

## Teza de doctorat

Dospinescu (Roșu) Ana-Maria, 2011. „*Synthèse et étude d'amidons modifiés pour le développement de procédés d'oxydation du benzo[a]pyrène, un modèle de polluant organique persistant*”, Teza de doctorat în co-tutelă, Coordonator științific, Prof.dr.ing. Gheorghe BRABIE, Universitatea „Vasile Alecsandri” din Bacău; Conf.dr.bio. Catherine RAFIN, Université Du Littoral Cote D'Opale, Dunkerque - Franța:

- susținere publică la Université Du Littoral Cote D'Opale, Dunkerque - Franța în 18.11.2011;
- echivalare diplomă cu seria LITTORA, nr. 4727417 de Ministerul Educației, Cercetării, Tineretului și Sportului în Domeniul Biotehnologiei cu Atestat seria L, Nr. 0002051, din 19.11.2012;
- în baza Ordinului Ministrului Educației, Cercetării, Tineretului și Sportului, nr 6508 din 19.12.2012 a fost emisă diploma de doctor Seria H, Nr.0013129 din 15.04.2013, în **Domeniul Inginerie Industrială**.

## Cărți

### Cărți de specialitate

1. **A.M. Roșu**, 2017. *Synthese d'amidons modifiés pour le développement de procedes d'oxydation de polluants organiques persistants*, Editura Alma Mater , Bacău, ISBN 978-606-527-561-4, 140 p.

### Note de curs și Îndrumare de laborator

1. N.D. Miron, **A.M. Roșu**, 2018. *Chimie pentru ingineri - Note de curs*, Editura Alma Mater, Bacău, ISBN 978-606-527-603-1, 245 p.
2. N.D. Miron, **A.M. Roșu**, 2015. *Tehnologii și alimente speciale în industria produselor alimentare – Note de curs*, Editura Alma Mater , Bacău, ISBN 978-606-527-137-1, 130 p.
3. N. Platon, **A.M. Roșu**, 2015. *Tehnologii în industria alimentară – Note de curs*, Editura Alma Mater, Bacău, ISBN 978-606-527-448-8, 200 p.
4. N.D. Miron, **A.M. Roșu**, 2014. *Calitatea și siguranța alimentelor – Note de curs*, Editura PIM, Iași, ISBN 978-606-13-1937-4, 135 p.
5. N.D. Miron, **A.M. Roșu**, 2014. *Metode de condiționare și conservare a produselor ecologice – Note de curs*, Editura PIM, Iași, ISBN 978-606-13-1936-7, 247 p.
6. **A.M. Roșu**, N. Platon, 2013. *Chimia alimentelor – Tehnici de laborator*, Editura Alma Mater, Bacău, ISBN 978-606-527-311-5, 108 p
7. N.D. Miron, **A.M. Dospinescu**, 2007. *Chimie anorganică – Tehnici de laborator*, Editura Alma Mater, Bacău, ISBN 978-973-1833-06-4, 188 p
8. N.D. Miron, **A.M. Dospinescu**, A.V. Ursu, 2007. *Aditivi și amelioratori în industria alimentară – Tehnici de laborator*, Editura Alma Mater, Bacău, ISBN 978-973-8392-07-1, 125 p
9. N.D. Miron, I.D. Nistor, **A.M. Dospinescu**, 2007. *Chimie generală – Tehnici de laborator*, Editura Alma Mater, Bacău, ISBN 978-973-1833-09-5, 126 p

## Invenții și Brevete

### Brevet de invenții

1. Stan G., Romanescu M.C., Pal A., **Dospinescu A.M.**, 2010. *Stand pentru încercarea la rezistență a corpurilor de robinet*, Oficiul de Stat pentru Invenții și Mărci, București, RO122935B1

## Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale (POS, Socrates, Leonardo sa)

1. Acord bilateral ERASMUS Universitatea „Vasile Alecsandri” din Bacău, România și Université du Littoral Cote d'Opale Dunkerque Franța începând cu data de 1.10.2011

