

## Lista de lucrări

### Profesor dr. BIRGHILĂ SEMAGHIUL

- a. **Teza de doctorat: „Determinarea microelementelor din zona Delta Dunării și din Marea Neagră prin spectrometria de absorbție atomică”;** anul susținerii 1997 (OM nr. 4268/ 23.07.1997); conducător științific: prof.dr.doc. George-Emil Baiulescu; Universitatea din București: calificativul obținut: **Doctor în Chimie**, cu diploma: Seria P nr. 0001832.

#### b. Cursuri universitare

1. **Semaghiul Birghila** “ASIGURAREA CALITĂȚII ȘI SIGURANȚA PRODUSELOR ALIMENTARE” 2019, 167 pag, EDITURA PIM, Iasi, ISBN 978-606–13–5216-6
2. **Semaghiul Birghila**, Nicoleta Matei “Controlul calitatii produselor alimentare”, 2019, Indrumar de laborator, 167 pag, EDITURA PIM, Iasi, ISBN 978-606–13–5329-3
3. **Semaghiul Birghila** “Controlul calitatii produselor alimentare”, 2013, 140 pag., Ovidius University Press, Seria Chimie, ISBN 978- 973–614–703-6
4. **Semaghiul Birghila**, “Chimie analitica cantitativa. Gravimetrie si Volumetrie” 2011, Ovidius University Press, 2011, 196 pag., Seria Chimie, ISBN 978- 973–614–702-9
5. **Semaghiul Birghila**, “Metode instrumentale de analiză. Metode optice” Ovidius University Press, 2005, 106 pag., ISBN 973–614–295-7.
6. Chirilă Elisabeta, **Birghilă Semaghiul**, Simona Dobrină, ‘Chimie analitica. Considerații teoretice și probleme’ 2005, 227 pag., Ovidius University Press, ISBN 973–614–150-0.
7. Elisabeta Chirila, **Semaghiul Birghila**, “Metode instrumentale de analiza. Aplicatii” Ovidius University Press, 2002, 121pag., ISBN 973–614–025-3.
8. **Semaghiul Birghilă**, Viorica Popescu, “Metode electrochimice de analiză”, Ovidius University Press 2000, 185 pag., ISBN 973–9289–75-4. Constanta.
9. Chirilă Elisabeta, **Birghilă Semaghiul**, “Chimie analitică calitativă- Aplicații”, 1998, 109pag., Ovidius University Press, ISBN 973–9367–48-8.

#### b. **Articole** Articole in reviste cotate ISI cu factor de impact –43

1. MIHAELA MIRELA BRATU, **SEMAGHIUL BIRGHILA\***, MARIUS DANIEL RADU, ANTOANELA POPESCU, “Observation of the extraction dynamics of polyphenolic compounds from rosmarinus officinalis and salvia officinalis in natural wine”, Journal of Science and Arts, Volume 23, Issue 3, pp. 783-790, **2023**
2. Alina Soceanu · Nicoleta Matei · Simona Dobrină · **Semaghiul Birghila** · Viorica Popescu · Gabriela Crudu, “Metal Content in Caps and Stalks of Edible Mushrooms: Health Benefits and Risk Evaluation”, Biological Trace Element Research, <https://doi.org/10.1007/s12011-023-03800-2>, online 5 aug, **2023**
3. Mihaela Mirela Bratu, **Semaghiul Birghila\***, Corina Birghila, Valentina Coatu, Diana Andreea Danilov, Naliana Lupascu, Dan Vasiliu, Marius Daniel Radu; „Correlation Between Toxic Elements and Pesticide Residues in Medicinal Herbs Available in Pharmaceutical Market” Biological Trace Element Research, **2023** ; 201(12):5848-5860.<https://doi.org/10.1007/s12011-023-03642-y>
4. Mihaela Mirela Bratu, **Semaghiul Birghila\***, Mihai Cosmin Cenariu, Pall Eموke, Antoanela Popescu, Marius Daniel Radu , Lenuța Zglimbea „Antioxidant Activity, UV-screen, Cytotoxic and Antitumoral Activities of a Polyphenolic Extract of Helichrysum arenarium (L.) Moench Flowers” Pol. J. Environ. Stud. Vol. 32, No. 3 (**2023**), 2043-2051., DOI: 10.15244/pjoes/157546
5. **Semaghiul Birghila**, Nicoleta Matei, Simona Dobrină, Viorica Popescu, Alina Soceanu, Anamaria Niculescu “Assessment of Heavy Metal Content in Soil and *Lycopersicon esculentum* (Tomato) and Their Health Implications” Biological Trace Element Research, <https://doi.org/10.1007/s12011-022-03257-9>, volume 201, pages1547–1556 (**2023**)
6. Mihaela Mirela Bratu, **Semaghiul Birghila\***, Valentina Coatu, Diana Andreea Danilov, Marius Daniel Radu, Corina Birghila „Polycyclic Aromatic Hydrocarbons (PAHs) in Some Commercial Herbal Teas”,

