

Activitatea de cercetare

Conf. dr. Anca Peter

Centralizator

Nr.	Tip activitate	Număr poziții
1	Cărți și îndrumătoare	9
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1. Cărți și îndrumare de laborator și aplicații

Nr.	Autori	Titlu	Editura
1	Anca Peter	<i>Principii și metode clasice și moderne de conservare a alimentelor</i>	Editura U.T.Press Cluj Napoca, ISBN 978-606-737-220-5, 127 p, 2017
2	Camelia Nicula, Anca Peter	<i>400 de itemi grila pentru biochimie</i>	Editura Risoprint Cluj Napoca, ISBN: 978-973-53-1449-1, 71p., 2014
3	Anca Peter, Camelia Nicula	<i>Chimia compusilor cu funcțiuni multiple prezenti in alimente</i>	Editura Risoprint Cluj Napoca, ISBN: 978-973-53-0530-7, 201 p, 2011
4	Anca Peter, Camelia Nicula, Adriana Ambrus	<i>Chimia alimentelor - caiet de laborator pentru studenti</i>	Editura Risoprint Cluj Napoca, ISBN: 978-973-53-0507-9, 83 p., 2011
5	Anca Peter, Virginia Danciu	<i>Aerogeluri pe baza de TiO₂ cu aplicatii la depoluarea mediului</i>	Editura Risoprint, Cluj-Napoca, ISBN: 978-973-53-0353-2, 158 p, 2010
6	Adriana Ambruș, Anca Peter, Claudia Drinkal	<i>Lucrări practice de chimie organică</i>	Editura Risoprint, Cluj Napoca, ISBN: 973-656-517-3, 104 p., 2004
7	Camelia Varga, Anca Peter, Adriana Ambruș, Ioana Dunca	<i>Lucrări practice de biochimie, partea a II-a</i>	Editura Risoprint, Cluj Napoca, ISBN: 973-656-594-3, 116 p, 2004
8	Camelia Varga, Anca Peter, Adriana Ambruș, Ioana Dunca,	<i>Lucrări practice de biochimie, partea I</i>	Editura Risoprint, Cluj Napoca, ISBN: 973-656-503-3, 94 p, 2003
9	G. Oprea, A.Peter, C. Varga, I. Dunca, C. Mihali	<i>Indrumator pentru lucrari practice de chimie fizica si coloidala</i>	Ed. Risoprint, Cluj Napoca, ISBN: 973-751-384-3, 159 p., 2006

2. Articole publicate in reviste ISI

Nr.	Autori	Titlu
1	Anca Peter, Camelia Nicula, Leonard Mihaly Cozmuta, Anca Mihaly Cozmuta	An efficient and innovative method to preserve the harvested plums during storage, Journal of Food Processing and preservation, 2017, DOI: 10.1111/jfpp.13398, acceptat pentru publicare
2	Anca Peter, Anca Mihaly-Cozmuta, Camelia Nicula and Leonard Mihaly-Cozmuta	Assessment of TiO ₂ photoactivity on the lead removal: kinetic and mechanistic processing, Water Science and technology, DOI: 10.2166/wst.2017.133, (2017)
3	Anca Peter, Anca Mihaly-Cozmuta, Camelia Nicula, Leonard Mihaly-Cozmuta, Agnieszka Jastrzębska, Andrzej Olszyna, Lucian Baia	UV Light-Assisted Degradation of Methyl Orange, Methylene Blue, Phenol, Salicylic Acid, and Rhodamine B: Photolysis Versus Photocatalysis, Water Air Soil Pollut (2017) 228: 41. doi:10.1007/s11270-016-3226-z
4	A. Mihaly Cozmuta, A. Peter, C. Nicula, L. Mihaly Cozmuta	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> (2016), DOI: 10.1002/pts.2269
5	A. Mihaly Cozmuta, L. Mihaly Cozmuta, A.	Effect of monochromatic Far-Red light on physical-nutritional-

