**20**	**29,32**

	Gogoi, N., Srivastava, D.N. (eds) 2D Nanomaterials for Energy and Environmental Sustainability. Materials Horizons: From Nature to Nanomaterials. Springer, Singapore, Front Plant Sci, **6. Citare in:** Zhu YX, Yi Neng Weng, Si Yu Zhang, Li Juan Liu, Shao Ting Du, 2022, The nitrate uptake and growth of wheat were more inhibited under single-layer graphene oxide stress compared to multi-layer graphene oxide, Ecotoxicology and Environmental Safety, 247, **7. Citare in:** Xiao X, Xiuping Wang, Lixin Liu, Chang Chen, Aihua Sha, Jun Li, 2022, Effects of three graphene-based materials on the growth and photosynthesis of Brassica napus L., Ecotoxicology and Environmental Safety, 234, **8. Citare in:** Mandici, A.; Cretu, D.E.; Burlica, R.; Astanei, D.; Beniuga, O.; Rosu, C.; Topa, D.C.; Aostacioaiei, T.G.; Aprotosoaie, A.C.; Miron, A. 2022, Preliminary Study on the Impact of Non-Thermal Plasma Activated Water on the Quality of *Triticum aestivum* L. cv. Glosa Sprouts. Horticulturae**,** 8**,** 1158. **9. Citare Scopus:** Chen Z, Wang Q, 2021, Graphene ameliorates saline-alkaline stress-induced damage and improves growth and tolerance in alfalfa (Medicago sativa L.), Plant Physiology and Biochemistry, 163:128-138 **10. Citare in:** Chen Z, Guo Z, Niu J, Xu N, Sui X, Kareem HA,Hassan MU,Yan M, Zhang Q, Wang Z, Mi F, Kang J, Cui J, Wang Q, 2021, Phytotoxic effect and molecular mechanism induced by graphene towards alfalfa (Medicago sativa L.) by integrating transcriptomic and metabolomics analysis, Chemosphere **11. Citare in:** YYou, LijuanLiu,YuWang, JiaxinLi, ZhiningYing, ZhilinHou, HuijunLiu, ShaotingDu, 2021, Graphene oxide decreases Cd concentration in rice seedlings but intensifies growth restriction, Journal of Hazardous Materials, 417(5), 125958 **12. Citare in:** Zhao Daqiu, Fang Ziwen, Tang Yuhan, Tao Jun, 2020, Graphene oxide as an effective soil water retention agent can confer drought stress tolerance to paeonia ostii without toxicity. Environmental science & technology, DOI: 10.1021 / acs.est.0c02040 **13. Citare Scopus:** Szollosi R, Molnar A, Kondak S, Kolbert Z, 2020, Dual Effect of Nanomaterials on Germination and Seedling Growth: Stimulation vs. Phytotoxicity, Plants-Basel, 9(12). **14. Citare in:** Minling Gao, Xipeng Chang,YujuanYang, Zhengguo Song, 2020,Foliar graphene oxide treatment increases photosynthetic capacity and reduces oxidative stress in cadmium-stressed lettuce, Plant Physiology and Biochemistry, 154:287-294 **15. Citare Scopus:** Weng Y., You Y., Lu Q., Zhong A., Liu S., Liu H., Du S., 2020, Graphene oxide exposure suppresses nitrate uptake by roots of wheat seedlings, Environmental Pollution, 262 **16**. **Citare Scopus:** Du J., Zhou Q., Wu J., Li G., Wu Y., 2020, Vegetation alleviate the negative effects of graphene oxide on benzo[a]pyrene dissipation and the associated soil bacterial community, Chemosphere, 253 17. Citare **Scopus:** Segatto C, Souza Ca, Lajús CR, Fiori MA, Luiz Silva LL, Riella HG, Coelho Cmm, 2020, Pretreatment of maize seeds with different magnesium nanoparticles improves the germinating performance and storability, AJCS 14(09):1473-1478. **18. Citare in:** González-Garcia Y., Elsy Rubisela López-Vargas, Gregorio Cadenas-Pliego, Adalberto Benavides-Mendoza, Susana González-Morales, Armando Robledo-Olivo, Ángel Gabriel Alpuche-Solís, Antonio Juárez-Maldon, 2019, Impact of Carbon Nanomaterials on the Antioxidant System of Tomato Seedlings, 23, Int. J. Mol. Sci. 20(23), **19. Citare in:** Jităreanu A., Caba IC., Trifan A., Pădureanu S., Agoroaei L., 2019, *Triticum aestivum* assay - a useful tool for environmental monitoring and toxicity assessment, Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 47 (4):1005-1018. **20. Citare in:** Liu Y, Wang T, Cao J., Zang Z, Wu Q, Wang H, Tai F, He R, 2019, Quaternary Ammonium Salts of Iminofullerenes: Fabrication and Effect on Seed Germination, J. Agric. Food Chem., 67(49), 13509-13517.			
	10. Oprică L., Antohe RG., Verdes A., Grigore MN., **2019**, Effect of freeze-drying and oven-drying methods on flavonoids content in two romanian grape varieties, Revista de chimie, 70(2):491-494. **1. Citare in:** Krakowska-Sieprawska, A.; Kiełbasa, A.; Rafińska, K.; Ligor, M.; Buszewski, B. Modern Methods of Pre-Treatment of Plant Material for the Extraction of Bioactive Compounds. **Molecules** 2022, **27**, 730. **2. Citare Scopus:** Dippong T., Mihali C., Voșgan Z., Avram A., Berinde Z., Dumuta A., 2020, Comparative analysis regarding the chemical and microbiological characteristics of some red wine assortments produced in two Romanian viticultural areas, Revista de Chimie, 71(1):411-415. **3. Citare Scopus:** Nur S., Srimayona W.O., Aswad M, Yulianti R., Burhan A, Aisyah A.N, Sami F.J, Nursamsiara, 2020, Inhibition of tyrosine photodegradation activity of lhyophilisate, extract	**0,064**	**4**	**8,448**