7. Antoanela Popescu **Semaghiul Birghila\***, Marius Daniel Radu, Mihaela Mirela Bratu “Evaluation of the Polyphenol Content and Antioxidant Activity of Wine Macerates (Medicinal Wines) With Sage (*Salvia Officinalis* L. Lamiaceae) and Sea Rush (*Juncus Martitimus* Lam. Juncaceae) Obtained Using Traditional Technology. *Pol. J. Environ. Stud.* 2022; 31(4): 3279–3285, DOI: <https://doi.org/10.15244/pjoes/145617>
8. Simona Dobrinasa, Alina Soceanu, Natalia Maneab, Anca Sirbuc, Corina Ionela Dumitrescu, Viorica Popescua, **Semaghiul Birghila**, Nicoleta Matei and Ionela Carazeanu Popovici, „Health risk assessment of fluoride exposure due to groundwater consumption in Romania”, *Journal of Water and Health* Vol 20 No 9, 2022, 1380 doi: 10.2166/wh.2022.108
9. Simona Dobrinasa, Alina Soceanu, **Semaghiul Birghila**, Corina Birghila, Nicoleta Matei, Viorica Popescu and Luminita Mihaela Constanda ”Chemical Analysis and Quality Assessment of Honey Obtained from Different Sources” *Processes* 2022, 10, 2554, <https://doi.org/10.3390/pr10122554>
10. Nicoleta-Alexandra Damir, Valentina Coatu, Elena Daniela Pantea, Mădălina Galațchi, Elisabeta Botez, **Semaghiul Birghilă\***, “Assessment of Polycyclic Aromatic Hydrocarbons Content in Marine Organisms of Commercial Interest from the Romanian Black Sea Coast“, *Polycyclic Aromatic Compounds*, <https://doi.org/10.1080/10406638.2021.2006243>, 42, (10) 7595-7606, 2022.
11. Mihaela Mirela Bratu, **Semaghiul Birghila\***, Antoanela Popescu, Bogdan-Stefan Negreanu-Pirjol, Marius Radu and Corina Birghila” Influence of Packaging Material on Polyphenol Content and Antioxidant Activity in Some Commercial Beers” *Processes*, 2021, 9, 620. <https://doi.org/10.3390/pr9040620>.
12. Anisoara-Arleziana Neagu, Alina Soceanu, **Semaghiul Birghila**, “Analysis of Soils Parameters in Correlation with Vegetation Period” *Revista de Chimie (Rev. Chim.)*, Year 2020, Volume 71, Issue 9, 210-220, <https://doi.org/10.37358/RC.20.9.8331>
13. **SEMAGHIUL BIRGHILĂ, MIHAELA MIRELA BRATU, VALENTINA COATU, NICOLETA-ALEXANDRA DAMIR** ”Levels, Sources and Risk Characterization of Organochlorine Pesticides in Beer Samples from Romania” *REV.CHIM.(Bucharest)* ♦ 71 ♦ no. 1 ♦ 2020
14. M. M. Bratu, **S. Birghila\***, A. Popescu, B. S. Negreanu-Pirjol, T. Negreanu-Pirjol, Correlation of antioxidant activity of dried berry infusions with the polyphenols and selected microelements contents, *Bull. Chem. Soc. Ethiop.* 2018, 32(1), 1-12
15. MIHAELA MIRELA BRATU1, **SEMAGHIUL BIRGHILA\***, HORATIU MIRESAN1, TICUTA NEGREANU PIRJOL “Electrophoretic Method For Edible Eggs Species Identification”, *REV.CHIM.(Bucharest)* 68, No. 9 , 1983-1987, 2017, <http://www.revistadechimie.ro>
16. **Semaghiul Birghila**, Mihaela Mirela Bratu, Maria Roman, “Melamine content in some milk-based products”, *Journal of Chemical, Biological and Physical Sciences (JCBPSC)*; Section B; May 2017 – July 2017, Vol. 7, No. 3; 710 -717, [DOI: <https://doi.org/10.24214/jcbps.B.7.3.71017>]
17. GEORGETA BELENIUC, ELENA DOROFTEI, **SEMAGHIUL BIRGHILA**, MARIA-MIHAELA ANTOFIE, NATALIA ROȘOIU, MIHAELA MIRELA BRATU “Cytological study regarding the effects of rutin-transition metals complexes in Allium and Triticum tests”, *Romanian Biotechnological Letters*, Vol. 22, No. 3, 12620 - 12629, 2017, <https://pdfs.semanticscholar.org/c468/79945e4d1590ffe9bc2f6013cf72cc0e767d.pdf>
18. **Semaghiul Birghila**, Mihaela Mirela Bratu, „Evaluation of mineral elements in berry fruit teas”, *REV CHIM BUCHAREST*, 2016, 67(3), 418-421, ISSN 0034-7752, <https://www.researchgate.net/.../303572015>
19. A.Dumbrava, **S.Birghila**, M.Munteanu, “Contributions on enhancing the copper uptake by using natural chelators, with applications in soil phytoremediation”, *INTERNATIONAL JOURNAL OF*