	Peter , C. Nicula, Z. Vosgan, L. Giurgiulescu, A. Vulpoi, M. Baia	microbiological attributes of red tomatoes during storage, <i>Scientia Horticulturae</i> 211 (2016) 220–230
6	A. Peter , L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, C. Nicula, W. Ziemkowska, D. Basiak, V. Danciu, A. Vulpoi, L. Baia, A. Falup, G. Craciun, A. Ciric, M. Begea, C. Kiss, D. Vatuiu	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> 197 (2016) 790–798.
7	A. Mihaly Cozmuta, A. Peter , L. Mihaly Cozmuta, 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. <i>Chemical and microbiological investigations, Packaging technology and science</i> , 28, 271–284 (2015).
8	<u>A. Mihaly Cozmuta, A. Turila, R. Apiok, A. Ciocian, L. Mihaly Cozmuta, A. Peter, C. Nicula, N. Galić, T. Benković</u>	Preparation and Characterization of Improved Gelatin Films Incorporating Hemp and Sage Oils, <i>Food Hydrocolloids</i> , 49, 144-155 (2015).
9	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, <i>Journal of Alloys and Compounds</i> 648 (2015) 890-902.
10	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, <i>Chemical Papers</i> 69 (6) 839–855 (2015).
11	I. Lázár, J. Kalmár, A. Peter , A. Szilágyi, E. Gyori, 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, <i>Applied Surface Science</i> 356 (2015) 521–531
12	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, <i>Journal of Food Process Engineering</i> , 37(6), 596-608 (2014).
13	R. Apan, A. Mihaly Cozmuta, A. Peter , C. Nicula, L. Mihaly Cozmuta,	Nano food packages: from food preservation efficiency no consumer legal protection, <i>Amfiteatru Economic</i> , XVI(36), 397-415 (2014).
14	E.N.Bakatula, E.M. Cukrowska, I.M. Weiersbye, L. Mihaly-Cozmuta, A. Peter , H. Tutu,	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> , <i>Journal of Geochemical Exploration</i> 144, 492–503 (2014).
15	A. Peter , L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, C. Nicula, L. Barbu Tudoran, A. Vulpoi, L. Baia	Photocatalytic Efficiency of Zeolite-Based TiO ₂ Composites for Reduction of Cu (II): Kinetic Models, <i>International Journal of Applied-Ceramic Technology</i> , 11(3), 568-581 (2014).
16	A. Peter , L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, C. Nicula, L. Barbu Tudoran, L. Baia	Efficiency of Cu/TiO ₂ to Remove Salicylic Acid by Photocatalytic Decomposition: kinetic modeling, <i>Materials Technology</i> , 29(3), 129–133 (2014).
17	L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, A. Peter , C. Nicula, H. Tutu, D. Silipas, E. Indrea,	Adsorption of heavy metal cations by Na-clinoptilolite: Equilibrium and selectivity studies, <i>Journal of Environmental Management</i> 137, 69-80 (2014).
18	A. Peter , L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, C. Nicula, E. Indrea, H. Tutu	Calcium and ammonium ion-modification of zeolite amendments affects the metal-uptake of <i>Hieracium piloselloides</i> on a dose-dependent way, <i>Journal of Environmental Monitoring</i> , 14, 2807-2814 (2012).
19	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 , <i>International Journal of Food Science and Technology</i> , 47(7), 1448-1456 (2012).
20	A. Mihaly Cozmuta, L. Bretan, L. Mihaly Cozmuta, C. Nicula, A. Peter	Lead traceability along soil-melliferous flora-bee family-apiary products chain, <i>Journal of Environmental Monitoring</i> , 14(6), 1622-1630 (2012).
21	M. Marian, A. Peter , L. Mihaly-Cozmuta, E. Bakatula	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> , 7(1), 231 - 237 (2012).
22	L. Mihaly Cozmuta, A Mihaly Cozmuta, A Peter , C Nicula, E Bakatula Nsimba and H Tutu	The influence of pH on the adsorption of lead by Na-clinoptilolite: Kinetic and equilibrium studies, <i>Water SA</i> , 38(2), 269-278 (2012).
23	A Peter , E Indrea, A Mihaly-Cozmuta, L Mihaly-Cozmuta, C Nicula, H Tutu, E Bakatula,	Dual efficiency of nano-structured TiO ₂ /zeolite systems in removal of copper (II) and lead (II) ions from aqueous solution under visible light, <i>AIP Conference Proceedings</i> , 1425, 139-143. (2012)
24	A. Peter , C. Nicula, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, E. Indrea, V. Danciu, H. Tutu, E. Bakatula Nsimba,	Efficiency of amendments based on zeolite and bentonite in reducing the accumulation of heavy metals in tomato organs (<i>Lycopersicon esculentum</i>) grown in polluted soils, <i>African journal of agricultural research</i> , 6(21), 5010-

