

**Fișa de verificare a îndeplinirii standardelor minime CNATDCU
Inginerie Industrială și Management (OM 6129/20.12.2016)**

Nume și prenume cadru didactic: **Ana-Maria ROȘU**

Grad didactic: **Șef de lucrări**

PUNCTAJ TOTAL INDICATOR RELEVANȚĂ = 1263,363

A1. ACTIVITATEA DIDACTICĂ ȘI PROFESIONALĂ

Punctajul minim = 130

Punctajul realizat = 246,608

1.1. Cărți/manuale/monografii/capitole în cărți de specialitate

Cărți/manuale/monografii/capitole de specialitate ca autor *Profesor minimum 2 de prim autor*

1.1.1 internaționale

- | | |
|--|-------------|
| 1. Daniela Nicuță, Ana-Maria Roșu* , Roxana-Elena Voicu, 2023. <i>Nano- Emulsion Formulations for Food Processing and Enhancing the Nutritional Quality and Shelf Life of Food</i> , CAB International 2023. Nanoformulations for Sustainable Agriculture and Environmental Risk Mitigation (eds Z. Khan and N.A. Șuțan), https://doi.org/10.1079/9781800623095.0003 | 27/5*3 =1,8 |
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1.1.1.2 naționale (edituri recunoscute)

- | | |
|--|-----------------|
| 1. A.M. Roșu, D.C. Mirilă, 2025. Siguranța produselor alimentare , ISBN – 978-606-527-731-1, Editura Alma Mater, Bacău, 107 pagini | 107/10*2=5,35 |
| 2. G. Muntianu, A.M. Roșu, 2023. Chimie aplicată , Editura PIM, Iași, ISBN 9786061377350, 315 p. | 315/10*2 =15,75 |
| 3. G. Muntianu, A.M. Roșu, 2023. Chimia pe înțelesul tuturor. Experimente. Aplicații . Editura PIM, Iași, ISBN 978-606-13-7528-8, 256 p. | 256/10*2 =12,8 |
| 4. A.M. Roșu, 2017. Synthèse d'amidons modifiés pour le développement de procédés d'oxydation de polluants organiques persistants , Editura Alma Mater, Bacău, ISBN 978-606-527-561-4, 144 pagini | 144/10*1=14,4 |

1.1.2 Cărți ca editor

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Nu este cazul

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Total criteriu 1.1. 50,1

1.2. Alte materiale didactice - inclusiv în format electronic (pentru format electronic - echivalent format A4 text fără figuri cu minimum 3200 caractere inclusiv spații)

1.2.1 Suporturi de curs/Îndrumare - *Profesor: Minimum 4, din care 2 prim autor*

- | | |
|---|--------------|
| 1. A.M. Roșu, 2025. Chimie pentru ingineri, Ed. a II-a – ISBN – 978-606-527-730-4, Editura Alma Mater, Bacău, 104 pagini | 104/20*1=5,2 |
|---|--------------|

2. N.D. Miron, A.M. Roșu , 2018. <i>Chimie pentru ingineri</i> , Editura Alma Mater, Bacău, ISBN 978-606-527-603-1, 235 p.	235/20*2 =5,875
3. N.D. Miron, A.M. Roșu , 2015. <i>Tehnologii și alimente speciale în industria produselor alimentare</i> , Editura Alma Mater, Bacău, ISBN 978-606-527-137-1, 130 p.	130/20*2=3,25
4. N. Platon, A.M. Roșu , 2015. <i>Tehnologii în industria alimentară</i> , Editura Alma Mater, Bacău, ISBN 978-606-527-448-8, 200 p.	200/20*2=5
5. N.D. Miron, A.M. Roșu , 2014. <i>Calitatea și siguranța alimentelor</i> , Editura PIM, Iași, ISBN 978-606-13-1937-4, 135 p.	135/20*2=3,375
6. N.D. Miron, A.M. Roșu , 2014. <i>Metode de condiționare și conservare a produselor ecologice</i> , Editura PIM, Iași, ISBN 978-606-13-1936-7, 247 p.	247/20*2=6,175
7. A.M. Roșu , N. Platon, 2013. <i>Chimia alimentelor</i> , Editura Alma Mater, Bacău, ISBN 978-606-527-311-5, 108 p	108/20*2=2,7
8. N.D. Miron, A.M. Dospinescu , 2007. <i>Chimie anorganică</i> , Editura Alma Mater, Bacău, ISBN 978-973-1833-06-4, 188 p	188/20*2=4,7
9. N.D. Miron, A.M. Dospinescu , A.V. Ursu, 2007. <i>Aditivi și amelioratori în industria alimentară</i> , Editura Alma Mater, Bacău, ISBN 978-973-8392-07-1, 125 p	125/20*3=2,083
10. N.D. Miron, I.D. Nistor, A.M. Dospinescu , 2007. <i>Chimie generală</i> , Editura Alma Mater, Bacău, ISBN 978-973-1833-09-5, 126 p	126/20*3=3,15

Total criteriu 1.2. 41,508

1.3 Coordonare de programe de studii, organizare și coordonare programe de formare continuă
 Responsabil program de studiu – Ingineria Produselor Alimentare, Dual 15

Total criteriu 1.3. 15

1.4 Dezvoltare de noi discipline (se punctează o singură dată în cazul multiplicării lor în programe de studii diferite)

Titular - Biotehnologii Generale	10
Titular - Chimie Generală	10
Titular - Chimia Alimentelor	10

