

Iuliana BANU

Activitate științifică

➤ Lucrări publicate

Carti/capitole de carti

1. **Banu C. Iuliana**, *Studiul proprietatilor de macinis ale unor soiuri de secara din cultura mare*, Universitatea Dunarea de Jos din Galati, 218 pg, 2004 (Teza de doctorat).
2. **Banu Iuliana**, *Politici si strategii globale de securitate alimentara*, Editura Galati University Press, 263 pg., 2007.
3. **Banu Iuliana**, *Principii generale de morarit*, Editura Fundatiei Universitare Dunarea de Jos, Galati, ISBN 978-973-627-388-9, 249 pg., 2007.
4. **Banu Iuliana**, *Macinarea secarei*, Editura Fundatiei Universitare Dunarea de Jos, Galati, ISBN (10) 973-627-327-X, ISBN (13) 978-973-627-327-8, 210 pg., 2006.
5. **Banu Iuliana**, *Tehnologia si controlul calitatii in industria morarului. Indrumar de lucrari practice*, Editura Fundatiei Universitare Dunarea de Jos, Galati, ISBN 973-627-180-3, 150 pg., 2004.
6. **Banu Iuliana**, Cerealele, produsele de măcinis și de panificație, pg. 358-377; Segal Rodica și **Banu Iuliana**, Caracteristici nutriționale ale alimentelor ecologice vs. alimente convenționale, pg. 141-159, în Gh. M. Costin (editor), *Alimente ecologice*, Editura Academica, Galați, ISBN 978-973-8937-39-0, 2008.
7. **Banu Iuliana**, Analiza graului. Analiza fainii pg. 1-122, in Bordei D. (coordonator), *Controlul calitatii in industria panificatiei. Metode de analiza*, Editura Academica, Galati, ISBN 978-973-8937-27-7, 783 pg., 2007.
8. **Banu Iuliana**, Faina – Materie prima in industria de panificatiei si produselor fainoase. Factori care influenteaza calitatea fainii de grau, pg. 29-48, Evaluarea calitatii fainii, pg. 49-114, Calitatea fainii destinata fabricarii pastelor fainoase, pg. 147-186, calitatea fainii destinata fabricarii biscuitilor, pg. 187-208, in Despina Bordei (coordonator), *Calitatea si marketingul fainii de grau*, Editura Academica, Galati, ISBN 973-98859-9-3, 218 pg., 2001.

Articole publicate si/sau prezentate in plen

1. **Banu Iuliana**, Stoenescu Georgeta, Ionescu Violeta, *Improvement of dough rheology and bread quality by enzymes combination*, Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Buletinul 64, Editura AcademicPres, 6 pg., ISSN 1454-2382, 2008. [ISI ProceedingsSM](#)
2. **Banu Iuliana**, Georgeta Stoenescu, Violeta Ionescu, *Improving the brown flour qualities on the account of the rheological determinations obtained in the alveograph, rheofermentograph and Mixolab*, Scientific Study & Research, Chemistry & Chemical Engineering, Biotechnology, Food Industry, 2008, vol. IX(1) 93-101. [BDI: Chemical Abstracts – SUA](#), [Viniti – Rusia](#), [CSA – SUA](#), [Grisemine – Lille-Franta](#): CODEN: SCSCC6 ISSN: 1582-540X.