20. **Semaghiul Birghila**, Mihaela Mirela Bratu, Corina Prajitura, Florentina-Nicoleta Roncea, Ticuta Negreanu-Pirjol “Spectrophotometric method for the determination of total proteins in egg white samples” REV CHIM BUCHAREST, 2015, 66 (3), 378-381, ISSN 0034-7752,,  
<http://www.revistadechimie.ro/pdf/BIRGHILA%20S.pdf%203%2015.pdf>
21. Bratu M., **Birghila S.**, Miresan H., Negreanu-Pirol T., Prajitura C., Calinescu M., “Biological Activities of Zn(II) and Cu(II) Complexes with Quercetin and Rutin: Antioxidant Properties and UV-Protection Capacity” REV CHIM BUCHAREST, 2014, 65 (5), 544-549, ISSN 0034-7752,  
[www.researchgate.net/.../263444002\\_Biological](http://www.researchgate.net/.../263444002_Biological).
22. **Birghila S.**, Popescu V., “Fluoride content in some tea leaves and tea infusions” ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 2013, 12(12), 2449-2453, ISSN 1582-9596,  
[http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol12/no12/19\\_190\\_Birghila\\_11.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol12/no12/19_190_Birghila_11.pdf)
23. **Birghila S.**, Carazeanu Popovici I., Dumitru A., “Study on physical-chemical properties of petroleum cokes”, Romanian Journal in Physics, 2011, 56 (7-8), 976-982, ISSN 1221-146X.  
[http://www.nipne.ro/rjp/2011\\_56\\_7-8/0976\\_0982.pdf](http://www.nipne.ro/rjp/2011_56_7-8/0976_0982.pdf)
24. **Birghila S.** Dobrinas S. “The influence of the storage time on the stability of butter“, Environmental Engineering and Management Journal, 2010, 9, (11), 469-472, ISSN 1582-9596,,  
[http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol9/no11/30\\_193\\_Birghila\\_10.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol9/no11/30_193_Birghila_10.pdf)
25. I.Carazeanu Popovici, **S.Birghila**, G.Voicu, V.Ionescu, V.Ciupina, G.Prodan “Morphological and microstructural characterization of some petroleum cokes as potential anode materials in lithium ion batteries,” Journal of Optoelectronics and Advanced Materials, 2010, 12(9), 1903-1908, ISSN 1454-4164, <http://www.linknovate.com/publication/morphological-and-microstructural-characterization-of-some-petroleum-cokes-as-potential-anode-materials-in-lithium-ion-batteries-144538/>
26. Anca Dumbrava, **Semaghiul Birghila**, „Analysis of some metal levels in Danube river water” Environmental Engineering and Management Journal, 2009, 8 (2), 219-224, ISSN 1582-9596,  
[http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol8/no2/5\\_Dumbrava.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol8/no2/5_Dumbrava.pdf)
27. S.Dobrinaş, **S.Birghilă**, V.Coatu, “Assessment of polycyclic aromatic hydrocarbons in honey and propolis produced from various flowering trees and plants in Romania”, Journal of Food Composition and Analysis, 2008, 21 (1), 71-77, ISSN 0889-1575,,  
<http://www.sciencedirect.com/science/article/pii/S0889157507001056>
28. N.Matei, **S.Birghilă** V.Popescu, S.Dobrinaş, A.Soceanu, V.Magearu, ”Kinetic Study of the Ascorbic acid Degradation in Acid media’, REV CHIM BUCHAREST, 2005, 56 (4), 435-437, ISSN: 0034-7752,  
<http://www.revistadechimie.ro/arhiva.asp>
29. A.Soceanu, V.Popescu, V.Magearu, **S.Birghilă**, S.Dobrinaş, N.Matei, “Determination of Some Essential and Potential Toxic Trace Elements from Citrus Fruits”, REV CHIM BUCHAREST, 2005, 56 (2), 115-117, ISSN 0034-7752, <http://www.revistadechimie.ro/arhiva.asp>
30. N.Matei, **S.Birghila\***, S.Dobrinas, “Determination of C vitamin and some essential trace elements (Ni, Mn, Fe, Cr) in bee products”, Acta Chim. Slov, 2004, 51(1), 169-175, ISSN 1318-020,, <http://acta-arhiv.chem-soc.si/51/51-1-169.htm>
31. S.Dobrinas, **S.Birghila**, N.Matei, V.Coatu, „Determination of PAHs and organochlorine Pesticides in Tomato and Green Pepper”, REV CHIM BUCHAREST, 2004, 55,(12), 942-944, ISSN 0034-7752,  
<http://www.revistadechimie.ro/arhiva.asp>
32. **S.Birghilă**, S.Dobrinaş, N.Matei, V.Magearu, V.Popescu, A.Soceanu, „Distribution of Cd, Zn and ascorbic acid in different stages of tomato (Lycopersicum esculentum solanaceae) plant growing”, REV CHIM BUCHAREST, 2004, 55 (9), 683-685, ISSN 0034-7752,  
<http://www.revistadechimie.ro/arhiva.asp>

33. S.Dobrinas, **S.Birghila**, V.Coatu, A.Stoica, G.E.Baiulescu, "Contamination of Black Sea Coast by Polycyclic Aromatic Hydrocarbons and Organochloride Pesticides", REV CHIM BUCHAREST, 2004, 55 (7), 483-487, ISSN 0034-7752, <http://www.revistadechimie.ro/arhiva.asp>
34. N.Matei, V.Magearu, **S.Birghila**, S.Dobrinas, "Determinarea vitaminei C din cireșe și vișine", REV CHIM BUCHAREST, 2004, 55 (5), 294-296, ISSN 0034-7752,, <http://www.revistadechimie.ro/arhiva.asp>
35. **S.Birghila**, V.Popescu, S.Dobrinas, N.Matei, "Determinarea spectrometrica a vitaminei C din produse farmaceutice dupa stabilizare in tiouree", REV CHIM BUCHAREST, 2003, 54(3), 289-290, ISSN 0034-7752,, <http://www.revistadechimie.ro/arhiva.asp>
36. V.Popescu, C.Oprea, **S.Birghila**, "Multicomponent diffusion and reaction in three-dimensional networks", Journal of Optoelectronics and Advanced Materials, 2003, 5 (5), 1439-1443, ISSN 1454-4164, ISSN 1454-4164,, [http://joam.inoe.ro/arhiva/pdf5\\_5/Popescu1.pdf](http://joam.inoe.ro/arhiva/pdf5_5/Popescu1.pdf)
37. Claudia-Irina Koncsag, Viorica Popescu, **Semaghiul Birghilă**, "Caracterizarea granulometrică a unui nou zeolit de tip Y", REV CHIM BUCHAREST, 2001, 52 (10), 607-609, ISSN 0034-7752, (FI=0.161), <http://www.revistadechimie.ro/arhiva.asp>
38. **S.Birghilă**, V.Popescu, C.Dogaru, "Determinarea conținutului de metale din păcura de la instalațiile DA și DV", REV CHIM BUCHAREST, 2000, 51 (12), 990-991, ISSN 0034-7752,, <http://www.revistadechimie.ro/arhiva.asp>
39. V.Popescu, **S. Birghilă**, "Caracterizarea fizico- chimică a unor zeoliți de tip X și Y", REV CHIM BUCHAREST, 2000 51,(7), 543-545, ISSN 0034-7752, <http://www.revistadechimie.ro/arhiva.asp>
40. J.F.vanStaden, R.Stefan, **S.Birghilă**, "Evaluation of different SIA sample-buffer configurations using a fluoride-selective membrane electrode as detector", Talanta, 2000, 52, (1), 3-11, ISSN 0039-9140, (FI=1.554), <http://www.ncbi.nlm.nih.gov/pubmed/18967956>
41. E.Chirilă, **S.Birghilă**, P.Capotă, "Biogeochemical characterisation of an ecosystem using ICP-AES", South-African Journal of Chemistry, 1999, 52, (4), 154-156, ISSN 0379-4350, <http://connection.ebscohost.com/c/articles/2910835/>
42. **S.Birghilă** "Analyse of microelements content from sea water by ICP-AES tehnique", REV CHIM BUCHAREST, 1997, 48, 154-157, ISSN 0034-7752 <http://www.revistadechimie.ro/arhiva.asp>
43. Chirila E., **Birghila S.**, "International Conerence on Chemistry and the Mediterranean-Mediterraneanchem", May 23-27, 1995, TARANTO, ITALY, REV CHIM BUCHAREST, 1995, 46 (7), 706-706, ISSN 0034-7752, , <http://www.revistadechimie.ro/arhiva.asp>