		5023 (2011).
25	L. Baia, L. Diamandescu, L. Barbu-Tudoran, A. Peter , G. Melinte, V. Danciu, M. Baia	Efficient dual functionality of highly porous nanocomposites based on TiO ₂ and noble metal particles, <i>Journal of Alloys and Compounds</i> , 509, 2672-2678 (2011).
26	A. Peter , M. Marian, C. Nicula, L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, E. Indrea,	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> , 56(9), 847-852 (2011).
27	A. Peter , L. Baia, M. Baia, E. Indrea, F. Toderas, V. Danciu, V. Cosoveanu, L. Diamandescu	Porous Au-TiO ₂ aerogels nanoarchitectures for photodegradation processes, <i>Journal of Optoelectronics and Advanced Materials</i> , 12 (5), 1071-1077 (2010).
28	C. Varga (Nicula), M. Marian, A. Peter , D. Boltea, L. Mihaly-Cozmuta, E. Nour	Strategies of heavy metal uptake by <i>Phaseolus vulgaris</i> seeds growing in metalliferous and non-metalliferous areas, <i>Studia Universitatis Babes-Bolyai, Chemia</i> , LIV(3), 223-234 (2009).
29	A. Peter , M. Baia, F. Toderas, M. Lazar, L. Barbu-Tudoran, V. Danciu	Photo-catalysts based on gold-titania composites, <i>Studia Universitatis Babes-Bolyai, Chemia</i> , LIV(3), 161-171 (2009).
30	L. Baia, M. Baia, A. Peter , V. Cosoveanu, V. Danciu	Evaluating the thermal treatment parameters effect on the anatase nanocrystalites size of titania aerogels, <i>J. Optoelectron. Adv. Mater.</i> 9(3), 671-674 (2007).
31	A. Peter , I. C. Popescu, E. Indrea, P. Marginean and V. Danciu	The influence of the heat treatment on the photoactivity of the TiO ₂ -SiO ₂ aerogels, <i>Studia Universitatis Babes-Bolyai, CHEMIA</i> , XII(3), 105-111 (2007).
32	L. Baia, A. Peter , V. Cosoveanu, E. Indrea, M. Baia, J. Popp, V. Danciu,	Synthesis and nanostructural characterization of TiO ₂ aerogel for photovoltaic devices, <i>Thin Solid Films</i> , 511-512, 512-516 (2006).

3. Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale (BDI)

Nr.	Articol
1	A. Mihaly Cozmuta, L. Mihaly Cozmuta, A. Peter , C. Nicula, L. Crisan. (2016) The comparative effects of far-red light and UV-C light on some physical-chemical-microbiological attributes of the red bell peppers (<i>Capsicum annuum L</i>) during storage, <i>Analele Universitatii din Craiova, Section: Horticulture and Food Products Processing Technology</i> , vol XXI (LVII), 321-330.
2	Peter A. , Nicula C., Kovacs E., Mihaly-Cozmuta L., Mihaly-Cozmuta A. (2016) Influence of lactic acid addition on color and chemical properties of fresh prepared orange juice, <i>Analele Universitatii din Craiova, Sections: Horticulture and Food Products Processing Technology</i> , vol XXI (LVII), 349-354.
3	A. Mihaly Cozmuta, L. Mihaly Cozmuta, A. Peter , C. Nicula, L. Crisan, A. Vulpoi, M. Baia (2016). The influence of far-red light on attributes of green bell pepper fruits (<i>Capsicum annuum L.</i>) during storage. <i>The Annals of the University Dunarea de Jos of Galati, Fascicle VI – Food Technology</i> , online: http://www.ann.ugal.ro/tpa/ft_2016_no_2.htm
4	A. Mihaly Cozmuta, L. Mihaly Cozmuta, A. Peter , C. Nicula (2016). The comparative effect of Far-Red light and UV-C light on some physical-chemical attributes in red bell peppers (<i>Capsicum annuum L</i>) during storage. <i>Analele Universității din Oradea, Fascicula Biologie</i> , XXIII(2), 72-78.
5	F. D. Bora, A. Donici, C. Voica, T. Rusu, C. Cimpoi, C. Nicula, A. Peter , C.I. Bunea, N. Pop, D.E. Mihăiescu, 2016, Inductively coupled plasma-mass spectrometry (ICP-MS) characterization of some white wines from Dealu Bujorului Vineyard by their mineral content, <i>AAB Bioflux Advances in Agriculture & Botany</i> , 8(3), 156-175.
6	A. Peter , D. Tegla, L. Giurgulescu, A. Mihaly Cozmuta, C. Nicula, L. Mihaly Cozmuta, I. Vagelas (2015). Development of Ag/TiO ₂ -coated food packaging film and its role in preservation of green lettuce during storage. <i>Carpathian Journal of Food Science and Technology</i> , 7(4), 88-96.
7	C. Nicula, A. Peter , L. Mihaly-Cozmuta, A. Mihaly-Cozmuta (2013). The uptake of heavy metals in <i>Phaseolus vulgaris</i> and <i>zea mays</i> seeds harvested from polluted and unpolluted areas. <i>Carpathian Journal of Food Science and Technology</i> , 5(1-2), 1-8.
8	A. Peter , A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, C. Nicula (2013). Nanosensor based on TiO ₂ for detection of oxygen in damaged vacuum packages. <i>Carpathian Journal of Food Science and Technology</i> , 5(1-2), 9-12.
9	C. Nicula, M. Sisestean, A. Mihaly-Cozmuta, A. Peter , L. Mihaly-Cozmuta, Nitrate and nitrite content in various types of cucumbers and options to reduce it, <i>Carpathian Journal of Food Science and Technology 2013</i> , 5(1-2), 36-44.
10	A. Mihaly Cozmuta, A. Conea, A. Peter , A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, C. Nicula, Study the influence of work parameters on the leacheability of mineral elements into the coffee infusion, <i>Carpathian Journal of Food Science and Technology 2013</i> , 5(1-2), 23-35.
11	A. Peter , L. Roatis, C. Nicula, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta (2012). Combined use of paper or LDPE and natural extracts from <i>Satureja hortensis</i> and <i>Allium sativum</i> for the preservation of the summer salame. <i>Carpathian Journal of Food Science and Technology</i> , 4(2), 18-27.