Total criteriu 1.4. 30

1.5. Proiecte educaționale (ERASMUS, Leonardo etc.)

Responsabil - Acord bilateral ERASMUS Universitatea “Vasile Alecsandri” din Bacău, România și Universite du Littoral Cote d’Opale Dunkerque Franța începând cu data de 1.10.2011 – prezent **10*10=100**

Responsabil - Acord bilateral ERASMUS Universitatea “Vasile Alecsandri” din Bacău, România și University of Thessaly, Gr-41500 Larissa, Greece **10*1=10**

Total criteriu 1.5. 110

A2. ACTIVITATEA DE CERCETARE

Punctaj minim = 300

Punctaj realizat = 318,275

2.1. Articole indexate în reviste ISI Thomson Reuters și în volumele unor manifestări științifice indexate ISI Thomson Reuters, vizibile în baza de date
pentru Profesor minim 11 articole din care 4 în reviste, minimum 4 ca autor principal, minimum 1 articol în zona roșie sau galbenă

1. Muntianu, G.; Georgescu, A.-M.; **Rosu, A.-M.***; Platon, N.; Arus, V.A.; Jinescu, C.V.; Nistor, I.D. *Ammonia Gas Adsorption in Fixed Bed and Fluidized Bed Using Bentonite Particles*. Appl. Sci. **2025**, 15, 832. <https://doi.org/10.3390/app15020832> (30+10*2,5)/7=7,857
WOS:001404056400001 - ZONA ROSIE/GALBENA
2. Muntianu, G.; Nistor, I.D., Georgescu, A.-M.; **Rosu, A.-M.**; Mirila D-C; Mares M., Jinescu, C.V.; **2025**, *Dynamic study behavior of the fluidized binary mixture bed with bentonite particles*, Scientific Study And Research - Chemistry And Chemical Engineering Biotechnology Food Industry, Volume: 25 Issue: 2, pages 047-065, ISSN: 1582-540X, <https://doi.org/10.29081/ChIBA.2025.629> (FI2024=0,3) /7=4,714
WOS:001504837400005
3. Arus, VA; Georgescu, AM; Platon, N; **Rosu, AM**; Muntianu, G; Teusdea, AC; Vartolomei, N; Nistor, ID, **2024**, *Preliminary studies concerning the influence of buckwheat flour on the quality of white wheat bread*, 2024, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, Volume: 25 Issue: 2, pages 157-167, ISSN: 1582-540X, <http://dx.doi.org/10.29081/ChIBA.2024.584> (FI2024=0,3) /8=4,125
WOS:001291022200004
4. Andreea Hortolomeu, Diana Carmen Mirila, **Ana-Maria Rosu**, Florin Marian Nedeff, Iuri Scutaru, Dorel Ureche, Rodica Sturza, Adriana- Luminita Fînar, Ileana Denisa Nistor, *Chemically Modified Clay Adsorbents Used in the Retention of Protein and Polyphenolic Compounds from Sauvignon Blanc White Wine*, Nanomaterials, ISSN: 2079-4991, **2024**, 14, 588. (30+10*5,3)/9=9,22
<https://doi.org/10.3390/nano14070588>, (FI2024=5,3) WOS:001200958100001
ZONA ROSIE/GALBENA
5. Hortolomeu A., Mirila D.C., Georgescu A.M., **Rosu A.M.**, Scutaru Y., Nedeff F.M., Sturza R., Nistor I. D.*, **2023**, *Retention of Phthalates in Wine Using Nanomaterials as Chemically Modified Clays with H2O, H3O, H4O Boltron Dendrimers*, Nanomaterials, ISSN: 2079-4991, 13 (16), 2301; (30+10*5,3)/8=10,375
<https://doi.org/10.3390/nano13162301> (FI2023 = 5,3)
WOS:001056728300001 ZONA ROSIE/GALBENA
6. V. A.Ciubotariu, C. C. Grigoras, V. Zichil , **A-M Rosu**, **2023** *An adaptive algorithm and additively manufactured punch used 2 to form aluminum sheet metal parts*, Materials, 16, x. <https://doi.org/10.3390/xxxxx> (F.I.2023=3,748) (30+10*3,748)/4=16,87
WOS:000997114100001 ZONA ROSIE/GALBENA
7. Popa Olga, **Ana-Maria Rosu***, Daniela Nicuta, Roxana Elena Voicu, Valentin Zichil, and Ileana Denisa Nistor. **2022**. „Factorial Design to Stimulate Biomass Development with Chemically Modified Starch” Applied Sciences 12, no. 19: 10069. (30+10*2,7)/6=9,5
<https://doi.org/10.3390/app121910069> (FI2022=2,7)
WOS:000866633400001 - ZONA ROȘIE/GALBENA
8. Diana-Carmen, Mirila, Raducanu Dumitra, Georgescu Ana-Maria, **Rosu Ana-Maria**, Ciubotariu Vlad Andrei, Zichil Valentin, and Nistor Ileana- Denisa. **2022**. *Silver Nanoparticles Incorporated on Natural Clay as an Inhibitor against the New* (30+10*4,6)/7=10,857

ISO SS Bacteria Isolated from Sewage Sludge, Involved in Malachite Green Dye Oxidation, Molecules 27, no. 18: 5791. <https://doi.org/10.3390/molecules27185791> (FI2022=4,6) WOS:000858816700001 - ZONA ROȘIE/GALBENA