	and fractions of kersen fruit (Muntingia calabura L.) as photoprotective agent, Plant Cell Biotechnology and Molecular Biology, 21(55-56):68-75 **4. Citare Scopus:** Piskov S., Timchenko L., Grimm W.D., Rzhepakovsky I., Avanesyan S., Sizonenko M., Kurchenko V., 2020, Effects of various drying methods on some physico-chemical properties and the antioxidant profile and ACE inhibition activity of oyster mushrooms (*Pleurotus ostreatus*), Foods, 9(2)			
2018	11. Sirbu S., Oprică L., Poroch V., Iurea E., Corneanu M., Grigore MN., **2018**, Physical parameters, total phenolics, flavonoids and vitamin C content of nine sweet cherry cultivars, Revista de chimie, 69(1):125-129. **1. Citare in:** Mehmet Ali Ockun, Yusuf Can Gercek, Husnu Demirsoy, Leyla Demirsoy, Idris Macit, Gul Cevahir Oz, 2022, Comparative evaluation of phenolic profile and antioxidant activity of new sweet cherry (*Prunus avium* L.) genotypes in Turkey, Phytochemical analysis, 33(4)564-576	**0,052**	**1**	**5,364**
	12. Oprică L., Verdes A., Poroch V., Creanga D., Grigore M.N., **2018**, Effect of different drying techniques on antioxidant capacity of two romanian red grape cultivars, Iranian Journal of Public health, 48 (7):1377-1378.	**0,13**	**0**	**4,91**
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	TOTAL			**285,985**

2. Articole în reviste cotate ISI, ca şi contributor 0,7x[4+(7xAI1)+c1] + 0,7x[4 +(7xAI2)+c2]

	2. Articole în reviste cotate ISI, ca şi contributor	AIS	**Citări Web of Science/ Scopus**	Punctaj
	1. Mir R, Romero I., González-Orenga S, Ferrer-Gallego P.P., Laguna E, Boscaiu M, **Oprică L**, Grigore MN, Vicente O, 2022,Constitutive and Adaptive Traits of Environmental Stress Tolerance in the Threatened Halophyte Limonium angustebracteatum Erben (Plumbaginaceae), 2022, Plants (Basel), 11(9):1137.	**0,654**	**0**	**6,004**
2020	2. Petrea SM., Costache M., Cristea D., Strungaru SA., Simionov IA., Mogodan A., **Oprica L.**, Cristea V., **2020**, A Machine Learning Approach in	**0,694**	**5**	**9,7**

