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Gradul didactic: Conferențiar  
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## L I S T A

### lucrărilor științifice în domeniul disciplinelor din postul didactic

#### A. Teza de doctorat/Teză de abilitare

Teza de doctorat: **Radu Florina**, *Contribuții la obținerea și caracterizarea unor derivați ai acizilor abietici*, Universitatea Politehnică din Timișoara, Conducător științific: Prof. univ. dr. ing. Alfa Xenia Lupea, **Doctor în Inginerie Chimică**, Diplomă de DOCTOR seria D nr. 0005011, acordată în baza O.M nr. 4802 din 15.08.2005.

#### B. Cărți și capitole în cărți publicate în ultimii 10 ani (2013-2022)

1. Radu-Vasile Bagiu, Ioan Sarac, **Radu Florina**, Romeo-Teodor Cristina, Monica Butnariu Iulia- Cristina Bagiu, *Bioremediation and Biotechnology*, ISBN: 978-3-030-46074-7, Editura International Publishing, **2020**, vol.3, capit. 5, 39 pg, DOI: 10.1007/978-3-030-46075-4\_5
2. Bonciu E., Sarac I., Pentea M., **Radu F.**, Butnariu M., *Bioremediation and Biotechnology*, ISBN: 978-3-030-46074-7, Editura International Publishing, **2020**, vol.3, capit. 9, 32 pg, DOI: 10.1007/978-3-030-46075-4\_9
3. Bagiu IC., Sarac I., **Radu F.**, Bostan C., Butnariu M., Bagiu RV. *Bioremediation and Biotechnology*, ISBN: 978-3-030-46074-7, Editura International Publishing, **2020**, vol.3, capit. 6, 34 pg, DOI: 10.1007/978-3-030-46075-4\_6
4. **Radu Florina**. *Tehnologii in industria laptelui (I)*, ISBN:978-973-132-922-1, Editura Eurobit, Timisoara, 2022, 175pg.
5. **Radu Florina**. *Metode spectroscopice de analiză a alimentelor*, ISBN:978-973-132-925-5, Editura Eurobit, Timișoara, 2022, 160pg

#### C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani (2013-2022)

##### C.1. Lucrări indexate ISI (cu factor de impact) – pentru toată activitatea

1. Iovan M., **Radu F.**, Rotaru L., **2016**, *Amaranthus Hypochondriacus and Chenopodium Quinoa, Ingredients with High Nutritive Value in Gluten – Free Sweet Products Formulations*. *Revista de Chimie*, vol. 67(5), 902-907, (FI=1.232), (Q3 și Q4), [Amaranthus Hypochondriacus and Chenopodium Quinoa, Ingredients with High Nutritive Value in Gluten - Free Sweet Products Formulations-Web of Science Core Collection](#)
2. Raba DN, Poiana M-A, Borozan AB, Stef M, **Radu F**, Popa M-V., **2015**, Investigation on crude and high-temperature heated coffee oil by ATR-FTIR spectroscopy along with antioxidant and antimicrobial properties. *PLoS ONE*, 10(9): e0138080. doi:10.1371/journal.pone.0138080, <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0138080>, (FI=3.234), (Q1) WOS:000361601100217