3. **Banu Iuliana**, Violeta Ionescu, Georgeta Stoenescu, *Correction of the enzymatical deficit of wheat flours*, Scientific Study & Research, Chemistry & Chemical Engineering, Biotechnology, Food Industry, 2008, vol. IX(2), 199-205. [BDI: Chemical Abstracts – SUA, Viniti – Rusia, CSA – SUA, Grisemine – Lille-Franta: CODEN: SCSCC6 ISSN: 1582-540X.](#)
4. Oana Constantin, **Banu Iuliana**, Ina Simitaru, Cornelia Lungu, *Hydrothermal treatment – The method for reduced the phytat content from the rye*, Scientific Study & Research, Chemistry & Chemical Engineering, Biotechnology, Food Industry, 2008, vol. VIII, [BDI: Chemical Abstracts – SUA, Viniti – Rusia, CSA – SUA, Grisemine – Lille-Franta: CODEN: SCSCC6 ISSN: 1582-540X.](#)
5. **Banu Iuliana**, Iuliana Aprodu, Ina Simitaru, *Potential of maize cobs for removal Zn(II) and Ni(II) in aqueous systems*, Journal of Agroalimentary Processes and Technologies 14 (2008) 173-177. [BDI: CODEN: JAPTCV ISSN: 1453-1399.](#)
6. Iuliana Aprodu, Aurelia Ionescu, **Banu Iuliana**, Constantin Banu, *Actin monomer-monomer interaction – a molecular mechanics study*, The Annals of the University Dunarea de Jos of Galati Fascicle VI – Food Technology, New Series Year II (XXXI), 2008, 44-50, ISSN 1843-5157. [BDI: Chemical Abstracts \(CODEN: AUDJBF\), CAB Abstracts.](#)
7. **Banu Iuliana**, *Baking quality of the rye flour*, Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Buletinul 63-64, Editura AcademicPres, pg. 488-492, ISSN 1454-2382, 2007. [ISI ProceedingsSM](#)
8. **Banu Iuliana**, Cornelia Lungu, Oana Constantin, Ina, Simitaru, *Influence of hydrothermal processing upon soluble phosphorus concentration from barley*, Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Buletinul 64-64 Editura AcademicPres, pg. 611, ISSN 1454-2382, 2007. [ISI ProceedingsSM](#)
9. **Banu Iuliana**, Moraru Constantin, *Milling Properties of some Romanian Rye Varieties*, Scientific Study & Research, Chemistry & Chemical Engineering, Biotechnology, Food Industry, vol VIII, 169-178. [BDI: CODEN: SCSCC6 ISSN: 1582-540X.](#)
10. **Banu Iuliana**, Cornelia Lungu, Oana Constantin, Iuliana Aprodu, *The Influence of the Hydrothermic Treatment on the Soluble Phosphorus Contents in Milling Streams Products*, Journals of Agroalimentary Processes and technologies, vol XIII, nr. 1, Editura Agroprint, Timisoara, ISSN 1453-1399, pg. 7-12, 2007. [BDI: CODEN: JAPTCV ISSN: 1453-1399. Journal written in English. AN 2007:831401 CAPLUS, Section 17 \(Food and Feed Chemistry\)](#)
11. Turtoi Maria, **Banu Iuliana**, *The influence of light pulse drying, on vitamin c content in dog rose (rosa canina) hips*, Jubilee Conference with International Participation, *Agricultural and Food Sciences, Processes and Technologies*, 26-27 aprilie, 2007, pg. 91-99, ISSN 1843-0694, Editura Universitatii Lucian Blaga, Sibiu.
12. **Banu Iuliana**, *The evaluation of the quality rye flours on the basis of the biochemical and rheological indices*, Journals of Agroalimentary Processes and technologies, vol XII, nr. 2, Editura Agroprint, Timisoara, ISSN 1453-1399, pg. 291-298, 2006. [BDI: CODEN: JAPTCV ISSN: 1453-1399. Journal written in](#)

English. AN 2007:831321 CAPLUS, Section 17 (Food and Feed Chemistry).

