



LISTA LUCRĂRILOR PUBLICATE

Șef de lucrări dr. ing. habil. Ana-Maria ROȘU

10 LUCRĂRI CONSIDERATE RELEVANTE PENTRU REALIZĂRILE PROFESIONALE PROPRII

1. Doroftei, R.F.; Silion, M.; Ioniță, D.; Dascalu, A.; Nedeff, F.; Georgescu, A.-M.; **Rosu, A.-M.**; Mirila, D.; Nistor, I.-D. *From Nature to Remediation: Biomaterials for Malachite Green Retention and Degradation*. Materials **2025**, 18, 4374. <https://doi.org/10.3390/ma18184374> (FI2025=3,2)
2. Muntianu, G.; Georgescu, A.-M.; **Rosu, A.-M.***; Platon, N.; Arus, V.A.; Jinescu, C.V.; Nistor, I.D. *Ammonia Gas Adsorption in Fixed Bed and Fluidized Bed Using Bentonite Particles*. Appl. Sci. **2025**, 15, 832, <https://doi.org/10.3390/app15020832> WOS:001404056400001
3. Andreea Hortolomeu, Diana Carmen Mirila, **Ana-Maria Rosu**, Florin Marian Nedeff, Iuri Scutaru, Dorel Ureche, Rodica Sturza, Adriana- Luminita Fînaru, Ileana Denisa Nistor, *Chemically Modified Clay Adsorbents Used in the Retention of Protein and Polyphenolic Compounds from Sauvignon Blanc White Wine*, Nanomaterials, ISSN: 2079-4991, **2024**, 14, 588. <https://doi.org/10.3390/nano14070588> (FI2024=5,3) WOS:001200958100001
4. Hortolomeu A., Mirila D.C., Georgescu A.M., **Rosu A.M.**, Scutaru Y., Nedeff F.M., Sturza R., Nistor I. D.*, **2023**, *Retention of Phthalates in Wine Using Nanomaterials as Chemically Modified Clays with H2O, H3O, H4O Boltron Dendrimers*, Nanomaterials, ISSN: 2079-4991, 13 (16), 2301; <https://doi.org/10.3390/nano13162301> (FI2023 = 5,3) WOS:001056728300001
5. Arus, VA; Georgescu, AM; Platon, N; **Rosu, AM**; Muntianu, G; Teusdea, AC; Vartolomei, N; Nistor, ID, **2024**, *Preliminary Studies Concerning The Influence Of Buckwheat Flour On The Quality Of White Wheat Bread*, Scientific Study And Research-Chemistry And Chemical Engineering Biotechnology Food Industry, Volume: 25 Issue: 2, pages 157-167, ISSN: 1582-540X, (FI2024=0,3) <http://dx.doi.org/10.29081/ChIBA.2024.584>
6. Popa Olga, **Ana-Maria Rosu***, Daniela Nicuta, Roxana Elena Voicu, Valentin Zichil, and Ileana Denisa Nistor. **2022**. *Factorial Design to Stimulate Biomass Development with Chemically Modified Starch*, Applied Sciences 12, no. 19: 10069. <https://doi.org/10.3390/app121910069> (FI2022=2,7) WOS:000866633400001
7. Diana-Carmen, Mirila, Raducanu Dumitra, Georgescu Ana-Maria, **Rosu Ana-Maria**, Ciubotariu Vlad Andrei, Zichil Valentin, and Nistor Ileana- Denisa. **2022**. *Silver Nanoparticles*

Incorporated on Natural Clay as an Inhibitor against the New ISO SS Bacteria Isolated from Sewage Sludge, Involved in Malachite Green Dye Oxidation, Molecules 27, no. 18: 5791. <https://doi.org/10.3390/molecules27185791> (FI2022=4,6) WOS:000858816700001

8. 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 (FI=0) WOS:000396720500010

9. 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, Pages 1486-1491, ISSN: 0144-8617, <https://doi.org/10.1016/j.carbpol.2012.06.062> (FI=3,91). WOS:000316512900026

10. 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, WOS:000286965400006 (F.I. 2011=3,628)

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, Universite Du Littoral Cote D'Opale, Dunkerque Franța:

- susținere publică la Universite 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**.