12	C. Nicula, D. Lungu, A. Peter , A. Mihaly-Cozmuta, L. Mihaly-Cozmuta (2012). Curd cheese stored in modified packaging with extract of garlic and thyme: variation of some physico-chemical parameters. <i>Carpathian Journal of Food Science and Technology</i> , 4(2), 1-8.
13	A. Peter , L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, C. Nicula, Significance of the natural zeolite and modified with ammonium ions in reducing the uptake of lead, zinc, copper and iron ions in <i>Hieracium aurantium</i> and <i>Rumex acetosella</i> grown on tailing ponds, <i>Analele Universitatii din Oradea, Fascicula Biologie</i> , 2011, Tom. XVIII, Issue: 2, 128-135.
14	C. Nicula, A. Peter , L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, E. Indrea, V. Danciu, The influence of the type and concentration of amendments on the growth dynamics of <i>Phaseolus vulgaris</i> L., <i>Analele Universitatii din Oradea, Fascicula Biologie</i> , 2011, Tom. XVIII, Issue: 2, 111-119
15	C. Nicula, M. Marian, L. Mihaly Cozmuta, A. Peter , A. Mihaly Cozmuta (2010). Adaptive mechanisms of <i>Phaseolus vulgaris</i> and <i>Zea mays</i> seeds grown in agroecosystem prone to pollution with heavy metals. <i>Analele Universitatii din Oradea, Fascicula Biologie</i> , XVII/1, 152-157.
16	A. Peter , D. Bregnya, L. Mihaly-Cozmuta, A. Mihaly Cozmuta, C. Nicula (2010). Use of TiO ₂ photocatalyst as alternative means for the cottage cheese preservation. <i>Carpathian Journal of Food Science and Technology</i> , 2(2), 50-58.