#### Articole in reviste cotate ISI fără factor de impact – 13

1.Mihaela Mirela Bratu, **Semaghiul Birghila\***, Larissa Mihaela Stancu, Mihai Cosmin Cenariu, Pall Eموke, Antoanela Popescu, Marius Daniel Radu, Lenuta Zglimbea, "Evaluation of the antioxidant, cytotoxic and antitumoral activities of a polyphenolic extract of ROBINIA PSEUDOACACIA L. FLOWERS" Journal of Science and Arts, **2021**, No. 2(55), pp. 547-556, 2021 <https://doi.org/10.46939/J.Sci.Arts-21.2-b04>, Chemistry Section.

2.**SEMAGHIUL BIRGHILA**, FLORINA CASARIU, "PHYSICO-CHEMICAL INVESTIGATIONS OF BISCUITS SUPPLEMENTED WITH RYE FLOUR" Journal of Science and Arts **2019**, No. 4(49), pp. 961-966, 2019 ISSN: 1844 – 9581 Chemistry Section

3.Geida Sevdagul Suliman, **Semaghiul Birghila**, Anca Dumbrava, Considerations about the use of lovage leaves to improve the quality of edible vegetable oils and oil blends, *Scientific Study & Research, Chemistry & Chemical Engineering, Biotechnology, Food Industry*, **2018**, 19 (1), pp. 033 – 044

4. G.Stanciu, S.Dobrină, **S.Birghila**, M.Popescu, „Determination of organic compounds from different types of coffee by HPLC and GC-ECD analysis”, Environmental Engineering and Management Journal, 2008, 7 (6), 661-666, ISSN 1582-9596, [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol7/no6/EEMJ\\_Vol7\\_Nr6\\_2008.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol7/no6/EEMJ_Vol7_Nr6_2008.pdf)
5. Viorica Popescu, **Semaghiul Birghila**, Simona Dobrină, “Determination of heavy metals in extracts and macerates from garden flowers” Environmental Engineering and Management Journal, 2008, 7 (4), 365-368, ISSN 1582-9596, [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol7/no4/3\\_Popescu.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol7/no4/3_Popescu.pdf)
6. C.Oprea, V.Popescu, **SBirghila**, „New studies about the modified mordenites”, Romanian Journal of Physics, 2008, 53, 221-228, ISSN 1221-146X, [http://www.nipne.ro/rjp/2008\\_53\\_1-2/0231\\_0240.pdf](http://www.nipne.ro/rjp/2008_53_1-2/0231_0240.pdf)
7. S.Dobrină, A.Socănu, **S. Birghilă**, V.Coatu, “Polycyclic aromatic hydrocarbons and organochlorine pesticides contents in tap and surface waters, “Environmental Engineering and Management Journal, 2008, 7 (1), 57-60, ISSN 1582-9596, <http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol7/no1/15%20Simona%20Dobrină.pdf>
8. N.Matei, **S.Birghilă**, V.Popescu, S.Dobrină, A.Socănu, C.Oprea, V Magearu, „Kinetic study of vitamin C degradation from pharmaceutical products”, Roumanian Journal of Physics, 2008, 53, 343-351, ISSN 1221-146x, [http://www.nipne.ro/rjp/2008\\_53\\_1-2/0343\\_0352.pdf](http://www.nipne.ro/rjp/2008_53_1-2/0343_0352.pdf)
9. **S.Birghila**, S.Dobrină, G.Stanciu, A.Socănu „Determination of major and minor elements in milk through ICP-AES” Environmental Engineering and Management Journal, 2008, 7(6), 805-808, ISSN 1582-9596, [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol7/no6/33\\_Semaghiul%20Birghila.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol7/no6/33_Semaghiul%20Birghila.pdf)
10. A.Socănu, S.Dobrină, V.Popescu, **S.Birghilă**, V.Magearu, „Comparative study of some essential elements in different types of vegetables and fruits”, Environmental Engineering and Management Journal, 2007, 6 (6), 593-596, ISSN 1582-9596, [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol6/no6/27\\_Alina%20Socănu.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol6/no6/27_Alina%20Socănu.pdf)
11. S.Dobrină, **S.Birghila**, M.Belc, “Accumulation of copper, cadmium, iron, magnesium and zinc, in three development stages of red pepper”, pp. 409-412 in Lubomir Simeonov and Elisabeta Chirila (Eds), Chemicals as Intentional and Accidental Global Environmental Threats, Springer, 507 pagini, ISBN 978-1-4020-5097-8; ISSN 1872-4668, 2006, [http://link.springer.com/chapter/10.1007/978-1-4020-5098-5\\_36](http://link.springer.com/chapter/10.1007/978-1-4020-5098-5_36)
12. S.Dobrină, **S.Birghila**, V.Coatu, “Determination of organochlorine pesticides in honey from different regions in Romania”, pp. 413-416 in Lubomir Simeonov and Elisabeta Chirila (Eds), Chemicals as Intentional and Accidental Global Environmental Threats, Springer, 2006, 507 pagini, ISBN 978-1-4020-5097-8; ISSN 1872-4668, [http://link.springer.com/chapter/10.1007%2F978-1-4020-5098-5\\_37](http://link.springer.com/chapter/10.1007%2F978-1-4020-5098-5_37)
13. **S.Birghila**, N.Lupascu, “Determination of cyanides from distilled alcoholic drinks”, pp. 443-415 in Lubomir Simeonov and Elisabeta Chirila (Eds), Chemicals as Intentional and Accidental Global Environmental Threats, Springer, 2006, 507 pagini, ISBN 978-1-4020-5097-8; ISSN 1872-4668, [http://link.springer.com/chapter/10.1007%2F978-1-4020-5098-5\\_41](http://link.springer.com/chapter/10.1007%2F978-1-4020-5098-5_41)