13. **Banu Iuliana**, Cornelia Lungu, Oana Constantin, Iuliana Aprodu, Liliana Virlan, *The influence of hydrothermal processing upon soluble phosphorus concentration from rye*, Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Buletinul 62, Editura AcademicPres, pg. 424, ISSN 1454-2382, 2006. ISI ProceedingsSM ISD Number: BFX12; <http://www.thomsonscientific.com/cgi-bin/jrnlst/jlresults.cgi>
14. **Banu Iuliana**, Iuliana Aprodu, O. Barna, *Competitive adsorption of Zn(II) and Ni(II) ions from aqueous systems by maize cobs*, Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Buletinul 62, Editura AcademicPres, pg. 414, ISSN 1454-2382, 2006. ISI ProceedingsSM ISD Number: BFX12; <http://www.thomsonscientific.com/cgi-bin/jrnlst/jlresults.cgi>
15. **Banu Iuliana**, *Cinetique d'absorption des ions de zinc et de nickel sur les tiges de maïs*, Scientific Study & Research, Chemistry & Chemical Engineering, Biotechnology, Food Industry, vol. VII, nr. 2, pg. 331-336, Editura Alma Mater Bacau, 1582-540X, 2006. BDI: CODEN: SCSCC6 ISSN: 1582-540X. Journal written in English. AN 2007:19046 CAPLUS, MEDLINE, CASREACT, CHEMLIST, CHEMCATS (Copyright (C) 2007 ACS on SciFinder (R)).
16. **Banu Iuliana**, *L'analyse des fractions de mouture obtenues par la mouture experimentale de certaines varietes de siegle d'automne*, Scientific Study & Research, Chemistry & Chemical Engineering, Biotechnology, Food Industry, vol. VII, nr. 3, pg. 675-682, Editura Alma Mater Bacau, 1582-540X, 2006. BDI: CODEN: SCSCC6 ISSN: 1582-540X. Journal written in French. AN 2007:359797 CAPLUS, MEDLINE, CASREACT, CHEMLIST, CHEMCATS (Copyright (C) 2007 ACS on SciFinder (R)).
17. **Banu Iuliana**, Agnieszka Miśkiewicz, Marian Harasimowicz, Grażyna Zakrzewska-Trznadel, *Removal of Cobalt Ions by Membrane Permeation Combined with Complexation*, Annals of the University Dunarea de Jos of Galati - Fascicle VI: Food Technology, XXIV, 1, pg. 9-14 , 2006, ISSN 1221-4574. BDI: Chemical Abstracts (CODEN: AUDJBF).
18. **Banu Iuliana**, Agnieszka Miśkiewicz, Marian Harasimowicz, Grażyna Zakrzewska-Trznadel, *Sorption Kinetic of Zinc and Nickel Ions on Chitosan and Activated Carbon*, Annals of the University Dunarea de Jos of Galati - Fascicle VI: Food Technology, XXIV, 1, pg. 23-27, 2006, ISSN 1221-4574. BDI: Chemical Abstracts (CODEN: AUDJBF).
19. Aprodu Iuliana, Ionescu Aurelia, **Banu Iuliana**, Monica Soncini, Alberto Redaelli, *Study of the interaction between myosin and adenine nucleotides*, Annals of the University Dunarea de Jos of Galati - Fascicle VI: Food Technology, XXIV, 1, pg. 1-8, 2006, ISSN 1221-4574. BDI: Chemical Abstracts (CODEN: AUDJBF).
20. Barna O., Moraru C., Tofan I., **Banu Iuliana**, *Effect of low temperature grain storage on granularity products*, Tecnica Molitoria, 57, 10, pg. 1052-1059, ISSN 0040-1862, Italia, 2006. BDI: CAB Abstract, <http://direct.bl.uk/bld/OrderDetails.do?u=48&uin=197124785>.
21. **Banu Iuliana**, Aprodu Iuliana, *Potential of maize cobs for removal Cu(II) in aqueous systems*, Analele Universitatii din Craiova, vol XI (XLVII), ISSN 1435-

1275, pg. 115-120, 2006. (cotatie B).

22. **Banu Iuliana**, *Milling Wheat Function of Qualities*, Cercetari Stiintifice Agroalimentare, vol XI, nr. 1, Editura Agroprint, Timisoara, ISSN 1453-1399, pg. 91-100, 2005.
23. Moraru Constantin, **Banu Iuliana**, *The content of pentosans in different rye mill-streams obtained through experimental milling*, *Tecnica Molitoria International*, 55, 3/A, pag. 131-138, ISSN 0040-1862, Italia, 2004. [BDI: CAB Abstract](#), <http://direct.bl.uk/bld/OrderDetails.do?uin=149979164>.
24. **Banu Iuliana**, Popa Gina, *L`evolution des quelques groupes des enzymes proteolytiques dans la seigle germinante*, Troisieme colloque franco-roumain de chimie appliquee CoFrRoCa, Slanic Moldova, pg. 200-203, Editura Alma Mater Bacau / Editura Tehnica-Info Chisinau, ISBN 973-8392-36-5 / ISBN 9975-63-183-5, 2004. [BDI: CODEN: 69GFCG](#), [CAN 143:188917 AN 2004:1043792](#) Explored by Author in CAPLUS and MEDLINE; CAPLUS, Copyright (C) 2005 ACS on SciFinder ®
25. **Banu Iuliana**, *The Analysis Of Fractions Obtained Trough Rye Experimental Milling*, Simpozionul International Prospects of the 3rd Millenium Agriculture, Sectiunea Food Science and Technology, Universitatea de Stiinte Agricole si Medicina Veterinara Cluj-Napoca, publicata in Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Buletinul 60, pg. 469, ISSN 1454-2382, 2004, [ISI ProceedingsSM ISD Number: BDD14](#); <http://www.thomsonscientific.com/cgi-bin/jrnlst/jlresults.cgi>
26. **Banu Iuliana**, *Studii privind influenta parametrilor procesului de conditionare asupra rezultatelor macinisului experimental al secarei*, Buletin informativ pentru industriile de morarit si panificatie, vol. 15, nr.3, pg. 139-144, ISSN 1222-1120, 2004.
27. **Banu Iuliana**, *Studiu privind parametrii optimi ai procesului de conditionare hidrica la rece pentru secara cu sticlozitate ridicata*, Buletin informativ pentru industriile de morarit si panificatie, vol. 15, nr.1, pg. 73-79, ISSN 1222-1120, 2004.
28. **Banu Iuliana**, Stoenescu Georgeta, *Consideratii privind aplicarea sistemului HACCP in lantul cerealier (I)*, Buletin informativ pentru industriile de morarit si panificatie, vol. 15, nr.1, pg. 59-65, ISSN 1222-1120, 2004.
29. **Banu Iuliana**, *Importanta pentru panificatie a araboxilanilor si a enzimelor de degradare a acestora*, Buletin informativ pentru industriile de morarit si panificatie, vol. 15, nr.3, pg. 127-138, ISSN 1222-1120, 2004.
30. **Banu Iuliana**, *Rye milling properties*, Simpozionul Stiinte, Procese si Tehnologii agroalimentare, Scientifical researches agroalimentary processes and technologies, Editura Agroprint Timisoara, vol. X, nr. 1, pg. 51-59, ISSN 1453-1399, 2004.
31. Lungu Cornelia, **Banu Iuliana**, Oana Emilia Constantin, *The preliminary treatment and freezing effect on mushrooms quality*, Simpozionul stiintific international organizat de Facultea de Horticultura din Craiova, publicata in Annales of the University of Craiova, pg. 325-328, ISSN 1435-1275, 2004.
32. **Banu Iuliana**, Moraru Constantin, *Studiul influentei incarcarii specifice*

