

## LISTA LUCRĂRILOR

### A. TEZA DE DOCTORAT

Crețu, R., 2009, *Studiul interacțiilor colorizilor naturali cu coloranți alimentari*, Universitatea din București.

### B. CĂRTI

[B2] Coautor

Florea, T., Furdui, B., Dinică, R. M., Crețu, R., 2009. Chimie Organică. Sinteză și analiză funcțională, Editura Academica, Galați, ISBN 978-973-8937-56-7, 258 pag.

Florea, T., Dinică, R.M., Crețu, R., Furdui, B., 2006. Chimie Organică. Lucrări practice și probleme, Editura Academica, Galați, ISBN(10) 973-8937-14-0; ISBN(13) 978-973-8937-14-7, 219 pag.

Florea, T., Crețu, R., 2005. Tehnologie Chimică Generală. Aplicații de Calcul și Lucrări Practice, Editura Academica, Galați, ISBN 973-8316-81-2, 311 pag.

### C. ARTICOLE/STUDII PUBLICATE ÎN REVISTE DE SPECIALITATE DE CIRCULAȚIE INTERNAȚIONALĂ RECUNOSCUTE SAU ÎN REVISTE DIN ȚARĂ RECUNOSCUTE DE CĂTRE CNCIS

[C1] Articole/studii publicate în reviste de circulație internațională, ISI

Lucian Dinca, Mirabela Marin, Vlad Radu, Gabriel Murariu, Romana Drasovean, **Romica Crețu**, Lucian Georgescu and Voichița Timiș-Gânsac, 2022. Which are the Best Site and Stand Conditions for Silver Fir(*Abies alba* Mill.) Located in the Carpathian Mountains?, *Diversity*, 14(7), 547, <https://doi.org/10.3390/d14070547>

Aurel Tăbăcaru, Simona Butan, and **Romica Crețu\***, 2022. Colloidal matter separation of industrial wastewaters from Galați City area by semipermeable membranes, *Ovidius University Annals of Chemistry*, Volume 33, Number 1, pp. 56 - 63, DOI: 10.2478/auoc-2022-0008.

Gabriel Murariu, Romana Maria Drasovean, **Romica Crețu**, Simona Condurache-Bota, Iulian Racovita, 2022. Spatial and temporal variability of nitrogen oxides concentrations in the south-eastern part of Romania, *International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM*, 2022, 22(4.1), pp. 375–382, <https://www.scopus.com/>.

Gabriel Murariu, **Romica Crețu**, Romana Maria Drasovean, Simona Condurache-Bota, Iulian Racovita, 2022. Spatial and temporal variability of sulfur and carbon oxide concentrations in the south-eastern part of Romania, *International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM*, 2022, 22(4.1), pp. 383–390, <https://www.scopus.com/>.

Romana Maria Drasovean, **Romica Crețu**, Simona Condurache-Bota, Gabriel Murariu, 2022. Studies on the level of sound pollution in Braila, Romania, *International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM*, 2022, 22(5.1), pp. 423–431, <https://www.scopus.com/>.

Simona Condurache-Bota, Gabriel Murariu, Romana Maria Drasovean, **Romica Crețu**, 2022. Urban noise pollution and anthropogenic relief; case study for a medium-sized city, *International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM*, 2022, 22(5.1), pp. 497–504, <https://www.scopus.com/>

Serban Davidescu, Gabriel Murariu, Lucian Dinca, Diana Vasile, Vlad Crisan, **Romica Crețu**, Lucian Georgescu, Sorin Deca, 2020. Growth potential of hybrid black poplar (*populus canadensis moench*) in romania's east plain, *International Journal of Conservation Science*, 11 (3), 807-818, <https://ijcs.ro/>

**Romica Crețu**, Adrian Circumaru, Gabriel Murariu, 2018. Effect of liquid detergents on the biochemical parameters of some plantlets, *Materiale Plastice*, 55(4), 575-579. <http://www.revmaterialeplastice.ro/>

**Crețu, R.**, Șolea L. C., 2017. Zeta potential and color investigations of vegetable oil based emulsions as eco-friendly lubricants, *Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry*, 18(2), 167-180.

