

**Gradul de îndeplinire a standardelor minimale
domeniul *Ingineria Produselor Alimentare*
Comisia 14: Ingineria resurselor vegetale și animale, conform OM 6129/2016**

Centralizare domeniu de activitate

Conditii minimale A naționale conform OM 6129 din 20.12.2016 Comisia 14: Ingineria resurselor vegetale si animale			
Nr.	Domeniu de activitate (A)	PUNCTAJ Necesar	PUNCTAJ Realizat
A1	Activitatea didactica / profesionala	Minim 100	287,7
A2	Activitatea de cercetare	Minim 260	665,37
A3	Recunoasterea impactului activitatii	Minim 60	1933,68
Total (A)		Minim 420 puncte	2886,75 puncte

Centralizare necesar categorii de activitati pentru fiecare domeniu de activitate

Conditii minimale obligatorii pe subcategorii				Necesar	Realizat
A1	1.1. Carti si capitole in carti de specialitate	1.1.1. Carti cu ISBN/capitole ca autor	1.1.1.2. nationale	Minim 2 ca prim-autor; cel puțin o lucrare în ultimii 5 ani sau după ultima promovare	6 din care: - 5 prim-autor - 2 în ultimii 5 ani - 3 de la ultima promovare
	1.2. Suport didactic	1.2.1. Manuale, suport de curs		0	6
		1.2.2. Indrumare de laborator/aplicatii		0	5
A2	2.1. Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings			Minim 6	65
	2.2. Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale			Minim 15	33
	2.3. Proprietate intelectuala, brevete de inventie, tehnologii si produse omologate	2.3.1. Internationale		0	2
		2.3.2. Nationale		0	3
	2.4. Granturi/proiecte castigate prin competitie inclusiv proiecte de cercetare/consultanta (valoare de minim 10000 euro echivalent)	2.4.1. Director responsabil		Minim 2	4
		2.4.2. Membru in echipa		0	10
A3	3.1. Citari in reviste ISI				593
	3.2. Citari in reviste BDI				5
	3.3. Prezentrari invitate in plenul unor manifestari stiintifice nationale si internationale si profesor invitat (exclusiv Erasmus)	3.3.1. Internationale			1

3.4. Membru in colectivele de redactie sau comitete stiintifice al revistelor si manifestarilor stiintifice. Organizator de manifestari stiintifice	3.4.1. ISI		42
3.5. Recenzor pentru reviste si manifestari stiintifice nationale si internationale	3.5.1. ISI		42
	3.5.2. BDI		15
3.6. Referent in comisii de doctorat	3.6.1. Internationale		1
3.7. Membru in academii, organizatii, asociatii profesionale de prestigiu, nationale si internationale. Apartenenta la organizatii din domeniul educatiei si cercetarii	3.7.5. Consilii si organizatii in domeniul cercetarii si educatiei	membru	2

Centralizare indicatori punctaj pentru fiecare domeniu de activitate

				Indicatori (kpi)
A1	1.1. Carti si capitole in carti de specialitate	1.1.1. Carti/capitole ca autor	1.1.1.2. nationale	164,9
	1.2. Suport didactic	1.2.1. Manuale, suport de curs		104,5
		1.2.2. Indrumare de laborator/aplicatii		18,3
TOTAL A.1.				287,7
A2	2.1. Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings			286.98
	2.2. Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale			116.79
	2.3. Proprietate intelectuala, brevete de inventie, tehnologii si produse omologate	2.3.1. Internationale		3,2
		2.3.2. Nationale		8,4
	2.4. Granturi/proiecte castigate prin competitie inclusiv proiecte de cercetare/consultanta (valoare de minim 10000 euro echivalent)	2.4.1. Director responsabil		170
		2.4.2. Membru in echipa		80
TOTAL A.2.				665,37
A3	3.1. Citari in reviste ISI			1379.86
	3.2. Citari in reviste BDI			3,82
	3.3. Prezentrari invitate in plenul unor manifestari stiintifice nationale si internationale si profesor invitat (exclusiv Erasmus)	3.3.1. Internationale		20
	3.4. Membru in colectivele de redactie sau comitete stiintifice al revistelor si manifestarilor stiintifice. Organizator de manifestari stiintifice	3.4.1. ISI		15
	3.5. Recenzor pentru reviste si manifestari stiintifice nationale si internationale	3.5.1. ISI		420
		3.5.2. BDI		75
	3.6. Referent in comisii de doctorat	3.6.1. Internationale		10
	3.7. Membru in academii, organizatii, asociatii profesionale de prestigiu, nationale si internationale. Apartenenta la organizatii din domeniul educatiei si cercetarii	3.7.5. Consilii si organizatii in domeniul cercetarii si educatiei		
membru			10	
TOTAL A.3.				1933.68

A1. Activitatea didactica / profesionala (A1)**1.1. Carti si capitole în cărți de specialitate****1.1.1. Carti cu ISBN/capitole ca autor****1.1.1.2. Nationale**

Nr.	Autori	Titlu	Editura	Indicator
1	A. Peter	Bio-si Nanomateriale cu aplicabilitate in medicina	Ed. U.T.Press Cluj Napoca, ISBN 978-606-737-566-4, 200 pagini, 2022	40
2	A. Peter, A. Mihaly Cozmuța	Tendințe moderne în ambalarea produselor alimentare: aspecte teoretice și practice	Ed. U.T.Press Cluj Napoca, ISBN 978-606-737-474-2, nr. pagini 565, 2020	56,5
3	Anca Peter	Principii și metode clasice și moderne de conservare a alimentelor	Editura U.T.Press Cluj Napoca, ISBN 978-606-737-220-5, 127 p, 2017	25,4
4	Camelia Nicula, Anca Peter	400 de itemi grila pentru biochimie	Editura Risoprint Cluj Napoca, ISBN: 978-973-53-1449-1, 71p., 2014	7,1
5	Anca Peter, Camelia Nicula	Chimia compusilor cu functiuni multiple prezenti in alimente	Editura Risoprint Cluj Napoca, ISBN: 978-973-53-0530-7, 201 p, 2011	20,1
6	Anca Peter, Virginia Danciu	Aerogeluri pe baza de TiO ₂ cu aplicatii la depoluarea mediului	Editura Risoprint, Cluj-Napoca, ISBN: 978-973-53-0353-2, 158 p, 2010	15,8
Total 1.1.				164,9

1.2. Suport didactic**1.2.1. Manuale, suport de curs**

Nr.	Suport de curs pentru disciplinele:	Indicator
1	Chimia alimentelor (222 pagini) (http://chimie-biologie.ubm.ro/peter_anca.html)	27,75
2	Chimie analitica cantitativa (52 pagini) (http://chimie-biologie.ubm.ro/peter_anca.html)	6,5
3	Nanotehnologii (206 pagini) (http://chimie-biologie.ubm.ro/peter_anca.html)	25,75
4	Principii si metode de conservare a produselor alimentare (96 pagini) (http://chimie-biologie.ubm.ro/peter_anca.html)	12
5	Mecanisme de reactie (60 pagini) (https://chimie-biologie.ubm.ro/peter_anca.html)	7,5
6	Perspective in ambalarea alimentelor (200 pagini) (https://chimie-biologie.ubm.ro/peter_anca.html)	25
Total 1.2.1.		104,5

1.2.2. Indrumare de laborator/aplicatii

Nr.	Autori	Titlu	Editura	Indicator
1	Anca Peter, Camelia Nicula, Adriana Ambrus	Chimia alimentelor - caiet de laborator pentru studenti	Editura Risoprint Cluj Napoca, ISBN: 978-973-53-0507-9, 83 p., 2011	3,45
2	G. Oprea, A.Peter, C. Varga, I. Dunca, C. Mihali	Indrumator pentru lucrari practice de chimie fizica si coloidala	Ed. Risoprint, Cluj Napoca, ISBN: 973-751-384-3, 159 p., 2006	3,97
3	Adriana Ambruș, Anca Peter, Claudia Drinkal	Lucrări practice de chimie organică	Editura Risoprint, Cluj Napoca, ISBN: 973-656-517-3, 104 p., 2004	4,33
4	Camelia Varga, Anca Peter, Adriana Ambruș, Ioana Dunca	Lucrări practice de biochimie, partea a II-a	Editura Risoprint, Cluj Napoca, ISBN: 973-656-594-3, 116 p, 2004	3,62
5	Camelia Varga, Anca Peter, Adriana Ambruș, Ioana Dunca,	Lucrări practice de biochimie, partea I	Editura Risoprint, Cluj Napoca, ISBN: 973-656-503-3, 94 p, 2003	2,93
Total 1.2.2.				18,3
Total 1.2.				122,8
TOTAL A.1.				287,7

A.2. Activitatea de cercetare (A2)

2.1. Articole in extenso in reviste cotate Thomson Reuters, in volume proceedings indexate Thompson Reuters si brevete de inventie indexate Web of Science-Derwent