4. Lucrari prezentate/publicate la conferinte stiintifice internationale

- 1) **Anca Peter**, Anca Mihaly Cozmuta, Leonard Mihaly Cozmuta, Camelia Nicula, Preparation, Characterization and Applications of Nanomaterials based on Titania in Food Packaging, L4, 28 iunie -6 iulie 2014, pag. 9, 14th International Symposium and Summer School on Bioanalysis, Book of Abstracts, Smolenice, Bratislava, Slovakia, <http://www.analytika.sk/summerschool2014/book.html>
- 2) Anca Mihaly Cozmuta, **Anca Peter**, Leonard Mihaly Cozmuta, Camelia Nicula, Calin Cadar, *Active packaging system based on Ag/TiO₂ nano-composite applied in preserving the wheat bread during storage. I. Changes in physical parameters*, The 4th International Conference on Food Chemistry, Engineering & Technology, May 30 – 31, 2013, Timișoara- Romania, pag. 34.
- 3) 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
- 4) **A. Peter**, E. Indrea, L. Baia, V. Cosoveanu, V. Danciu, Photocatalytic activity of the TiO₂ based aerogels: TiO₂-SiO₂ versus noble metal-TiO₂ composites, 9th International Symposium of the Romanian Catalysis Society RomCat 2010, Book of Abstracts, p. 97-98, June 23-26 Iasi, Romania,
- 5) **Anca Peter**, Monica Marian, Statistical aspects concerning allelopathic effect between different species of plants, 7th International Conference on Applied Mathematics, ICAM 2010, 1-4 september, Baia Mare, Romania, Book of Abstracts, p. 77. oral presentation.
- 6) **A. Peter**, L. Baia, V. Cosoveanu, M. Baia, D. Constantin, E. Indrea, I. C. Popescu and V. Danciu, Influence of Si Content and Thermal Treatment Temperature on Structural and Photocatalytic Properties of Titania-Silica Aerogels, *J. of Optoelectronics and Adv. Mat.-Symposia*, 1(1), 2009, 6.
- 7) Emil Indrea, **Anca Peter**, Danut T. Silipas, Simina Dreve, Ramona-Crina Suci, Marcela Corina Rosu, Virginia Danciu, Veronica Cosoveanu, Structural characterisation of binary SiO₂TiO₂ 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.
- 8) **A. Peter**, L. Baia, V. Cosoveanu, M. Baia, D. Constantin, E. Indrea, I. C. Popescu, V. Danciu, Influence of Si Content and Thermal Treatment Temperature on Structural and Photocatalytic Properties of Titania-Silica Aerogels, *The 5th Conference on Condensed Matter Physics*, July, 16-18, 2008, Timișoara, Romania, P1-P35, 54.
- 9) **Peter**, L. Baia., F. Vasiliu, L. Diamandescu, M. Baia, V. Cosoveanu, I.C. Popescu. M. Feder, V. Danciu, *Synthesis, Morpho-Structural and Photocatalytic Analysis of TiO₂ Aerogel-Au Colloidal Particle Composites*, The 5th Conference „New Research trends in material science”, ARM-5, proceeding, vol. III, sept. 5-7, Sibiu, Romania, 2007, p.799.
- 10) **Peter Anca**, Coșoveanu Veronica, Mărginean Petre, Moldovan Zaharie, Indrea Emil, Danciu Virginia, *Environmental Applications of TiO₂ Aerogels*, Sustainability for Humanity & Environment in The Extended Connection Field Science-Economy-Policy, vol.1, Editura Politehnică, Timișoara, 2005, p. 91-94.
- 11) Baia Lucian, **Peter Anca**, Coșoveanu Veronica, Indrea Emil, Baia Monica, Popp Jurgen, Danciu Virginia, *Synthesis and nanostructural characterization of TiO₂ aerogel for photovoltaic devices*, Thin Films and Nanostructure Materials for Photovoltaics, Strasbourg, 2005, p. 57-62.
- 12) Danciu Virginia, Trandafir Viorica, Baia Lucian, Coșoveanu Veronica, **Peter Anca**, Baia Monica, Indrea Emil, *Synthesis and Characterization of Novel Titania,Silica, Collagen Aerogels Based Composites for Biomedical Applications*, Euromat '05, Praga, 2005, p. 87.
- 13) Baia Lucian, Trandafir Viorica, **Peter Anca**, Coșoveanu Veronica, Baia Monica, Indrea Emil, Danciu Virginia, *Synthesis, morphological and structural characterization of new collagen biocomposites for medical applications*, 11-th European Conference on Application of Surface and Interface Analysis, Viena, 2005, p.192.
- 14) Baia Lucian, **Peter Anca**, Coșoveanu Veronica, Baia Monica, Indrea Emil, Danciu Virginia, *Structural and morphological properties of dye sensitized TiO₂ aerogel thin films obtained by sol-gel synthesis followed by supercritical drying*, 11-th European Conference on Application of Surface and Interface Analysis, Viena, 2005, 193.

- 15) **A. Peter**, V. Danciu, V. Cosoveanu, Z. Moldovan, E.Indrea, G.Nutiu, L. Baia, I. Rosu, *TiO₂ Aerogel-Mediated Heterogeneous Photocatalysis for Wastewater Decontamination*, Volumul Conferintei *INNOVATIONS IN THE FIELD OF WATER SUPPLY, SANITATION AND WATER QUALITY MANAGEMENT*, Bucuresti, Romania, 2005, p.103-112.

