

LIST OF REPRESENTATIVE PAPERS

I. Doctoral thesis:

Ph.D thesis: **Researches regarding the relations between coating layer structure and paper product quality**, 119 pages (2007)

Habilitation Thesis: **Modern strategies on valorization of cellulose fibres aiming to obtain the sustainable products for (bio)economy applications**, 135 pages (2018)

II. ISI Web of Science papers

1. **Petronela Nechita**, The Influence of Drying Conditions of Clay-Based Polymer Coatings on Coated Paper Properties, *Coatings* **2021**, 11, 12. <https://dx.doi.org/10.3390/coatings11010012> (FI: 2,33)(Q2)
2. **Petronela Nechita**, *The influence of coating composition on the structural and functional properties of coated paper for packaging applications*, *NORDIC PULP & PAPER RESEARCH JOURNAL*, **2020** Volume: 35, Issue: 3, Pages: 408-418, DOI: 10.1515/nppri-2020-0029 , WOS: 000575408000011
3. **Nechita P.**, Roman M., *Review on polysaccharides used in coatings for food packaging papers*, *Coatings* **2020**, 10(6), 566; <https://doi.org/10.3390/coatings10060566>(FI: 2,33)(Q2), <https://www.mdpi.com/2079-6412/10/6/566>
4. Debeleac C, **Nechita P.**, Năstac S. *Computational Investigations on Soundproof Applications of Foam-Formed Cellulose Materials*, *Polymers* **2019**, 11, 1223; doi:10.3390/polym11071223 (FI: 3,164) www.mdpi.com/journal/polymers (Q1)
5. **P. Nechita**, Ș. M.Ionescu, *Investigation on the thermal insulation properties of lightweight biocomposites based on lignocellulosic residues and natural polymers* *Journal of Thermoplastic Composite Materials*, 31 (11), 1497-1509, **2018** (FI: 0,912), <http://journals.sagepub.com/eprint/FCX6XzQaRlKzBkAuyfe7/full>;
6. **P. Nechita**, S. Năstac, *Foam-formed cellulose composite materials with potential applications in sound insulation*, *Journal of Composite Materials*, Vol. 52(6) 747-754, **2018** ; (FI: 1,613), (Q2) <https://doi.org/10.1177/0021998317714639> <http://journals.sagepub.com/impact-factor/jcm>
7. S.Năstac, C. Debeleac, **P. Nechita**, *Assessment on shock absorption properties of foam-formed low density cellulose composites* – *Acta Technica Napocensis*, Series: Applied Mathematics, Mechanics and Engineering, vol.60, Issue IV, **2017**, p.565-572, <http://www.atna-mam.utcluj.ro/index.php/Acta/article/view/934>,
8. **P. Nechita**, S. M. Ionescu, *Valorization of municipal wastewater treatment plant sludge and agro-waste in building materials with thermal insulation properties*, *Environmental Engineering and Management Journal* May **2017**, Vol.16, No. 5, 1185-1191 <http://omicron.ch.tuiasi.ro/EEMJ/> (FI: 1,008)
9. **P. Nechita**, *Active-antimicrobial coatings based on silver nano-particles and natural polymers for paper packaging functionalization*, *Nordic Pulp&Paper Research Journal* Volume 32, **2017**, Issue No. 3, p. 452-458, DOI10.3183/NPPRI-2017-32-03, (Q1) FI: 1,354, <https://www.degruyter.com/view/journals/nppri/32/3/article-p452.xml>
10. **P. Nechita**, E. Bobu, G. Parfene, R. M. Dinica, T. Balan, *Antimicrobial coatings based on chitosan derivatives and quaternary ammonium salts for packaging paper applications*, *Cellulose Chem. Technol.*, 49 (7-8), 625-632, **2015**, FI = 0,825, www.cellulosechemtechnol.ro/
11. L.Albu, G. Zăinescu, D.Deselnicu, R.R.Constantinescu, A.M.Vasilescu, **P.Nechita**, C. Sârbu – *A new concept of complexes valorisation of leather wastes* - *Materiale Plastice*, FI = 0,379, <http://www.revmaterialeplastice.ro/>, 51(1), 90 – 93, **2014**
12. **P.Nechita**, D.M.Panaitescu, *Improving the dispersability of cellulose microfibrillated structures in polymer matrix by controlling of drying conditions and chemical surface modifications*, *Cellulose Chemistry and Technology*, *Cellulose Chemistry and Technology*, **2013**, ISSN 0576-9787, FI = 0,825, www.cellulosechemtechnol.ro/