	Autori	Detalii articol	Indicator
65	C. Pintilii, M. Baia, E. Alexa, K. Magyari, I. Botiz, M. Muresan-Pop, L. Barbu-Tudoran, C. Nicula, A. Peter, Z. Szakacs, A. Mihaly Cozmuta, L. Mihaly Cozmuta	Comparative study on starch and protein secondary structures in brown, red, and black rice influenced by microwave treatment, <i>Food Chemistry: X</i> 32 (2025) 103224. https://doi.org/10.1016/j.fochx.2025.103224	9.2
64	Leonard Mihaly Cozmuta, Anca Peter, Camelia Nicula, Alexandra Uivarasan, Zolt Szakács, Sonia Scarfi, Maha Moussa, Serena Mirata, Paula Fajardo Bernárdez, Sara Baldassari, Giuliana Drava, Anca Mihaly Cozmuta	Influence of Alaria esculenta powder on sensory acceptance, nutritional aspects, and staling of wheat bread, <i>Future Foods</i> , 12, 100805, https://doi.org/10.1016/j.fufo.2025.100805 . 2025	6.6
63	Peter, Anca, Manuel Brendon Monea, Anca Mihaly Cozmuta, Camelia Nicula, Leonard Mihaly Cozmuta, Zorica Vosgan, Zolt Szakacs, Goran Drazic, Klara Magyari, Marieta Muresan-Pop, Lucian Baia	Influence of Porosity on the Morpho-Structure, Physical-Chemical and Biochemical Characteristics of Polylactic Acid and/or Polycaprolactone Scaffolds, <i>Polymers</i> 17, 2025, no. 17: 2311, https://doi.org/10.3390/polym17172311	4.9
62	A. Uivarasan, J. Lukinac, M. Jukic, G. Selo, A. Peter, C. Nicula, L. Mihaly Cozmuta, A. Mihaly Cozmuta	Insights into the physicochemical properties, in vitro digestibility, and consumer acceptance of black rice flour-based bread, <i>Applied Food Research Volume 5, Issue 2</i> , December 2025, 101225	6.2
61	L. Mihaly Cozmuta , A. Peter , C. Nicula , A. Jastrzebska, M. Jakubczak, M.A.K. Purbayanto, A. Bunea , F. Bora, A. Uivarasan, Z. Szakacs, A. Mihaly Cozmuta	Exploring the impact of microwaves, ultrasounds, UVA light, and X-rays on polyphenols in alginate–whey protein matrix–encapsulated red grape seed extract powder, <i>Applied Food Research</i> , https://doi.org/10.1016/j.afres.2024.100658 , <i>Applied Food Research</i> 5 (2025) 100658	6.2
60	Anca Peter ^a , Lucica Pop ^a , Leonard Mihaly Cozmuta ^a , Camelia Nicula ^a , Anca Mihaly Cozmuta ^a , Goran Drazic ^b , Klara Magyari ^c , Marieta Muresan-Pop ^{c, d} , Milica Todea ^{c, e} , Lucian Baia	Beeswax-poly(vinyl alcohol) composite films for bread packaging, <i>Food Chemistry X Volume 24</i> , 30 December 2024, article ID 102053 https://doi.org/10.1016/j.fochx.2024.102053	8.2
59	A. Mihaly Cozmuta, A. Peter, C. Nicula, A. Jastreszbska, M. Jakubczak, M.A.K. Purbayanto, A. Bunea, F. Bora, A. Uivarasan, Z. Szakács, L. Mihaly Cozmuta	The impact of visible light component bands on polyphenols from red grape seed extract powder encapsulated in alginate–whey protein matrix, <i>Food Chemistry, X</i> , 2024, https://doi.org/10.1016/j.fochx.2024.101758 ,	8.2
58	Alexandra Uivarasan 1, Jasmina Lukinac 2 , Marko Jukić c 2 Anca Mihaly	Characterization of Polyphenol Composition and Starch and Protein Structure in Brown Rice Flour, Black Rice Flour and Their Mixtures, <i>Foods</i> , 2024, 13, article e1592, Q2	5.1

	Cozmuta 1 and Leonard Mihaly Cozmuta		
57	Lucica Maria POP, Anca MIHALY COZMUTA, Camelia NICULA, Leonard MIHALY COZMUTA and Anca PETER	Attempts to Obtain Material Based on Polyvinyl Alcohol with Barrier Properties against Water Vapor, Applied sciences-basel Q2, 2024, Appl. Sci. 2024, 14, 4310. https://doi.org/10.3390/app14104310	2.5
56	Alexandra Maria Uivarasan, Leonard Mihaly Cozmuta, Jasmina Lukinac, Marko Jukić, Gordana Šelo, Anca Peter, Camelia Nicula, Anca Mihaly Cozmuta	Whole black rice flour improves physicochemical, glycemic and nutritional properties of cracker snacks, Foods, Q2, 2024, 13, article e1503	5.1
55	Anca Peter, Camelia Nicula, Anca Mihaly Cozmuta, Goran Drazic, Antonio Peñas, Stefania Silvi and Leonard Mihaly Cozmuta	Polylactic acid-based film modified with nano-Ag-graphene-TiO ₂ : new film versus recycled film, Advances in Polymer Technology, 2023, Q2, Volume 2023, Article ID 9937270, 15 pages https://doi.org/10.1155/2023/9937270 - Facut premiere UTCN in 8.01.2024 – 4571.42 lei	2.5
54	Anca Peter, Leonard Mihaly Cozmuta, Camelia Nicula, Anca Mihaly Cozmuta, Goran Drazic, Antonio Peñas, Stefania Silvi	Recovery and characterization of nano-Ag-graphene-TiO ₂ - active compound from polylactic acid (PLA)-based film, Journal of Polymers and the Environment, 2024, 32(1), 133-149, Q2, https://doi.org/10.1007/s10924-023-02995-8 - Facut premiere UTCN in 9.10.2023 – 3428 lei	5
53	A. Mihaly Cozmuta, M.A.K. Purbayanto, A. Jastrzębska, A. Peter, C. Nicula, A. Uivarasan, L. Mihaly Cozmuta,	Thermal stability and <i>in vitro</i> digestion of alginate–starch–iron beads for oral delivery of iron, Food Hydrocolloids, 2023, FOOHYD 108808, https://doi.org/10.1016/j.foodhyd.2023.108808 , Q1 - Facut premiere UTCN – 5714 lei	12.4
52	Anca Mihaly Cozmuta, Alexandra Uivarasan, Anca Peter, Camelia Nicula, Dalma Emokey Kovacs, Leonard Mihaly Cozmuta	Yellow mealworm (<i>Tenebrio molitor</i>) powder promotes a high bioaccessible protein fraction and low glycaemic index in biscuits, Nutrients, 2023, 15, 997, IF 6.706 Q1	5
51	A. Mihaly Cozmuta a,*, C. Nicula a, A. Peter a, L. Mihaly Cozmuta a, A. Nartea b, A. Kuhalskaya b, D. Pacetti b, S. Silvi c, D. Fiorini d, L. Pruteanu a	Cricket and yellow mealworm powders promote higher bioaccessible fractions of mineral elements in functional bread, Journal of Functional Food 99 (2022) 105310 Q1	4
50	Anca Peter ^{*1} , Leonard Mihaly Cozmuta ¹ , Camelia Nicula ¹ , Anca Mihaly Cozmuta ¹ , Goran Drazic ² , Antonio Peñas ² , Franks Kamgang Nzekoue ⁴ , Xiaohui Huang ⁴ , Gianni Sagratini ⁵ , Stefania Silvi ⁶	Storage of chicken breast meat in paper coated with different types of hydrophobic agents, Packaging Technology and Science, 2023, 36(2), 97-110, DOI: 10.1002/pts.2694 – Q3	3.7
1.	L. Mihaly Cozmuta a,*, C. Nicula a, A. Peter a, R. Apjok a, A. Jastrzębska b, A. Mihaly Cozmuta	Insights into the fermentation process of fresh and frozen dough bread made with alginate-immobilized <i>S. cerevisiae</i> yeast cells, Journal of Cereal Science 107 (2022) 103516	3.7
2.	A. Peter, L. Mihaly Cozmuta, C. Nicula, A. Mihaly Cozmuta, R. Apjok, C. M Talasman, G. Drazic, A. Peñas, A.J Calahorro, F. Kamgang Nzekoue, X. Huang, G Sagratini, S. Silvi	Barrier properties, migration into the food simulants and antimicrobial activity of paper-based materials with functionalized surface, Polymers and polymer composites, 30, 1-12, (2022) Q3	11.53

