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LIST DE LUCRĂRI

1. Teza de doctorat

T1. „Cercetări privind tehnologia de extragere a vitaminelor hidrosolubile din complexul B utilizând ca materii prime unele plante de cultur horticoale și agricole”, Universitatea de Științe Agronomice și Medicină Veterinară București, 2008, coordonator Prof.Univ.Dr. Gheorghe Câmpeanu

2. Cărți și capitole de cărți:

Cărți în manuale, capitole în cărți în țară

C1. Tâmbulescu T., **Palcu S. E.** – Biochimie, vol.I, Editura Universității „Aurel Vlaicu” Arad, **2001**, 152 pag., ISBN 973-9361-51-X

C2. Stănescu Michaela Dina, **Palcu S.E.**, Gavrilă Simona – **Biochimie analitic – Aplicații și probleme**, Editura Universității „Aurel Vlaicu” Arad, **2010**, 128 pag., ISBN 978-973-752-498-0

C3. **Palcu S., 2011 – Toxicologie – Noțiuni fundamentale și aplicații**, Editura Universității „Aurel Vlaicu” Arad, **2011**, 171 pag., ISBN 978-973-752-552-9

C4. Mureșan Claudia, **Palcu S.**, Dicu Anca – **Tehnici culinare – Noțiuni fundamentale și aplicații practice**, Editura Universității „Aurel Vlaicu” Arad, **2011**, 180 pag., ISBN 978-973-752-551-2

C5. Stănescu Michaela Dina, **Palcu S.E.**, Gavrilă Simona – **Biochimie analitic – Aplicații și probleme**, Ediție actualizată și revizuită, Editura Universității „Aurel Vlaicu” Arad, **2012**, 140 pag., ISBN 978-973-752-638-0

3. Articole publicate în reviste din fluxul principal cu recunoaștere internațională – ISI

A1. **Sergiu Erich Palcu**, Claudia Mureșan, Ciprian Nicolae Popa, Radiana-Maria Tamba-Berehoiu, **2019** - Variability assessment of garden pea (*Pisum sativum*) production performances by using 2-way ANOVA analysis, *Rom Biotechnol Lett.* 2019; 24(5): 913-921. DOI: 10.25083/rbl/24.5/913.921, ISSN PRINT : 1224-5984, I.F. 0,590

4. Articole publicate în reviste din fluxul principal cu recunoaștere internațională – indexate în baze de date

D1. Vincu Mirela, Clep Camelia, Ahmadi T., Popescu Georgeta Sofia, **Palcu S.E.**, Chilomarinela, Velcirov P., **2000** – Experimental studies on the metabolic effects induced by zinc and manganese in laboratory animals, Metal elements in Environment, Medicine and Biology, 4th International Symposium, November 6-8, Timișoara



D2. Daranyi Gabriela, Gârban Z., Mart u Ariana-Bianca, Antal Diana-Simona, **Palcu S.**, Simion E., **2002** - Harmful effects of polycyclic aromatic hydrocarbons resulted from the structure–activity relationship, p.15, in “*4th Regional Conference on Environmental and Health*”, Szeged, May 9-10

D3. Palcu S., Gh.Câmpeanu, **2006** – The influence of chemical fertilisers with microelement on B₁ and B₆ vitamins content on garden pea.II.Partial results, Buletinul Universit ii de tiin e Agricole i Medicin Veterinar Cluj-Napoca, Al 5-Lea Simpozion Interna ional “Perspective ale agriculturii mileniului III” vol.62/, pag. 128-131, ISSN 1454-2382

D4. Mure an Claudia, Ciutina V., Anca Dicu, **S. Palcu, 2007** – Cromatic index evolution during superiors red wines maturation at Burgund variety; Bulletin of University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, vol.63-64, pg.662-663; ISSN 1843-5246

D5. Palcu S., Gh. Câmpeanu, L. H lm gean, Claudia Mure an, **2007** - Researches regarding soil fertilization for Leguminosae cultures an their influence upon production parameters, Bulletin of University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, vol.64 (1-2), pg.108-112; ISSN 1843-5254

D6. Palcu S.E., Claudia Mure an, **2007** - Biochemical parameters improvement at *Pisum sativum* under the influence of chemical fertilizers with microelements, Bulletin of University of Agricultural Sciences and Veterinary Medicine, Cluj Napoca, vol.64 (1-2), pg.751; ISSN 1843-5254