13. Johansson, C., Bras, J., Mondragon, I., **Nechita, P.**, Plackett, D., Šimon, P., Svetec, D. G., Virtanen, S., Baschetti, M. G., Breen, C., Clegg, F., and Aucejo, S., "Renewable fibers and bio-based materials for packaging applications - A review of recent developments," *BioRes.* 7(2), 2506-2552, **2012**, FI: 1,309, www.ncsu.edu/bioresources/
14. **P. Nechita**, E. Dobrin, F. Ciolacu, E. Bobu - *The biodegradability and mechanical strength of nutritive pots for vegetable planting based on lignocellulose composite materials*, - *BioResources* 5 (2), 1102-1113, **2010**, FI: 1,409, www.ncsu.edu/bioresources/
15. M.M.Codescu, E. Manta, E.A. Pătroi, W. Kappel, I. Zăpodeanu, M. Burlacu, **P. Nechita**, V. Midoni – *Securing element with ferromagnetic microwires* –*Optoelectronics and Advanced Materials – Rapid Communication*, 4 (9), 1361 – 1365, **2010**, ISSN 1842 – 6573, FI: 0,451, <http://www.journals4free.com/link.jsp?l=13673897>
16. **P. Nechita**, Elena Bobu, Florin Ciolacu, Armand Kontek - *Study of fibrous composites behaviour in hydrodynamic process of wine filtration* - *BioResources* 4 (4), 1330-1340, **2009**, ISSN 1930-2126, FI: 1,409, www.ncsu.edu/bioresources/
17. D.M.Panaitescu, D.M.Vuluga, H.Paven, M.D.Iorga, M.Ghiurea, I.Mătășaru, **P. Nechita** - *Properties of polymer composites with cellulose microfibrils* – *Molecular Crystals&Liquid Crystals*, Vol. 484, **2008**, pages 86/[452] - 98/[464], ISSN 1542-5287, FI: 0,554, <https://www.tandfonline.com/doi/full/10.1080/15421400801903502>
18. D.M.Panaitescu, **P. Nechita**, H.Iovu, M.D.Iorga, M.Ghiurea, D. Șerban – *Compozite din polipropilenă și microfibrile celulozice obținute prin tratament mecano-chimic* –*Materiale Plastice*, 44(3), **2007**, p. 195 – 198, ISSN 0025 – 5289, (FI: 0,404), <http://www.revmaterialeplastice.ro/>

ISI Proceedings

1. D.M.Panaitescu, D.M.Vuluga, H.Paven, M.D.Iorga, M.Ghiurea, I.Mătășaru, **P. Nechita** - *Properties of polymer composites with cellulose microfibrils* – IXth International Conference on Frontiers of Polymers and Advanced Materials (ICFPAM), Cracovia, 8 – 12 iulie **2007**, p.315

III. Papers indexed in International Data Bases

1. Petronela NECHITA, Electrocoagulation technique in the treatment of waste waters from paper recycling, THE ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI FASCICLE XIV MECHANICAL ENGINEERING, ISSN 1224-5615, Vol 25 No 2 (**2018**), <https://doi.org/10.35219/im.2018.2.05> [EBSCO, Gscholar]
2. **P.Nechita**, C. M. Burtea, V. Barbu, Considerations on Applying of Practical Control Methods in the Biological Treatment of Wastewaters from Paper Manufacturing, vol.No. 4, **2018**, of the Journal The Annals of "Dunarea de Jos" university of Galati. Fascicle IX, Metallurgy and materials science, <http://www.fascicula9.ugal.ro/> [EBSCO, Gscholar, DOAJ]
3. S.M. Ionescu, **P. Nechita**, *Thermo-insulating panels based on composite structures from vegetal fibres and polymeric matrix* – **2017**, *Advanced Materials Research*, Vol. 1143, p.154-159, DOI: 10.4028/www.scientific.net/AMR.1143.154 <https://www.scientific.net/AMR.1143.154> [Scientific.net]
4. S.Nastac, C. Debeleac, **P. Nechita**, *Experimental analyses of shock protection availability for low density cellulose composites*, The 40th International Conference on Mechanics of Solids, Acoustics and Vibrations, ICMSAV 2016 and The 6th International Conference on "Advanced Composite Materials Engineering", COMAT 2016, Brașov, ROMANIA, 24-25 November **2016** <http://aspekt.unitbv.ro/jspui/handle/123456789/2146>, [Dspace, Gscholar]
5. S. Nastac, **P. Nechita**, *Experimental analyses of noise mitigation characteristics for low density cellulose composites*, The 40th International Conference on Mechanics of Solids, Acoustics and Vibrations, ICMSAV 2016 and The 6th International Conference on "Advanced Composite Materials Engineering", COMAT 2016, Brașov, ROMANIA, 24-25 November **2016**, <http://aspekt.unitbv.ro/jspui/handle/123456789/2148>, [Dspace, Gscholar]