## Granturi / proiecte câștigate prin competiție inclusiv proiecte de cercetare / consultanță

1. *Internațională - Director / responsabil*  
Bursă doctorală de excelență „Eiffel” acordată de Ministerul Afacerilor Externe (Dosar nr.690572B - Competiție internațională - 2011) - 14500 euro
2. *Internațională – Responsabil / Beneficiar*

3. Bursă postdoctorală de excelență acordată de Institutul Francez – Competiție internațională – 2015 – 7500 euro  
Naționale  
Proiect CEEEX, modul III, nr. 246/2006 – **membru**: *Dezvoltarea parteneriatului stiintific in domeniul sintezei si utilizarii nanomaterialelor in tehnologii neconventionale de decontaminare a apelor poluate* – ECONAO, durata proiectului: 24 luni.  
Proiect PNCD II, nr. 31093.1/14.09.2007 – **asistent cercetare**: *Cercetari privind utilizarea barierele reactive la tratarea apelor reziduale rezultate la uzinele de procesare a minereurilor uranifere* – URTECH ; durata proiectului: 36 luni.  
Proiect PNCD II, nr. 21037.2/14.09.2007 – **asistent cercetare**: *Tehnologie energetica durabila, în vederea promovarii resurselor minerale uranifere indigene, prin optimizarea procedului de purificare a uraniului* – TEDPUR ; durata proiectului: 36 luni.  
Proiect PNCD II, nr. 21074/14.09.2007 – **asistent cercetare**: *Tehnologie noua de separare a uraniului prin extractie cu solventi, în câmp de ultrasunete, cu impact benefic asupra reducerii contaminarii cu uraniu a arealului înconjurator* – UEXUS ; durata proiectului: 36 luni.
4. Naționale – **Asistent proiect**  
ROSE – "Ingineria o carieră de viitor - ING-UP!" 73/SGU/NC/I – 2018, durata proiectului: 36 luni.

#### Articole / studii publicate în reviste de specialitate și volume ale unor manifestări științifice

##### Articole publicate în reviste indexate ISI

1. S. Andrei, I.V. Rati, **A.M. Rosu**, V. Zichil, D.I. Nistor, 2021. *Ecological contributions to some soils in greenhouses for vegetable production*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, Volume: 22 Issue: 4 pages 509 - 520
2. D.C. Mirilă, M.Ș. Pîrvan, **A.M. Roșu**, V. Zichil, I.D. Nistor, 2018. *Activated adsorption on clay of micropollutants from paper printing industry*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, Volume: 19 Issue: 1 pages 063 - 072
3. **A.M. Roșu**, C.G. Grigoras, C. Rafin, E. Veignie, 2017. *A green chemical approach of corn starch modification for innovative solutions in adsorption of polycyclic aromatic hydrocarbons*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, Volume: 18, Issue: 1, Pages: 097-100
4. **Roșu A.M.**, Voicu R.E., Nicuta, D., 2016. *Comparative Study Of Pigments On Regenerants From In Vitro And Spontaneous Flora Of Thymus Sp.*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, Volume: 17, Issue: 4, Pages: 395-403
5. Arus V.A., Nistor I.D., Platon N., **Roșu A.M.**, Muntianu G., Jinescu, C., 2015. *Statistical modelling and optimization of lactic acid fermentation in the presence of anionic clay and ultrasonic field*, Revista de Chimie, Volume 66, Issue 1, Pages 88-91
6. **A.M. Roșu**, E. Veignie, G. Surpateanu, G. Brabie, D.N. Miron, C. Rafin, 2013. *Synthesis of alkylated potato starch derivatives and their potential in the aqueous solubilization of benzo[a]pyrene*, Carbohydrate polymers, Volume 83, Issue 4, 1 February 2011, Pages 1486-1491, ISSN: 0144-8617.
7. **A.M. Roșu**, C. Rafin, G. Surpateanu, G. Brabie, D.N. Miron, E. Veignie, 2011. *Synthesis and evaluation of hydroxypropylated potato starch as polymeric support for benzo[a]pyrene degradation by Fenton reaction*, Carbohydrate Polymers, Volume 93, Issue 1, 1 March 2013, Pages 184-190, ISSN: 0144-8617.