#### Articole în reviste indexate BDI – 25

1. **Semaghiul Birghila** ,Georgiana Baronescu, Anca Dumbrava ”Seasonal variation and speciation of dissolved iron in an artificial surface water body, **December 2017**, DOI, 10.1515/auoc-2017-0007, License, [CC BY-NC-ND 4.0](https://creativecommons.org/licenses/by-nc-nd/4.0/), Ovidius University Annals of Chemistry, 28, 2, pp. 43-48, 2
2. **Birghila Semaghiul**, Popovici Carazeanu Ionela, “Evaluation of the Physical-Chemical Properties in Petroleum Coke”, Advances in Petroleum Exploration and Development 2013. 6 (2), 28-32, ISSN 1925-542x, <http://www.cscanada.net/index.php/aped/article/viewFile/j.aped.1925543820130602.1758/5412>
3. Dumbrava A., **Birghila S.**, Stamate, D., “Considerations on the influence of complexation in the copper uptake and translocation“, Scientific Study and Research: Chemistry and Chemical Engineering, Biotechnology, Food Industry, 2013, 14(3), 135-144, ISSN 158250x, <https://doaj.org/article/1886601143834cb2b5dec6b6faf8cad9>
4. A.Socănu, S.Dobrină, **S.Birghila**, V.Popescu, V.Magearu, „Levels of phosphorus in citrus fruits”, Ovidius University Annals of Chemistry Constanța, 2009, 20(1) 87-90, ISSN: 1223-7221,[http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2009-1/full/18\\_Socănu.pdf](http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2009-1/full/18_Socănu.pdf)

- 5.I.Enache, **S.Birghila**, A.Dumbrava „The Danube river water quality characteristics in Braila town” Ovidius University Annals of Chemistry, 2009, vol. XX(2), 146-152, ISSN: 1223-7221, [http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2009-2/1\\_dumbrava.pdf](http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2009-2/1_dumbrava.pdf)
- 6.A.Soceanu, S.Dobrină, V.Popescu, **S.Birghila**, V.Magearu, “Levels of Mg and Cd concentration in citrus fruits”, Ovidius University Annals of Chemistry, 2007, vol. XVIII (1), 13-16, ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2007/3.pdf>
- 7.E.Chirila, **S. Birghila**, S. Dobrină, “Metals determination in some petroleum industry spent catalysts”, Ovidius University Annals of Chemistry, 2007, vol. XVIII (1), 68-70, ISSN 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2007/13.pdf>
8. A.Dumbrava, S.Dobrină, **S.Birghila**, “Water quality characteristics along the course of the Danube River I. The Rasova area”, Ovidius University Annals of Chemistry, 2007, vol. XVIII (1), 84-89, ISSN: 1223-7221 <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2007/16.pdf>,
- 9.A.Dumbrava, S.Dobrină, **S.Birghila**, “Water quality characteristics along the course of the Danube River II. The Harsova area”, Ovidius University Annals of Chemistry, 2007, vol. XVIII (2), 124-131, ISSN: 1223-7221, [http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2007-2/3\\_dumbrava.pdf](http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2007-2/3_dumbrava.pdf)
10. S.Dobrină, A.Soceanu, **S.Birghila**, V.Popescu, V.Magearu, “Occurrence of trace elements in some vegetables of the *Magnoliopsida Class*”, Ovidius University Annals of Chemistry, 2006, vol. XVII (2), 202-205, ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2006-2/5.pdf>
11. S.Dobrină, **S. Birghila**, A. Soceanu, “Determination of some heavy metals from honey”, Ovidius University Annals of Chemistry, 2006, vol. XVII (2), 206-208, ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2006-2/6.pdf>
- 12.A..Soceanu, S.Dobrină, V.Popescu, **S.Birghila**, V.Magearu, “Research on trace elements in plants of the Apiaceae Family by FAAS”, Ovidius University Annals of Chemistry, 2006, vol. XVII (1), 79-82, ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2006/21.pdf>
13. **S.Birghila**, N.Rasanu, S.Dobrină, N.Matei, “The insecticides influence on vitamin C content in some fruit during the vegetation period”, Ovidius University Annals of Chemistry, 2006, vol. XVII (1), 36-38, ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2006/10.pdf>
14. N.Rasanu, **S.Birghila**, S.Dobrină, N.Matei, M.Belc, “The copper influence on germination process of vegetables”, Ovidius University Annals of Chemistry, 2006, vol. XVII (1), 65-69, ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/2006-1-annals-of-chemistry/>
15. A.Soceanu, S.Dobrină, V.Popescu, **S.Birghilă**, V.Coatu, V.Magearu, „Determination of some organochlorine pesticides and heavy metals from *Capsicum Anuum L.*”, Environmental Engineering and Management Journal, 2006, 5 (4), 597-604, ISSN 1582-9596, [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol5/no4/6\\_Soceanu%20Alina.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol5/no4/6_Soceanu%20Alina.pdf)
16. S.Dobrină, A.Soceanu, **S.Birghilă**, M. Belc, „Determination of some essential elements in different types of Romanian floral and nonfloral bee honeys and propolis”, Environmental Engineering and Management Journal, 2006, 5 (6), 1215-1220, 2006 ISSN 1582-9596, [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol5/no6/1\\_Simona%20Dobrinas.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol5/no6/1_Simona%20Dobrinas.pdf)
17. **S.Birghilă**, S.Dobrină, M.Stancic Rotaru, F.Roncea, „The speciation of chromium from some commercial corn flakes”, Proceedings of the Romanian Academy, Series B, 2006, 8 (1), 3-6, ISSN-1454-8267, <https://getinfo.de/app/The-speciation-of-chromium-from-some-commercial/id/BLSE%3ARN200505977>
18. V.Popescu, C.Oprea, **S.Birghila**, “Chemical Modified Zeolythes“, Roumanian Journal of Physics, 2006, 51 (1-2), 269-272, ISSN 1221-146X, [http://www.nipne.ro/rjp/2006\\_51\\_1-2/0293\\_0298.pdf](http://www.nipne.ro/rjp/2006_51_1-2/0293_0298.pdf)