3.	A. Peter, L. Mihaly Cozmuta, C. Nicula, A. Mihaly Cozmuta, CM Talasman, G. Drazic, A. Peñas, AJ Calahorro, G.Sagratini, S Silvi	Chemical and organoleptic changes of curd cheese stored in new and reused active packaging systems made of Ag-graphene-TiO ₂ -PLA, Food Chemistry, 363, 130341 (2021)	37,05
4.	A. Mihaly Cozmuta, A. Jastrzębska, R. Apjok, M. Petrus, L. Mihaly Cozmuta, A. Peter, C. Nicula	Immobilization of baker's yeast in the alginate-based hydrogels to impart sensorial characteristics to frozen dough bread, Food Bioscience, 42, 101143, (2021)	17,14
5.	A Peter, L Mihaly Cozmuta, C Nicula, A Mihaly Cozmuta, R Apjok, CM Talasman, G Drazic, A Penas, AJ Calahorro, F Kamgang Nzekoue, X Huang, G Sagratini, S Silvi	Morpho-structural and chemical characterization of paper based materials with functionalized surface, Materials Chemistry and Physics 267, 124693 (2021)	17,98
6.	A. Peter, L. Mihaly Cozmuta, C. Nicula, A. Mihaly Cozmuta, C.M. Talasman, G. Drazic, M. Bele, A. Vizintin, E. Tchernychova, A. Peñas, A.J. Calahorro, G. Sagratini, S. Silvi	Modifying the silver-titania nanocomposites with carbonaceous materials to remove the pollutants from domestic waste water, Journal of Nanoscience and Nanotechnology, 21(4), 2278–2291 (2021)	9,55
7.	Huang X., Nzekoue F.K., Coman M.M., Peter A., Talasman C.M., Drazic G., Penas A., Verdenelli M.C., Sagratini G., Silvi S.	Antimicrobial Activity of Cell-free Supernatant of <i>Lactobacillus Plantarum</i> IMC 509 Against Common Food Spoilage Microbes, Journal of Clinical Gastroenterology, 54, S23-S23 (2020)	9,44
8.	A. Peter, L. Mihaly Cozmuta, C. Nicula, A. Mihaly Cozmuta, A. Vulpoi, L. Barbu-Tudoran, K. Magyari, M. Todea, L. Baia, F.G Pop	Multi-analyses of gallstones and correlation between their properties with the laboratory results, Analytical Biochemistry, 593, 113587 (2020)	17,02
9.	A. Mihaly Cozmuta, A. Peter, L. Mihaly Cozmuta, C. Nicula, R. Apjok, G. Drazic, F. Kamgang Nzekoue, X. Huang, S. Silvi, G. Sagratini, A. Peñas, A. J. Calahorro, M. Cano-Galey, O. Hodek	Impact of packaging properties on the physical-chemical-microbiological-sensory characteristics of Ricotta cheese during storage, Packaging Technology and Science, 33 (1), 27-37 (2020).	5,18
10.	R. Apjok, A. Mihaly Cozmuta, A. Peter, L. Mihaly Cozmuta, C. Nicula, M. Baia, A. Vulpoi	Active packaging based on cellulose-chitosan-Ag/TiO ₂ nanocomposite for storage of clarified butter, Cellulose 26(3) 1923-1946 (2019).	3,80
11.	A. Peter, A. Mihaly-Cozmuta, C. Nicula, L. Mihaly-Cozmuta, A. Vulpoi, L. Baia	Fabric impregnated with TiO ₂ gel with self-cleaning property, International Journal of Applied Ceramic Technology 16(2), 666-681 (2019).	1,16
12.	T. Wojciechowski, A. Rozmysłowska-Wojciechowska, G. Matyszcak, M. Wrzecieć, A. Olszyna, A. Peter, A. Mihaly-Cozmuta, C. Nicula, L. Mihaly-	Ti ₂ C MXene Modified with Ceramic Oxide and Noble Metal Nanoparticles: Synthesis, Morphostructural Properties, and High Photocatalytic Activity, Inorganic Chemistry 58(11), 7602–7614 (2019).	4,70

	Cozmata, S. Podsiadło, D. Basiak, W. Ziemkowska, A. Jastrzębska		
13.	A. Peter, C. Nicula, L. Mihaly-Cozmata, A. Mihaly-Cozmata	New active package based on titania coated on cardboard for storage of fresh prepared orange juice. Journal of Food Process Engineering, 42(2), e12965, (2019)	1,95
14.	A. Mihaly Cozmata, A. Peter, C. Nicula, L. Mihaly Cozmata,	Impact of algae addition on bread properties and consumers behavior-preliminary research, Carpathian Journal of Food Science and Technology, 11(1)121-125 (2019)	0
15.	A. Peter, C. Nicula, L. Mihaly Cozmata, A. Mihaly Cozmata	An efficient and innovative method to preserve the harvested plums during storage, Journal of Food Processing and Preservation, 42(1), 1-10 (2018)	0,79
16.	A. Mihaly Cozmata, R. Apjok, A. Peter, L. Mihaly Cozmata, C. Nicula, M. Baia, A. Vulpoi	Active papers coated with chitosan and containing TiO ₂ and Ag/TiO ₂ nanoparticles for increasing the shelf-life of walnut kernels, Cellulose 25(9), 5205-5225 (2018)	3,80
17.	A. Peter, A. Mihaly-Cozmata, C. Nicula, L. Mihaly-Cozmata	Assessment of TiO ₂ photoactivity on the lead removal: kinetic and mechanistic processing, Water Science and Technology 75 (11), 2508-2519 (2017)	1,06
18.	Peter A., Mihaly-Cozmata A., Nicula Camelia, Mihaly-Cozmata L., Jastrzebska A., Olszyna A., Baia L.	UV Light-Assisted Degradation of Methyl Orange, Methylene Blue, Phenol, Salicylic Acid, and Rhodamine B: Photolysis Versus Photocatalysis, Water Air and Soil Pollution 228(1), 41 (2017)	1,55
19.	A. Mihaly-Cozmata, A. Peter, G. Craciun, A. Falup, L. Mihaly-Cozmata, C. Nicula, A. Vulpoi, M. Baia	Preparation and characterization of active cellulose-based papers modified with TiO ₂ , Ag and zeolite nanocomposites for bread packaging application, Cellulose 24(9), 3911-3928 (2017)	3,41
20.	A. Mihaly Cozmata, A. Peter, C. Nicula, L. Mihaly Cozmata	Assessment of the effective antioxidant activity of edible films taking into account films–food simulants and films – environment interactions. Packaging Technology and Science 30 (1-2), 3–20 (2017)	1,29
21.	A. Mihaly Cozmata, L. Mihaly Cozmata, A. Peter, C. Nicula, Z. Vosgan, L. Giurgiulescu, A. Vulpoi, M. Baia	Effect of monochromatic Far-Red light on physical-nutritional-microbiological attributes of red tomatoes during storage, Scientia Horticulturae 211, 220–230 (2016)	1,53
22.	A. Peter, L. Mihaly-Cozmata, A. Mihaly-Cozmata, C. Nicula, W. Ziemkowska, D. Basiak, V. Danciu, A. Vulpoi, L. Baia, A. Falup, G. Craciun, A. Ciric, M. Begea, C. Kiss, D. Vatuui	Changes in the microbiological and chemical characteristics of white bread during storage in paper packages modified with Ag/TiO ₂ -SiO ₂ , Ag/N-TiO ₂ or Au/TiO ₂ , Food Chemistry 197, 790–798 (2016).	4,05
23.	A. Mihaly Cozmata, A. Peter, L. Mihaly Cozmata, C. Nicula, L. Crisan, L. Baia, A. Turila	Active packaging system based on Ag/TiO ₂ nanocomposite used for extending the shelf life of bread. Chemical and microbiological investigations, Packaging Technology and Science, 28, 271–284 (2015).	1,29
24.	A. Mihaly Cozmata, A. Turila, R. Apjok, A. Ciocian, L. Mihaly Cozmata, A. Peter, C. Nicula, N. Galić, T. Benković	Preparation and Characterization of Improved Gelatin Films Incorporating Hemp and Sage Oils, Food Hydrocolloids, 49, 144-155 (2015).	3,85
25.	I. Lázár, J. Kalmár, A. Peter, A. Szilágyi, E. Gyor, T. Ditrói, I. Fábrián	Photocatalytic performance of highly amorphous titania–silica aerogels with mesopores: The adverse effect of the in situ adsorption of some organic substrates during photodegradation, Applied Surface Science 356, 521–531 (2015)	2,71