6. **P.Nechita**, *Natural Additives Used in Adsorption of Pollutants from Textile Wastewaters*, American Journal of Environmental Engineering, **2015**, 5(2): 39-42 DOI: 0.5923/j.ajee.20150502.01, <http://article.sapub.org/10.5923.j.ajee.20150502.01.html> , [Index Copernicus, CrossRef, EBSCO, Gscholar]
7. **P. Nechita**, *Studies regarding the use of natural zeolites in the industrial wastewaters treatment*, The Annals of "Dunarea de Jos" University of Galati. Fascicle IX. Metallurgy and materials science, special issue **2015**, ISSN 1453 – 083X, 64, http://www.fascicula9.ugal.ro/uploads/pdf/Cuprins_TEME_2015.pdf [EBSCO, Gscholar, DOAJ]
8. **P. Nechita**, Ș.M. Ionescu, A. Leopa, D. Anghelache, *Environmentally friendly thermal insulation materials based on lignocellulosic fibres and natural additives*, Celuloză si Hârtie, vol.64 (4), p.38, **2015**, ISSN 1220-9848 , (<http://ceprohart.ro/documente/revista/2015/Issue%204.pdf> <http://scholar.google.ro/> [Gscholar]
9. **P.Nechita**, *Lignocellulose fibres used on obtaining of insulating composite materials*, Celuloză si Hârtie, vol.64 (1), p.25, **2015**, ISSN 1220-9848, <http://ceprohart.ro/documente/revista/2015/Issue%201.pdf> , <http://scholar.google.ro/> [Gscholar]
10. **P.Nechita**, *Actual trends and research regarding the use of natural additives in the industrial wastewater treatments*, Celuloză si Hârtie, vol.63 (3), p.13, **2014**, ISSN 1220-9848 <http://ceprohart.ro/documente/revista/2014/Issue%203.pdf> <http://scholar.google.ro/>[Gscholar]
11. **P.Nechita**, S.M.Ionescu, *Biocomposites from renewable resources – a review on current trends and challenges in building energy savings*, Bulletin of the Polytechnic Institute of Iași, Section Chemistry and Chemical Engineering, **2013**, Tome LIX(LXIII), Fasc.3, ISSN 0254-7104, <http://www.ch.tuiasi.ro/0611buletin.html> http://www.ch.tuiasi.ro/pdf/cercetare/buletin/bul_ipi_2013_3.pdf [Index Copernicus]
12. **P.Nechita**, A.M.Axinte, *Fibres based packaging with biofunctional properties – a review of recent developments*, Celuloză și Hârtie, 62, 1, **2013**, p.13-22, ISSN 1220-9848, (<http://ceprohart.ro/documente/revista/2013/Issue%201.pdf> [Gscholar]
13. **P.Nechita**, R.Dinică, G. Parfene, *Some possibilities to obtain the antimicrobial paper*, Celuloză și Hârtie, 62, 2, **2013**, p.3-8, ISSN 1220-9848 <http://ceprohart.ro/documente/revista/2013/Issue%202.pdf> <http://scholar.google.ro/>[Gscholar]
14. **P. Nechita** – *Investigation and analysis of recycling potential of filtering composites based on cellulosic fibres resulted from the industrial filtration process of alimentary liquids – Journal Engineering Studies and Research – Volume 18 2012*, 2, p.77-83, <http://pubs.ub.ro/?pg=revues&rev=jesr&num=201202&vol=18&aid=3618> [Gscholar, ProQuest CSA]
15. E.Dobrin, M.Roșu, E.Drăghici, **P.Nechita** – *Evaluation of Potential Biodegradation of Materials Based on Peat and Waste of Cellulose Fibres for Use in Seedling Production – Scientific Papers. Series B. Horticulture*, Vol.LVI, 2012, ISSN 2285 – 5653: The International Conference of the University of Agronomic Sciences and Veterinary Medicine of Bucharest "Agriculture for Life, Life for Agriculture" 160 Years of Romanian Agronomic Education October 4 - 6, **2012**, Bucharest, Romania <http://horticulturejournal.usamv.ro/index.php/scientific-papers/9-articles/89-art14>, [Thomson Reuters, Cabi, Index Copernicus]
16. **P. Nechita**, D. Manea, E. Dobrin - *Recycled fibres – reinforcing elements of nutritive pots based on lignocelluloses composite materials - The 16th International Symposium in the field of pulp, Paper, Packaging and Graphics*, Zlatibor, Cigota, Serbia, June, 15 – 18, **2010**, p. 203-210, ISBN 867401267-1(<http://agris.fao.org/agris-search/search.do?recordID=RS2011000386>), [Agris, Gscholar]
17. C.M.Talașman, **P. Nechita**, D. Manea - *Kenaf -a long range raw material for the pulp and paper industry*, Celuloză si Hârtie, vol.59(1), p.36-42, (**2010**), ISSN 1220-9848, <http://ceprohart.ro/documente/revista/2010/Issue%201.pdf#page=36> [Gscholar]
18. **P. Nechita**, T. Măluțan, D. Manea - *Studies regarding the influence of separation method on physico-chemical properties of microfibrillated cellulose structures – Bulletin of the Polytechnic Institute of Iași, Section Chemistry and Chemical Engineering*, Tom LV(LIX), fasc. 2, **2009** ISSN 0254-7104, p. 55-64,