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

CĂRȚI

CĂRȚI DE SPECIALITATE

1. **A.M. Roșu**, D.C. Mirilă, **2025**. Siguranța produselor alimentare, ISBN – 978-606-527-731-1, Editura Alma Mater, Bacău, 107 p.
2. Daniela Nicuță, **Ana-Maria Roșu***, Roxana-Elena Voicu, **2023**. *Nano- Emulsion Formulations for Food Processing and Enhancing the Nutritional Quality and Shelf Life of Food*, CAB International 2023. Nanoformulations for Sustainable Agriculture and Environmental Risk Mitigation (eds Z. Khan and N.A. Șuțan), DOI: 10.1079/9781800623095.0003
3. **A.M. Roșu**, **2017**. *Synthese d'amidons modifies pour le developpement de procedes d'oxydation de polluants organiques persistants*, Editura Alma Mater , Bacău, ISBN 978-606-527-561-4, 140 p.
4. **G. Muntianu, A.M. Roșu**, **2023**. *Chimia pe înțelesul tuturor. Experimente. Aplicații*. Editura PIM, Iași, ISBN 978-606-13-7528-8, 256 p.
5. G. Muntianu, **A.M. Roșu**, **2023**. *Chimie aplicată*, Editura PIM, Iași, ISBN 9786061377350, 315 p.
6. **A.M. Roșu**, **2025**. *Chimie pentru ingineri, Ed. a II-a* – ISBN 978-606-527-730-4, Editura Alma Mater, Bacău, 102 p.
7. N.D. Miron, **A.M. Roșu**, **2018**. *Chimie pentru ingineri*, Editura Alma Mater, Bacău, ISBN 978-606-527-603-1, 245 p.
8. N.D. Miron, **A.M. Roșu**, **2015**. *Tehnologii și alimente speciale în industria produselor alimentare*, Editura Alma Mater , Bacău, ISBN 978-606-527-137-1, 130 p.
9. N. Platon, **A.M. Roșu**, **2015**. *Tehnologii în industria alimentară*, Editura Alma Mater, Bacău, ISBN 978-606-527-448-8, 200 p.
10. N.D. Miron, **A.M. Roșu**, **2014**. *Calitatea si siguranta alimentelor*, Editura PIM, Iași, ISBN 978-606-13-1937-4, 135 p.
11. N.D. Miron, **A.M. Roșu**, **2014**. *Metode de condiționare și conservare a produselor ecologice*, Editura PIM, Iași, ISBN 978-606-13-1936-7, 247 p.
12. **A.M. Roșu**, N. Platon, **2013**. *Chimia alimentelor*, Editura Alma Mater, Bacău, ISBN 978-606-527-311-5, 108 p
13. N.D. Miron, **A.M. Dospinescu**, **2007**. *Chimie anorganică*, Editura Alma Mater, Bacău, ISBN 978-973-1833-06-4, 188 p
14. N.D. Miron, **A.M. Dospinescu**, A.V. Ursu, **2007**. *Aditivi și amelioratori în industria alimentară*, Editura Alma Mater, Bacău, ISBN 978-973-8392-07-1, 125 p
15. N.D. Miron, I.D. Nistor, **A.M. Dospinescu**, **2007**. *Chimie generală*, Editura Alma Mater, Bacău, ISBN 978-973-1833-09-5, 126 p

ARTICOLE / STUDII IN EXTENSO, PUBLICATE ÎN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL

ARTICOLE PUBLICATE ÎN REVISTE INDEXATE ISI

1. Doroftei, R.F.; Sillion, M.; Ioniță, D.; Dascalu, A.; Nedeff, F.; Georgescu, A.-M.; **Rosu, A.-M.**; Mirila, D.; Nistor, I.-D. *From Nature to Remediation: Biomaterials for Malachite Green Retention and Degradation*. *Materials* **2025**, *18*, 4374. <https://doi.org/10.3390/ma18184374> (FI2025=3,2)
2. Muntianu, G.; Nistor, I.D., Georgescu, A.-M.; **Rosu, A.-M.**; Mirila D-C; Mares M., Jinescu, C.V.; **2025**, *Dynamic study behavior of the fluidized binary mixture bed with bentonite particles*, *Scientific Study And Research - Chemistry And Chemical Engineering Biotechnology Food Industry*, Volume: 25 Issue: 2, pages 047-065, ISSN: 1582-540X, <https://doi.org/10.29081/ChIBA.2025.629> (FI2025=0,3) WOS: 001504837400005
3. V. A.Ciubotariu, C. C. Grigoras, V. Zichil , **A-M Rosu**. **2023** *An adaptive algorithm and additively manufactured punch used 2 to form aluminum sheet metal parts*, *Materials*, *16*, x. <https://doi.org/10.3390/xxxxx> (F.I.2023=3,748)
4. 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 (F.I.2021=0)
5. 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. (F.I.2018=0)
6. **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 (F.I.2016=0)
7. 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 (F.I.2016=1,755)