26.	A. Peter, L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, C. Nicula, C. Cadar, A. Jastrzębska, P. Kurtycz, A. Olszyna, A. Vulpoi, V. Danciu, T. Radu, L. Baia	Silver functionalized titania-silica xerogels: Preparation, morphostructural and photocatalytic properties, kinetic modeling, Journal of Alloys and Compounds 648, 890-902 (2015).	3,01
27.	A. Peter, L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, C. Nicula, A. Jastrzębska, P. Kurtycz, A. Olszyna	Morphology, structure, and photoactivity of two types of graphene oxide-TiO ₂ composites, Chemical Papers 69 (6) 839–855 (2015).	1,32
28.	A. Peter, L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, C. Nicula, E. Indrea, L. Barbu - Tudoran	Testing the preserving activity of Ag-TiO ₂ -Fe and TiO ₂ composites included in the polyethylene during the orange juice storage, Journal of Food Process Engineering, 37(6), 596-608 (2014).	0,67
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15. Andrada-Alexa Lazăr, Anca Peter, *Studiul ambalajelor active pe bază de alcool polivinilic modificat (PVA) – analiza produselor lactate*, Conferința X-Gen, 2022, Baia Mare, secțiunea Inginerie Alimentară. <https://www.xgen.ro/xgen-2022/sesiuni-comunicari-stiintifice-xgen-2022/>
16. Ana Iancu, Anca Peter, *3D printed rigid food packaging based on polylactic acid modified with nano-silver for the storage of cow cheese*, Conferința X-Gen, 2022, Baia Mare, secțiunea Inginerie Alimentară. <https://www.xgen.ro/xgen-2022/sesiuni-comunicari-stiintifice-xgen-2022/>
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19. Lucica Pop, Anca Peter, Anca Mihaly-Cozmuta, Patrizia Fava, Andrea Pulvirenti, Preparation and characterization of polyvinyl alcohol films modified with essential oils, "YOUNG PEOPLE AND MULTIDISCIPLINARY RESEARCH IN APPLIED LIFE SCIENCES", 27 November 2020, Timisoara, Romania.
20. Ana Iancu, Anca Mihaly Cozmuta, Leonard Mihaly Cozmuta, Camelia Nicula and Anca Peter, 3D Printed Rigid Food Packaging Based on Polylactic Acid Modified with Nano- Silver for the Storage of Cow Cheese, 8th International Conference on Food Chemistry and Technology, October 12-14 2022, Rome, Italy.
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22. Ana Iancu, Anca Mihaly Cozmuta, Leonard Mihaly Cozmuta, Camelia Nicula and Anca Peter, 3D Printed silver doped PLA-based boxes designed for the Storage of Cow Cheese, International Conference for Students - STUDENT IN BUCOVINA, November 10th 2022, Suceava, Romania.
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34. Calin Cadar, Anca Mihaly-Cozmuta, **Anca Peter**, Camelia Nicula, Leonard Mihaly-Cozmuta, Marius Metenti, Ag/TiO₂ based on nanomaterials used in food preservation, 13-th International Symposium and Summer School on Bioanalysis, P3 - Debrecen, Hungary, 2013.
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38. Anca Mihaly-Cozmuta, Laura Bretan, Delia Boltea, Leonard Mihaly-Cozmuta, Monica Marian, Anca Peter, Camelia Varga, *Traceability of heavy metals along of soli-plant-honey chain*, CECE, 6th International Interdisciplinary Meeting on Bioanalysis, November 5-November 8, 2009, Pecs, Ungaria.
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42. Emil Indrea, **Anca Peter**, Danut T. Silipas, Simina Dreve, Ramona-Crina Suciu, Marcela Corina Rosu, Virginia Danciu, Veronica Cosoveanu, Structural characterisation of binary SiO₂-TiO₂ nanoparticle aerogels by X-ray scattering, *J. of Physics: Conference Series* 182, 2009, 012066, 1-4, <http://www.iop.org/EJ/journal/conf> - Suceava, Romania.
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2.3. Proprietate intelectuala, brevete de inventie, tehnologii si produse omologate

2.3.1. Internationale

Nr.	Brevet	indicator
1	Peter A. , Mihaly Cozmuta A, Mihaly Cozmuta L, Nicula C, Talasman C, Caprita F, Constantin C, Dumitrascu I, Drazic G, Bele M, Chernyshova E., Silvi S, Sagratini G, Huang X, Kamgang F, Verdenelli C, Orpianesi C, Coman M, Penas A, Calahorro A, Cano Galey M, Ramirez Rodriguez M, Process for obtaining active packages based on polylactic acid modified with nano-composite , patent request submitted to EPO, number EP20020299.2, from 25 June 2020. - sub evaluare, acceptat pentru publicare.	1,81
2	A. Peter , C. Nicula, A. Mihaly Cozmuta, L. Mihaly Cozmuta and other 23 inventors, Process for obtaining nanocomposite food packages , - application no. 15464006.4-1358 from 28.08.15, priority: RO/08.04.15/ROA 201500256; solicitanti: Technical University of Cluj, Babes-Bolyai University of Clu, ICA R&D, L&G Consulting, Warsaw University of Technology Poland – sub evaluare, acceptat pentru publicare.	1,42

2.3.2. Nationale

1	Peter A. , Mihaly Cozmuta A, Mihaly Cozmuta L, Nicula C, Talasman C, Caprita F, Constantin C, Dumitrascu I, Drazic G, Bele M, Chernyshova E., Silvi S, Sagratini G, Huang X, Kamgang F, Verdenelli C, Orpianesi C, Coman M, Penas A, Calahorro A, Cano Galey M, Ramirez Rodriguez M, Procedeu de obținere a unor ambalaje active pe bază de acid polilactic modificat cu nanocompozit , patent application submitted to OSIM, registration number A/00328 from 12.06.2020. under review, accepted for publication	1,36
2	A. Peter , C. Nicula, A. Mihaly Cozmuta, L. Mihaly Cozmuta si alti 23 inventatori, Procedee de obtinere a unor ambalaje alimentare inteligente , - nr. inregistrare a2015 00256 din 8.04.2015 la OSIM Romania,	1,07

	solicitanți: Technical University of Cluj Napoca, Babes-Bolyai University Cluj Napoca, ICA R&D, L&G Consulting, Warsaw University of Technology Poland, nr. inreg. a2015 00256, aprobat prin Hotararea OSIM 4.2./33/30.03.2022, nr. Brevet 130496.	
3	Danciu V., Cosoveanu V., Peter A. , Moldovan Z., Nutiu G., <i>Procedeu pentru mineralizarea prin fotocataliza a contaminantilor organici din apele reziduale (Process for photocatalysis mineralization of organic contaminants in waste water)</i> , Patent no. 122840/6.05.2004, according to the Romanian Law 64/1991. Assignee: UNIV CLUJ-NAPOCA BABES-BOLYAI	6
Total 2.3.		11,66

2.4. Granturi/proiecte castigate prin competitie inclusiv proiecte de cercetare/consultanta (valoare de minim 10000 euro echivalent)

2.4.1. Director de proiect

2.4.1.1. International

Nr.	Denumire	Indicator
1	Titlu: Active GRaPhene based FOOD packaging systems for a modern society (GRAFOOD), nr.72/2017 Coordonator consortiu si responsabil UTCN: Conf. Anca Peter Membri: Leonard Mihaly Cozmata, Anca Mihaly Cozmata, Camelia Nicula si altii. Durata: 2017-2020 Sursa de finantare: M-ERANET 2016 Parteneri: Universitatea Tehnica din Cluj Napoca, Cephart Braila, National Institute of Chemistry Ljubljana Slovenia, University of Camerino Italy, SYNBIOTEC Italy, Andaltec Spain Buget total: 762 634 euro, Buget UTCN: 180 000 euro	60
2	Title of the proposal: STRUCTural and PHOtochemical investigations of a nanosized composite as active component of paper based PACKage designed for food applications (STRUCT-PHO-PACK) Cooperation Protocols of the applicant institution in Romania with JINR, or Cooperation Agreement with JINR for a Scientific Programme Responsabil Romania: Conf. Anca Peter Responsabil Rusia: Dr. Eugen Anitas Number of Protocol between Romania and IUCN: 4517-3-16/18 Theme and activity from the JINR Topical Plan: Theme code: 01-3-1115-2014/2018 Priority: 1 Theme name: Theory of Condensed Matter Perioada: 2017-2018 Parteneri: Universitatea Tehnica Cluj Napoca Romania si Joint Institute for Nuclear Research Dubna Rusia Buget: 11000 dolari (10347 euro) (dintre care 5500 dolari / 2017 - contract in curs de semnare	20
3	Titlu: Smart functions of packages containing nano-structured materials in food preservation – SMARTPACK – 7-065 / 26.09.2012; http://chimie-biologie.ubm.ro/smartpack/index.html Coordonator consortiu si responsabil UTCN: Anca Peter Membri: Leonard Mihaly Cozmata, Anca Mihaly Cozmata, Camelia Nicula si altii. Durata: 2012-2015 Sursa de finantare: MNT-ERANET Micro-Nano-Technologies (2011) Parteneri: ICA-Bucuresti-Romania, Universitatea Babes Bolyai Cluj Napoca-Romania, SC L&G Consulting SA -Romania, Warsaw University of Technology – Poland Buget: 530.000 euro	60

2.4.1.2. National

4	Titlul: Materiale avansate nanostructurate de tip aerogel cu aplicatii la depoluarea mediului prin fotocataliza heterogena, cod CNCIS 44, tema 15/2005. Colectivul de cercetare: Peter Anca - director de proiect, Danciu Virginia, Cosoveanu Veronica, etc.... Anul: 2005-2007 Buget: Total: 36.000 RON (10169 euro la curs BNR 3.54 din 4.05.2005) Sursa de finantare: Ministerul Educatiei si Cercetarii prin Programul TD.	30
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2.4.2. Membru in echipa de cercetare