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**Crețu, R.**, Dima, Ș., Olteanu, M., 2009. Stability and colour evolution of emulsions with sodium caseinate, *Revista de Chimie*, 60 (7), 683 – 688, București

Dima, Ș., **Crețu, R.**, 2008. Emulsification of vegetable oils with nonionic surfactants and polypeptides, *Revue Roumaine de Chimie*, 53 (5), 399 – 403, Bucharest

**Crețu, R.**, Zgherea, Gh., 2008. The modification of some physical - chemical parameters of margarine during storage, Romanian Journal of Physics, Volume 53, Nos. 1-2, p. 393-403, Bucharest

**Crețu, R.**, Bahrim, G., Dima S., Olteanu, M., 2008. Evaluation of physical and chemical characteristics of yellow colorant produced by *Epilobium nigrum* MIUG 2.15 in crude extracts and emulsions, Romanian Biotechnological Letters, 13, (5), 59-68

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[C2] Articole publicate în reviste indexate în baze de date internaționale

Liviu Cătălin Șolea, **Romică Crețu**, 2023. Research on the rice bran oil – flammability tests on a high temperature surface, The Annals of “Dunarea de Jos” University of Galati. Fascicle IX, Metallurgy and Materials Science. 46, 2, 10-15. DOI:<https://doi.org/https://doi.org/10.35219/mms.2023.2.02>.

**Romică Crețu**, Liviu Cătălin Șolea, 2022. Effect of the Temperature and Oxidation Time on Some Physicochemical Characteristics of the Rice Bran Oil, *The Annals of “Dunarea de Jos” University of Galati. Fascicle IX. Metallurgy and Materials Science*, ISSN 2668-4748; e-ISSN 2668-4756, 3, 5-10, [www.doaj.org](http://www.doaj.org), <http://www.fascicula9.ugal.ro/archive>.

**Crețu Romică**, Murariu Gabriel, 2022. Biochemical approach to the action of pesticides on *Cucumis Sativus* in various stages of development, *Advanced Research in Engineering*, Vol 5 No 3, p. 67-77, <http://www.across-journal.com/index.php/across/issue/view/7>

**Romică Crețu**, 2021. *Research on Some Freshwater Fish Catalase Activity - As a Potential Biomarker for Environmental Pollution, Annals of the University Dunarea de Jos of Galati: Fascicle IX, Metallurgy & Materials Science, Vol. 39 Issue 4, p22-29. <https://www.gup.ugal.ro/ugaljournals/index.php/mms/article/view/4972>*

**Romică Crețu**, 2019. Study on the Water in Oil Emulsions with Curcumin and  $\beta$ -Carotene as Antioxidants by Conventional Techniques, *Journal of Biochemistry Research*, Volume 2, Issue 2, 05-06.

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Liviu Cătălin Șolea, **Romică Crețu**, 2014. Studies of Rheology of Corn Oil, Subjected to Treatment of Forced Oxidation, The Annals Of “Dunarea de Jos” University of Galati. Fascicle IX. Metallurgy and Materials Science No. 4, pp.31-35.

Cristian Dima, **Romică Crețu**, Petru Alexe, Stefan Dima, 2013. Microencapsulation of coriander oil using complex coacervation method, *Scientific Study and Research, Chemistry and Chemical Engineering, Biotechnology, Food Industry*, ALMA MATER Publishing House, “Vasile Alecsandri” University of Bacău, 14 (3), pp.155 – 162.

Șolea, L.C., **Crețu, R.**, 2013. Study of wear evolution for soybean oil and corn oil using a four ball tester, *Metalurgia International*, 18(9), 27-30, <https://www.scopus.com/>.

**Romica Crețu**, Liviu Șolea, Silviu-Danuti Macuta, 2013. Research Concerning the Evaluation of Some Water Quality Indicators from Galati, *Annals of “Dunarea de Jos” University of Galati, Mathematics, Physics, Theoretical Mechanics*, Fascicle II, Year V(XXXVI), ISSN 2067 – 2071, No. 2, 259 – 269.

Liviu Cătălin Șolea, **Romică Crețu**, 2013. Studies on the Effects of Olive Oil Oxidation, *The Annals of “Dunarea de Jos” University of Galati, Fascicle IX, Metallurgy and Materials Science*, year XXXI (XXXVI), ISSN 1453-083X, Galati University Press, September 2013, no. 3, 21-26.

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**Crețu, R.**, Dima, Ș., Bahrim, G., 2011. Research on the viscosity of some sunflower oil-in-water and water-in-oil emulsions with and without fungal dye, *Annals of “Dunarea de Jos” University of Galati, Mathematics, Physics, Theoretical Mechanics*,

Fascicle II, Year III (XXXIV), Galati University Press, p. 52-60, ISSN 2067-2071, (the journal is abstracted in Cambridge Scientific Abstracts, [http://www.phys.ugal.ro/Annals\\_Fascicle\\_2](http://www.phys.ugal.ro/Annals_Fascicle_2)).