5. Brevete de inventie

5.1. International

Nr.	Brevet
1	A. Peter , C. Nicula, A. Mihaly Cozmuta, L. Mihaly Cozmuta and other 23 inventors, <i>Process for obtaining nanocomposite food packages</i> , - International patent - 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,

5.2. Nationale

1	A. Peter , C. Nicula, A. Mihaly Cozmuta, L. Mihaly Cozmuta si alti 23 inventatori, <i>Procedee de obtinere a unor ambalaje alimentare inteligente</i> , - nr. inregistrare a2015 00256 din 8.04.2015 la OSIM Romania, solicitanti: Technical University of Cluj, Babes-Bolyai University of Clu, ICA R&D, L&G Consulting, Warsaw University of Technology Poland, <i>sub evaluare</i> .
2	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. Granturi/proiecte castigate prin competitie

Nr.	Tip	Denumire	Director/me mbru
1	International	Titlu: <i>STRUCTural and PHOtochemical investigations of a nanosized composite as active component of paper based PACKage designed for food applications (STRUCT-PHO-PACK)</i> Cooperation Protocols of the applicant institution in Romania with JINR ¹ , or Cooperation Agreement with JINR for a Scientific Programme 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: 2016-2017 Parteneri: Universitatea Tehnica Cluj Napoca Romania si Joint Institute for Nuclear Research Dubna Rusia Buget: 20000 dolari - contract in curs de semnare	coordonator Romania
2	International	Titlu: Smart functions of packages containing nano-structured materials in food preservation – SMARTPACK – 7-065 / 26.09.2012; Pagina web: http://chimie-biologie.ubm.ro/smartpack/index.html Coordonator: Sef lucrari dr. Anca Peter Membri: Leonard Mihaly Cozmuta, Anca Mihaly Cozmuta, 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	director
3	National	Titlul proiectului: Materiale avansate nanostructurate de tip aerogel cu aplicatii la depoluarea mediului prin fotocataliza heterogena, cod 44, tema 15/2005. Colectivul de cercetare: Peter Anca - director de proiect, Danciu Virginia, Cosoveanu Veronica 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.	director
4	International	Titlul proiectului: <i>FOOD CHAIN 4 EUROPE</i> Durata: 2017-2022	membru

		<p>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 Catolica 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.</p>	
5	International	<p>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, Johhanesburg – University South Africa</p>	membru
6	National	<p>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 Giurgiulescu, 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</p>	membru
7	National	<p>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 Giurgiulescu, 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</p>	membru
8	National	<p>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 - Universitate a 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</p>	membru
9	National	<p>Titlul proiectului: <i>Elaborarea hartilor de hazard si evaluarea calitatii mediului in</i></p>	membru

		<p>arealele miniere din judetele Maramures si Satu Mare utilizand sistemele informationale geografice - SIG</p> <p>Coordonator consortiu: dr. Driga Basarab - IGAR</p> <p>Director de proiect UBM: prof.dr.ing. Anca Mihaly Cozmuta</p> <p>Membri: Leonard Mihaly Cozmuta, Camelia Varga (Nicula), Anca Peter, Vasile Viman, Denuț Ioan, Bud Ioan, Spatar Cornel, Gheorghe Vatca</p> <p>Anul: 2005-2008</p> <p>Sursa de finantare: CNCISIS</p> <p>Parteneri: Institutul de Geografie al Academiei Romane, Institutul de Instrumentatie Analitica Cluj Napoca, Geoproiect Bucuresti, Universitatea de Nord Baia Mare, FSM Cluj Napoca</p> <p>Buget: Total 179.860 RON</p>	
10	National	<p>Titlu proiect: Aplicarea integrata a bazelor de date pentru adoptarea si restructurarea factorilor naturali si artificiali de protectie a mediului in Ferme Zootehnice-AIBD</p> <p>Director de proiect: prof.dr.ing. Anca Mihaly Cozmuta – Universitatea de Nord Baia Mare</p> <p>Membri: Leonard Mihaly Cozmuta, Camelia Varga (Nicula), Anca Mihaly Cozmuta, Oprea Gabriela, Vasile Viman, Gheorghe Vatca, Anca Peter, Flavia Maries, Ioana tascu, Corina Dragos, Florin Boltea</p> <p>Anul: 2005-2008</p> <p>Sursa de finantare: Ministerul Educatiei si Cercetarii prin Programul Cercetare de Excelenta - CALIST</p> <p>Parteneri: USAMV Cluj Napoca, Universitatea de Nord Baia Mare – Romania, Universitatea Gent Belgia, Academia de Stiinte Republica Moldova – Institutul de Zoologie</p> <p>Buget: Total 100.000 RON</p>	membru
11	National	<p>Titlul proiectului: Materiale fotocatalitice inovative aplicate la decontaminarea chimica si microbiologica a aerului din incinte, MATDECON-PN II 71-099/2007</p> <p>Colectivul de cercetare: Virginia Danciu - director de proiect, Peter Anca, Cosoveanu Veronica si altii</p> <p>Anul: 2007-2010</p> <p>Buget: Total: 840.400 RON</p> <p>Sursa de finantare: Ministerul Educatiei si Cercetarii prin Programul PN II.</p>	membru
12	National	<p>Titlul proiectului: Noi sisteme vitroase telurate si germanate cu aplicatii in telecomunicatii, NOSIVTEL-PN II 71-099/2007</p> <p>Colectivul de cercetare: Virginia Danciu - director de proiect, Peter Anca, Cosoveanu Veronica si altii</p> <p>Anul: 2007-2010</p> <p>Buget: Total: 268.028 RON</p> <p>Sursa de finantare: Ministerul Educatiei si Cercetarii prin Programul PN II.</p>	membru
13	National	<p>Titlul proiectului: Dispozitive fotovoltaice avansate pe baza de straturi nanocristaline de TiO2 sensibilizat, NANOSSENS 243(407)2004</p> <p>Colectivul de cercetare: Virginia Danciu - director de proiect, Nicoară Adrian, Baia Lucian, Baia Monica, Peter Anca, Coteț Cosmin</p> <p>Anul: 2004-2006</p> <p>Buget: Total: 44.000 RON</p> <p>Sursa de finantare: Ministerul Educatiei si Cercetarii.</p>	membru
14	National	<p>Titlul proiectului: Biomateriale pe baza de noi structuri de aerogeluri formate din polimeri naturali, TiO2, silicați, cu aplicații dirijate, TIABIS 205(403)2004</p> <p>Colectivul de cercetare: Virginia Danciu - director de proiect, Șimon, Coșoveanu Veronica, Marian Iuliu, Baia Lucian, Baia Monica, Peter Anca, Coteț Cosmin, Pop,</p> <p>Anul: 2004-2006</p> <p>Buget: Total: 55.000 RON</p> <p>Sursa de finantare: Ministerul Educatiei si Cercetarii.</p>	membru
15	National	<p>Titlul proiectului: Nanomateriale si filme nanostructurate pe baza de TiO₂ pentru aplicatii fotocatalitice in domeniul degradarii compusilor organici poluanti ai mediului, CEEX 23/2005</p> <p>Colectivul de cercetare: Virginia Danciu - director de proiect, Cosoveanu Veronica, Peter Anca si altii</p>	membru