http://www.ch.tuiasi.ro/pdf/cercetare/buletin/bul_ipi_2009_2.pdf , <http://www.ch.tuiasi.ro/0611buletin.html> , [Index Copernicus]

19. R.Madjar, E.Dobrin, **P. Nechita** – *The macronutrients quantity realease from biodegradable pots used in vegetable transplant* – Proceedings of Romanian Academy, Series B, **2009**, 1, p.69-74, ISSN 1454-8267, <http://www.acad.ro/sectii2002/proceedingsChemistry/doc2009-1/art11Madjar.pdf> [Cabi, Thomson Reuters Master Journal List]

IV. Books and Chapters

1. **P.Nechita**, Chapter: *Use of Recycled Cellulose Fibers to Obtain Sustainable Products for Bioeconomy Applications* in: Generation, Development and Modifications of Natural Fibres, <https://www.intechopen.com/online-first/use-of-recycled-cellulose-fibers-to-obtain-sustainable-products-for-bioeconomy-applications>, DOI: 10.5772/intechopen.86092, **2019**
2. **P.Nechita**, Chapter 10 *Applications of Chitosan in Wastewater Treatment inn Biological Activities and Application of Marine Polysaccharides*, ISBN 978-953-51-2860-1, DOI: 10.5772/65289, Intech Open Science Croatia, **2017**, <https://www.intechopen.com/books/biological-activities-and-application-of-marine-polysaccharides/applications-of-chitosan-in-wastewater-treatment>
3. **P.Nechita**, P. Obrocea, *Hârtii cretate (Coated Papers)* in Romanian, ISBN 978-973-1871-31-8, Ed. Istros a Muzeului Brăilei, **2009**, 168 pag.
4. **P.Nechita**, *Procese și echipamente pentru protejarea și epurarea apelor (Processes and Equipment for Water protection and Treatment)* , in Romanian ISBN 978 – 606 – 628 – 066 – 2 , Ed. Europlus Galați, **2014**, 342 pag.
5. **P. Nechita** , *Analiza poluanților din apele uzate (Analysis of waste waters pollutants)* in Romanian ISBN 978-606-628-067-9, Ed. Europlus Galați, **2014**, 140 pag.