19. S.Dobrină, **S.Birghila**, A.Dumbravă, "Determination of Fe, Cu and Cr from surface waters by standard addition method", Ovidius University Annals of Chemistry, 2005, 16 (1), 51-53, ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2005/13.pdf>

20. E.Chirilă, **S.Birghilă**, S.Dobrină, D. Sava, I. Carazeanu, V.Popescu, "Cr, Cu and Fe determination in marine algae from Romanian Black seacoast by molecular absorption spectrometry", Ovidius University Annals of Chemistry, 2005, 16 (1), 119-121, ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2005/30.pdf>

21. M.Stancic, S.Dobrină, **S.Birghila**, "Pollution extent in two therapeutical oil macerates of *Allium sativum*L", Herba Polonica, 2005, 51 (3-4), 30-35, ISSN 0018-0599, <http://www.herbapolonica.pl/magazines-files/4497829-Stancic%20et%20al.pdf>

22. **S.Birghiă**, S.Dobrină, „Analytical characterization of the sapropelic mud from Salt Lake”, Environmental Engineering and Management Journal, 2005, 4 (2), 219-223, ISSN: 1582-9596, [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol4/no2/14\\_Semaghiul%20Birghila.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol4/no2/14_Semaghiul%20Birghila.pdf)

23. S.Dobrină, N.Matei, **S.Birghila**, V.Popescu, A.Soceanu, "Determination of heavy metals and Vitamin C in *Allium plants* (Garlic and Onion)", Environmental Engineering and Management Journal, 2004, 3 (4), 689-694 ISSN 1582-9596, [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol3/no4/13\\_Simona%20Dobrină.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol3/no4/13_Simona%20Dobrină.pdf)

24. **S.Birghila**, A.Dumbrava, S.Dobrină, "Determination of heavy metals from the ecosystem of Vrancea Mountains", Environmental Engineering and Management Journal, 2004, 3 (4), 695-700, ISSN 1582-9596, [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol3/no4/14\\_Semaghiul%20Birghila.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol3/no4/14_Semaghiul%20Birghila.pdf)

25. S.Dobrină, A.Soceanu, **S.Birghila**, V.Popescu, N.Matei, V.Coatu, "Content of organic Pollutants (PAH'S and POPS) in surface water from Danube Delta and Plitvice Lakes", Environmental Engineering and Management Journal, 2004, 3 (3), 355-362, ISSN 1582-9596, [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol3/no3/16\\_Dobrină.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol3/no3/16_Dobrină.pdf)

#### Reviste de tip B - 24

1. A.Dumbrava, **S.Birghila**, I.Enache, "Water quality characteristics along the course of the Danube River III. The Cernavoda area", Ovidius University Annals of Chemistry, 2008, vol. XIX (1-2), 19-26, ISSN: 1223-7221, [http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2008/4\\_dumbrava.pdf](http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2008/4_dumbrava.pdf)

2. **S.Birghila**, S.Dobrină, M.Belc, „Determination of copper by standard addition method in leafy vegetables from apiaceae family”, Ovidius University Annals of Chemistry, 2004, 15 (1), 19-21, ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2004/5.pdf>

3. N.Rasanu, **S.Birghila**, S.Dobrină, N.Matei, V.Magearu, „Determination of vitamin C from fruits in the vegetation period”, Ovidius University Annals of Chemistry, 2004, 15 (1), 22-24, ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2004/6.pdf>

4. **S Birghila**, S. Dobrină, N. Matei, P. Capota, „Determination of essential and potential toxic trace elements by ICP-AES technique from vine leaves and stem”, Analele Universitatii din Craiova, seria Chimie, 2004, XXXIII, 49-53, ISSN 1223-5288

5. **A.Dumbrava**, **S.Birghila**, S.Dobrină, "Analytical characterisation of an ecosystem of Vrancea mountains", Ovidius University Annals of Chemistry, Constantza, 2003, 14 (1), 36-38, ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2003/9.pdf>