##### Articole publicate în reviste indexate BDI

1. A. I.Simion, C.G. Grigoras, **A.M. Roșu**, L.Gavrila, 2015. *Mathematical modelling of density and viscosity of NaCl aqueous solutions*, Journal of Agroalimentary Processes and Technologies, 21 (1), 41-52.

**Ana-Maria ROȘU** – Lista lucrărilor elaborate și publicate

2. **A.M. Roșu**, N. Platon, V.A. Aruș, N.D. Miron, I.D. Nistor, G. Brabie, **2014**. Experimental Study Regarding Mechanical Properties Of FeP-05-MB Sheet Steels Submitted To Corrosive Mediums, Journal Of Engineering Studies And Research, Bacău - Issue Nr. 1 - Volume 20
3. **A.M. Roșu**, N. Platon, V.A. Aruș, N.D. Miron, I.D. Nistor, G. Brabie, **2013**. *Experimental study regarding mechanical properties of FeP-05-MB sheet steels submitted to corrosive mediums*, Journal of Engineering Studies and Research, Bacău, - Issue No.4 - Volume 19
4. N. Platon, **A.M. Roșu**, V.A. Aruș, D.I. Nistor, I. Siminiceanu, **2013**. *Chemically modified clays used for environmental quality*, Journal of Engineering Studies and Research, Bacău, Issue No.4 - Volume 19
5. G. Muntianu, N. Platon, V.A. Aruș, **A.M. Roșu**, D.I. Nistor, G. Jinescu, **2013**. *Hydrodynamic study of clay particles in fluidized bed*, Journal of Engineering Studies and Research, Bacău, Issue No.2 - Volume 19
6. R.M. Cojocaru, I.M. Popa, G. Surpățeanu, **A.M. Roșu**, N.D. Miron, I.D. Nistor, **2012**. *Study concerning the extraction of photosynthetic pigments from spinach*, Buletinul Institutului Politehnic Din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Tomul LVII (LXI), Fasc. 3, 2012, **Secția Chimie și Inginerie Chimică**, p. 101-109, ISSN 0254-7104
7. A.E. Farkas, D. Scutaru, D.N. Miron, **A.M. Roșu**, C.E. Țebrencu, I.D. Nistor, **2012**. *Study concerning the utilization of cellulose derivatives as development support for microorganisms*, Buletinul Institutului Politehnic Din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Tomul LVII (LXI), Fasc. 3, 2012, **Secția Chimie și Inginerie Chimică**, p.131-140, ISSN 0254-7104
8. **A.M. Roșu**, D.I. Nistor, N.D. Miron, M.I. Popa, R. M. Cojocaru, **2012**. *Ultrasound-assisted extraction of photosynthetic pigments from dried dill (Anethum Graveolens)*, Food and Environment Safety - Journal of Faculty of Food Engineering, Ștefan cel Mare University – Suceava, Volume XI, Issue 4, p. 5-9, ISSN: 2068-6609
9. **A.M. Roșu**, Gh. Brabie, N.D. Miron, I.D. Nistor, **2009**. *Experimental study regarding influence of the microbiological corrosive medium over the mechanical properties of the Al6061T4 metallic material*, Annals of „Dunărea de Jos” University of Galați, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year I (XXXII), Proceedings of the 1<sup>st</sup> International Symposium on Applied Physics – Materials Science, Environment and Health (ISAP1), Galați, November 28<sup>th</sup>-29<sup>th</sup>, ISSN – 2066 - 7124