3. Stoin D., Pirsan P., **Radu F.**, Poiana M.-A., Alexa E., Dogaru D., **2009**, Studies regarding the myrosinase enzymatic activity from black mustard (*Brassica nigra*) seeds, *Journal of Food, Agriculture and Environment* Vol.7(1), 44-47, FI=0.435, (Q3 și Q4), [Studies regarding the myrosinase enzymatic activity from black mustard \(\*Brassica nigra\*\) seeds-Web of Science Core Collection](#)
4. Gherman V.D., Breheret J.G., Motoc M., Negrea A., **Florina Radu, 2008**, The sulphur and iron metabolism in acidophilic microbial gelatinous formations from an auriferous sulphides mine from the South-West of Romania, *Revista de Chimie*, vol. 59(10), 1164-1168, (FI=0.261), (Q3 și Q4), [The Sulphur and Iron Metabolism in Acidophilic Microbial Gelatinous Formations from an Auriferous Sulphides Mine from the South-West of Romania-Web of Science Core Collection](#)
5. Daniela Mucete, **Florina Radu**, Ionel Jianu, Paul Pârșan, Luminița Cojocariu, **2006**, Researches Concerning the Activity of Myrosinase in Horseradish Water Extracts, *Revista de Chimie*, vol. 56(12), 1302-1305, (FI=0.261), (Q3 și Q4), [Researches concerning the activity of Myrosinase in horseradish water extracts-Web of Science Core Collection](#)
6. Svetlana Cacig, **Florina Radu**, Alfa-Xenia Lupea, **2006**, Analiza flavonoidelor din *Hydrangea paniculata* și *Ziziphus jujuba* prin flash cromatografie și cromatografie de lichide de înaltă performanță, *Revista de Chimie*, vol. 56(12), 1197-1202, (FI=0.261), (Q3 și Q4), [Analysis of flavonoids in \*Hydrangea paniculata\* and \*Ziziphus jujuba\* extracts using flash chromatography and HPLC-Web of Science Core Collection](#)
7. I.Gergen, **Florina Radu**, D. Bordean, H-D Isengard, **2006**, Determination of water content in bee pollen samples by Karl Fischer titration, *Food Control* 17 (3), 176-179, FI= 1.98 (Q2) <https://doi.org/10.1016/j.foodcont.2004.09.018>
8. M. Poiana, I. Gergen, **Florina Radu**, E. Alexa, **2005**, The changes of different type of phosphorus in bread by addition of germinated cereals flour, *Revista de Chimie*, vol. 56(5), 505-514, (FI=0.261), (Q3 și Q4), [The changes of different types of phosphorus in bread by addition of germinated cereals flour-Web of Science Core Collection](#).
9. I. Gergen, **Florina Radu**, M. Poiana, **2005**, Determinarea umidității la polenul apicol prin metoda uscării cu radiații infraroșii cu o lampă de halogen, *Revista de Chimie*, vol. 56(1), 54-57, (FI=0.261), (Q3 și Q4), [Bee's pollen moisture determination by halogen lamp infrared drying method-Web of Science Core Collection](#)
10. **Florina Radu**, Alfa Xenia Lupea, A. Borozan, S. Cacig, **2005**, Studies regarding the primary biodegradation of the alkaline metal abietic acid salts by means of a spectrophotometric method, *Revista de Chimie*, vol. 56(5), 559-564, (FI=0.261), (Q3 și Q4), [Studies regarding the primary biodegradation of the alkaline metal abietic acid salts by means of a spectrophotometric method-Web of Science Core Collection](#)
11. Alfa-Xenia Lupea, **Florina Radu**, I. Gergen, **2003**, Abietic acid ammonium salts, biodegradable surface-active agents, with antimicrobial activity, *Revista de Chimie*, vol. 54(11), 942-948, (FI=0.261), (Q3 și Q4), [Abietic acid ammonium salts, biodegradable surface-active agents with antimicrobial activity-Web of Science Core Collection](#)

## **C.2. Lucrări științifice publicate Cotate ISI / indexate ISI fără factor de impact/proceeding - pentru toată activitatea**

1. Cozma Antoanela; Petcu Mihaela; **Radu Florina**; Mircov Vlad; Rada Maria, **2018**, Sheep's cheese- source of mineral elements, *18th International Multidisciplinary Scientific GeoConference SGEM 2018, SGEM2018 Conference Proceedings*, 18(6.2), 562-572, DOI: 10.5593/sgem2018/6.2/S25.075, [Publication - SHEEPS CHEESE SOURCE OF MINERAL ELEMENTS \(sgem.org\)](#)
2. **F. Radu**, L. Rotariu, M. Butnariu, 2018, Inactivation of *St. Aureus* and *Escherichia Coli* by essential oil from sage (*salvia* species) in telemea cheese. *18th International Multidisciplinary Scientific GeoConference SGEM 2018, SGEM2018 Conference Proceedings*, 18(6.4), 187-194, DOI: 10.5593/sgem2018V/6.4/S08.024, [Publication - INACTIVATION OF ST. AUREUS AND ESCHERICHIA COLI BY ESSENTIAL OIL FROM SAGE \(SALVIA SPECIES\) IN TELEMEEA CHEESE \(sgem.org\)](#)