V. Patents and patents applications

1. *Security paper with electronic detection and validation* – Authors: Codescu M.M., Erdei R., Iorga A, Kappel W, Manta E., Oprea F., Pătroi E. A., Pătroi D., Midoni V., Zăpodeanu I., Burlacu M., Buteică D., **Nechita P.** (www.osim.ro) RO126675/28.08.2015 Derwent Primary Accession Number: 2012-C22594
2. *Process for obtaining antifungal protection ointment with prophylactic nature* – Authors: Nisipeanu S., Ștepa R., Haiducu M., Olteanu Gh., **Nechita P.**, Moise I. V., Constantin M. (www.osim.ro) RO 126745/2014 Derwent Primary Accession Number: 2012-C23965
3. *Security paper and method of obtaining*, Authors: I. Zăpodeanu, D. Buteică, **P. Nechita**, I. Gavrilă, C. Stanciu, G. Cârâc, R. Dinică, P. Dumitriu, G. Aniculăesei - BOPI 6/2011, p. 38 (www.osim.ro) RO 126417/30.08.2013 Derwent Primary Accession Number: 2012-C71243
4. *Biodegradable nutritive pot, method and equipment of manufacturing*– Authors: **P. Nechita**, V. D. Cristian, V. Policarp, M. Burlacu, D. Manea, E. Bobu, F. Ciolacu, E. Dobrin – RO 127191-A2/2012, BOPI 3/2012, p. 29 (www.osim.ro) Derwent Primary Accession Number: 2012-E88065
5. *Security paper and method of manufacturing using as securing elements compositions, equipment footprint and specific color* - Authors: I. Zăpodeanu, **P. Nechita**, A. Radu, C.M.Talașman, M. Burlacu - RO126418-A2/2011, BOPI 6/2011, p. 38 (www.osim.ro) Derwent Primary Accession Number: 2012-C71229
6. *Paper with barrier properties for food packaging and method of obtaining*– Authors: D. Manea, A. Radu, C. M. Talașman, **P. Nechita**, M. Burlacu, D.Gavrilescu, G. Mustățea, M. Ionescu - RO128764-A2/2013, BOPI nr. 8/2013 (www.osim.ro) Derwent Primary Accession Number: 2013-N12503

VI. Representative papers presented at international conferences and published in conference proceedings

1. Debeleac, C., Nastac, S., **Nechita, P.**, *Foam-formed Cellulose Composites for Noise Insulation Applications*, Tenth Jubilee National Conference on Chemistry, Bulgaria, 26-28 September **2019**, Sofia, Bulgaria, <http://10ncc.unionchem.org/images/programme.pdf>
2. **P. Nechita**, C. M. Burtea, V.Negreanu, *Study on application of some control methods for improving biological wastewater treatment*, International Joint Conference on Environmental and Light Industry Technologies ,

23 – 24 November 2017 Budapest, Hungary, Obuda University, http://konferencia.rkk.uni-obuda.hu/ijcelit_2017/WESEprg.htm