**Articole / studii publicate în volume ale unor manifestări științifice internaționale**

1. **A.M. Roșu**, R.M. Zavada, A.E. Farkas, C. Rafin, G. Surpățeanu, I.D. Nistor, N.D. Miron, G. Brabie, **2013**. *L'influence de la qualite d'un milieu microbiologique sur la biocorrosion des toles metalliques*, International Conference of Applied Sciences, Chemistry and Chemical Engineering - Seventh Edition, May 15th –18th 2013, Bacău, Romania, p. 190-192, ISSN 2066-7817
2. **A.M. Roșu**, R.M. Zavada, A.E. Farkas, C. Rafin, G. Surpățeanu, I.D. Nistor, N.D. Miron, G. Brabie, **2012**. *Optimisation de la qualite du milieu microbiologique par un program factorielle concernant la biocorrosion sur les toles metalliques de type FeP-05-MB*, Acte du septieme Colloque Franco-Roumain de Chimie Appliquee, COFrRoCA, 27-29 juin, Bacău, p. 171-172, ISSN 2068-6382
3. **Roșu A.M.**, Veignie E., Surpățeanu G., Brabie G., Miron D.N., Rafin C., **2012**. *Exploration de la biodiversite des champignons saprotrophes pour le developpement de methodes biologiques de degradation des polluants organiques persistants*, International Conference of Applied Sciences, Chemistry and Chemical Engineering – Sixth Edition, April 24th-27th 2012, Bacău, Romania, p. 133-139, ISSN 2066-7817
4. **A.M. Roșu**, R.M. Zavada, I.D. Nistor, N.D. Miron, **2011**. *Analysis of some qualitative parameters of meat smoked with different technological methods*, Papers of the International Symposium EURO-ALIMENT, From Food Science to Food Industry, Bridging Education and Research with Engineering and Industry, October 6-7, 2011, University “Dunarea de Jos” Galați, p. 25, ISSN 1843-5114
5. **A.M. Roșu**, G. Brabie, G. Surpățeanu, I.D. Nistor, N.D. Miron, **2011**. *Optimization of microbiological medium quality through factorial programmer concerning the prevention of biocorrosion on metallic materials*, International Conference of Applied Sciences, Chemistry and Chemical Engineering – Book of Abstracts, April 28th-30th 2011, Bacău, Romania, p. 96, ISSN 2066-7817

**Ana-Maria ROȘU** – Lista lucrărilor elaborate și publicate

6. C.Rafin, **A.M. Roșu**, E. Veignie, 2010. *Exploration of telluric fungi biodiversity for developing soft remediation technologies of hydrocarbons polluted soils*, International Conference of Applied Sciences, Chemistry and Chemical Engineering – CISA 2010, April 8-11 2010, Slănic Moldova, Bacău, Romania, p. 53-73, ISSN 2066-7817
7. **A.M. Roșu**, N.D. Miron, A. Ciobanu, I.D. Nistor, M. Conuțoae, 2009. *The optimization of the carrot juice quality enriched with different extract fruits*, Papers of the International Symposium EURO-ALIMENT, Challenges for Food Science and Food Industry in the Recession Era, October 9-10, 2009, University "Dunarea de Jos" Galați, p. 186-194, ISSN 1843-5114
8. **A.M. Roșu**, N.D. Miron, I.D. Nistor, G. Brabie, G. Surpățeanu, 2009. *Presentation of the defferent methods of metals corrosion used in industrial domain*, International Conference of Applied Sciences, Chemistry and Chemical Engineering – CISA 2009, 2-5 April 2009, Slănic Moldova, Bacău, Romania, p. 246-252, ISSN 2066-7817
11. **A.M. Dospinescu**, A. Grădinaru, N.D. Miron, I.D. Nistor, 2007. *Optimization to the manufacturing process of smokes meats*, First Edition of the Applied Sciences Symposium-ASS 2007, 13-15 April 2007, Slănic-Moldova, Bacău, p. 66-75, ISSN 1843-1003
12. A. Grădinaru, **A.M. Dospinescu**, I.D. Nistor, N.D. Miron, 2007. *The influence of technological parameters process to obtain a yoghurt with fruit pulp*, First Edition of the Applied Sciences Symposium-ASS 2007, 13-15 April 2007, Slănic-Moldova, Bacău, p. 76-87, ISSN 1843-1003
13. N.D. Miron, **A.M. Dospinescu**, P.I.Dron, 2005. *Study on the presence of lead in surface waters and on lead accumulation in fishes*, Papers of the International Symposium EURO-ALIMENT, 29-30 September 2005, University "Dunarea de Jos" Galați, p. 163-166, ISBN 973-8316-87-1