D7. Mure an Claudia, V.Ciutina, **S.Palcu**, L.H lm gean, **2008** – Comparative analysis of physicochemical characteristics for red superior wines obtained in the western part of Romania, Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, pg. 475, Editura Academic Pres, volume 65(2), ISSN 1843-5246

D8. Palcu S.E., Zamfir Alina, Mure an Claudia, **2008** - Researches concerning extraction and dosage technology of hydrosoluble B complex vitamins by using some garden and agricultural crop plants as raw material, Annales of the University of Craiova, vol. XIII (XLIX), pg. 283-286, Editura Universitaria, ISSN 1435 – 1275

D9. Sergiu Erich Palcu, Claudia Mure an, Radiana-Maria Tamba-Berehoiu, Ciprian Nicolae Popa, - STATISTICAL EVALUATION OF ENVIRONMENTAL FACTORS AND SOIL FERTILIZERS EFFECTS ON GARDEN PEA (*Pisum sativum*) PRODUCTION PARAMETERS, , Scientific Papers Series Management , Economic Engineering in Agriculture and Rural Development, Vol.18, Issue 1, **2018**, Pages 311-318, PRINT ISSN 2284-7995, E-ISSN 2285-3952. http://managementjournal.usamv.ro/pdf/vol.18_1/volume_18_1_2018.pdf

D10. Ciprian Nicolae POPA, Radiana Maria TAMBA BEREHOIU , Lumini a VI AN, Vasilica SIMION, Claudia MURE AN, **Sergiu Erich PALCU** - ROMANIAN CONSACRATED RECIPES IN THE MILLING AND BAKERY INDUSTRY, Scientific Papers Series Management , Economic Engineering in Agriculture and Rural Development, Vol.20, Issue 1, **2020**, Pages 417-424, PRINT ISSN 2284-7995, E-ISSN 2285-3952.<http://managementjournal.usamv.ro/index.php/scientific-papers/84-vol-19-issue-4/2151-romanian-consacrated-recipes-in-the-milling-and-bakery-industry>

5. Articole publicate în volumele unor manifest ri tiin ifice interna ionale recunoscute

Vi1. Popescu I., **Palcu S.**, Radu Dana, Condrat D.– Efectul utiliz rii uleiului esen ial de ment în fabricarea produselor lactoacide, Lucr rile celui de-al VI-lea Simpozion Interna ional, România-Serbia&Muntenegru-Ungaria, Timi oara, **2004**, pag. 684-689, ISBN 973-8359-26-0



Vi2. Palcu S., Zdrem an Monica – Chemical food contaminants-Aromatic polycyclic hydrocarbons – Natural Resources and Sustainable Agriculture, International Scientific Session Oradea-Debrecen, Part 2, **2005**, University of Oradea Publishing House, ISBN 963-9274-887

Vi3. Palcu S., Campeanu Gh., Halmagean L., Crisan Simona – The influence of chemical fertilizers with microelements over the morpho-physiological and production characteristics for vegetables, 41st Croatian International Symposium on Agriculture, Zagreb, **2006**, pag. 133-134, ISBN 953-6331-39-X

Vi4. Mure an Claudia, Ciutina V., Halmagean L., **Palcu S.**, Chi S., **2007** – The physicochemical characteristics of red wines from Burgund variety obtained with external enzymatic mixtures during wine making process; Simpozionul tiin ific Interna ional „Realiz ri i perspective în horticultur , viticultur , vinifica ie i silvicultur ” Chi in u, Rep. Moldova, Lucr ri tiin ifice vol. 15 (2), pg. 196-198, ISBN 978-9975-946-11-7

Vi5. Ciutina V., Mure an Claudia, **Palcu S.**, **2007** – Rezultate privind selec ia clonal la unele soiuri de vi de vie cultivate în vestul României; Simpozionul tiin ific Interna ional „Realiz ri i perspective în horticultur , viticultur , vinifica ie i silvicultur ” Chi in u, Rep. Moldova, Lucr ri tiin ifice vol. 15 (2), pg. 43-46, ISBN 978-9975-946-11-7

Vi6. Palcu S., Câmpeanu Gh., Chi S. **2007** – The action of some chemical fertilizers with microelements by Fericare I and Universol type and their action on Thiamine, Riboflavin and Pyridoxine content at *Pisum sativum*, Simpozionul tiin ific Interna ional „Realiz ri i perspective în horticultur , viticultur , vinifica ie i silvicultur ” Chi in u, Rep. Moldova, Lucr ri tiin ifice vol. 15 (2), pg. 376-379, ISBN 978-9975-946-11-7