9. S. Andrei, I.V. Rati, **A.M. Roșu**, V. Zichil, D.I. Nistor, **2021**. *Ecological contributions to some soils in greenhouses for vegetable production*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, (30+10*0)/5=6 Volume: 22 Issue: 4 pages 509 – 520 (FI2021=0) WOS:000731763100009

10. D.C. Mirilă, M.Ș. Pîrvan, **A.M. Roșu**, V. Zichil, I.D. Nistor, **2018**. *Activated adsorption on clay of micropollutants from paper printing industry*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, Volume: 19 Issue: 1 pages 063 – 072 (FI=0) (30+10*0)/5=6 WOS:000431353000007

11. **A.M. Roșu**, C.G. Grigoras, C. Rafin, E. Veignie, **2017**. *A green chemical approach of corn starch modification for innovative solutions in adsorption of polycyclic aromatic hydrocarbons*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, Volume: 18, Issue: 1, Pages: 097-100 (FI=0) (30+10*0)/4=7, 5 WOS:000396720500010

12. **Roșu A.M.***, Voicu R.E., Nicuta, D., **2016**. *Comparative Study Of Pigments On Regenerants From In Vitro And Spontaneous Flora Of Thymus Sp.*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, Volume: 17, Issue: 4, Pages: 395-403 (FI=0) (30+10*0)/3=10 WOS:000391283400007

13. Arus V.A., Nistor I.D., Platon N., **Roșu A.M.**, Muntianu G., Jinescu, C., **2015**. *Statistical modelling and optimization of lactic acid fermentation in the presence of anionic clay and ultrasonic field*, Revista de Chimie, Volume 66, Issue 1, Pages 88-91 (FI= 0.956) (30+10*0,956)/6=6,593 WOS:000350270800018

14. **A.M. Roșu**, E. Veignie, G. Surpateanu, G. Brabie, D.N. Miron, C. Rafin, **2013**. *Synthesis of alkylated potato starch derivatives and their potential in the aqueous solubilization of benzo[a]pyrene*, Carbohydrate polymers, Volume 83, Issue 4, Pages 1486-1491, ISSN: 0144-8617 DOI10.1016/j.carbpol.2012.06.062 (FI=3,91). (30+10*3,91)/6=11,516 WOS:000316512900026 - ZONA ROȘIE/GALBENA

15. **A.M. Roșu**, C. Rafin, G. Surpateanu, G. Brabie, D.N. Miron, E. Veignie, **2011**. *Synthesis and evaluation of hydroxypropylated potato starch as polymeric support for benzo[a]pyrene degradation by Fenton reaction*, Carbohydrate Polymers, Volume 93, Issue 1, Pages 184-190, ISSN: 0144-8617, (FI2011=3,62) (30+10*3,6)/6=11,033 WOS:000286965400006 - ZONA ROȘIE/GALBENA

Total criteriu 2.1. 132,16

2.2. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale**

De la ultima promovare* Minimum 8 pentru profesor

1. Olga Popa, Andrei-Vlad Ciubotariu, Cosmin Constantin Grigoraș, **Ana-Maria Roșu***, Valentin Zichil, **2022**, *Sudy regarding the influence of corrosive agents on the surface of metallic material like steel*, Journal of Engineering Studies and Research, Vol. 28, Nr 2, Pag 92-99. 15/5=3
2. Augustin Jitaru, Cosmin Constantin Grigoraș, Gheorghe Brabie, **Ana-Maria Roșu**, Lucian-Marius Roșu, **2022**, *Magnesium alloy AZ31B forming limit curve using the* 15/5=3