asupra rezultatelor procesului de macinis in conditiile unei umiditati diferite a secarei la Sr I, Buletin informativ pentru industriile de morarit si panificatie, vol. 14, nr. 1, pg. 34-42, ISSN 1222-1120, 2003.

33. **Banu Iuliana**, *Aprecierea calitatii de panificatie a fainii de secara*, Buletinul AGIR – Stiinta si Ingineria Alimentelor. Studii si cercetari, nr.3, iulie-septembrie, pg.19-22, 2003, www.agir.ro/buletin_agir_numar=11.
34. **Banu Iuliana**, Moraru Constantin, *The evaluation of α -amylase activity in rye*, Annals of the University Dunarea de Jos of Galati - Fascicle VI: Food Technology, pg. 58-63, ISSN 1221-4574, 2003.
35. **Banu Iuliana**, *Determinarea pentozanilor din secara*, Buletin informativ pentru industriile de morarit si panificatie, vol. 14, nr. 2, pg. 43-53, ISSN 1222-1120, 2003.
36. **Banu Iuliana**, *Valorificarea secarei*, Buletin informativ pentru industriile de morarit si panificatie, vol. 13, nr. 4, pg. 35-47, ISSN 1222-1120, 2002.
37. **Banu Iuliana**, *The adaptation of an experimental scheme for the rye milling at the Bühler laboratory mill*, Annals of the University Dunarea de Jos of Galati - Fascicle VI: Food Technology, pg 18-31, ISSN 1221-4574, 2002.
38. **Banu Iuliana**, Moraru Constantin, *The influence of the rye physical properties on the intrinsic milling value*, Annals of the University Dunarea de Jos of Galati - Fascicle VI: Food Technology, pg. 31-42, ISSN 1221-4574, 2002.
39. **Banu Iuliana**, *Calitatea optima a fainii destinata prepararii pastelor fainoase si biscuitilor II*, Buletin informativ pentru industriile de morarit si panificatie, vol. 12, nr.1, pg. 20-66, ISSN 1222-1120, 2001.
40. Moraru Constantin, **Banu Iuliana**, *Pigmentii - studiu documentar*, Buletin informativ pentru industriile de morarit si panificatie, vol. 12, nr.2, pg. 36-66, ISSN 1222-1120, 2001.
41. **Banu Iuliana**, *Valoarea nutritiva a secarei si a fainii de secara*, Buletin informativ pentru industriile de morarit si panificatie, vol. 12, nr.2, pg.103-111, ISSN 1222-1120, 2001.
42. **Banu Iuliana**, *The nutritional quality of the rye*, Annals of the University Dunarea de Jos of Galati - Fascicle VI: Food Technology,, ISSN 1221-4574, pg 10-18, 2000.
43. **Banu Iuliana**, *Calitatea optima a fainii destinata prepararii pastelor fainoase si biscuitilor I*, Buletin informativ pentru industriile de morarit si panificatie, vol. 11, nr.3, pg. 4-29, ISSN 1222-1120, 2000.
44. **Banu Iuliana**, *Calitatea optima a fainii destinata prepararii pastelor fainoase si biscuitilor II*, Buletin informativ pentru industriile de morarit si panificatie, vol. 11, nr.4, pg. 4-38, ISSN 1222-1120, 2000.
45. **Banu Iuliana**, *Pentozanii fainii de secara*, Buletin informativ pentru industriile de morarit si panificatie, vol. 11, nr.2, pg. 86-110,ISSN 1222-1120, 2000.