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Cioroi, M., Moisi, M., **Crețu, R.**, 2009. Spectrophotometric evaluation for the stability of the ascorbic acid from the sweet briar extract (rosa canina) and white sea buckthorn (hyppphae rhamnoides), The Annals of the University Dunarea de Jos of Galati, Fascicle VI - Food Technology, New Series Years III (XXXIII), Galati University Press, p. 78 – 83, ISSN 1843–5157.

**Crețu, R.**, Dima, Ș., 2007. Chromatic parameters evaluation during red wines pigmentation, The Annals of the University Dunarea de Jos of Galati, Fascicle VI Food Technology, I (XXX), p. 1-6, Galati University Press, ISSN 1843–5157, (Journal written in English, CAB Abstracts, [www.cabi-publishing.org/Abstract\\_Databases.asp?SubjectArea=&PID=125](http://www.cabi-publishing.org/Abstract_Databases.asp?SubjectArea=&PID=125); Web site: [www.ann.ugal.ro/tpa/](http://www.ann.ugal.ro/tpa/); BDI: [http://www.csa.com/ids70/serials\\_source\\_list.php?db=techresearch-set-c](http://www.csa.com/ids70/serials_source_list.php?db=techresearch-set-c)).

**Crețu, R.**, Dima, Ș., 2007. Evaluation of the colour of some colorants with utilization in food systems using tristimulus colorimetry, The Annals of the “Dunarea de Jos” University of Galati, Fascicle II, Mathematics, Physics, Chemistry, Informatics, Year XXV (XXX), 2007, Galati University Press, pag. 82 – 87, ISSN 1842-6506, ISBN 978-973-627-378-0.

**Crețu, R.**, Dima, Ș., 2007. Researches on the stability of some colored food emulsions, The Annals of the “Dunarea de Jos” University of Galati, Fascicle II, Mathematics, Physics, Chemistry, Informatics, New Series, Year I (XXX), 2007, Galati University Press, pag. 62 – 69, ISSN 1842-6506.

**Crețu, R.**, Zgherea, Gh., 2006. The modification of some parameters of margarine, Analele Universitatii “Dunărea de Jos” din Galați, Fascicula II, Matematică, fizică, mecanică teoretică, supliment A, anul XXIV (XXIX) , pag. 82, ISSN 1221-4531.

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## **E. STUDII PUBLICATE ÎN VOLUMELE UNOR MANIFESTĂRI ȘTIINȚIFICE INTERNAȚIONALE RECUNOSCUTE DIN ȚARĂ ȘI DIN STRĂINĂTATE (CU ISSN SAU ISBN)**

*[E1] Studii sustinute/publicate la/în volumele unor manifestari științifice internaționale recunoscute indexate în baze de date internaționale*

Crețu, R., Olteanu, M., Dima, Ș., Bahrim, G., 2006. Food Colorants Immobilization by Emulsification/External Gelation Method. 2nd CIGR, Section VI, International Symposium on Future of Food Engineering, Warsaw, Poland, Collection of Extent Abstracts, p. 40 (CD-ROM), CIGR International Conference Warsaw, April 26 – 28, ISSN 0260-8774 (*Conferință Proc., cotată ISI* (<http://scientific.thomsonreuters.com/products/proceedings/>), Additional Information, List of Conferences 2004-2008 (1 st.qtr), No. 10952

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*[E2] Studii publicate în volumele unor manifestări științifice internaționale recunoscute din țară*

Popescu, M., Crețu, R., Dima, Ș., 2010. Formulation et caractérisation physico-chimique et antimicrobienne des émulsions transdermiques à base de métronidazole, Conferința Internațională de Științe Aplicate. Chimie și Inginerie Chimică (CISA), Slănic Moldova – Bacău

Crețu, R., Dima, Ș., 2009. Effect of droplet size on the colour coordinates of oil-in-water emulsions with different colorants, Conferința Internațională de Științe Aplicate. Chimie și Inginerie Chimică (CISA), Slănic Moldova – Bacău, p. 159-163

Crețu, R., 2009. Food emulsions colour analysis by CIE L\*C\*ab system and computerized image study. Conferința Internațională de Științe Aplicate. Chimie și Inginerie Chimică (CISA), Slănic Moldova – Bacău, p. 153-158

Crețu, R., 2008. Correlation of food colloids colour with the acrylamide concentration, Al IX-lea Simpozion de Chimia Coloizilor și Suprafețelor cu participare internațională, 29 – 30 Mai, Galați, p. 15-20, ISSN 2065-3603