**Lucrări / studii prezentate la manifestări științifice naționale/internaționale sub formă de conferință orală sau poster**

1. **A.M. Rosu**, G. Muntianu, C.G. Grigoras, N.D. Miron, A.I. Simion, 2016. *Intensification des procedes d'extraction des principaux pigments d'ocinum basilicum sp.*, International Conference of Applied Sciences, Chemistry and Chemical Engineering – CISA 2016, Bacău, Romania, **Conferință orală**
  - A.M. Roșu**, R.M. Zavada, A.E. Farkas, C. Rafin, G. Surpățeanu, I.D. Nistor, N.D. Miron, G. Brabie, 2013. *L'influence de la qualite d'un milieu microbiologique sur la biocorrosion des toles metalliques*, International Conference of Applied Sciences, Chemistry and Chemical Engineering - Seventh Edition, May 15th –18th 2013, Bacău, Romania, **Conferință orală**
  2. **A.M. Roșu**, R.M. Zavada, A.E. Farkas, C. Rafin, G. Surpățeanu, I.D. Nistor, N.D. Miron, G. Brabie, 2012. *Optimisation de la qualite du milieu microbiologique par un program factorielle concernant la biocorrosion sur les toles metalliques de type FeP-05-MB*, Acte du septieme Colloque Franco-Roumain de Chimie Appliquee, COFrRoCA, 27-29 juin, Bacău, **Conferință orală**
  3. **Roșu A.M.**, Veignie E., Surpățeanu G., Brabie G., Miron D.N., Rafin C., 2012. *Exploration de la biodiversite des champignons saprotrophes pour le developpement de methodes biologiques de degradation des polluants organiques persistants*, International Conference of Applied Sciences, Chemistry and Chemical Engineering – Sixth Edition, April 24th-27th 2012, Bacău, Romania, **Conferință orală**
  4. **A.M. Roșu**, C. Rafin, G. Surpățeanu, G. Brabie, D.N. Miron, E. Veignie, 2011. *Synthesis of alkylated potato starch derivatives and their environmental application in persistent organic pollutants degradation*, The 2nd EPNOE Polysaccharide Conference, called "Polysaccharides as source of advanced and sustainable products", will take place in Wageningen, Netherlands, from August 29 to September 2, 2011 – **Conferință orală**
  5. **A.M. Roșu**, A. Fayeulle, S. Fourmentin, D. Landy, E. Veignie, C. Rafin, 2010, *Utilisation des polysaccharides naturels ou modifiés pour la biodégradation des hydrocarbures aromatiques polycycliques par les champignons telluriques saprotrophes*, 13èmes Journées du Club Français des Cyclodextrines, 9 et 10 décembre 2010, Dunkerque, Franța, **Conferință orală**
6. **A.M. Rosu**, I. Delsarte, E. Veignie, C. Rafin, 2016. *Modifications chimiques d'amidon de pomme de terre pour stimuler la solubilité aqueuse du benzo[a]pyrene*, International Conference of Applied Sciences, Chemistry and Chemical Engineering – CISA 2016, Bacău, Romania, **Poster**
  7. **A.M. Rosu**, A. I. Simion, C. Rafin, E. Veignie, 2016. *Modifications chimiques d'amidon de maïs pour des solutions innovantes de réhabilitation des sols pollués*, Acte du neuvieme Colloque Franco-Roumain de Chimie Appliquee, COFrRoCA, Clermont-Ferrand, Franta, **Poster**