- NAKAZIMA test, Journal of Engineering Studies and Research, Vol. 28, Nr 1, Pag 53-58.
3. Olga Popa, **Ana-Maria Roșu***, Valentin Zichil, 2021, *A review of metallic materials corrosion*, Buletinul Institutului Politehnic Din Iași. Secția Matematica. Mecanică Teoretică. Fizică, Vol. 67, Nr 4, Pag. 39-58. 15/3=5
 4. Simion A.I., Grigoraș C. G., **Roșu A.M.**, Gavrilă L., *Mathematical modelling of density and viscosity of NaCl aqueous solutions*, Journal of Agroalimentary Processes and Technologies, ISSN: 2069-0053 (print) (former ISSN: 1453- 1399), Agroprint; ISSN (online): 2068-9551, **2015**, 21(1), 41-52 15/4=3,75
 5. Zavada R.M., **Roșu A.M.**, Miron N.D., Surpățeanu G., Nistor I.D. *Influence of Microwave Drying on the Content of Photosynthetic Pigments in Spinach*, Food and Environment Safety – Journal of Faculty of Food Engineering Ștefan cel Mare University, Suceava, ISSN 2068-6609, **2014**, Vol: 13 Issue: 1, Pages: 55-59 15/5=3
 6. **A.M. Roșu**, N. Platon, V.A. Aruș, N.D. Miron, I.D. Nistor, G. Brabie, **2014**. *Experimental Study Regarding Mechanical Properties Of FeP-05-MB Sheet Steels Submitted To Corrosive Mediums*, Journal Of Engineering Studies And Research, Volume 20, Issue Nr. 1, pages:82-90, ISSN 2068-7559 15/6=2,5
 7. **A.M. Roșu**, G.Muntianu, N.D. Miron, I.D. Nistor, G. Brabie, **2013**. *Determination of microbiological medium quality through a mathematical model concerning the prevention of biocorrosion*, Journal of Engineering Studies and Research, Volume 19, Issue No.4, pages 59-64, ISSN 2068-7559 15/6=2,5
 8. N. Platon, **A.M. Roșu**, V.A. Aruș, D.I. Nistor, I. Siminiceanu, **2013**. *Chemically modified clays used for environmental quality*, Journal of Engineering Studies and Research, Volume 19, Issue No.4, pages:52-58, ISSN 2068-7559 15/5=3
 9. G. Muntianu, N. Platon, V.A. Aruș, **A.M. Roșu**, D.I. Nistor, G. Jinescu, **2013**. *Hydrodynamic study of clay particles in fluidized bed*, Journal of Engineering Studies and Research, , Volume 19, Issue No.2, pages 70-81, ISSN 2068-7559 15/6=2,5
 10. R.M. Cojocaru, I.M. Popa, G. Surpățeanu, **A.M. Roșu**, N.D. Miron, I.D. Nistor, 2012. *Study concerning the extraction of photosynthetic pigments from spinach*, Buletinul Institutului Politehnic Din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Tomul LVII (LXI), Fasc. 3, **2012**, Secția Chimie și Inginerie Chimică, p. 101-109, ISSN 0254-7104 15/6=2,5
 11. A.E. Farkas, D. Scutaru, D.N. Miron, **A.M. Roșu**, C.E. Țebrencu, I.D. Nistor, **2012**. *Study concerning the utilization of cellulose derivates as development support for microorganisms*, Buletinul Institutului Politehnic Din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Tomul LVII (LXI), Fasc. 3, **2012**, Secția Chimie și Inginerie Chimică, p.131-140, ISSN 0254-7104 15/6=2,5
 12. **A.M. Roșu**, D.I. Nistor, N.D. Miron, M.I. Popa, R. M. Cojocaru, **2012**. *Ultrasound-assisted extraction of photosynthetic pigments from dried dill (Anethum Graveolens)*, Food and Environment Safety - Journal of Faculty of Food Engineering, Ștefan cel Mare University – Suceava, Volume XI, Issue 4, p. 5-9, ISSN: 2068-6609 15/5=3
 13. **A.M. Roșu**, Gh. Brabie, N.D. Miron, I.D. Nistor, **2009**. *Experimental study regarding influence of the microbiological corrosive medium over the mechanical properties of the Al6061T4 metallic material*, Annals of „Dunărea de Jos” University of Galați, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year I (XXXII), Proceedings of the 1st International Symposium on Applied Physics – Materials Science, Environment and Health (ISAP1), Galați, November 28th-29th, ISSN – 2066 – 7124 15/4=3,75

Total criteriu 2.2.

40

2.3 Articole in extenso în reviste/volumele unor manifestări științifice naționale/internaționale neindexate

6/(nr. autori) – Reviste, 4/(nr. autori) – Proceedings

1. **A.M. Roșu**, R.M. Zavada, A.E. Farkas, C. Rafin, G. Surpateanu, I.D. Nistor, N.D.Miron, G. Brabie, **2013**. *L'influence de la qualite d'un milieu microbiologique sur la biocorrosion des toles metalliques*, International Conference of Applied Sciences, Chemistry and Chemical Engineering - Seventh Edition, May 15th –18th 2013, Bacău, Romania, p. 190-192, ISSN 2066-7817 4/8=0,5
2. **A.M. Roșu**, R.M. Zavada, A.E. Farkas, C. Rafin, G. Surpateanu, I.D. Nistor, N.D. Miron, G. Brabie, **2012**. *Optimisation de la qualite du milieu microbiologique par un program factorielle concernant la biocorrosion sur les toles metalliques de type FeP-05-MB*, Acte du septieme Colloque Franco- Roumain de Chimie Appliquee, COFrRoCA, 27-29 juin, Bacău, p. 171-172, ISSN 2068-6382 4/8=0,5
3. **Roșu A.M.**, Veignie E., Surpateanu G., Brabie G., Miron D.N., Rafin C., **2012**. *Exploration de la biodiversite des champignons saprotrophes pour le developpement de methodes biologiques de degradation des polluants organiques persistants*, International Conference of Applied Sciences, Chemistry and Chemical Engineering – Sixth Edition, April 24th-27th 2012, Bacău, Romania, p. 133- 139, ISSN 2066-7817 4/6=0,66
4. **A.M. Roșu**, R.M. Zavada, I.D. Nistor, N.D. Miron, **2011**. *Analysis of some qualitative parameters of meat smoked with different technological methods*, Papers of the International Symposium EURO- ALIMENT, From Food Science to Food Industry, Bridging Education and Research with Engineering and Industry, October 6-7, 2011, University “Dunarea de Jos” Galați, p. 25, ISSN 1843-5114 4/4=1
5. **A.M. Roșu**, G. Brabie, G. Surpățeanu, I.D. Nistor, N.D. Miron, **2011**. *Optimization of microbiological medium quality through factorial programmer concerning the prevention of biocorrosion on metallic materials*, International Conference of Applied Sciences, Chemistry and Chemical Engineering – Book of Abstracts, April 28th-30th 2011, Bacău, Romania, p. 96, ISSN 2066-7817 4/5=0,8
6. C.Rafin, **A.M. Roșu**, E. Veignie, **2010**. *Exploration of telluric fungi biodiversity for developing soft remediation technologies of hydrocarbons polluted soils*, International Conference of Applied Sciences, Chemistry and Chemical Engineering – CISA 2010, April 8-11 2010, Slănic Moldova, Bacău, Romania, p. 53-73, ISSN 2066-7817 4/3=1,33
7. **A.M. Roșu**, N.D. Miron, A. Ciobanu, I.D. Nistor, M. Conuțoae, **2009**. *The optimization of the carrot juice quality enriched with different extract fruits*, Papers of the International Symposium EURO- ALIMENT, Challenges for Food Science and Food Industry in the Recession Era, October 9-10, 2009, University “Dunarea de Jos” Galati, p. 186-194, ISSN 1843-5114 4/5=0,8
8. **A.M. Roșu**, N.D. Miron, I.D. Nistor, G. Brabie, G. Surpățeanu, **2009**. *Presentation of the defferent methods of metals corrosion used in industrial domain*, International Conference of Applied Sciences, Chemistry and Chemical Engineering – CISA 2009, 2-5 April 2009, Slănic Moldova, Bacău, Romania, p. 246-252, ISSN 2066-7817 4/5=0,8