2.4.2.1. International

1	Titlul proiectului: FOOD CHAIN 4 EUROPE	20
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	Durata: 2017-2022 Responsabil proiect UTCN-CUNBM: Prof.dr.ing. Anca Mihaly Cozmuta Membri UTCN-CUNBM: Conf.dr. Anca Peter, Conf.dr. Camelia Nicula, Conf. dr. Leonard Mihaly Cozmuta Sursa de finantare: INTERREG IV C Structura consorțiului: Consiliul Județean Maramureș cu Universitatea Tehnică din Cluj Napoca - Centrul Universitar Nord din Baia Mare (Romania), Provincia Flevoland (Olanda), Fundația AERES GROUP UAS (Olanda), Fundația Euro Perspectives (Bulgaria), Universitatea de Tehnologie Alimentară Plovdiv (Bulgaria), Universitatea Catolică Del Sacro Cuore Milano (Italia), Regiunea Emilia Romagna - directoratul General pentru Agricultură, Vânătoare și Pescuit (Italia), Consiliul Metropolitan Oldham (Marea Britanie), Universitatea Metropolitană Manchester (Marea Britanie). Buget total: 1556512 euro din care pentru Romania 149354 euro. Rol UTCN-CUNBM: îmbunătățirea punerii în aplicare a politicilor regionale care să stimuleze furnizarea de inovare pentru a crea lanțuri alimentare durabile.	
2	Titlu: <i>Developing of a biophysical system based on zeolites microorganisms-vegetal species for ecoremediation of tailing ponds coming from gold-silver preparation industry - ZEMIP</i> Consortium coordinator: Lecturer dr. eng. Leonard Mihaly Cozmuta - Chemistry-Biology Department North University of Baia Mare, Membri: Camelia Varga (Nicula), Anca Peter, Anca Mihaly Cozmuta, Monica Marian Time range: 2009-2011 Funding source: PNCDI 2 Partners: North University of Baia Mare, University of Witswatersrand, Johannesburg, South Africa	12

2.4.2.2. National

3	Titlu proiect: <i>Bioacumularea metalelor grele in lantul sol-legume-om - BIOMEG</i> Coordonator: Conf.dr. Camelia Varga (Nicula) - Universitatea de Nord Baia Mare Membri: Leonard Mihaly Cozmuta, Monica Marian, Anca Mihaly Cozmuta, Anca Peter, Vasile Oros, Rodica Apan, Flavia Pop, Liviu Giurgulescu, Anca Dumuta Anul: 2008-2011 Sursa de finantare: CNMP (PNCD 2) Parteneri: Universitatea de Nord Baia Mare, Universitatea din Oradea, Statiunea de Cercetari Agricole Livada Satu Mare, facultatea de Medicina Universitatea Transilvania Brasov Buget: Total 1.900.000 RON	6
4	Titlu proiect: <i>Reabilitarea iazurilor de decantare prin aplicare de amendamente si cultivarea unor specii vegetale cu adaptabilitate ridicata la continutul de metale grele - RIVAM</i> Coordonator: sef lucrari dr. Leonard Mihaly Cozmuta- Universitatea de Nord Baia Mare Membri: Camelia Varga (Nicula), Anca Mihaly Cozmuta, Monica Marian, Anca Peter, Oros Vasile, Gheorghe Vatca, Apan Rodica, Liviu Giurgulescu, Denut Ioan, Anca Dumuta, Pop George Ovidiu Anul: 2008-2011 Sursa de finantare: CNMP (PNCD 2) Parteneri: Universitatea de Nord Baia Mare, Universitatea din Oradea, Statiunea de Cercetari Agricole Livada Satu Mare Buget: Total 1.900.000 RON	6
5	Titlu proiect: <i>Monitorizarea actiunii microbiotei solului in vederea utilizarii ei in reabilitarea ecologica a iazurilor de decantare – AMSREI; Contract nr.: 31010/2007</i> Coordonator: sef lucrari dr. Monica Marian - Universitatea de Nord Baia Mare Membri: Camelia Varga (Nicula), Leonard Mihaly Cozmuta, Anca Mihaly Cozmuta, Anca Peter, Vasile Oros, Mirela Coman, Mihalescu Lucia, Oana Rosca Mare, Flavia Maries, Codre Anca, Anul: 2007-2010 Sursa de finantare: CNMP (PNCD 2) Parteneri: Universitatea de Nord Baia Mare, Universitatea din Oradea, Statiunea de Cercetari Agricole Livada Satu Mare Buget: Total 1.300.000 RON	6
6	Titlul proiectului: <i>Elaborarea hartilor de hazard si evaluarea calitatii mediului in arealele miniere din judetele Maramures si Satu Mare utilizand sistemele informatinale geografice - SIG</i> Coordonator consorțiu: dr. Driga Basarab - IGAR Director de proiect UBM: prof.dr.ing. Anca Mihaly Cozmuta Membri: Leonard Mihaly Cozmuta, Camelia Varga (Nicula), Anca Peter, Vasile Viman, Denut Ioan, Bud Ioan, Spatar Cornel, Gheorghe Vatca Anul: 2005-2008	6

	Sursa de finantare: CNCSIS Parteneri: Institutul de Geografie al Academiei Romane, Institutul de Instrumentatie Analitica Cluj Napoca, Geoproiect Bucuresti, Universitatea de Nord Baia Mare, FSM Cluj Napoca Buget: Total 179.860 RON	
7	Titlu proiect: <i>Aplicarea integrata a bazelor de date pentru adoptarea si restructurarea factorilor naturali si artificiali de protectie a mediului in Ferme Zootehnice-AIBD</i> Director de proiect: prof.dr.ing. Anca Mihaly Cozmata – Universitatea de Nord Baia Mare Membri: Leonard Mihaly Cozmata, Camelia Varga (Nicula), Anca Mihaly Cozmata, Oprea Gabriela, Vasile Viman, Gheorghe Vatca, Anca Peter , Flavia Maries, Ioana tascu, Corina Dragos, Florin Boltea Anul: 2005-2008 Sursa de finantare: Ministerul Educatiei si Cercetarii prin Programul Cercetare de Excelenta - CALIST Parteneri: USAMV Cluj Napoca, Universitatea de Nord Baia Mare – Romania, Universitatea Gent Belgia, Academia de Stiinte Republica Moldova – Institutul de Zoologie Buget: Total 100.000 RON	6
8	Titlu proiect: Conexiuni la cercetarea europeana de excelenta in problematica de mediu - CONEEX, nr. 1560/2.09.2005 Director de proiect: prof.dr.Vasile Viman – Universitatea de Nord Baia Mare Membri: Anca Mihaly Cozmata, Leonard Mihaly Cozmata, Camelia Varga (Nicula), Oprea Gabriela, , Gheorghe Vatca, Anca Peter , Flavia Maries, etc... Anul: 2005-2007 Sursa de finantare: Ministerul Educatiei si Cercetarii prin Programul Cercetare de Excelenta - P-INT-VIZ Parteneri: UBM, ICIA-CENTI Cluj, INOE Bucuresti Buget: Total 200.000 RON	6
9	Titlul proiectului: <i>Materiale fotocatalitice inovative aplicate la decontaminarea chimica si microbiologica a aerului din incinte</i> , MATDECON-PN II 71-099/2007 Colectivul de cercetare: Virginia Danciu - director de proiect, Peter Anca , Cosoveanu Veronica si altii Anul: 2007-2010 Buget: Total: 840.400 RON Sursa de finantare: Ministerul Educatiei si Cercetarii prin Programul PN II.	6
10	Titlul proiectului: <i>Noi sisteme vitroase telurate si germanate cu aplicatii in telecomunicatii</i> , NOSIVTEL-PN II 71-099/2007 Colectivul de cercetare: Virginia Danciu - director de proiect, Peter Anca , Cosoveanu Veronica si altii Anul: 2007-2010 Buget: Total: 268.028 RON Sursa de finantare: Ministerul Educatiei si Cercetarii prin Programul PN II.	6
Total 2.4.		250
TOTAL A.2.		663.43

A.3. Recunoasterea impactului activitatii

3.1. Citari in reviste ISI si volumele conferintelor indexate WOS

	Articolul citat	Nr citari	Indicator
1.	Comparative study on starch and protein secondary structures in brown, red, and black rice influenced by microwave treatment	6	5
2.	Influence of Porosity on the Morpho-Structure, Physical-Chemical and Biochemical Characteristics of Polylactic Acid and/or Polycaprolactone Scaffolds	2	1.81
3.	Insights into the physicochemical properties, <i>in vitro</i> digestibility, and consumer acceptance of black rice flour-based bread	2	2.5
4.	Influence of Alaria esculenta powder on sensory acceptance, nutritional aspects, and staling of wheat bread	67	55.83
5.	Exploring the impact of microwaves, ultrasounds, UVA light, and X-rays on polyphenols in alginate-whey protein matrix-encapsulated red grape seed extract powder	4	3.63
6.	Beeswax-poly(vinyl alcohol) composite films for bread packaging	12	12
7.	The impact of visible light component bands on polyphenols from red grape seed extract powder encapsulated in alginate-whey - whey protein matrix	8	7.27
8.	Characterization of Polyphenol Composition and Starch and Protein Structure in Brown Rice Flour, Black Rice Flour and Their Mixtures	10	12.5
9.	Attempts to Obtain Material Based on Polyvinyl Alcohol with Barrier Properties against Water Vapor	5	5
10.	Whole Black Rice Flour Improves the Physicochemical, Glycemic, and Sensory Properties of	9	11.25