ARTICOLE PUBLICATE ÎN REVISTE INDEXATE BDI

1. Olga Popa, Andrei-Vlad Ciubotariu, Cosmin Constantin Grigoraș, **Ana-Maria Roșu***, Valentin Zichil, **2022**, *Sudy regarding the influence of corrosive agents on the surface of metallic material like steel*, *Journal of Engineering Studies and Research*, Vol. 28, Nr 2, Pag 92-99.

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2. Augustin Jitaru, Cosmin Constantin Grigoraş, Gheorghe Brabie, **Ana-Maria Roşu**, Lucian-Marius Roşu, **2022**, *Magnesium Alloy AZ31B Forming Limit Curve Using The Nakazima Test*, Journal of Engineering Studies and Research, Vol. 28, Nr 1, Pag 53-58.
 3. Olga Popa, **Ana-Maria Roşu***, Valentin Zichil, **2021**, *A review of metallic materials corrosion*, Buletinul Institutului Politehnic Din Iaşi. Secţia Matematica. Mecanică Teoretică. Fizică, Vol. 67, Nr 4, Pag. 39-58.
 4. A.I. Simion, C.G. Grigoras, **A.M. Roşu**, L.Gavrila, **2015**. *Mathematical modelling of density and viscosity of NaCl aqueous solutions*, Journal of Agroalimentary Processes and Technologies, 21 (1), 41-52.
 5. **A.M. Roşu**, N. Platon, V.A. Aruş, N.D. Miron, I.D. Nistor, G. Brabie, **2014**. *Experimental Study Regarding Mechanical Properties Of FeP-05-MB Sheet Steels Submitted To Corosive Mediums*, Journal Of Engineering Studies And Research, Volume 20, Issue Nr. 1, pages:82-90, ISSN 2068-7559
 6. **A.M. Roşu**, G.Muntianu, N.D. Miron, I.D. Nistor, G. Brabie, **2013**. *Determination of microbiological medium quality through a mathematical model concerning the prevention of biocorrosion*, Journal of Engineering Studies and Research, Volume 19, Issue No.4, pages 59-64, ISSN 2068-7559
 7. N. Platon, **A.M. Roşu**, V.A. Aruş, 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
 8. G. Muntianu, N. Platon, V.A. Aruş, **A.M. Roşu**, 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
 9. R.M. Cojocaru, I.M. Popa, G. Surpăţeanu, **A.M. Roşu**, N.D. Miron, I.D. Nistor, **2012**. *Study concerning the extraction of photosynthetic pigments from spinach*, Buletinul Institutului Politehnic Din Iaşi, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iaşi, Tomul LVII (LXI), Fasc. 3, 2012, Secţia Chimie şi Inginerie Chimică, p. 101-109, ISSN 0254-7104
 10. A.E. Farkas, D. Scutaru, D.N. Miron, **A.M. Roşu**, C.E. Ţebrencu, I.D. Nistor, **2012**. *Study concerning the utilization of cellulose derivates as development support for microorganisms*, Buletinul Institutului Politehnic Din Iaşi, Publicat de Universitatea Tehnică „Gheorghe Asachi” din Iaşi, Tomul LVII (LXI), Fasc. 3, 2012, Secţia Chimie şi Inginerie Chimică, p.131-140, ISSN 0254-7104
 11. **A.M. Roşu**, 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, Ştefan cel Mare University – Suceava, Volume XI, Issue 4, p. 5-9, ISSN: 2068-6609

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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 1st International Symposium on Applied Physics – Materials Science, Environment and Health (ISAP1), Galati, November 28th-29th, ISSN – 2066 – 7124

**PUBLICAȚII IN EXTENSO, APĂRUTE ÎN LUCRĂRI ALE
PRINCIPALELOR CONFERINȚE INTERNAȚIONALE DE
SPECIALITATE**

1. **A.M. Roșu**, R.M. Zavada, A.E. Farkas, C. Rafin, G. Surpateanu, 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. Surpateanu, 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., Surpateanu 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
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

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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 different 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
 9. **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
 10. 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
 11. 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

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