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2019	3. Morosanu C., Popescu L., Sacarescu L., Dorohoi O., **Oprica L.**, Creanga D., **2020**, Quantum-chemical simulation and experimental study of some magnetic nanoparticles stabilized in fluid suspensions by using organic coating, Molecular Crystals and Liquid Crystals, 698(1):38-45, Taylor & Francis **1. citare în:** Sujatha H. S., M. Lavanya, 2022, An insight to HOMO LUMO aspects in corrosion applications, Canadian Metallurgical Quarterly,	**0,096**	**1**	**3,970**
	4. Costin D., Teodor A., Popescu IA., Oprea M., Oprisan M., **Oprică L., 2019**, The dose–response curve to X-Rays by Cytokinesis – Block Micronucleus (CMBN) assay as biomarker for medical dose estimation in response to radiation emergencies, EHB 2019	**0**	**0**	**2,8**
	5. Popescu L., Ababei G., Babusca D., Creanga D., Benchea CA., Lupu N., **Oprică L., 2019**, Spectral investigation of surface plasmon resonance bands of silver nanoparticles capped with gallic acid, 4th International Conference on Nanotechnologies and Biomedical Engineering, Proceedings of ICNBME-2019, 305-309, Springer. **1. citare în:** Al-Zahrani S, Astudillo-Calderón S, Pintos B, Pérez-Urria E, Manzanera JA, Martín L, Gomez-Garay A., 2021, Role of Synthetic Plant Extracts on the Production of Silver-Derived Nanoparticles. Plants**.** 10(8):1671.	**0**	**1**	**3,5**
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			TOTAL	**152,976**

CRITERIU INDEPLINIT	**Recunoaştere internaţională (Σ1 – 2)** **285,985+152,976 = 438,961**

3. Articole în reviste indexate BDI, ca autor principal [(1+c1)+(1+c2)…..]

Anul	**3. Articole în reviste indexate BDI, ca autor principal**	**Citări Web of Science/Scopus**	Punctaj

	1. Oprica L, Rosu CM, 2021,Total polyphenols, flavonoids contents and antioxidant activity of Rosa sp. genotipes from different altitude of Romanian regions, Journal of Experimental and Molecular Biology, 22(1):15-26 **1. Citare in:** Marta Igual, Maria Simona Chiș, Adriana Păucean, Dan Cristian Vodnar, Sevastița Muste, Simona Man, Javier Martínez-Monzó, Purificación García-Segovia, 2021,Valorization of Rose Hip (Rosa canina) Puree Co-Product in Enriched Corn Extrudates, Foods. 12,10(11):2787.	**1**	**2**
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	9. Ivan MA., Grigore MN., Oprică L., Zamfirache MM, **2015**, Non-enzymatic antioxidants content in several species collected from salt marshes from Dobrogea, Analele Stiintifice ale Universitătii "Alexandru Ioan Cuza", Secţiunea Genetică şi Biologie Moleculară, 15(4):57-64.	**0**	**1**
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		TOTAL	**70**