Total criteriu 2.3. 6,39

2.4 Proprietate intelectuală, brevete de invenție și inovație, etc.

2.4.1. Internaționale

Nu este cazul

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2.4.2. Naționale

Stan G., Romanescu M.C., Pal A., **Dospinescu A.M., 2010.** *Stand pentru încercarea la rezistență a corpurilor de robinet*, Oficiul de Stat pentru Invenții și Mărci, București, RO122935B1 20/4=5

Total criteriu 2.4. 5

2.5 Granturi/proiecte câștigate prin competiție sau contracte cu mediul socio- economic (în valoare de minimum 25000 lei, (justificată cu documente care să ateste încasarea sumei)

**Director / Responsabil – minim 2D sau 4R pentru profesor;
internationale 20*val/(10 mii €), naționale 10*val/(10 mii €)**

2.5.1 Director/Responsabil - Minimum 2D sau 4R pentru Profesor/CS I

2.5.1.1 internaționale

Nu este cazul -

2.5.1.2 naționale

Director contract agent economic, 2025, S.C. BAROTEC S.R.L., ” <i>Cercetări aplicative privind analiza materialelor metalice folosite la confecționarea utilajelor din industria alimentară</i> ”, Valoare 50 500 lei	10*10145/10000 =10,145
Director contract socio-economic competiție de minigranturi 2022, <i>Engineer-a successful entrepreneur (EngSE)</i> , valoare 31 973 lei	10*6423,63/1000 0=6,42
Director contract socio-economic competiție de minigranturi 2023 <i>Entrepreneurial Education in Food Science</i> , valoare 27 070 lei	10*5438,58/1000 0=5,43

2.5.2 Membru în echipă

2.5.2.1. internaționale

Contractul nr. 8.330/03.10.2024 finanțat de EEA and Norway Grants by Innovation Norway - <i>Cooperare bilaterală pentru o colaborare pe termen lung - instituția Østfold University College</i> , Valoare - 54150 euro, Durata 5 luni	4*0,416=1,66
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2.5.2.2. naționale

Proiect CNFIS-FDI, 2024 - „ <i>Ecosistem antreprenorial competitiv, incluziv și sustenabil la Universitatea „Vasile Alecsandri” din Bacău</i> ” - iEnterprise@UBc, Valoare 375000 lei, durata proiect 10 luni	2*0,83=1,66
Proiect „ <i>Simulated Enterprises in Food Industry at the „Vasile Alecsandri” University of Bacau</i> ” – SEiFI@UBc, 2025, Valoarea 27370 lei, durată proiect – 5 luni	2*0,416=0,832
Proiect CNFIS-FDI, 2021- „ <i>Învățare omniprezentă la UBc! Acces permanent la aplicații</i> ” - MOBILE-UBc, durata proiect 10 luni	2*0,83=1,66
Proiect CNFIS-FDI, 2022- „ <i>Realitate augmentată la UBc: vizualizarea 3D a activității didactice</i> ” - AR@UBc, durata proiect 10 luni	2*0,83=1,66
Proiect CNFIS-FDI, 2023- „ <i>Educație digitală la UBc: utilizarea aplicațiilor din realitatea virtuală în activitatea didactică</i> ” - DIGI-EDU@UBc, durata proiect 10 luni	2*0,83=1,66
Proiect CNFIS-FDI, 2024 - „ <i>Digitalizarea componentei de studiu individual la UBc: utilizarea aplicațiilor cu suportul profesorului virtual</i> ” - PROF-VR@UBc, durata proiect 10 luni	2*0,83=1,66
Proiect CEEX, modul III, 2006 – membru: <i>Dezvoltarea parteneriatului științific in domeniul sintezei si utilizarii nanomaterialelor in tehnologii neconventionale de decontaminare a apelor poluate – ECONAO</i> , durata proiectului 24 luni	2*2=4
Proiect PNCD II, 2007 – asistent cercetare: <i>Cercetari privind utilizarea barierelor reactive la tratarea apelor reziduale rezultate la uzinele de procesare a minereurilor uranifere – URTECH</i> ; durata proiectului: 36 luni	2*3=6
Proiect PNCD II, 2007 – asistent cercetare: <i>Tehnologie energetica durabila, în</i>	

vederea promovării resurselor minerale uranifere indigene, prin optimizarea procedurii de purificare a uraniului – TEDPUR ; durata proiectului: 36 luni.	2*3=6
Proiect PNCD II, 2007 – asistent cercetare : Tehnologie nouă de separare a uraniului prin extracție cu solvenți, în câmp de ultrasunete, cu impact benefic asupra reducerii contaminării cu uraniu a arealului înconjurător – UEXUS ; durata proiectului: 36 luni.	2*3=6
Proiect ROSE - „Ingineria o cariera de viitor - ING UP”, valoare 681720 lei, durata 36 luni.	2*3=6