6. V.Popescu, **S.Birghila**, S.Dobrină, A.Soceanu, N.Matei, "Preventing of corrosion using alkyl benzoic acids salts", Ovidius University Annals of Chemistry, Constantza, 2003, 14 (1), 75-77, ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2003/20.pdf>

7. N.Matei, **S.Birghila**, V.Magearu, V.Popescu, S.Dobrină, A.Soceanu, "Determination of Vitamin C from different fruits", Ovidius University Annals of Chemistry, Constantza, 2003, 14 (1), 68-70. ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2003/18.pdf>

8. V.Popescu, **S.Birghilă**, "New studies about the thermal stability of some complex combinations", *Analele Universității "Ovidius"*, Constanța, 2002, 13 (1), (Chimie), 69-71. ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2002/18.pdf>
9. N.Matei, **S.Birghilă**, "Determination of Vitamin C from fruit juices and pharmaceuticals", *Analele Universității "Ovidius"*, Constanța, 2001, 12 (1), (Chimie), 47-49. ISSN: 1223-7221, <http://anale-chimie.univ-ovidius.ro/anale-chimie/chemistry/2001/12.pdf>
10. **S.Birghilă**, A.Ermilov, "Occurrence of iron, copper, lead and aluminium in some seacoast lakes by molecular spectrometry", *Analele Universității "Ovidius"*, Constanța, 1999, 10, (Chimie), 44-50. ISSN: 1223-7221
11. **S.Birghilă**, E.Chirilă, P.Capotă, "Metal determination from Seacoast lakes by ICP-AES technique", *Analele Universității "Ovidius"*, Constanța, 1998, 9, (Chimie), 40-43. ISSN: 1223-7221
12. E.Chirilă, **S.Birghilă**, S.Godeanu, "Analytical characterization of Seacoast lakes waters", *Analele Universității "Ovidius"*, Constanța, 1998, 9, (Chimie), 48-52. ISSN: 1223-7221
13. M.Crâșmaru, M.Bratu, A.Oros, **S.Birghilă**, M.Lungu, "Caracterisation physico- chimiques et biologiques de quelques extraits lyophilisés obtenus des coelenteres Marins *Mnemiopsis leidyi* et *Aurelia aurita*", *Recherches Marines IRCM*, 1997, 29-30, 75-83
14. E.Chirilă, **S.Birghilă**, S.Godeanu, M.Godeanu, "The analytical characterization of "Tasaul lake" water", *Analele Universității "Ovidius"*, Constanța, 1997, 8 (Chimie), 9-13 ISSN: 1223-7221
15. **S.Birghilă**, E.Chirilă, "The heavy metal content determination within "Tasaul lake" water by inductively coupled plasma-atomic emission spectrometry (ICP-AES)", *Analele Universității "Ovidius"*, Constanța, 1997, 8 (Chimie), 14-16, ISSN: 1223-7221
16. **S.Birghilă**, E.Chirilă, P.Capotă, "Analytical characterization of "Tăbăcărie lake" sediments by atomic emission spectrometry with inductively coupled plasma (ICP-AES)", *Analele Universității "Ovidius"*, Constanța, 1997, 8 (Chimie), 17-20, ISSN: 1223-7221
17. E.Chirilă, **S.Birghilă**, "About ICP-AES method utilization concerning the biogeochemical characterization of an ecosystem", *Analele Universității "Ovidius"*, Constanța, 1997, 8 (Chimie), 21-23, ISSN: 1223-7221
18. **S.Birghilă**, "Comparative study of spectrometric methods in trace analysis", *Analele Universității "Ovidius"*, Constanța, 1997, 8 (Chimie), 24-26 ISSN: 1223-7221
19. R.Sîrbu, I.Carazeanu, E.Chirilă, **S.Birghilă**, E.M.Cadâr, "The individual activity coefficients of the major ions from the Black Sea water by thermodynamic modelling of composition data", *Analele Universității "Ovidius"*, Constanța, 1997, 8 (Chimie), 61-65. ISSN: 1223-7221
20. **S.Birghilă**, E.Chirilă, P.Capotă, "About the analysis of the trace elements content in petrochemical effluent by ICP-AES technique", *Analele Universității "Ovidius"*, Constanța, 1996, 7 (Chimie), 36-40 ISSN: 1223-7221
21. **S.Birghilă**, P.Capotă, M.Constantin, "Metal speciation in seawater", *Analele Universității "Ovidius"*, Constanța, 1995, 6(Chimie), 10-13 ISSN: 1223-7221
22. **S.Birghilă**, A.Dumbravă, "Study about aquatic sediments", *Analele Universității "Ovidius"*, Constanța, 1992, 3 (Chimie), 36-39 ISSN: 1223-7221
23. **S.Birghilă**, E.Chirilă, R.Sîrbu, "The dynamics of the macroions composition in the seawater along the Romanian Black Sea coast" *Analele Universității "Ovidius"*, Constanța, 1992, 3 (Chimie), 31-35, ISSN: 1223-7221
24. **S.Birghilă** "Determination of lead from sea water", *Analele Universității "Ovidius"*, Constanța 1991, 2 (Chimie), 9-13 ISSN: 1223-7221