		Anul: 2005-2008 Buget: Total: 225.000 RON Sursa de finantare: Ministerul Educatiei si Cercetarii.	
16	National	Titlul proiectului: <i>Tehnologii integrate pentru obtinerea de biocompozite nanostructurate cu aplicatii in medicina regenerativa a tesutului osos</i> , CEEEX 16/2005 Colectivul de cercetare: Virginia Danciu - director de proiect, Cosoveanu Veronica, Peter Anca si altii Anul: 2006-2007 Buget: Total: 162.000 RON Sursa de finantare: Ministerul Educatiei si Cercetarii.	membru

7. Citari in reviste ISI si BDI

7.1. ISI

Articolele ISI au fost citate in 115 articole ISI

7.2. BDI

Articolele BDI au fost citate in 4 articole ISI.

8. Profesor invitat

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
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9. Membru in colectivul de redactie al revistei ISI

1	Editor - <u>Carpathian Journal of Food Science and Technology</u> (http://chimie-biologie.ubm.ro /carpathian_ journal / editors. html)
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10. Recenzor pentru articole trimise spre publicare in reviste:

10.1. ISI

Nr	revista	articolul
2011		
1	Clean Soil Air Water	Photodecomposition of gaseous DMDS (a malodorous compound) by supported-TiO ₂ based catalysts homemade by green preparation
2	African Journal of Agricultural Research	Seasonal Changes of Thermocline in Northern Zone of Persian Gulf (Short Communication)
3		The Effect of Malathion (Organophosphate) and Sevin (Carbamate) Application on Radish (<i>Raphanus sativus</i> L.) Growth
4	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
2012		
5	International Journal of Food Science & Technology	Characterisation, stability and in-vitro degradation of microcapsules containing Chinese yak (<i>Poephagus grunniens</i> L.) butter
6		Influence of adjuncts as debittering aids on the sensory properties of enzyme modified cheese-base
7	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
8	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
2013		
9	Material Letters	A relative evaluation of Dollimore-Heal and Barrett-Joyner-Halenda methods of Pore Volume Distribution (PVD) patterns of zeolites
2014		
10	International Journal of Applied Ceramic Technology	The impact of zeta potential and physico-chemical properties of TiO ₂ -based nanocomposites on their biological activity
11	International Journal of Food Science & Technology	Effect of the use of date fibres on the quality and nutritional properties of ice-cream