➤ **Postere**

1. Alexe P., Niculita P., Enache A., Borda D., Popa M., **Banu Iuliana**, Rotaru G., Stanciu S., Ghidurus M., Turtoi M., Resmerita D., *Industry and interuniversity cooperation in the framework of Calisin - functional dairy foods research project*, in Romania, First International ISEKI_Food Conference, 10-12 sept 2008, Porto, Portugal, ISBN 978-972-99060-7-7, pg.108.
2. **Banu Iuliana**, Lungu Cornelia, Constantin Oana Emilia, Elisei Alina, Virlan Liliana, *The Influence of the Hydrothermal on the Phytate Content in the Rye*, First International Conference, Research People and Actual Task on Multidisciplinary Science, 6-8 iunie 2007, Lozenec, Bulgaria, vol. 1, pg. 133-137.
3. Aprodu Iuliana, Ionescu Aurelia, **Banu Iuliana**, Banu Constantin, *Actin Monomer-Monomer Interaction – a Molecular Mechanics Study*, Third National Conference on Applied Physics, 15-16 iunie 2007, Book of Abstract, pg 24, Editura Fundatiei Universitare Dunarea de Jos, Galati.
4. **Banu Iuliana**, Coman, Mariana, *Profile si tendinte ale consumului alimentar in lume si in diverse regiuni*, Simpozionul cu participare internationala „Traditii si Siguranta Alimentara”, 8-9 august, Sibiu.
5. **Banu Iuliana**, Belc Nastasia, *Rye quality factors*, 50 years ICC (International Association for Cereal Science and Technology) – Jubilee Conference 1955-2005, Cereals – The Future Challenge, Viena, Austria, 3-6 iulie, Book of Abstracts, pg. 62, 2005.
6. **Banu Iuliana**, *Factors Influencing the Contents of Deteriorated Starch in Wheat Flour*, Simpozionul International Proceeding of the International Conference Agricultural and Food Sciences, Processes and Technologies, Universitatea Lucian Blaga Sibiu, pg. 33-38, ISBN 973-739-094-6, 2005.
7. **Banu Iuliana**, *Distributia enzimelor in fractiunile de macinis ale searei*, Simpozionul International Progrese tehnice, tehnologice si stiintifice in industria de morarit – panificatie si sectoare adiacente, Bacau, publicata in Buletin informativ pentru industriile de morarit si panificatie, vol. 16, nr. 1-2, pg. 98-103, ISSN 1222-1120, 2005.
8. Gergely Gyongyver, Talaba Catalin, **Banu Iuliana**, *Variatia indicilor calitativi la fractiunile de faina obtinute la agregatul de laborator Bühler*, Simpozionul International Progrese tehnice, tehnologice si stiintifice in industria de morarit – panificatie si sectoare adiacente, Bacau, publicata in Buletin informativ pentru industriile de morarit si panificatie, vol. 16, nr. 1-2, pg. 68-75, ISSN 1222-1120, 2005.
9. **Banu Iuliana**, *Distributia enzimelor in fractiunile de macinis ale graului*, Simpozionul International Progrese tehnice, tehnologice si stiintifice in industria de morarit – panificatie si sectoare adiacente, Bacau, publicata in BIMP, vol. 16, nr. 1-2, pg. 93-98, ISSN 1222-1120, 2005.
10. **Banu Iuliana**, Moraru Constantin, *Influenta procesului de conditionare hidrica asupra indicilor de panificatie ai fainii de secara*, Simpozionul International Euro-aliment, Galati, publicata in vol simpozionului – Editura Academica, pg. 180-186, ISBN 973-8316-68-5, 2003.

11. **Banu Iuliana**, *Secara si faina de secara – cerinte de calitate*, Simpozionul International Progrese stiintifice, tehnice si tehnologice in industria moraritului si panificatiei, editia a XII-a, Mamaia, publicata in Buletin informativ pentru industriile de morarit si panificatie, 2002, vol. 13, nr.3, pg.18-25, ISSN 1222-1120, 2003.