4. Articole în reviste indexate BDI, ca şi contributor 0,7x[(1+c1)+(1+c2)…..]

Anul	4. **Articole în reviste indexate BDI, ca şi contributor**	**Citări Web of Science/ Scopus**	Punctaj
2014	1. Olteanu Z., Oprică L., Truta E., Lobiuc A., Zamfirache MM, **2014**, Effects induced by zinc on some antioxidative enzyme activities and on soluble protein content in young plantlets of barley, Analele Stiintifice ale Universitatii "Alexandru Ioan Cuza", Secţiunea Genetică şi Biologie Moleculară, 15(2):23-30. **1. Citare in:** Teliban GC., Stoleru V., Burducea M., Lobiuc A., Munteanu N., Popa LD., Caruso G., 2020, Biochemical, physiological and yield characteristics of red basil as affected by cultivar and fertilization, Agriculture-Basel, 10(2): **2. Citare in:** Burducea M., Zheljazkov VD, Lobiuc A., Pintilie CA., Virgolici M., Silion M , Asandulesa M , Burducea I. , Zamfirache MM., 2019, Biosolids application improves mineral composition and phenolic profile of basil grown on eroded soil, Horticulturae Science, 249: 407-418 **3. Citare in:** Rout JR., Kerry RG., Panigrah, Sahoo SL, Pradhan C., Ram SS., Chakraborty A., Sudarshan M., 2019, Biochemical, molecular, and elemental profiling of *Withania somnifera* L. with response to zinc stress, Environmental Science and Pollution Research, 26(4): 4116-4129	**3**	**2,8**
	2. Andries M., Puscasu E., Nadejde C., **Oprică L.,** Creanga D., **2014,** Cobalt ferrite nanoparticles effect on cellulolytic fungus *Phanerochaete chrysosporium*, Romanian Journal of Biopysics, 24(2):101-107.	**0**	**0,7**
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	26. Stratu A., Murariu A., Zamfirache MM., Olteanu Z., **Oprică L.,** Tănase C., Chinan V., Bârsan C., **2008,** Physiological and biochemical aspects in the lignicolous species *Gloeophyllum odoratum* (Wulfen) Imazeki and *Fomitopsis pinicola* (Sw.) P. Karst. (Fungi, Basidiomycota) collected from Călimani National Park (The Oriental Carpathians), Analele Ştiinţifice ale Universităţii „Alexandru Ioan Cuza”, Secţiunea II a. Biologie vegetală, IV(2):97-103.	**0**	**0,7**
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		TOTAL	**53,9**

8. Cărţi la Edituri Universitare şi alte edituri

Cărţi în Edituri Universitare	Nr. autori	Calcul (20+c):n
Oprică Lăcrămioara, **2016** – Metaboliti secundari la plante, Origine, structura, functii, Editura Universităţii Alexandru Ioan Cuza Iaşi (294 pagini	**1**	**20**
Oprică Lăcrămioara, **2011,** Biochimia produselor alimentare, Editura Tehnopress. 384 pagini	**1**	**20**
Cojocaru Dumitru, Olteanu Zenovia, Elena Ciornea, **Oprică Lăcrămioara,** Sabina-Ioana Cojocaru, **2007,** Enzimologie generală, Editura Tehnopress, 524 pagini.	**5**	**4**
Alexandru Manoliu, Manuela Elisabeta Sidoroff, **Oprică Lăcrămioara**, Sorin Diaconeasa, Tatiana Tofan-Burac, **2007,** Dictionar poliglot de Biotehnologie - roman, englez, rus, francez, finlandez, Editura Tehnică, 609 pagini. **1. Citare in:** Pricop AM., Mocanu M., 2019, The design of multilingual dictionaries according to users' needs, Philologica Jassyensia, 15 (1):119-135	**5**	**4,2**
Alexandru Manoliu, **Oprică Lăcrămioara**, Sorin Diaconeasa, Tatiana Tofan-Burac, **2002,** Dictionar poliglot de Biotehnologie - roman, englez, rus, francez, Editura Corson, 571 pagini.	**4**	**5**
	TOTAL	**53,2**

10. Capitole în volume la edituri internationale de prestigiu

Cărţi în Edituri Universitare	Nr. autori	Calcul (50+c):n
Oprică L, Vochița G, 2021, Enzymatic activity in halophytes, În: *Handbook of Halophytes. From Molecules to Ecosystems towards Biosaline Agriculture* (Ed. Grigore MN), Springer, 1877-1900. https://doi.org/10.1007/978-3-030-17854-3_77-1	**2**	**25**
	TOTAL	**25**

B. Criterii şi standarde minimale				
Parametru	**Calcul**		Standarde mininale	**Criteriu**
1. **Recunoaştere internaţională (Σ1–2)**	**285,985+152,976**	**438,961**	**Minim 150**	**INDEPLINIT**
2. **(Σ3 – 4) (Articole în reviste BDI)**	**70+53,9**	**123,9**		
3. **Σ8 (Cărţi la Edituri Universitare)**		**78,2**		
4. **Σ1-15 (Performanţă totală)**		**641,061**	**Minim 250**	**INDEPLINIT**

06.01.2023

Conferentiar,
Dr. Lăcrămioara OPRICĂ