3. **F. Radu**, S. Popescu, L. Rotariu, A. Cozma, M. Butnariu, **2018**, Effect of some probiotic bacteria on the reduction of aflatoxin B1 production in stored Arabica coffee beans, *18th International Multidisciplinary Scientific GeoConference SGEM 2018, SGEM2018 Conference Proceedings*,18(6.4), 135-142, DOI: 10.5593/sgem2018V/6.4/S08.018, [Publication - EFFECT OF SOME PROBIOTIC BACTERIA ON THE REDUCTION OF AFLATOXIN B1 PRODUCTION IN STORED ARABICA COFFEE BEANS \(sgem.org\)](#)
4. **F. Radu**, I. Popescu, D.G. Dumbrava, C. Moldovan, L. Rotariu, **2017**, Influence of milk heat treatment and salting methods on composition, proteolysis and volatile profile of Nasal cheese, *17th International Multidisciplinary Scientific GeoConference SGEM 2017, Conference Proceedings*,17(6.1), 753-760, DOI: 10.5593/sgem2017/61/S25.098, [Publication - INFLUENCE OF MILK HEAT TREATMENT AND SALTING METHODS ON COMPOSITION, PROTEOLYSIS AND VOLATILE PROFILE OF NASAL CHEESE \(sgem.org\)](#)
5. **F. Radu**, I. Popescu, L. Micula, D. Stoin, A. Cozma, **2017**, Simultaneous determination of acetoin and diacetyl in yogurt by a spectrophotometric method, 2017, *17th International Multidisciplinary Scientific GeoConference SGEM 2017, Conference Proceedings*,17(63), 343-350, DOI: 10.5593/sgem2017H/63/S25.044, [Publication - SIMULTANEOUS DETERMINATION OF ACETOIN AND DIACETYL IN YOGURT BY A SPECTROPHOTOMETRIC METHOD \(sgem.org\)](#)
6. C. Moldovan, V.M. Popa, D.N. Raba, **F. Radu**, D.G. Dumbrava, **2017**, Minerals profile of some broiler chicken tissues and organs consecutive selenium intake, *17th International Multidisciplinary Scientific GeoConference SGEM 2017, Conference Proceedings*,17(61), 821-828, DOI: 10.5593/sgem2017/61/S25.107, [Publication - MINERALS PROFILE OF SOME BROILER CHICKEN TISSUES AND ORGANS CONSECUTIVE SELENIUM INTAKE \(sgem.org\)](#)
7. A. Cozma, L. Micula, **F. Radu**, D. Lalescu, M. Petcu, **2017**, Nutritional and physicochemical aspects of fresh and commercial fruit juices, *17th International Multidisciplinary Scientific GeoConference SGEM 2017, Conference Proceedings*,17(63), 287-294, DOI: 10.5593/sgem2017H/63/S25.037, [Publication - NUTRITIONAL AND PHYSICOCHEMICAL ASPECTS OF FRESH AND COMMERCIAL FRUIT JUICES \(sgem.org\)](#)
8. **Florina Radu**, I. Popescu, V. M. Popa, D. G. Dumbrava, D.N. Raba, Ascorbic acid spectrophotometric assay study on yoghurt and yoghurts with fruits, **2016**, *16th International Multidisciplinary Scientific GeoConference SGEM 2016, Conference Proceedings*, 1 (6), 421-428, DOI: 10.5593/SGEM2016/B61/S25.055, [ASCORBIC ACID SPECTROPHOTOMETRIC ASSAY STUDY ON YOGHURTS AND YOGHURTS WITH FRUITS-Web of Science Core Collection](#)
9. D.G. Dumbrava, D.N. Raba, C. Moldovan, **F. Radu**, M.V. Popa, **2016**, The antioxidant activity of some grapes varieties, *16th International Multidisciplinary Scientific GeoConference SGEM 2016, Conference Proceedings*, 1 (6), 791-798, DOI: 10.5593/SGEM2016/B61/S25.105, [THE ANTIOXIDANT ACTIVITY OF SOME GRAPES VARIETIES-Web of Science Core Collection](#)
10. Delia-Gabriela Dumbrava, **Florina Radu**, Diana-Nicoleta Raba, Marioara Druga, Camelia Moldovan, Mirela-Viorica Popa, **2014**, Influence of some thermal treatments on chlorophyll and carotenoids content from broccoli, *14th International Multidisciplinary Scientific GeoConference SGEM 2014, Conference Proceedings*, 1 (6), 405-412, DOI:10.5593/sgem2014B61, [INFLUENCE OF SOME THERMAL TREATMENTS ON CHLOROPHYLL AND CAROTENOIDS CONTENT FROM BROCCOLI \(BRASSICA OLERACEA, VAR. BOTRYTIS\) AND BRUSSELS SPROUTS \(BRASSICA OLERACEA, VAR. GEMMIFERA\)-Web of Science Core Collection](#)
11. Camelia Moldovan, Mărioara Drugă, Delia-Gabriela Dumbravă, Diana-Nicoleta Raba, Viorica Popa, Borozan Aurica, M. Drugă, **Florina Radu**. **2014**, The influence of ascorbic acid and polyphenols content after fruits adding in honey, *14th International Multidisciplinary Scientific GeoConference SGEM 2014, Conference Proceedings*, 1 (6), 527-533, DOI: 10.5593/sgem2014B61, [THE INFLUENCE OF ASCORBIC ACID AND POLYPHENOLS CONTENT AFTER FRUITS ADDING IN HONEY-Web of Science Core Collection](#)