	Cracker Snacks		
11.	Polylactic Acid-Based Film Modified with Nano-Ag-Graphene-TiO ₂ : New Film versus Recycled Film	5	7.14
12.	Recovery and Characterization of Nano-Ag-graphene-TiO ₂ : Active Compound from Polylactic Acid (PLA)-Based Film	3	4.28
13.	Thermal stability and <i>in vitro</i> digestion of alginate-starch-iron beads for oral delivery of iron	7	7
14.	Yellow Mealworm (<i>Tenebrio molitor</i>) Powder Promotes a High Bioaccessible Protein Fraction and Low Glycaemic Index in Biscuits	17	28.33
15.	Cricket and yellow mealworm powders promote higher bioaccessible fractions of mineral elements in functional bread	32	28.33
16.	Storage of chicken breast meat in paper coated with different types of hydrophobic agents	4	4
17.	Insights into the fermentation process of fresh and frozen dough bread made with alginate-immobilized <i>S. cerevisiae</i> yeast cells	6	11.66
18.	Barrier properties, migration into the food simulants and antimicrobial activity of paper-based materials with functionalized surface	5	3.84
19.	Chemical and organoleptic changes of curd cheese stored in new and reused active packaging systems made of Ag-graphene-TiO ₂ -PLA, <i>Food Chemistry</i> (2021) 363, 130341	31	31
20.	Immobilization of baker's yeast in the alginate-based hydrogels to impart sensorial characteristics to frozen dough bread, <i>Food Bioscience</i> (2021) 42, 101143	26	37.14
21.	Morpho-structural and chemical characterization of paper based materials with functionalized surface, <i>Materials Chemistry and Physics</i> (2021) 267, 124693	6	4.61
22.	Multi-analyses of gallstones and correlation between their properties with the laboratory results, <i>Analytical Biochemistry</i> (2020) 593, 113587	14	14
23.	Impact of packaging properties on the physical-chemical-microbiological-sensory characteristics of Ricotta cheese during storage, <i>Packaging Technology and Science</i> (2020) 33 (1), 27-37.	5	3.57
24.	Ti2C MXene Modified with Ceramic Oxide and Noble Metal Nanoparticles: Synthesis, Morphostructural Properties, and High Photocatalytic Activity, <i>Inorganic Chemistry</i> (2019) 58(11), 7602–7614.	100	76.92
25.	New active package based on titania coated on cardboard for storage of fresh prepared orange juice	2	5
26.	Fabric impregnated with TiO ₂ gel with self-cleaning property, <i>International Journal of Applied Ceramic Technology</i> (2019) 16(2), 666-681.	19	31,66
27.	Active packaging based on cellulose-chitosan-Ag/TiO ₂ nanocomposite for storage of clarified butter, <i>Cellulose</i> (2019) 26(3) 1923-1946.	36	51.42
28.	Impact of algae addition on bread properties and consumers behavior-preliminary research, <i>Carpathian Journal of Food Science and Technology</i> (2019) 11(1)121-125.	1	2,5
29.	Active papers coated with chitosan and containing TiO ₂ and Ag/TiO ₂ nanoparticles for increasing the shelf-life of walnut kernels, <i>Cellulose</i> (2018) 25(9), 5205-5225.	30	42.85
30.	An efficient and innovative method to preserve the harvested plums during storage, <i>Journal of Food Processing and Preservation</i> (2018) 42(1), 1-10.	2	5
31.	Preparation and characterization of active cellulose-based papers modified with TiO ₂ , Ag and zeolite nanocomposites for bread packaging application, <i>Cellulose</i> (2017) 24(9) 3911-3928	28	35
32.	Assessment of TiO ₂ photoactivity on the lead removal:kinetic and mechanistic processing, <i>Water Science and Technology</i> , (2017) 75 (11): 2508-2519.	3	7,5
33.	UV Light-Assisted Degradation of Methyl Orange, Methylene Blue, Phenol, Salicylic Acid, and Rhodamine B: Photolysis Versus Photocatalysis, <i>Water, Air and Soil Pollution</i> (2017) 228(1), ID 41.	52	78
34.	Assessment of the effective antioxidant activity of edible films taking into account films–food simulants and films–environment interactions. <i>Packaging Technology and Science</i> (2017) 30 (1-2), 3–20	2	5
35.	Effect of monochromatic Far-Red light on physical-nutritional-microbiological attributes of red tomatoes during storage, <i>Scientia Horticulturae</i> (2016) 211, 220–230	19	23.75
36.	Changes in the microbiological and chemical characteristics of white bread during storage in paper packages modified with Ag/TiO ₂ -SiO ₂ , Ag/N-TiO ₂ or Au/TiO ₂ , <i>Food Chemistry</i> (2016) 197, 790–798.	30	20
37.	THE INFLUENCE OF FAR-RED LIGHT ON THE ATTRIBUTES OF GREEN BELL PEPPER FRUITS (<i>Capsicum annum</i> L.) DURING STORAGE	4	5.71
38.	Photocatalytic performance of highly amorphous titania–silica aerogels with mesopores: The adverse effect of the in situ adsorption of some organic substrates during photodegradation, <i>Applied Surface Science</i> (2015) 356, 521–531	30	42,85

39.	Silver functionalized titania-silica xerogels: Preparation, morphostructural and photocatalytic properties, kinetic modeling, <i>Journal of Alloys and Compounds</i> (2015) 648, 890-902.	24	20
40.	Preparation and Characterization of Improved Gelatin Films Incorporating Hemp and Sage Oils, <i>Food Hydrocolloids</i> (2015) 49, 144-155	62	68.88
41.	Morphology, structure, and photoactivity of two types of graphene oxide-TiO ₂ composites, <i>Chemical Papers</i> (2015) 69 (6), 839–855.	23	32.85
42.	Active packaging system based on Ag/TiO ₂ nanocomposite used for extending the shelf life of bread-chemical and microbiological investigations, <i>Packaging Technology and Science</i> (2015) 28, 271–284	57	81.42
43.	DEVELOPMENT OF Ag/TiO ₂ -SiO ₂ -COATED FOOD PACKAGING FILM AND ITS ROLE IN PRESERVATION OF GREEN LETTUCE DURING STORAGE	11	15.71
44.	Testing the preserving activity of Ag-TiO ₂ -Fe and TiO ₂ composites included in the polyethylene during the orange juice storage, <i>Journal of Food Process Engineering</i> (2014) 37(6), 596-608.	8	13,33
45.	Biosorption of trace elements from aqueous systems in gold mining sites by the filamentous green algae (<i>Oedogonium sp.</i>), <i>Journal of Geochemical Exploration</i> (2014) 144, 492–503.	66	110
46.	Photocatalytic Efficiency of Zeolite-Based TiO ₂ Composites for Reduction of Cu (II): Kinetic Models, <i>International Journal of Applied-Ceramic Technology</i> , (2014) 11(3), 568-581.	11	15,71
47.	Adsorption of heavy metal cations by Na-clinoptilolite: Equilibrium and selectivity studies, <i>Journal of Environmental Management</i> (2014) 137, 69-80.	126	180
48.	THE UPTAKE OF HEAVY METALS IN <i>Phaseolus vulgaris</i> AND <i>Zea mays</i> SEEDS HARVESTED FROM POLLUTED AND UNPOLLUTED AREAS	4	10
49.	NANOSENSOR BASED ON TiO ₂ FOR DETECTION OF OXYGEN IN DAMAGED VACUUM PACKAGES	5	10
50.	Efficiency of Cu/TiO ₂ to Remove Salicylic Acid by Photocatalytic Decomposition: kinetic modeling, <i>Materials Technology</i> (2014) 29(3), 129–133.	14	23,33
51.	Nano food packages: from food preservation efficiency no consumer legal protection, <i>Amfiteatru Economic</i> (2014) XVI(36), 397-415.	2	4
52.	Calcium and ammonium ion-modification of zeolit amendments affects the metal-uptake of <i>Hieracium piloselloides</i> on a dose-dependent way, <i>Journal of Environmental Monitoring</i> (2012) 14, 2807-2814 (2012).	26	43.33
53.	Chemical and sensory changes of different dairy products during storage in packages containing nanocrystallised TiO ₂ , <i>International Journal of Food Science and Technology</i> , 47(7), 1448-1456 (2012).	23	46
54.	Lead traceability along soil-melliferous flora-bee family-apiary products chain, <i>Journal of Environmental Monitoring</i> (2012) 14(6), 1622-1630	7	14
55.	The influence of pH on the adsorption of lead by Na-clinoptilolite: Kinetic and equilibrium studies, <i>Water SA</i> (2012) 38(2), 269-278.	53	88.33
56.	Increased survival chances of the species <i>Quercus petraea</i> in terms of pollution with Cd and Cu by using microbiota-bentonite systems, <i>Carpathian Journal of Earth and Environmental Sciences</i> (2012) 7(1), 231 - 237.	2	5
57.	Dual efficiency of nano-structured TiO ₂ /zeolyte systems in removal of copper (II) and lead (II) ions from aqueous solution under visible light, <i>AIP Conference Proceedings</i> (2012) 1425, 139-143.	2	2,5
58.	Efficiency of amendments based on zeolite and bentonite in reducing the accumulation of heavy metals in tomato organs (<i>Lycopersicum esculentum</i>) grown in polluted soils, <i>African Journal of Agricultural Research</i> (2011) 6(21), 5010-5023.	3	3,75
59.	The sorptive performance of microorganisms-zeolite systems to remove Cu ²⁺ , Zn ²⁺ , Cd ²⁺ , Fe ²⁺ and Pb ²⁺ , <i>Revue Roumaine de Chimie</i> (2011) 56(9), 847-852.	1	1,66
60.	Efficient dual functionality of highly porous nanocomposites based on TiO ₂ and noble metal particles, <i>Journal of Alloys and Compounds</i> (2011) 509, 2672-2678.	26	37,14
61.	Porous Au-TiO ₂ aerogels nanoarchitectures for photodegradation processes, <i>Journal of Optoelectronics and Advanced Materials</i> (2010) 12 (5), 1071-1077.	6	7,5
62.	Photo-catalysts based on gold-titania composites, <i>Studia Universitatis Babes-Bolyai, Chemia</i> (2009) LIV(3), 161-171.	5	8,33
63.	TiO ₂ -Ag Porous Nanocomposites for Advanced Photocatalytic Processes, <i>Clean Technology: Bioenergy, renewables, green building, smart grid, storage, and water</i> 683-686, <i>NSTI nanotech, vol 1, Technical proceedings</i> (2008) 381-384	2	2,85
64.	Synthesis and nanostructural characterization of TiO ₂ aerogel for photovoltaic devices, <i>Thin Solid Films</i> (2006) 511-512, 512-516.	47	67,14
Total			1379.86