TOTAL Criteriu 2.5.	54,725
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2.6 Coordonare/dezvoltare laborator/centru cercetare (dacă laboratorul este și didactic, punctajul se ia în calcul o singură dată)

- Dezvoltare Laborator cercetare Chimia bio-nanomaterialelor	1*40=40
- Coordonare Laborator de cercetare și didactic Chimie generală și Biotehnologii Generale	1*40=40

TOTAL Criteriu 2.6.	80
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A3. RECUNOAȘTEREA ȘI IMPACTUL ACTIVITĂȚII

Punctaj minim = 100

Punctaj realizat = 698,48

3.1 Vizibilitate în baze de date internaționale

4.1.1 citări în articole indexate ISI

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3. Luchian, C. E., Codreanu, M., Scutarașu, E. C., Colibaba, L. C., & Cotea, V. (2024). Impact of Nanomaterials on Wine Quality: A Focus of Siliceous, Aluminosiliceous, and Carbon-Based Nanomaterials on the Phenolic Fraction of Wine.

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aqueous phase for catalytic application in degradation of malachite green. *Advanced Energy Conversion Materials*, 16-29.

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<i>Synthesis and evaluation of hydroxypropylated potato starch as polymeric support for benzo[a]pyrene degradation by Fenton reaction, Carbohydrate Polymers, Volume 93, Issue 1, 1 March 2013, Pages 184-190, ISSN: 0144-8617.</i> | (10/6)*4=6,66 |
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<i>Statistical modelling and optimization of lactic acid fermentation in the presence of anionic clay and ultrasonic field, Revista de Chimie, Volume 66, Issue 1, Pages 88-91,</i> | (10/6)*5=8,33 |
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1. Hadj-Abdelkader, N. E. H., Beltrao-Nunes, A. P., Belkhadem, F., Bensekka, N., Roy, R., & Azzouz, A. (2020). New insights in MgAl and MgFe-LDH affinity towards carbon dioxide–role of the hydrophilic character on CO₂ retention strength. *Applied Clay Science*, 198, 105829.
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4. Parvulescu, O. C., Al Janabi, A. A., & DOBRE, T. (2016). Rheological characterization of cellulose and cellulose/TEOS solutions. *University Politehnica Of Bucharest Scientific Bulletin Series B-Chemistry And Materials Science*, 78(4), 91-100.

5. YUWONO, S. D., SIMANJUNTAK, W., FITRIANI, T. K., & HADI, S. Semicontinuous Fermentation of Cassava by *Streptococcus bovis* Using Membrane Bioreactor to Produce Lactic Acid.

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| <ol style="list-style-type: none"> 8. <i>G. Muntianu, N. Platon, V.A. Aruș, A.M. Roșu, D.I. Nistor, G. Jinescu, 2013. Hydrodinamic study of clay particles in fluidized bed, Journal of Engineering Studies and Research, , Volume 19, Issue No.2, pages 70-81, ISSN 2068-7559</i> | (10/6)*5=8,33 |
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3. Muntianu, G., Platon, N., Mardaru, A., Nistor, I. D., Miron, N. D., & Jinescu, G. (2015). Use of modified clays obtained by pillaring in gas purification. *Univ. Politeh. Buchar. Sci. Bull. Ser. B—Chem. Mater. Sci*, 77, 151-164.
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| <ol style="list-style-type: none"> 9. <i>Diana-Carmen, Mirila, Raducanu Dumitra, Georgescu Ana-Maria, Rosu Ana-Maria, Ciubotariu Vlad Andrei, Zichil Valentin, and Nistor Ileana-Denisa. 2022. Silver Nanoparticles Incorporated on Natural Clay as an Inhibitor against the New ISO SS Bacteria Isolated from Sewage Sludge, Involved in Malachite Green Dye Oxidation, Molecules 27, no. 18: 5791. https://doi.org/10.3390/molecules27185791</i> | (10/7)*5=7,14
<i>(FI2022=4,6)</i>
WOS:000858816700001 - ZONA ROȘIE/GALBENA |
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3. Abu-Zurayk, R., Alnairat, N., Bozeya, A., Khalaf, A., & Abu-Dalo, D. (2024). Enhanced properties of PVDF membranes using green Ag-nanoclay composite nanoarchitectonics. *Materials Research Express*, 11(4), 045007.
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- 11. Andreea Hortolomeu, Diana Carmen Mirila, Ana-Maria Rosu, Florin Marian Nedeff, Iuri Scutaru, Dorel Ureche, Rodica Sturza, Adriana- Luminita Fînar, Ileana Denisa Nistor, Chemically Modified Clay Adsorbents Used in the Retention of Protein and Polyphenolic Compounds from Sauvignon Blanc White Wine, Nanomaterials, ISSN: 2079-4991, 2024, 14, 588. https://doi.org/10.3390/nano14070588,(FI2024=5,3) WOS:001200958100001 ZONA ROSIE/GALBENA** **(10/9)*1=1,11**

Citat în următoarele articole ISI (exclus autocitări)

1. Beeler, N., Hühn, T., Rohn, S., & Colombi, R. (2024). Concentrating Cocoa Polyphenols—Clarification of an Aqueous Cocoa Extract by Protein Precipitation and Filtration. *Membranes*, 14(11), 242.