12. Daniela Stoin, **Florina Radu**, Diana Dogaru, Parsan Paul, **2008**, Researches regarding the influence of heavy metals hyperaccumulation on the Brassica nigra sinigrin-myrosinase system activity, *Proceedings the 36 International Symposium on Agricultural Engineering "Actual Tasks on Agricultural Engineering"*, 11 – 15 February **2008**, Opatija, Croatia, ISSN 1333-2651, pp. 469-478, [Researches regarding the influence of heavy metals hyperaccumulation on the Brassica nigra sinigrin-myrosinase system activity-Web of Science Core Collection](#).
13. Daniela Mucete, Mariana Poiana, I Jianu, **Florina Radu**, **2006**, Myrosinase activity in Armoracia rusticana *Bulletin of the University of Agricultural Sciences and Veterinary Medicine*, vol 62, 88, [Myrosinase activity in Armoracia rusticana-Web of Science Core Collection](#)
14. Despina-Maria, Bordean, Stef, R.C., **Radu, F.**, Parvu, D., Gergen, I. **2004**, Spectrofothometrical analyse of heavy metals content in bees honey samples from different areeas, *Bulletin of the University of Agricultural Sciences and Veterinary Medicine*, vol 60, 371-374, [Spectrofothometrical analyse of heavy metals content in bees honey samples from different areeas-Web of Science Core Collection](#)
15. Gergen, I., **Radu, F.**, Bordean, D.M., Moigradean, D., Harmanescu, M., Parvu, D., **2004**, The total antioxidant capacity. evaluation of some fruit nectars from Romanian markets, *Bulletin of the University of Agricultural Sciences and Veterinary Medicine*, vol 60, 304-309, [The total antioxidant capacity. evaluation of some fruit nectars from Romanian markets-Web of Science Core Collection](#)
16. **Florina Radu**; Bordean, D; Borozan, A; Gergen, I., **2004**, Turbidimetric analysis for quantitative determination of Escherichia coli O157 : H7 in raw cow milk, *Bulletin of the University of Agricultural Sciences and Veterinary Medicine*, vol 60, 375-380, [Turbidimetric analysis for quantitative determination of Escherichia coli O157 : H7 in raw cow milk-Web of Science Core Collection](#)