3. **P.Nechita**, S.M. Ionescu, *Lightweight composite materials based on agro-residues and natural additives with thermal insulation properties*, 3th International Conference on Advanced Technology & Sciences, ICAT'16, Konya, Turkey, September 01-03, 2016, <https://www.icatsconf.org/uploads/files2/icat16abstract-book-v1.pdf>
4. **P.Nechita**, S. Năstac, S.M.Ionescu, *Foam – formed cellulose based composite materials for use in cushioning and insulation applications*, Ninth National Conference on Chemistry Science and Technology for better life, 29 sept – 1 oct.2016, Sofia, Bulgaria, <http://9ncc.unionchem.org/Book.pdf>
5. S. Nastac, C. Debeleac, **P. Nechita**, *Experimental analyses of shock protection availability for low density cellulose composites*, The 40th International Conference on Mechanics of Solids, Acoustics and Vibrations, ICMSAV 2016 and The 6th International Conference on “Advanced Composite Materials Engineering”, COMAT 2016, Braşov, ROMANIA, 24-25 November 2016, <http://aspeckt.unitbv.ro/jspui/handle/123456789/2146>,
6. S. Nastac, **P. Nechita**, *Experimental analyses of noise mitigation characteristics for low density cellulose composites*, The 40th International Conference on Mechanics of Solids, Acoustics and Vibrations, ICMSAV 2016 and The 6th International Conference on “Advanced Composite Materials Engineering”, COMAT 2016, Braşov, ROMANIA, 24-25 November 2016, <http://aspeckt.unitbv.ro/jspui/handle/123456789/2148>
7. **P.Nechita**, E.Bobu. G.Parfene, R.M.Dinică, *Antimicrobial coating formulas based on chitosan derivatives and quaternary ammonium salts for packaging paper applications* – Proceedings of “Symposium Innovative Packaging – Joint Conference of PTS and COST Action FP1003, 20 – 21 May 2014, Munchen, Germania, p. 58,
8. **Nechita P.**, Stanciu C., Florea T., et al. *The influence of the structural properties of cellulose filtering composites on the contaminants retention in alimentary liquids* – Proceedings of International Conference Modern Technologies in the Food Industry, Vol.1, p.144, 1 – 3 nov. 2012, Chişinău, R. Moldova
9. Stanciu C., **Nechita P.**, *Air permeability of food packaging papers* - Proceedings of International Conference Modern Technologies in the Food Industry, Vol.1, p. 184, 1 – 3 nov. 2012, Chişinău, R. Moldova
10. E.Dobrin, M.Roşu, E.Drăghici, **P.Nechita** – *Evaluation of Potential Biodegradation of Materials Based on Peat and Waste of Cellulose Fibres for Use in Seedling Production* – Scientific Papers. Series B. Horticulture, Vol.LVI, 2012, ISSN 2285 – 5653: The International Conference of the University of Agronomic Sciences and Veterinary Medicine of Bucharest" Agriculture for Life, Life for Agriculture" 160 Years of Romanian Agronomic Education October 4 - 6, 2012, Bucharest, Romania (www. <http://horticulturejournal.usamv.ro/index.php/2013-02-20-08-15-01/indexing>)
11. **P. Nechita**, Maricica Burlacu, Nicoleta Melniciuc – *Studies regarding the influence of some endogenous factors on paper ageing* – Proceedings of The 6th International Symposium on Advanced Technologies for the Pulp and Paper Industry, 6 - 9 Septembrie 2011, Braila, Romania, ISBN – 978 - 973 -7909-11-4, <http://ceprohart.ro/documente/Volum%20lucrari.pdf>
12. **P.Nechita**, Daniela Manea, Elena Dobrin - *Recycled fibres – reinforcing elements of nutritive pots based on lignocelluloses composite materials* - The 16th International Symposium in the field of pulp, Paper, Packaging and Graphics, Zlatibor, Cigota, Serbia, June, 15 – 18, 2010, p. 203-210, ISBN 867401267-1(<http://agris.fao.org/agris-search/search.do?recordID=RS2011000386> ,
13. **P. Nechita** – *Environmental impact analysis and re-use/recovery potential of waste fibrous composites* - Proceeding of the 17th International Symposium in the Field of Pulp, Paper, Packaging and Graphics, June 21 – 24, 2011, Cigota, Zlatibor, Serbia ISBN 867401267-1 <http://www.gbv.de/dms/tib-ub-hannover/663659299.pdf>
14. **P. Nechita**, Vasile Epure, Elena Dobrin - *Composite Materials Based on Lignocelulosic Fibres Used as Nutritive Supports in Seedling Manufacturing*, Proceedings of „3rd International Conference & Exhibition on Environmentally Compatible Forest Products ECOWOOD 2008”, 10 – 12 September 2008, Porto – Portugalia, p.345-350, ISSN 978-989-643-016-0 (<http://homepage.ufp.pt/ecowood/Ecowood2008/Proc%20ECOWOOD%202008%20-%20Contents.pdf>)

VII. Awards and distinctions

1. Diploma of Excellence and Silver medal for paper: *Biomaterials with low density based on foam and cellulose fibres with sound proofing properties*, **UGAL INVENT**, Galați, Romania, **2019**, <http://www.invent.ugal.ro/>
2. Diploma of Excellence and Silver medal: *Paper with barrier properties for food packaging and its manufacturing process*, **Proinvent 2014**, Cluj Napoca, Romania
3. Gold medal: *Paper with barrier properties for food packaging and its manufacturing process*, **UGAL INVENT 2014**, Galați, Romania
4. Gold medal: *Security paper and process of its manufacturing*, **Euroinvent 2014**, Iași, Romania and **UGAL INVENT**, Galați, Romania, **2014**
5. Silver medal and Diploma of Excellence, *Process for obtaining antifungal protection ointment with prophylactic nature*, **EUREKA 2012**, **Inventika 2011**, **Proinvent 2013**