Vi7. Palcu S. 2007 – The effect of physical factor on morpho-physiological and production indicators at *Pisum sativum* in Arad Agroecological area, Simpozionul tiin ific Interna ional „Realiz ri i perspective în horticultur , viticultur , vinifica ie i silvicultur ” Chi in u, Rep. Moldova, Lucr ri tiin ifice vol. 15 (2), pg. 379-383, ISBN 978-9975-946-11-7

Vi8. Palcu S., Claudia Mure an, – Research into the toxicity of the some wild growing plants from Arad county, 42st Croatian International Symposium on Agriculture, Zagreb, February 13-16, **2007**, Book of abstracts, pag. 96, ISBN 978-953-6135-56-1

Vi9. Claudia Mure an, V. Ciutina, **S. Palcu** , S. Chi , Elisabeta Ivan, **2007** – The influence of external enzymatic mixtures on the physicochemical characteristics of red wines from Burgund variety in Minis vineyard; International Conference „Research people and actual tasks on multidisciplinary sciences”, Lozenec, Bulgaria, vol.3, pg. 287-290, ISBN 978-954-91147-3-7

Vi10. S.E.Palcu, 2007 – The influence of chemical fertilizers with microelement on B₁, B₂ and B₆ vitamins content on garden pea.III.Partial results, International Conference „Research people and actual tasks on multidisciplinary sciences”, Lozenec, Bulgaria, vol.1, pg. 243-246, ISBN 978-954-91147-3-7

Vi11. S. Palcu, Gh. Câmpeanu, Claudia Mure an, S. Chi , V. Ciutina, **2008** – Fertilisation and Seed Bacterisation of *Pisum Sativum*, 43st Croatian International Symposium on Agriculture, Opatija, Croatia, February 18-21, pag. 461-464, ISBN 978-953-6135-67-7

Vi12. Palcu S.E., 2008 – The action of some chemical fertilizers with microelements by Universol and fericare I type and their action on thiamine, riboflavin and pyridoxine content at *Pisum sativum*, International Symposium Research and Education in Innovation Era, pg. 134-139, „Aurel Vlaicu” University of Arad, Scientific and Technical Bulletin, Year XIV, Vol.13, ISSN 1582-1021

Vi13. Mure an Claudia, Ciutina V., **Palcu S.**, **2010** - The evolution of colour intensity at superiors red wines obtained in Minis vineyard, Simpozionul tiin ific Interna ional „Horticultura modern – realiz ri i perspective”, Chi in u, Rep. Moldova, 23-25 Septembrie 2010

Vi14. Palcu S.E., Chi S., Mure an Claudia, **2010** - Studies and experimental research on some plants of the Fabaceae family of B vitamins content under the action of synthetic fertilizers, , International Symposium Research and Education in Innovation Era, „Aurel Vlaicu” University of Arad, Scientific and Technical Bulletin, Year XIV, Vol.14, ISSN 1582-1021

Vi15. Palcu S., Mure an Claudia, Balint Maria, **2012** - Obtained results for *Pisum sativum* culture fertilisation in order to improve some morpho-physiological and production parameters in Arad vegetable area, International Symposium Research and Education in Innovation Era 4th Edition, „Aurel Vlaicu” University of Arad, Scientific and Technical Bulletin

Vi16. Mure an Claudia, **Palcu S.**, Ciutina V., Dobromir Daniela, Dicu Anca, **2012** - The evolution of wine quality during technological process at superiors wines from Mini vineyard, International Symposium Research and Education in Innovation Era 4th Edition, „Aurel Vlaicu” University of Arad, Scientific and Technical Bulletin

Vi17. Palcu S.E., Mure an Claudia, **2016** - Experimental research on the content of thiamine, riboflavin and pyridoxine of the *family Papilionaceae* plants under the influence of fertilizer with microelements, International Symposium Research and Education in Innovation Era 6th Edition, „Aurel Vlaicu” University of Arad, Scientific and Technical Bulletin

Vi18. Ramona LILE, Lucian COPOLOVICI, Claudia MURE AN, **Sergiu PALCU**, Monica LUNGU, Andreea LUPITU, Cristian MOISA, Dana Copolovici, **2019** - New method for brandy distillation from different fruits, International Conference "Agriculture for Life, Life for Agriculture, Bucharest, Section 6 : Biotechnology, ISSN 2343-9653(PRINT) - Poster