- 12. Popa Olga, Ana-Maria Rosu*, Daniela Nicuta, Roxana Elena Voicu, Valentin Zichil, and Ileana Denisa Nistor. 2022. „Factorial Design to Stimulate Biomass Development with Chemically Modified Starch” Applied Sciences 12, no. 19: 10069. https://doi.org/10.3390/app121910069 (FI2022=2,7) WOS:000866633400001 - ZONA ROȘIE/GALBENA** **(10/6)*1=1,66**

Citat în următoarele articole ISI (exclus autocitări)

1. Alavianghavanini, A., Shayesteh, H., Bahri, P. A., Vadiveloo, A., & Moheimani, N. R. (2024). Microalgae cultivation for treating agricultural effluent and producing value-added products. *Science of The Total Environment*, 912, 169369.

- 13. Olga Popa, Andrei-Vlad Ciubotariu, Cosmin Constantin Grigoraș, Ana-Maria Roșu*, Valentin Zichil, 2022, Study regarding the influence of corrosive agents on the surface of metallic material like steel, Journal of Engineering Studies and Research, Vol. 28, Nr 2, Pag 92-99.** **(10/5)*1=2**

Citat în următoarele articole ISI (exclus autocitări)

1. Muntianu, G., Nistor, I. D., Mirilă, D. C., Georgescu, A. M., Aruș, V. A., Platon, N., & Jinescu, C. (2024). Electromagnetic field application in fluidization of metallic particles. *Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry*, 25(4), 439-454.

- 14. A.M. Roșu, C.G. Grigoras, C. Rafin, E. Veignie, 2017. A green chemical approach of corn starch modification for innovative solutions in adsorption of polycyclic aromatic hydrocarbons, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, Volume: 18, Issue: 1, Pages: 097-100 (FI=0) WOS:000396720500010** **(10/4)*1=2,5**

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1. Yazid, N. S. M., Abdullah, N., Muhammad, N., & Matias-Peralta, H. M. (2018). Application of starch and starch-based products in food industry. Journal of Science and Technology, 10(2).	
3.1.2 citări în articole indexate BDI	-
3.1.3 citări în alte publicații	-
TOTAL Criteriu 3.1.	318,48
3.2 Prezentări efectuate ca invitat/invitată în plenul unor manifestări științifice naționale și internaționale și Profesor invitat (exclusiv Erasmus)	
3.2.1 în străinătate	20
Profesor invitat 2014 – Universite du Littoral Cote d’Opale Franța	
3.2.2 în țară	
<i>Nu este cazul</i>	-
TOTAL Criteriu 3.2.	20
3.3 (a) Membru în colectivele de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice/(b)Recenzor pentru reviste și manifestări științifice naționale și internaționale indexate ISI	
3.3.1 indexate ISI	
(b)Recenzor pentru reviste și manifestări științifice naționale și internaționale indexate ISI	
- Recenzor pentru reviste:	
Agriculture - ISSN: 2077-0472	
Applied Sciences - ISSN: 2076-3417	10*8=80
Polymers - ISSN: 2073-4360	
Polysaccharides - ISSN: 2673-4176	
Sustainability - ISSN: 2071-1050	
Forests - ISSN: 1999-4907	
Processes - ISSN: 2227-9717	
Agronomy - ISSN: 2073-4395	
3.3.2 indexate BDI	
- Recenzor pentru reviste:	
<i>Journal of Engineering Studies and Research</i>	
<i>Scientific Studies & Research. Series Biology/Studii si Cercetari Stiintifice. Seria Biologie</i>	8*2=16
3.3.3 naționale si internaționale neindexate	
(a) Membru în colectivele de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice	
- Membru organizator de manifestări științifice pentru International Conference of Applied Sciences – CISA 2007-2016	5*2=10
- Membru organizator de manifestări științifice pentru International Conference of Constructive Design and Technological Optimization in Machine Building	
TOTAL Criteriu 3.3.	106