LIST OF REPRESENTATIVE PROJECTS

I. National Research programs

1. National Research Programme - BioWWater- *Integrated system of measures and control techniques for generation and wastewater processes from recycling papers* (- **BioWWater** -), PN-III-P2-2.1-BG-2016-0040, contract 86BG/2016 - <http://biowwater.ugal.ro/>, (**2016 - 2018**) – **project manager**
2. National Research Programme PNCDI II–, Contract no. 93/2014 – *Biocomposite from renewable resources – research and advanced solutions for increasing of energetic efficiency of buildings*–**BIO4BUILD (2014 – 2016)**, <http://bio4build.wix.com/bio4build#/home/mainPage>, **technical responsible**
3. National Research Programme (2007–2010)– **BIOSUN** - *Biocomposites from renewable resources – biodegradable nutritive support for containerized seedling manufacturing* - Contract no. 51-090/2007– **project manager**, <http://www.ceprohart.ro/biosun.php>
4. National Research Programme (2007 – 2010)- Contract no.81-059-1/2007 – **FIR MAGIC** - *Security element with magnetic fibres and field sensor for electronic validation direction applications* – **project responsible** , <http://firmagic.icpe-ca.ro/>
5. National Research Programme (2008 – 2011) - *Strategies for research on assessing the conservation and implementation of new materials and techniques to restore and preserve old books and documents to ensure of the cultural heritage in the Community* – **PapREST** - Contract D9, 92077/2008 – **project responsible**, <http://omicron.ch.tuiasi.ro/~thmalu/paprest.htm>,
6. Structural Funds – POSDRU (2010 – 2013) – *Organizational Support Programmes and profesional training for employees of romanian pulp and paper field* – POSDRU 81/3.2/S/53449 - **project manager** <http://www.ceprohart.ro/posdru81/index.php>
7. National Research Programme – CEEX (2006–2008) – *Advanced microfiltering composites - efficient solution for food safety* – **FILTRAL** - Contract no. 63/2006– **project manager**, <http://www.ceprohart.ro/filtral.php>
8. National Research Programme – CEEX (2005 – 2007) - *Polymeric biocomposites based on renewable resources for high tech applications* **BICOP** - Contract no. 3434/2005- **project responsible**; <http://tsocm.pub.ro/cercetare/BICOP/index.htm>
9. National Research Programme (2005 – 2006) – *Education systems for industry personnel training* , Contract no.24/198040/08.08.2005, - **project responsible** http://www.ceprohart.ro/proiecte_alte_tipuri.php
10. National Research Programme - Relansin (2003 – 2005),– Contract no. 1807/2003 – *The modernization of technology for tissue paper manufacturing* (**project responsible**), http://www.ceprohart.ro/proiecte_alte_tipuri.php

11. *Composite materials based on cellulose fibres and high minerals for automotive industry (2004-2005)*, Contract no. 8274/2004, beneficiary Fermit SA Rm.Sărat, Romania, **project manager**, http://www.ceprohart.ro/proiecte_alte_tipuri.php
12. National Research Programme (2007 – 2010) - **FILFLOSEC** - *Integrated system of protecting markings and security documents, carried out in the base paper making and printing* - contract no. 71 -126/2007 – member of research team, <http://www.ceprohart.ro/filflosec.php>
13. National Research Programme (2008 - 2011) – **SAFEPACK** -*Special packaging materials from cellulosic fibers – a viable alternative for foodstuffs protection and safety*, contract no. 52 – 169/2008 – member of research team, <http://www.ceprohart.ro/safepack.php>
14. National Research Programme (2008 – 2011) – **ARCON** -*One chance for the archives future – ionized radiation disinfection* - contract no. 92- 83/2008 - member of research team, <http://www.irasim.ro/arcon/arcon.htm>
15. National Research Programme (2007 – 2010) – **ELHART** -*Technology for electrical insulating paper manufacture*, contract no. 31/2007 - member of research team, <http://www.ceprohart.ro/elhart.php>
16. R&D Programme for Industry (2005 – 2006) – *Alternative solutions in packaging manufacturing to conformation with Europeans requirements* – contract no. 8286/2005 - member of research team , http://www.ceprohart.ro/proiecte_alte_tipuri.php