Crețu, R., Dima, Ș., Olteanu, M., 2008. Impact of the ionic strength on the stability of model food colored emulsions, Al IX-lea Simpozion de Chimia Coloizilor și Suprafețelor cu participare internațională, 29 – 30 Mai, Galați, p. 36-39, ISSN 2065-3603

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Crețu, R., Florea T., 2005. Study on the adsorption of some (+)-catechin condensation products with flavanol colorants. Lucrările celui de al VIII-lea Simpozion de Chimia Coloizilor și Suprafețelor, 2 – 4 iunie 2005, Galați, Universitatea "Dunărea de Jos" din Galați, Facultatea de Științe și Universitatea din București, Facultatea de Chimie, Collection of Extent Abstracts, p. 189. ISBN 973 – 8316 – 84– 7

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[E3] Alte lucrări și contribuții științifice prezentate și/sau publicate

1. **R. Crețu**, S. Simona Condurache-Bota, R. Drasovean and G. Murariu, 2023. Research on the effectiveness of ascorbic acid incorporation into water-in-oil emulsions with parsley (*Petroselinum Crispum*) extract, 17<sup>th</sup> International Conference of Physical Chemistry ROMPHYSICHEM-17, supervised by Romanian Academy and Ministry of Research, Innovation and Digitalization, Book of Abstracts, p. 105, September 25 - 27, Bucharest – ROMANIA, ISSN 3008-3850, <https://gw-chimie.math.unibuc.ro/romphyschem17/ROMPHYSICHEM17>.
2. G. Murariu, R. Drasovean, S. Condurache-Bota and **R. Crețu**, 2023. Study on the variability of the ozone ground concentration between 2015-2023 in the South East area of Europe. A comparison of numerical methods of investigation, 17<sup>th</sup> International Conference of Physical Chemistry ROMPHYSICHEM-17, supervised by Romanian Academy and Ministry of Research, Innovation and Digitalization, Book of Abstracts, p. 117, September 25 - 27, Bucharest – ROMANIA, ISSN 3008-3850, <https://gw-chimie.math.unibuc.ro/romphyschem17/ROMPHYSICHEM17>.
3. S. Condurache-Bota, R. M. Drasovean, G. Murariu and **R. Crețu**, 2023. Sweets essence under analysis: UV-VIS-NIR spectra and other physical properties of cake flavor extracts, 17<sup>th</sup> International Conference of Physical Chemistry ROMPHYSICHEM-17, supervised by Romanian Academy and Ministry of Research, Innovation and Digitalization, Book of Abstracts, p. 84, September 25 - 27, Bucharest – ROMANIA, ISSN 3008-3850, <https://gw-chimie.math.unibuc.ro/romphyschem17/ROMPHYSICHEM17>.
4. R. Drasovean, G. Murariu, S. Condurache-Bota and **R. Crețu**, 2023. Dynamics of PM, TCVO and CH<sub>2</sub>O concentrations in the city of Galați, 17<sup>th</sup> International Conference of Physical Chemistry ROMPHYSICHEM-17, supervised by Romanian Academy and Ministry of Research, Innovation and Digitalization, Book of Abstracts, p. 115, September 25 - 27, Bucharest – ROMANIA, ISSN 3008-3850, <https://gw-chimie.math.unibuc.ro/romphyschem17/ROMPHYSICHEM17>.
5. Simona Condurache-Bota, Gabriel Murariu, Romana Maria Drasovean, **Romica Crețu**, 2022. Urban noise pollution and anthropogenic relief; case study for a medium-sized city, Scientific GeoConference SGEM2022, Bulgaria, 02 – 11 July 2022, <https://www.sgem.org>.
6. Romana Maria Drasovean, **Romica Crețu**, Simona Condurache-Bota, Gabriel Murariu, 2022. Studies on the level of sound pollution in Braila, Romania, Scientific GeoConference SGEM 2022, Bulgaria, 02 – 11 July 2022, <https://www.sgem.org>.
7. Gabriel Murariu, **Romica Crețu**, Romana Maria Drasovean, Simona Condurache-Bota, Iulian Racovita, 2022. Spatial and temporal variability of sulfur and carbon oxide concentrations in the south-eastern part of Romania, Scientific GeoConference SGEM 2022, Bulgaria, 02 – 11 July 2022, <https://www.sgem.org>.
8. Gabriel Murariu, **Romica Crețu**, Romana Maria Drasovean, Simona Condurache-Bota, Iulian Racovita, 2022. Spatial and temporal variability of nitrogen oxides concentrations in the south-eastern part of Romania, Scientific GeoConference SGEM 2022, Bulgaria, 02 – 11 July 2022, <https://www.sgem.org>.
9. **Romica Crețu**, Murariu Gabriel, 2021. Biochemical Approaching to the Action of Pesticides on *Cucumis Sativus* in Various Stages of Development, Conferința Internațională, Interdisciplinaritate și cooperare în cercetarea transfrontalieră” 2-4 decembrie 2021, Chișinău, Republica Moldova
10. **Romica Crețu**, Murariu Gabriel, Iulian Racovita, 2019. Evaluarea efectelor induse de poluanții atmosferici asupra parametrilor fizico-chimici și enzimatici ai unor produse apicole, Common borders. Common solutions: Conferința apicolă Creșterea Comerțului și Modernizarea Agriculturii și Sectoarelor Conexe în Bazinul Mării Negre, 13 Decembrie 2019, Galați