3.2. Citari in revistele si volumele conferintelor BDI

Nr.	Articolul citat	Nr citari	Indicator
1	Immobilization of baker's yeast in the alginate-based hydrogels to impart sensorial characteristics to frozen dough bread By: Cozmuta, AM (Cozmuta, A. Mihaly) [1]; Jastrzebska, A (Jastrzebska, A.) [2]; Apjok, R (Apjok, R.) [1]; Petrus, M (Petrus, M.) [2]; Cozmuta, LM (Cozmuta, L. Mihaly) [1]; Peter, A (Peter, A.) [1]; Nicula, C (Nicula, C.) [1] (provided by Clarivate) FOOD BIOSCIENCE	1	0,71
2	A. Mihaly Cozmuta, A. Turila, R. Apjok, A. Ciocian, L. Mihaly Cozmuta, A. Peter , C. Nicula, N. Galić, T. Benković, Preparation and Characterization of Improved Gelatin Films Incorporating Hemp and Sage Oils, Food Hydrocolloids, 49, 144-155 (2015).	2	1,11
3	A. Peter , C. Nicula, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, E. Indrea, Chemical and sensory changes of different dairy products during storage in packages containing nanocrystallised TiO ₂ , International Journal of Food Science and Technology, 47(7), 1448-1456 (2012).	2	2
Total 3.2.			3,82

Citarile BDI sunt vizibile pe Google Scholar

<https://scholar.google.com/citations?user=ikiRwaMAAAJ&hl=ro>**3.3. Prezentari invitate in plenul unor manifestari stiintifice nationale si internationale si profesor invitat****3.3.1. Internationale**

Nr		Indicator
1	University of Pecs, Department of Analytical Chemistry, Faculty of Sciences and Institute of Bioanalysis, Faculty of Medicine, Hungary, teacher mobility CEEPUS : CII – HU-0010-04-0910-M-34185, 12.04.2010 – 12.05.2011	20
	Total 3.3.1.	20
	Total 3.3.	20

3.4. Membru in colectivele de redactie sau comitete stiintifice al revistelor si manifestarilor stiintifice, organizator de manifestari stiintifice, recenzor pentru reviste si manifestari stiintifice nationale si internationale**3.4.1. ISI**

Nr		Indicator
1	Membra in comitetul de redactie a revistei Carpathian Journal of Food Science and Technology http://chimie-biologie.ubm.ro/carpathian_journal/editors.html	15
	Total 3.4.1.	15
	Total 3.4.	15

3.5. Recenzor pentru articole trimise spre publicare in reviste ISI**3.5.1. ISI**

Nr	revista	articolul	Indicator
2011			
1	Clean Soil Air Water	Photodecomposition of gaseous DMDS (a malodorous compound) by supported-TiO ₂ based catalysts homemade by green preparation	10
2	African Journal of Agricultural Research	Seasonal Changes of Thermocline in Northern Zone of Persian Gulf (Short Communication)	10
		The Effect of Malathion (Organophosphate) and Sevin (Carbamate) Application on Radish (<i>Raphanus sativus</i> L.) Growth	
3	International Journal of Food Science & Technology	Optimization of basil seed gum (<i>Ocimum basilicum</i> L.) as a novel stabiliser for ice cream to deliver improved processing and sensory quality	10
2012			
4	International Journal of Food Science & Technology	Characterisation, stability and in-vitro degradation of microcapsules containing Chinese yak (<i>Poephagus grunniens</i> L.) butter	10

		Influence of adjuncts as debittering aids on the sensory properties of enzyme modified cheese-base	
5	Journal of materials Science	Synthesis and performance of magnetic TiO ₂ nanocomposites in the adsorption removal of salicylic acid from aqueous solution: kinetics, isotherms and thermodynamics studies	10
6	International Journal of Applied Ceramic Technology	Comparative assessment of antimicrobial efficiency of ionic silver, silver monoxide and metallic silver incorporated onto an aluminum oxide nanopowder carrier	10
2013			
7	Material Letters	A relative evaluation of Dollimore-Heal and Barrett-Joyner-Halenda methods of Pore Volume Distribution (PVD) patterns of zeolites	10
2014			
8	International Journal of Applied Ceramic Technology	The impact of zeta potential and physico-chemical properties of TiO ₂ -based nanocomposites on their biological activity	10
9	International Journal of Food Science & Technology	Effect of the use of date fibres on the quality and nutritional properties of ice-cream	10
2015			
10	Chemical Papers	Properties of natural rubber composites with structurally different clay intercalable Surfactants	10
11	CLEAN - Soil, Air, Water	Green synthesis of CuONPs and their application for removal of arsenite: RSM and ANN-GA approach Synthesis of complex 3D Cd ²⁺ doped-ZnS composites through a simple hydrothermal method and its optical and photocatalytic properties	10
12	Desalination and Water Treatment	Removal of Heavy Metals from Waste Water (artificial or natural) by the Synthetic Na-P1 Zeolite from Bentonite	10
13	NANO	Study of various nanostructures titania with graphene composites: the preparation and photocatalytic activities	10
14	Surface and Coatings Technology	Enhanced photocatalytic activities of TiO ₂ -SiO ₂ nanohybrids immobilized on cement based materials for dye degradation	10
2016			
15	ACS Applied Materials & Interfaces	Unraveling the Multiple Effects Originating the Increased Oxidative Photoactivity of {001}-Facet Enriched Anatase TiO ₂	10
16	Desalination and Water Treatment	Fabrication of PES/NaX Nanocomposite nanofibrous adsorbent for the removal of Cu ²⁺ , Co ²⁺ and Fe ²⁺ from aqueous solutions	10
17	Industrial & Engineering Chemistry Research	Enhanced removal of Pb ²⁺ , Cu ²⁺ and Cd ²⁺ by aminofunctionalized magnetite/kaolin clay	10
18	Main Group Chemistry	Are Graphene Family Materials truly good bacteria adsorbents? The critical evaluation of their bio-activity and bio-adsorptive properties in relation to the nano-Al ₂ O ₃ used as an competitive adsorbent	10
19	Nutrition and Food Science	Quality and safety assessment of cow's milk in different regions of Mathura city	10
20	Food and Nutritional Disorders - SciTechnol	Studies on Effect of A. niger on Physiological Weight Loss and biochemical Changes in Black Mould Rot Diseased Onion	10
2017			
21	Journal of Food Science	HDPE Packaging Performance for Protecting Milk Quality in a Retail Dairy Case with LED or Fluorescent Lighting	10
2018			
22	Desalination and water treatment	Enhanced Adsorption of Cu ²⁺ , Ni ²⁺ , Cd ²⁺ and Zn ²⁺ ions onto Physico-Chemically Modified Agricultural Waste: Kinetics, Isotherm and Thermodynamic Studies	10
23	Environmental Science Nano	Influence of the modification of the antimicrobial Ti ₃ C ₂ MXene with ceramic oxide and noble metal nanoparticles on biocidal properties and ecotoxicity examined with green algae and higher plants	10
24	Journal of Photochemistry and Photobiology A Chemistry	UV-photolysis of Chlorazol Black in aqueous media: Process intensification using acetone and evidence of methyl radical implication in the degradation process	10