Vi19. Ramona LILE, Claudia MURE AN, **Sergiu PALCU**, Claudiu URSACHI, Florentina MUNTEANU, Dana COPOLOVICI, Monica LUNGU, Andreea LUPITU, Cristian MOISA, Lucian COPOLOVICI, **2020** - NEW TRADITIONAL MEAT PRODUCTS WITH ADDED VALUE, International Conference "Agriculture for Life, Life for Agriculture, Bucharest, June 4-6, 2020, ISSN 2343-9653(PRINT) - Poster

Vi20. Maria CHIFOR, Andreea LUPITU, Cristian MOISA, Dana COPOLOVICI, Lucian COPOLOVICI, **Sergiu PALCU**, Claudia MURESAN, **2020** - IMPROVING THE SENSORY AND CHEMICAL CHARACTERISTICS OF FRUIT SPIRITS BY MACERATING DEHYDRATED FRUITS, The 19th International Conference "Life Sciences for Sustainable Development", 24th – 25th September 2020, Cluj-Napoca, Romania

6. Lucr ri publicate în alte reviste recunoscute

Categoria B CNCSIS

L1. Mure an Claudia, Ciutina V., Chi S., **Palcu S.** – The influence of the climatic conditions over the evolution of phenolic compounds from the great Burgund grape variety from the vineyards from eastern and western side of Romania, Universitatea de tiin e Agricole i Medicin Veterinar a Banatului Timi oara, **2006**, Cercet ri tin ifice-seria X, Editura Agroprint Timi oara, pag. 51-56, ISSN 1453-1402

L2. Palcu S., Câmpeanu Gh., Chi S., Mure an Claudia – The efects of the physical factors on the morphophysiological and production indicators for *Pisum Sativum* in Arad agroecological area, Universitatea de tiin e Agricole i Medicin Veterinar a Banatului Timi oara, Cercet ri tin ifice-seria X, Editura Agroprint Timi oara, **2006**, pag. 99-102, ISSN 1453-1402

L3. Mure an Claudia, Dicu Anca, Ciutina V., **Palcu S.**, – Enzymatic mixtures utilisation in superior red wines obtaining technology; Scientific and Technical Bulletin, “Aurel Vlaicu” University of Arad, **2006** Series: Chemistry, Food Science& Engineering, vol. 11, pg. 152-155, ISSN 1582-1021

L4. Mure an Claudia, Chi S., **Palcu S.**, Elisabeta Ivan, **2007** – The influence of external enzymatic mixtures on the physicochemical characteristics of red wines from Minis vineyard; Cercet ri tiin ifice, Seria a XI-a, Univ. de tiin e Agricole i Medicin Veterinar a Banatului Timi oara, Ed. Agroprint, pg.150-152, ISSN 1453-1402

L5. **Palcu S.**, Mure an Claudia, Chi S. **2007** – Resercers regarding the toxicity of some plants from wild flora of Arad county, Cercet ri tiin ifice, Seria a XI-a, Universitatea de tiin e Agricole i Medicin Veterinar a Banatului Timi oara, Ed. Agroprint, pg.507-510, ISSN 1453-1402

L6. Mure an Claudia, Chi S.,Ciutina V., **Palcu S.**, **2008** - *The evolution of phenolic compounds during technological proces sat superiors red wines from Burgund variety*, Cercetări tiin ifice – “Horticultură/Inginerie genetică”, Seria a XII-a, Ed. Agroprint Timi oara, pg. 102-105, ISSN 1453-1402

L7. **Palcu S.E.**, Zamfir Alina, Mure an Claudia, **2008** - Researches concerning extraction and dosage technology of hydrosoluble B complex vitamins by using some garden and agricultural crop plants as raw material, Annales of the University of Craiova, vol. XIII (XLIX), pg. 283-286, Editura Universitaria, ISSN 1435–1275

Categoria C CNCSIS

L8. Zdrem an Monica, **Palcu S.**, - The chemical composition of the tobacco smoke, Scien. And Techn. Bull. of Univ. “A. Vlaicu” Arad, **2002**, Vol.7, pag. 51-54, ISSN 1582-1021

L9. **Palcu S.**, Popescu I. – Influen a temperaturii asupra activit ii amilazei din miere determinat prin intermediul indicelui diastazic, Scien. And Techn. Bull. of Univ. “A. Vlaicu” Arad, **2003**, Vol.8, pag. 76-79, ISSN 1582-1021

L10. **Palcu S.**, Zdrem an Monica, Iva cu Antonia – Researches regarding the genitors of Peach and Nectarine trees with resistance to mildew – Cercet ri tin ifice, seria a VIII-a, Universitatea de tiin e Agricole i Medicin Veterinar a Banatului Timi oara, Facultatea de Horticultur , **2004**, pag. 423-426