**Ana-Maria ROȘU – Lista lucrărilor elaborate și publicate**

8. R.M. Cojocaru, I.M. Popa, G. Surpățeanu, **A.M. Roșu**, N.D. Miron, I.D. Nistor, 2012. *Study concerning the extraction of photosynthetic pigments from spinach*, Buletinul Institutului Politehnic Din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Tomul LVII (LXI), Fasc. 3, 2012, Secția Chimie și Inginerie Chimică, **Poster**
9. A.E. Farkas, D. Scutaru, D.N. Miron, **A.M. Roșu**, C.E. Țebrencu, I.D. Nistor, 2012. *Study concerning the utilization of cellulose derivatives as development support for microorganisms*, Buletinul Institutului Politehnic Din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iași, Tomul LVII (LXI), Fasc. 3, 2012, Secția Chimie și Inginerie Chimică, **Poster**
10. **A.M. Roșu**, R.M. Zavada, I.D. Nistor, N.D. Miron, 2011. *Analysis of some qualitative parameters of meat smoked with different technological methods*, Papers of the International Symposium EURO-ALIMENT, From Food Science to Food Industry, Bridging Education and Research with Engineering and Industry, October 6-7, 2011, University “Dunarea de Jos” Galați, **Poster**
11. **A.M. Roșu**, N.D. Miron, A. Ciobanu, I.D. Nistor, M. Conuțoae, 2009. *The optimization of the carrot juice quality enriched with different extract fruits*, Papers of the International Symposium EURO-ALIMENT, Challenges for Food Science and Food Industry in the Recession Era, October 9-10, 2009, University “Dunarea de Jos” Galați, **Poster**
12. **A.M. Roșu**, Gh. Brabie, N.D. Miron, I.D. Nistor, 2009. *Experimental study regarding influence of the microbiological corrosive medium over the mechanical properties of the Al6061T4 metallic material*, Annals of „Dunărea de Jos” University of Galați, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year I (XXXII), Proceedings of the 1<sup>st</sup> International Symposium on Applied Physics – Materials Science, Environment and Health (ISAP1), Galați, November 28<sup>th</sup>-29<sup>th</sup>, **Poster**
13. **A.M. Dospinescu**, A. Grădinaru, A.M. georgescu, A.V. Ursu, N.D. Miron, I.D. Nistor, 2008. *L'étude concernant l'influence de la conservation de différents especes de poisson sur quelques parametres physico-chimiques*, International Conference of Applied Sciences, Chemistry and Chemical Engineering – CISA 2008, 4-6 April 2008, Slănic Moldova, Bacău, Romania, **Poster**
14. I.D. Nistor, A. Grădinaru, N.D. Miron, **A.M. Dospinescu**, 2007. *Mathematical shaping of experimental data concerning the influence of underbrush extract to obtaining of apple juice*, Papers of the International Symposium EURO-ALIMENT, 20-21 September 2007, University “Dunarea de Jos” Galați, **Poster**
15. **A.M. Dospinescu**, A. Grădinaru, N.D. Miron, I.D. Nistor, 2007. *Optimization to the manufacturing process of smokes meats*, First Edition of the Applied Sciences Symposium-ASS 2007, 13-15 April 2007, Slănic-Moldova, Bacău, **Poster**
16. A. Grădinaru, **A.M. Dospinescu**, I.D. Nistor, N.D. Miron, 2007. *The influence of technological parameters process to obtain a yoghurt with fruit pulp*, First Edition of the Applied Sciences Symposium-ASS 2007, 13-15 April 2007, Slănic-Moldova, Bacău, **Poster**
17. N.D. Miron, **A.M. Dospinescu**, P.I. Dron, 2005. *Study on the presence of lead in surface waters and on lead accumulation in fishes*, Papers of the International Symposium EURO-ALIMENT, 29-30 September 2005, University “Dunarea de Jos” Galați, **Poster**

**Data completării,**

**Semnătura,  
Ș.L. dr. ing. Ana-Maria ROȘU**