### C.3. Lucrări științifice publicate Indexate BDI în ultimii 10 ani (2013-2022)

1. Autori (nume, prenume), an, Titlu articol, Revista, vol(nr), pag., link spre articol (unde este cazul)

1. Georgeta-Sofia Popescu<sup>1</sup>, Ariana-Bianca Velciov Lia-Sanda Rotariu, Mihaela-Maria Stanciugelu , Daniela-Florentina Marcu, **Florina Radu**, **2021**, Estimation of metals content in medicinal plants, *Journal of Agroalimentary Processes and Technologies*, vol. 27(4), <https://www.journal-of-agroalimentary.ro/journal-of-agroalimentary-processes-and-technologies-2021-27-4/estimation-of-metals-content-in-medicinal-plants>
2. **Florina Radu**, Diana Dogaru, Sofia Popescu, **2021**, New technologies for improving probiotic survival rates in yogurt, *Journal of Agroalimentary Processes and Technologies*, vol. 27(4), 542-552, [https://www.journal-of-agroalimentary.ro/admin/articole/62118L79\\_Radu-Florina\\_27-4-S-2021\\_542-552.pdf](https://www.journal-of-agroalimentary.ro/admin/articole/62118L79_Radu-Florina_27-4-S-2021_542-552.pdf)
3. Georgeta - Sofia POPESCU, Ariana - Bianca VELCIOV, Anisoara IENCIU, Nicoleta NEBANEA, **Florina RADU**, Lia Sanda ROTARIU, D. MANEA, **2021**, The evaluation of some bioelements in different types of herbal teas, *Research Journal of Agricultural Science*, 53(4), [https://www.rjas.ro/paper\\_detail/3514](https://www.rjas.ro/paper_detail/3514)
4. Lia Sanda Rotariu, Iuliana Popescu, Sofia Popescu, **Florina Radu**, **2021**, Fatty acids distribution in different pastries, *Journal of Agroalimentary Processes and Technologies*, vol. 27(2), <https://www.journal-of-agroalimentary.ro/journal-of-agroalimentary-processes-and-technologies-2021-27-2/fatty-acids-distribution-in-different-pastries>
5. Antoanela Cozma, Casiana Mihuț, V. D. Mircov, A. Okros, **Florina Radu**, B. Cozma, L. Niță, Laura Șmuleac, **2020**, Translocation of some heavy metals from the soil in root vegetables in the plain area of Banat, *Research Journal of Agricultural Science*, 52 (2), [https://rjas.ro/issue\\_detail/53](https://rjas.ro/issue_detail/53)