2015		
12	Chemical Papers	Properties of natural rubber composites with structurally different clay intercalable Surfactants
13	CLEAN - Soil, Air, Water	Green synthesis of CuONPs and their application for removal of arsenite: RSM and ANN-GA approach
14	CLEAN - Soil, Air, Water	Synthesis of complex 3D Cd ²⁺ doped-ZnS composites through a simple hydrothermal method and its optical and photocatalytic properties
15	Desalination and Water Treatment	Removal of Heavy Metals from Waste Water (artificial or natural) by the Synthetic Na-P1 Zeolite from Bentonite
16	NANO	Study of various nanostructures titania with graphene composites: the preparation and photocatalytic activities
17	Surface and Coatings Technology	Enhanced photocatalytic activities of TiO ₂ -SiO ₂ nanohybrids immobilized on cement based materials for dye degradation
2016		
18	ACS Applied Materials & Interfaces	Unraveling the Multiple Effects Originating the Increased Oxidative Photoactivity of {001}-Facet Enriched Anatase TiO ₂
19	Carpathian Journal of Food Science and Technology	ANTIBACTERIAL ACTIVITY OF VARIOUS EXTRACTS FROM <i>THYMUS TRANSCAPICUS</i> AGAINST FOOD PATHOGENIC MICROORGANISMS
20	Desalination and Water Treatment	Fabrication of PES/NaX Nanocomposite nanofibrous adsorbent for the removal of Cu ²⁺ , Co ²⁺ and Fe ²⁺ from aqueous solution
21	Industrial & Engineering Chemistry Research	Enhanced removal of Pb ²⁺ , Cu ²⁺ and Cd ²⁺ by aminofunctionalized magnetite/kaolin clay
22	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 a competitive adsorbent
23	Nutrition and Food Science	Quality and safety assessment of cow's milk in different regions of Mathura city
24	Food and Nutritional Disorders - SciTechnol	Studies on Effect of <i>A. niger</i> on Physiological Weight Loss and biochemical Changes in Black Mould Rot Diseased Onion
2017		
25	Journal of Food Science	HDPE Packaging Performance for Protecting Milk Quality in a Retail Dairy Case with LED or Fluorescent Lighting

10.2 BDI

Nr	revista	articolul
2012		
1	International Journal of Agricultural Sciences	Combining Ability for Fruit Worm Resistance in Some Commercially Grown Tomatoes in Parts of North Eastern Nigeria
2		Effect of menthol absorption by packaging material on the quality of yogurt drink during storage time
3	International Journal of Biochemistry and Biotechnology	Biodegradation of linear alkylbenzene sulfonate (LAS) and alkylbenzene sulfonate (ABS) by <i>Pseudomonas aeruginosa</i> bacteria
4	International Journal of Medicinal Plant Research	Watermelon lycopene; an exclusive treatise
5	International Research Journal of Plant Science (IRJPS)	Impact of fertilizer types on yield and quality of tomato (<i>Lycopersicon lycopersicum</i>) varieties in Ogbomoso, South West Nigeria
2013		
6	International Journal of Agricultural Sciences	Antagonistic activity of plant growth promoting rhizobacteria isolated from tomato rhizosphere against soil borne fungal plant pathogens
7	International Journal of Biochemistry and Biotechnology	Metal Concentration in Plant Tissues of <i>Jatropha curcas</i> L grown in crude oil contaminated soil
8	TOPCLASS JOURNAL OF AGRICULTURAL RESEARCH	Response of fennel plants to organic and biofertilizer in replacement of chemical fertilization
2014		
9	International Journal of Plant Physiology and Biochemistry	The intensity of respiration in germinating seeds of plants in conditions of salt stress
10	International Research Journal	Effects of the Aqueous Fruit Extract of <i>Solanum macrocarpum</i> L., α -solanidine and

	of Plant Science	Standard Lipid Lowering Agents on Biochemical Kidney Function of Hyperlipidaemic Rats Administered Triton-X Orally for 7 Days
11	Pacesetter Journal of Agricultural Science Research	Characterization of Dairy Cattle Production Systems in Debremarkos District, Amhara Regional State, Ethiopia
2015		
12	<u>British Journal of Applied Science & Technology</u>	Synthesis, characterization and in vitro cyto toxicity assessment of eggshell-derived β -CaSiO ₃ nano biomaterial
2016		
13	International Journal of Agricultural Policy and Research	DO FARMING RURAL HOUSEHOLDS BENEFIT FROM HIGH FOOD PRICES? PANEL EVIDENCE FROM RURAL HOUSEHOLDS IN ETHIOPIA

Conf. dr. Peter Anca