		UV-LED photoreactor for real-time monitoring and its application for photocatalytic degradation of salicylic acid and methylene blue by ZnO	
25	Journal of Physics and Chemistry of Solids	SYNTHESIS AND CHARACTERIZATION OF A NOVEL HYDRIDE POLYMER P-DSBT/ZnO NANO-COMPOSITE FOR OPTOELECTRONIC APPLICATIONS	
26	Journal of Alloys and Compounds	Fabrication of g-C ₃ N ₄ /Ag ₃ PO ₄ -H ₂ O ₂ heterojunction system with enhanced visible-light photocatalytic activity and mechanism insight	10
2019			
27	Industrial Crops and Products	Sustained Release of Microfibrillated Cellulose Aerogel-Essential Oil hybrid system for Fresh Food preservation	10
28	International Journal of Energy Research	Synthesis and Evaluation of Novel TiO ₂ -based Self-cleaning Coating Layer for Buildings	10
29	Journal of Nanoscience and Nanotechnology	Evaluation of ZnO/carbon xerogel composite as a photocatalyst for solar and visible light degradation of the Rhodamine B dye	10
30	Journal of Alloys and Compounds	Solvothermal synthesis of Z-schem AgIn₅S₈/Bi₂WO₆ nanoheterojunction with excellent performance for photocatalytic degradation and Cr(VI) reduction Face-to-face BiOCl/BiO₂-x heterojunction composites with highly efficient charge separation and photocatalytic activity Fabrication of g-C₃N₄/Ag₃PO₄-H₂O₂ heterojunction system with enhanced visible-light photocatalytic activity and mechanism insight Optimal synthesis of platinum-free 1D/2D CdS/MoS₂ (CM)heterojunctions with improved photocatalytic hydrogen production performance High-efficiency carrier separation heterostructure improve the photocatalytic hydrogen production of sulfide Nitrogen-deficient modified P-Cl co-doped graphitic carbon nitride with enhanced photocatalytic performance Construct high efficiency carrier separation heterostructure to improve photocatalytic hydrogen production of sulfide	10
31	Molecules	Crosslinked Nanocomposite Sodium Alginate Based 2 Membranes with Titanium Dioxide for the 3 Dehydration of Isopropanol by Pervaporation	10
2020			
32	CyTA Journal of Food	The influence of sage and hemp oils addition to gelatinbased edible coating on the quality features of pork	10
33	Hepatobiliary Pancreatic Disease International	Modern advancements in the classification of gallstones: A viewpoint	10
34	Journal of Water Process Engineering	Defluoridation of water using anatase titanium dioxide nano-powder loaded 3D printed model devise	10
35	Journal of Alloys and Compounds	2D β-NiS as electron harvester anchors on 2D ZnIn₂S₄ for boosting photocatalytic hydrogen production A α-Fe₂O₃/rGO Magnetic Photocatalyst: Enhanced Photocatalytic Performance Regulated by Magnetic Field	10
36	Nanomaterials	Effect of Water and Glycerol in Deoxygenation of 2 Coconut Oil over Bimetallic NiCo/SAPO-11 3 Nanocatalyst under N ₂ Atmosphere	10
37	Polymers	Novel mixed matrix sodium alginate-fullerenol 2 membranes: development, characterization and study 3 in pervaporation dehydration of isopropanol Polyacrylonitrile Nanofiber Membrane modified 2 with Ag/GO Composite for Water Purification 3 System	10
38	RSC Advances	A Systematic Review on Transformation, Uptake and Interactions of Metal/Metal-Oxide Based Nanoparticles with Plants and Impacts: Insights into Phyto-Nano Interface Effects of different TiO₂ nanoparticles concentrations on the physical and antibacterial activities of chitosan-based coating film	10
2021			

39	Journal of Alloys and Compounds	Preparation of 3D grid structure rGH/ α -Ag ₃ VO ₄ /GOQDs and its catalytic performance under visible light	10
		Evaluation of three-dimensionally ordered macroporous LaFe _{1-x} CoxO ₃ perovskites and their performance for catalytic oxidation of methane	
		Fluorinated, Ta ⁴⁺ doped and carbon-coated tantalum-based oxides via topological transformation from (NH ₄) ₂ Ta ₂ O ₃ F ₆ mesocrystals with enhanced photocatalytic performance	
		Visible light boosted degradation of methyl orange and methylene blue dyes over Bismuth (Bi ₂ O ₃) and Cerium (CeO ₂) Nanosheets	
40	Nanomaterials	Development of an innovative and green method to obtain nanoparticles from carbon-based waste ashes	10
2022			
41	Journal of Alloys and Compounds	Co ₃ O ₄ nanosheet hybridized with silver nanospecies affording synergetic long-acting antimicrobial and catalytic degradation activity	10
42	Materials Today Communications	Evaluation of three-dimensionally ordered macroporous LaFe _{1-x} CoxO ₃ perovskites and their performance for catalytic oxidation of methane	10
Total 3.5.1.			420

Anexele 4.1-4.42 sunt incluse in Anexa doveditoare – Anexa 4 – Recenzii ISI

3.5.2. BDI

Nr	revista	articolul	Indicator
2012			
1	International Journal of Agricultural Sciences	Combining Ability for Fruit Worm Resistance in Some Commercially Grown Tomatoes in Parts of North Eastern Nigeria	5
		Effect of menthol absorption by packaging material on the quality of yogurt drink during storage time	
2	International Journal of Biochemistry and Biotechnology	Biodegradation of linear alkylbenzene sulfonate (LAS) and alkylbenzene sulfonate (ABS) by <i>Pseudomonas aeruginosa</i> bacteria	5
3	International Journal of Medicinal Plant Research	Watermelon lycopene; an exclusive treatise	5
4	International Research Journal of Plant Science (IRJPS)	Impact of fertilizer types on yield and quality of tomato (lycopersicon lycopersicum) varieties in Ogbomoso, South West Nige	5
2013			
5	International Journal of Agricultural Sciences	Antagonistic activity of plant growth promoting rhizobacteria isolated from tomato rhizosphere against soil borne fungal plant pathogens	5
6	International Journal of Biochemistry and Biotechnology	Metal Concentration in Plant Tissues of <i>Jatropha curcas</i> L grown in crude oil contaminated soil	5
7	Topclass journal of agricultural research	Response of fennel plants to organic and biofertilizer in replacement of chemical fertilization	5
2014			
8	International Journal of Plant Physiology and Biochemistry	The intensity of respiration in germinating seeds of plants in conditions of salt stress	5
9	International Research Journal of Plant Science	Effects of the Aqueous Fruit Extract of <i>Solanum macrocarpum</i> L., α -solanidine and Standard Lipid Lowering Agents on Biochemical Kidney Function of Hyperlipidemic Rats Administered Triton-X Orally for 7 Days	5
10	Pacesetter Journal of Agricultural Science Research	Characterization of Dairy Cattle Production Systems in Debrework District, Amhara Regional State, Ethiopia	5
2015			
11	British Journal of Applied Science & Technology	Synthesis, characterization and in vitro cyto toxicity assessment of eggshell-derived β -CaSiO ₃ nano biomaterial	5
2016			
12	International Journal of Agricultural Policy and	Do farming rural households benefit from high food prices? Panel evidence from rural households in Ethiopia	5

	Research		
2017			
13	Microbiology Research International	Effect of n-hexane and water extracts of cashew nuts on some pathogenic organisms obtained from general out patients	5
2018			
14	Analele Universitatii Galati	Modeling and optimization of ultrasound-assisted extraction of natural antioxidant, hplc-esi-ms analysis from prickly pear (opuntia ficus-indica) seeds	5
2020			
15	Chemistry Journal of Moldova	Sensitized photolysis of thioglycolic acid in aquatic environment	5
Total 3.5.2			75
Total 3.5.			495

3.6. Referent in comisii de doctorat

Nr	Detalii	Indicator
1	Referent in comisia de doctorat a studentei Xiaohui Hunag sustinuta in cadrul Universitatii din Camerino Italy	10
Total 3.6		10

3.7. Membru in organizatii

3.7.5. Consilii si organizatii in domeniul educatiei si cercetarii

Nr		Indicator
1	Membra a Consiliului Facultatii de Stiinte din anul 2016- Universitatea Tehnica din Cluj Napoca	10
2	Membra a Senatului Universitatii Tehnica Cluj Napoca din 2020	
Total 3.7.5.		10
Total 3.7.		10
TOTAL A.3.		1933.68

Data
1.08.2026

Prof.dr. Anca Peter