11. Khaoula Berkas, Andreea Veronica Dediu (Botezatu), **Romică Crețu**, Nicușor Baroiu, 2019. Aspects Regarding the Physico-Chemical Analysis of Used Mineral Oils From Hydrostatic Installations, Scientific Conference of Doctoral Schools SCDS-UDJG, Perspectives and challenges in doctoral research, 7th Edition, "Dunarea de Jos" University of Galati, 13-14 of June 2019
12. **Romică Crețu**, 2019. Investigation of some organic pollutants impact on physico-chemical characteristics of plantlets, The Fourth Edition of the International Conference "New Trends in Environmental and Materials Engineering" TEME 2019, 23th-25th of October 2019, Galați, Romania
13. Racovita Iulian, Marin Ionut Dorin, Vasilica Barbu, **Romica Crețu**, 2019. Confocal comparative analysis of some beekeeping products, Session of scientific communications, Galați, May 16-17, 2019, Food science and applied biotechnologies, Faculty of Food Science and Engineering.
14. **Crețu Romică**, Gabriel Murariu, 2018. Effect of liquid detergents on the biometric and physico-chemical parameters of some plantlets, 12<sup>th</sup> International Conference Environmental Legislation, Safety Engineering and Disaster Management, ELSEDIM, 17-19 May, BIOFLUX Cluj-Napoca 2018, Book of Abstracts, eISBN 978-606-8887-27-2, pp. 56.
15. **Crețu Romică**, 2018. Physical and oxidative stability evaluation of water-in-oil emulsions with edible/bio dyes as antioxidants, Chemistry 2018 International Conference with theme "Empowering advanced perspective and novel concepts in Chemistry", February 19-20, Paris, France.
16. **Crețu Romică**, Mihaela Gabriela Mardare, 2017. Polycyclic aromatic hydrocarbons impact on enzymatic potential of plants, Scientific Symposium CURRENT TRENDS IN NATURAL SCIENCES - 20-21 April 2017, Pitesti, Book of Abstracts: pp. 15.
17. Andreea Dediu (Botezatu), **Romică Crețu**, Rodica-Mihaela Dinică, 2017. Physico-chemical and biochemical studies on palm oil used for frying-1. Effects of frying cycles, 8th International Symposium Euro-Aliment 2017, Galați, Romania.
18. Mihaela Cudălbeanu, **Romică Crețu**, Rodica-Mihaela Dinică, 2017. Physico-chemical and biochemical studies on palm oil used for frying-2. Assessment of this oil impact on cucurbita pepo species during its growth and development, 8th International Symposium Euro-Aliment 2017, Galați, Romania.
19. **Romică Crețu**, 2017. *Studiu asupra rolului baremului de corectare în procesul de evaluare și notare*. Conferința Națională de Chimie, Ediția A IX-A Învățământ Preuniversitar, "Chimia – pol de dezvoltare continuă a societății umane", 15-17 septembrie, Galați, România, CD-Crețu.
20. **Romică Crețu**, 2017. *Cercetări privind eficiența utilizării prezentărilor powerpoint în procesul de predare asupra motivării și învățării*, Conferința Națională de Chimie, Ediția A IX-A Învățământ Preuniversitar, "Chimia – pol de dezvoltare continuă a societății umane", 15-17 septembrie, Galați, România, CD-Crețu.
21. **Romică Crețu**, Constantinescu Adriana Mădălina, Tăbăcaru Andra Beatrice, 2017. Impactul unor produse petroliere asupra gradului de formare al malondialdehidei - indicator pentru poluarea mediului, Sesiunea Națională de Comunicări Științifice Studentești „Ingineria – Profesia Viitorului”, Ediția I, Facultatea de Inginerie a Universității „Vasile Alecsandri” din Bacău, 27- 29 noiembrie 2017
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