3.4 Experiență de management, analiză și evaluare în cercetare și/sau învățământ	
3.4.1 Conducere	
- Prodecan – Mai 2024-Prezent	5*1=5
3.4.2 Membru	
- Membru Comisie de evaluare și asigurare a calității la nivelul programelor de masterat Știința și Ingineria Produselor Alimentare Ecologice și Știința și Ingineria Produselor Alimentare Ecologice - DUAL	2*8=16
TOTAL Criteriu 3.4.	
71	
3.5 Premii	
3.5.1 Academia Română	
-	
3.5.2 ASAS, AOSR, academii de ramură și CNCS	
3 premii CNCSIS	3*15=45
3.5.3 premii internaționale	
-Director / responsabil -Bursă doctorală de excelență „Eiffel” acordată de Ministerul Afacerilor Externe (Dosar nr. 690572B - Competiție internațională - 2011)	10*2=20
-Bursă postdoctorală de excelență acordată de Institutul Francez – Competiție internațională – 2015	
3.5.4. premii naționale în domeniu	
Premiile obținute pentru proiectul „Novel Inhibitor and Catalyst: Silver Nanoparticles on Natural Clay Targeting ISO SS Bacteria from Sewage Sludge and Malachite Green Dye Oxidation”, în cadrul salonului EURO POLITEHNICUS 2024, International Innovation and Invention Show, 1st Edition, 2024.	
- Medalia de aur de la EURO Politehnicus - International Innovation & Invention Show.	5*14=70
- Medalie de aur de la Universitatea „Dunărea de Jos” din Galați.	
- Medalie de aur și diplomă de excelență de la National Institute of Research – Development for Machines and Installations Designed for Agriculture and Food Industry (INMA) București.	
- CUPA și Diplomă SPECIAL AWARD de la Centrul de Inovare și Transfer Tehnologic UPT, Asociația Generală a Inginerilor din România – Sucursala Hunedoara și Asociația CorneliuGroup Cercetare-Inovare, Universitatea Politehnică Timișoara.	
- Certificat de excelență de la Universitatea „Constantin Brâncuși” din Târgu Jiu, Technology Transfer Center CTT-UCB. 6. Premiu special (Diplomă și medalie) de la Romanian Association for Alternative Technologies (ARTA) Sibiu, ca semn de onoare, recunoaștere și apreciere a creativității științifice și originalității.	
Premiile obținute pentru proiectul „Innovative Retention of Phthalates in Wine Using Newly Developed Nanomaterials”, în cadrul salonului EURO POLITEHNICUS 2024, International Innovation and Invention Show, 1st Edition, 2024.	
- Medalia de aur de la EURO Politehnicus International Innovation & Invention Show.	
Salonul Internațional InventCor 2025, ediția a VI-a	
- Medalie de Aur și Premiu Special Trofeu pentru proiectul „New Organic Digestive Biscuits with Rare Black Mulberry Addition and Delightful Jelly”, realizat de Georgescu Ana-Maria, Muntianu Gabriela, Rosu Ana-Maria, Mirilă	

Diana Carmen, Moroi Alina-Mihaela, Vartolomei Nicoleta, Nistor Ileana Denisa, Lehăduș-Panainte Mirela;

- **Medalie de Aur** pentru proiectul „Yogurt with the Organic Rosehip Powder Addition”, realizată de Vartolomei Nicoleta, Aruș Vasilica Alisa, Tănase Simina, Platon Nicoleta, Georgescu Ana-Maria, Muntianu Gabriela, Nistor Ileana Denisa, Turtoi Maria;
- **Medalie de Aur** pentru proiectul „Artisanal Biscuits with the Organic Rosehip Powder Addition”, realizată de Moroi Ana-Maria, Vartolomei Nicoleta, Tănase Simina, Roșu Ana-Maria, Mirilă Diana Carmen, Tomozei Claudia, Lehăduș-Panainte Mirela.

Pentru proiectul „New Organic Digestive Biscuits with Rare Black Mulberry Addition and Delightful Jelly”, realizat de Georgescu Ana-Maria, Muntianu Gabriela, Roșu Ana-Maria, Mirilă Diana Carmen, Moroi Alina-Mihaela, Vartolomei Nicoleta, Nistor Ileana Denisa, Lehăduș-Panainte Mirela:

- **Medalie de Aur** acordată de International Center for Research and Development IRAQ.
- **Medalie de Aur și Premiu Special** pentru aceeași lucrare, acordat de Universitatea „Constantin Brâncuși” din Târgu Jiu.
- **Medalie de Argint** acordată de Association of Inventors and Innovators UPI CIB Serbia.

Pentru proiectul „Artisanal Biscuits with the Organic Rosehip Powder Addition”, realizată de Moroi Alina-Mihaela, Vartolomei Nicoleta, Tănase Simina, Roșu Ana-Maria, Mirilă Diana Carmen, Tomozei Claudia, Lehăduș-Panainte Mirela:

- **Medalie de Argint** acordată de Research and Development Center HEALTHY VIBE Holistic Treatment.
- **Medalie de Argint** acordată de Association IDEA Club 13 Ungaria.

TOTAL Criteriu 3.5.	135
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3.6 Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării

3.6.1 Academia Română

-

3.6.2 ASAS, AOSR și academii de ramură

-

3.6.3 Conducere asociații profesionale

3.6.3.1 internaționale

-

3.6.3.2 naționale

-

3.6.4 Asociații profesionale

3.6.4.1. internaționale

European Association for Chemical and Molecular Sciences,

European Biotechnology Network,

European Federation of Biotechnology (EFB)

Association of Environmental Engineering,

5*4=20

3.6.4.2 naționale

Asociații culturale ÎMPREUNĂ

Asociații culturale ALBIA;

3*6=18

Societatea de Chimie;

Asociația Specialiștilor din Industria Alimentară din România;

Asociația Română de Mediu;

Organizația pentru Protecția Consumatorului;

3.6.5 Organizații în domeniul educației și cercetării

3.6.5.1 Conducere

10

Director economic - Centru de cercetare Științe Inginerești Aplicate

3.6.5.2 Membru

-

TOTAL Criteriu 3.6. 48

***Punctajul minim din grila CNATDCU este de profesor pentru profesori și de conferențiar universitar pentru celelalte grade didactice.**

Data completării

Semnătura