### D. Lucrări publicate în ultimii 10 anii (2013-2022) în reviste și volume de conferințe cu referenți (neindexate)

## D1.Reviste

## D2. Selecție cu **maximum 20 lucrări** în volume de conferințe

1. Popescu Georgeta-Sofia, Radu Florina, Velciov Ariana-Bianca, Cozma Antoanela and Nebancea Nicoleta, **2021**, Chemical characterization of cherry fruits. *Proceedings of the International Symposium on Analytical and Environmental Problems*, vol. 27, p280, [27th International Symposium on Analytical and Environmental Problems \(u-szeged.hu\)](#)
2. Georgeta-Sofia Popescu1, Ariana - Bianca Velciov, Adrian Riviș, Antoanela Cozma, Daniela Stoin, **Florina Radu**, Iulia Bucurescu, **2019**, Studies regarding obtainment and the characterization of different types of homemade chocolate with fruit addition, *25<sup>th</sup> Proceedings of the International Symposium on Analytical and Environmental Problems*, vol. 25, p268-272, [proceedings\\_of\\_isaep\\_2019\\_268-272.pdf \(u-szeged.hu\)](#)
3. **Florina Radu**, Lia Rotariu, Sofia Popescu, The study of Camellia Sinensis phenolic compounds effect on quality of goat milk yogurt, RECENT ADVANCES IN FOOD ANALYSIS, VOL. 9, **2019**, ISBN 978-80-7592-055-3.
4. **Florina Radu**, Lia Micula , Monica Butnariu, **2018**, Antifungal activity of sage (Salvia Officinalis L.) essential oil against Aspergillus flavus growth and aflatoxins production in corn, First Balkan Conference of Medical Mycology and Mycotoxicology **2018**, Romanian Journal of Laboratory Medicine, vol. 26(3), **2018**, ISSN-online: 2284-5623.
5. **Florina Radu**, Iulian Popescu, Lia Rotariu, **2017**, Impact of Bifidobacterium animalis subsp. animalis on physicochemical properties and antioxidant activity of fruit yogurt, 8th CASEE Conference "Sustainable development in Europe cooperation between science and practice", vol 8, p72
6. **Florina Radu**, D.N. Raba and I. Popescu, **2014**, Aflatoxin B1 contamination of animal feeds and the occurrence of aflatoxin m1 in raw cow milk, 38th International Symposium on Environmental Analytical Chemistry, **2014**, 17-20 June, Lausanne, Elveția, Book of Abstract pg.223.
7. D. N. Raba, F. Furdî, D. G. Dumbrava, C. Moldovan, M. V. Popa, **Florina Radu**, **2014**, Electrophoretic SDS-PAGE technique used to distinguish between some wheat varieties, 38th International Symposium on Environmental Analytical Chemistry, **2014**, 17-20 June, Lausanne, Elveția, Book of Abstract pg.222.
8. **Florina Radu**, Diana Raba, Iuliana Popescu, **2013**, Comparis on of different extraction methods for the obtaining of essential oils from the *in vitro* Salvia Officinalis L. and subsequent chemical characterization using gas chromatography tandem mass spectrometry, 17th European Conference on Analytical Chemistry, EUROanalysis **2013**, 23-29 Augst., Warsaw, Poland, "Challenges in Modern Analytical Chemistry", pg.612.
9. **Florina Radu**, Diana Nicoleta Raba, Mirela Viorica Popa, Camelia Moldovan, Delia Gabriela Dumbrava, **2013**, Characterization of dehydrated mixed vegetables used as ingredients in soup formula for their carotenoids and vitamin C content, 17th European Conference on Analytical Chemistry, EUROanalysis **2013**, 23-29 Augst., Warsaw, Poland, "Challenges in Modern Analytical Chemistry", pg.614.
10. **Florina Radu**, Diana Raba, Iuliana Popescu, Effects of essential oil of *Pimpinella Anisum* on sensory properties and antioxidant activity of yogurt, 6th International Symposium on Recent Advances in Food Analysis, Prague, November 5–8, **2013**, pg.281
11. Diana Nicoleta Raba, **Florina Radu**, Constantin Mateescu, Delia Gabriela Dumbrava, Mirela Viorica Popa, Camelia Moldovan, Changes in the rheology and FTIR spectra of some edible vegetable oils as effect of thermal treatment, 6th International Symposium on RECENT Advances in Food Analysis, Prague, November 5–8, **2013**, pg.287.
12. Olga-Alina RADA, H Cernescu, H SĂRĂNDAN, **Florina Radu**, Mihaela FERICEAN, Endocrin status in healthy suckling piglets and diarrhoea piglets in the first days of life, **2013**, *Research Journal of Agricultural Science*, 45(1), 220-225, [Rjas](#)

## E. Brevete obținute în întreaga activitate

1. Caloianu M., Jianu I., Vâlsănescu Teodora, **Radu Florina**. si al., Procedeu de obtinere a acidului abietic de înalta puritate, Brevet de inventie RO 111265 B1, **30.08.1996**  
[https://worldwide.espacenet.com/publicationDetails/biblio?II=0&ND=3&adjacent=true&locale=en\\_EP&FT=D&date=19960830&CC=RO&NR=111265B1&KC=B1](https://worldwide.espacenet.com/publicationDetails/biblio?II=0&ND=3&adjacent=true&locale=en_EP&FT=D&date=19960830&CC=RO&NR=111265B1&KC=B1)



2. Caloianu M., Jianu I., **Radu Florina.** si al., Cremă dermatologică antiseptică, Brevet de inventie RO 111329 B1, **31.12.1998**,  
[https://worldwide.espacenet.com/publicationDetails/biblio?FT=D&date=19960930&DB=&locale=en\\_EP&CC=RO&NR=111329B1&KC=B1&ND=4](https://worldwide.espacenet.com/publicationDetails/biblio?FT=D&date=19960930&DB=&locale=en_EP&CC=RO&NR=111329B1&KC=B1&ND=4)

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Semnătura: Conf. Dr.ing. Florina Radu