L11. Popescu I., Rus nescu N., **Palcu S.**– The effects of poly-vinyl-pyrrolidone in assuring colloidal stability for beer, Scientifical Researches.Agroalimentary Processes and Technologies, Timi oara, **2004**, vol. X, Nr.2, pag. 411-416, ISSN 1453-1399

L12. **Palcu S.**, Popescu I – Experimental Studies Regarding the Bacterial Metabolism of Sugars, Scientifical Researches, Agroalimentary Processes and Technologies, Volume XI, No.2 , Arad, **2005**, 315-320

7. Articole publicate în volumele unor manifest ri tiin ifice na ionale

Vn1. **Palcu S.E.**, Cristea Heraclia Daniela, Chi S. – Studiul in vitro al varia iilor activit ii glutamatoxalacetat-transaminazei hepatice sub ac iunea amitalului sodic în func ie de concentra ie – Analele Universit ii “Aurel Vlaicu” din Arad, Seria Chimie, Fascicola : Inginerie Alimentar , **2004**, pag. 14-18, ISSN : 1582 – 3415



Vn2. Palcu S.E., Chi S., Cristea Heraclia Daniela – Ob inerea unor hidrolizate de proteine sub ac iunea ultrasunetelor.Ac iunea ultrasunetelor asupra edestinei - Analele Universit ii “Aurel Vlaicu” din Arad, Seria Chimie, Fascicola : Inginerie Alimentar , **2004**, pag. 19-23, ISSN :1582 – 3415

8. Proiecte de cercetare-dezvoltare-inovare pe baz de contract/grant

Pn1. “ Integrarea unui centru român de spectrometrie de mas biomedical de înalt performan în aria de cercetare interna ional i european “ Valoare total : 200.000 RON dintre care 40.000 RON revin UAV, perioada 2006 – 2008, membru în echipa de cercetare

Pn2. „Influen a unor îngr mînte foliare cu microelemente asupra calit ii strugurilor i a vinurilor ro ii din sortimentul Podgoriei Mini -M derat ” Beneficiar SCDVV Mini , responsabil UAV: Conf.Dr.Ing. Ciutina Virgiliu, perioada 2008 – 2009, membru în echipa de cercetare, contract 1362/26.05.2008

Pn3. „Cercet ri privind influen a fertiliz rii asupra proceselor de cre tere i produc ie la sfecla de zah r”, Beneficiar Chi Emil, responsabil UAV : Conf.Dr.Ing. Calinovici Ioan, Contract Nr. 3042/15.12.2008, membru în echip

Pn4. POSDRU/135/5.2/S/128939– „PROGRES RURAL! Dezvoltarea sustenabil a zonelor rurale din Regiunile Vest i Nord-Vest” Perioada 2014 - 2015 – membru

Pn5. POSDRU/125/5.1/S/131980 „RE-ACTIV PE PIA A MUNCII ! Integrarea profesional a categoriilor defavorizate pe pia a muncii” UAV ARAD ” – membru

Pn6. POSDRU/165/6.2/S/146189 - "Diversitate în economia social ” (membru)

Pn7. Proiect național CNFIS-FDI-2018-0347: Laborator la scar pilot de distilare pentru practica studenților, Director : Copolovici Lucian, Membri din DSTN: Copolovici Dana, Palcu Sergiu, Mure an Claudia, Ciutina Virgiliu, Lungu Monica . Valoarea total aprobat : 262.000 Lei . Perioada Mai 2018 - Decembrie 2018 .

Pn8. Proiect național CNFIS-FDI-2019-0150: Laborator la scar pilot pentru procesarea produselor din carne, Director : Copolovici Lucian, Membri din DSTN: Lile Ramona, Copolovici Dana, Ciutina Virgiliu, Lungu Monica, Palcu Sergiu, Mure an Claudia, Ursachi Claudiu. Valoarea total aprobat : 262.000 Lei . Perioada Iunie 2019 - Noiembrie 2019 .

Pn9. Proiect național CNFIS-FDI-2023-F-0313 : Laborator de evaluarea calit ii și propriet ilor nutri ionale a produselor alimentare pentru practica studenților Responsabil: Lucian Copolovici, Membrii: R. Lile, T. Cilan, A. Popa, C. Stoica, S. Palcu, D. Copolovici, C. Ursachi, A. Dicu, C. Moisa, A. Lupitu . Desf urare: 2023-06-01 ÷ 2023-12-31 Valoare: 234.000 Lei Nr. luni: 7

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