II. International research programs

1. COFUND-M-ERA NET II - *Active GRaPhene based FOOD packaging systems for a modern society – GRAFOOD (2017 – 2020)*, <https://m-era.net/joint-calls/joint-call-2016/list-of-funded-projects-2016.pdf> , member of research team
2. Black Sea Basin ENI Cross-Border Cooperation Programme 2014-2020: *Black Sea Basin interdisciplinary cooperation network for sustainable joint monitoring of environmental toxicants migration, improved evaluation of ecological state and human health impact of harmful substances, and public exposure prevention – MONITOX, cod BSB27*, contract 105070/2018 (**2018-2021**) member of research team, <https://www.monitox.ugal.ro/index.php/ro/>
3. EEA-Grants: „*Restoration of the aquatic and terrestrial ecosystems complex, from Fundu Mare Island, part of the Small Wetland of Brăila - RAMSAR site 1074* ”, <http://eeagrantsmediu.ro/proiecte/18> , <http://www.wildwetlandbraila.ugal.ro> ,(2017-2018) member of research team
4. FP V – Competitive and Sustainable Growth (2001 – 2004) - “*A Competitive European Pulp and Paper Industry*”- Contract nr. GIRT - CT - 2001 - 05021/23.08.2001, (**project responsible**), http://cordis.europa.eu/news/rcn/100384_en.html http://cordis.europa.eu/project/rcn/58157_en.html

III. Contribution at European COST Programme:

1. COST CA 18224 - *Green Chemical Engineering Network towards upscaling sustainable* - **GREENERING**, 2019- 2023, MC and WGs member, <https://www.greenering.eu/>, <https://www.cost.eu/actions/CA18224/#tabs|Name:management-committee>
2. **COST CA 18101** - *Sourdough biotechnology network towards novel, healthier and sustainable food and bioprocesses (SOURDOMICS)*”, 2019-2023 - MC and WGs member, <https://sourdomics.com/>, <https://www.cost.eu/actions/CA18101/#tabs|Name:management-committee>
3. **COST FP 1405:** „*Active and intelligent fibre-based packaging - innovation and market introduction (ActInPak)*” – MoU COST 099/14 - 2014 - 2018- MC and WGs member, <https://www.cost.eu/actions/FP1405/#tabs|Name:management-committee>
4. **COST FP 1005** : *Fibre suspension flow modelling - a key for innovation and competitiveness in the pulp & paper industry* - 2011 – 2015 - MC and WGs member, http://158.110.32.35/COST/pages/FP1005_organization.html
5. **COST FP 1003** „*Impact of renewable materials in packaging for sustainability – development of renewable fibre and biobased materials for new packaging applications*” - 2010 – 2014 - MC and WGs member, <https://www.cost.eu/actions/FP1003/#tabs|Name:management-committee>
6. **COST FP0901:** „*Analytical Techniques for Biorefineries*” – 2009 – 2013, WGs member, http://web.abo.fi/fak/tkf/spk/costfp0901/wg2_participants.html

7. **COST FP0904:** *Thermo-Hydro-Mechanical Wood Behaviour and Processing* -2009 – 2013, MC and WGs member. <https://www.cost.eu/actions/FP0904/#tabs|Name:management-committee>
8. **COST E48** – *Limits of Paper Recycling* – 2004 – 2009, MC and WGs member, <https://www.cost.eu/actions/E48/#tabs|Name:overview>
9. **COST E32** - *Characterisation of paper surfaces for improved printing paper grades* – 2002 – 2007 - MC and WGs member. <https://www.cost.eu/actions/E32/#tabs|Name:overview>
10. **COST E46** - *Improvements in the understanding and use of de-inking technology* – 2004 – 2008 - WGs member. <https://www.cost.eu/actions/E46/#tabs|Name:overview>
11. **COST E36** - *Modelling and Simulation in Pulp and Paper Industry* – 2004 – 2008 - WGs member.- <https://www.cost.eu/actions/E36/#tabs|Name:overview>
12. **COST E11** – *Characterisation methods for cellulose fibres and papers* - 1997 – 2000, MC and WGs member. <https://www.cost.eu/actions/E11/#tabs|Name:overview>

10.05.2021

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