## Reviste C - 14

1. S.Dobrinaș, **S.Birghilă**, V.Coatu, N.Matei, „Determination of some trace metals and organochlorine pesticides in fruit juices”, Proceedings of the Romanian Academy, series B, 2004, 6 (2), 89-94, ISSN-1454-8267
2. C.Oprea, V.Popescu, **S.Birghila**, “Characterisation of some new ZSM-5 zeolites”, Roumanian Journal of Physics, 2004, 49 (5-6), 437-443, ISSN 1221-146X,
3. N.Matei, **S.Birghilă**, S.Dobrinaș, V.Magearu, “Determinarea vitaminei C din plante medicinale”, Revista de Medicină și Farmacie, Targu Mures, 2004, 50, 43-45, ISSN 1221-2229
4. F.Roncea, V.Istudor, M.M.Bratu, M.Crâșmaru, T.Negreanu-Pârjol, S.Dobrinaș, **S. Birghilă**, T.Zaharia, „Rolul antitoxic al cvercitolului asupra moluștei *Mytilus galloprovincialis* intoxicată cu  $Pb^{2+}$ ”, Revista de Medicină și Farmacie, Targu Mures, 2004, 50, 271-273, ISSN 1221-2229
5. M.Bratu, **S. Birghilă**, L.A.Bucur, V.Magearu, S.Dobrinaș, N.Matei, “Determination of  $\beta$ -carotene and ascorbic acid from nettle (*urtica dioica* L. urticaceae) and underbrush (*hypophae rhamnoides* L. eleagnaceae) preserved under different storage conditions”, Ovidius University Annals of Medical Science-Pharmacy, 2003, 1(1), 178-181, ISSN 1583-896x
6. V.Popescu, **S.Birghilă**, R.Sirbu, S.Dobrinaș, A.Socanu, „The kinetic study of the thermal stability for the antitermal and atibiotic drugs”, Ovidius University Annals of Medical Science-Pharmacy, 2003, 1(2), 139-141, ISSN 1583-896x
7. **S.Birghillă**, V.Popescu, I.Chiran, „Chromium speciation from natural samples”, Proceedings of the Romanian Academy Series B: Chemistry, Life Sciences and Geosciences, Editura Academiei Romane, Bucharest, Seria B, 2002, (1), 3-6, ISSN: 1454-8267
8. **S.Birghila**, V.Popescu, “Speciation of chromium in sediments, plants and water from “Tăbăcărie” lake,” Environmental Engineering and Managment Journal, 2002, 3 (1), 355-359, ISSN 1582-9596
9. Mihaela Mirela Bratu, Mircea Crâșmaru, **Semaghiul Birghilă**, Magdalena Lungu, Rodica Sîrbu, “Preliminary research regarding the substance changes between the organism and the therapeutic mud from the Techirghiol Lake in the process of the therapeutical procedure”, Science and Technology of Environmental Protection, 2002, 9 (2), 64-69, ISSN 1221-6909
10. C.Oprea, V.Popescu, **S. Birghila**, “The influence of filming amines for combating corrosion”, Ovidius University Annals of Physics, Constanta, 2001, 2 (1), 57-60, ISSN 1582-6724
11. E.Chirilă, **S.Birghilă**, P.Capotă, S.Godeanu, V.Stoenescu, “Occurrence of Cadmium, Copper, Chromium, Lead, Zinc and Nickel in different phases of an ecosystem”, Romanian Biotechnological Letters, 1998, 3, (5), 47-54, ISSN 1224-5984
12. M.Bratu, M.Mihăeși, **S.Birghilă**, D.Balaban, D.Dumitrescu, “Polyglucide fraction analysis of the fluid from *ecballium elaterium* fruits”, Revue Roumaine de Biochimie, Bucharest, 1998, 35, (1-2), 39, ISSN 0001-4214
13. **S. Birghilă**, E.Chirilă, “Comparative methods for trace analysis”, Chimia, 1998, 52 (7-8), 376, ISSN 0009-4293
14. E.Chirilă, **S.Birghilă**, P.Capotă, “Metal determination in water, sediments and plants from an artificial lagoon using ICP-AES”, Chimia, 1998, 52 (7-8), 379, ISSN 0009-4293

## Lucrări publicate în extenso in volume ale conferințelor internaționale – 28

- 1.**Birghila S**, Enache I., Dumbrava A. „ Spectrophotometric determination of iron in soil samples by standard addition method”; Metal Elements in Environment, Medicine and Biology, TOME X in Eds Symposium series Z. Graban, P.Dragan, *Proceeding of the 10<sup>th</sup> international Symposium on Metal Elements in Environment, Medicine and Biology*, Timișoara, November, 2010, 107-111, ISSN: 1583-4204,

2. Dumbrava A., **Birghila S**, Belc M., „A comparison between different extraction methods used for the determination of iron mobile forms”; Metal Elements in Environment, Medicine and Biology, TOME X in Eds Symposium series Z. Graban, P.Dragan, *Proceeding of the 10<sup>th</sup> international Symposium on Metal Elements in Environment, Medicine and Biology*, Timișoara, November, 2010, 131-135, ISSN: 1583-4204,
- 3.V. Popescu, A. Soceanu, **S. Birghila**, S. Dobrinas, „Determination du contenu des metaux lourds dans l'extrait de raisin et de melon”, *Cinquieme Colloque Franco-Roumain de Chimie Appliquee-CoFrRoCA, in Scientific Study \$ Research* **2008**, IX(3), 331-336, ISSN 1582-540X
4. V.Popescu, A. Soceanu, **S.Birghila**, S.Dobrinas, Synthesis and characterisation of some metal-loaded ZSM-5 zeolite catalysts”, *International Conference on Materials Science and Engineering Bramat*, Brasov, February, 2007, 237-240, ISSN: 1223-9631,
5. **S.Birghila**, S.Dobrinas, V.Popescu, „Determination of chloride in magma rocks”, *International Conference on Materials Science and Engineering Bramat*, Brasov, February, 2007, 167-169 ISSN: 1223-9631,
6. **S.Birghilă**, S.Dobrinaș, N.Matei, „Determination of cadmium and lead levels in human teeth”, Metal Elements in Environment, Medicine and Biology, vol. VII in Eds Symposium series Z. Graban, P.Dragan, *Proceeding of the 7<sup>th</sup> international Symposium on Metal Elements in Environment, Medicine and Biology*, Timișoara, November, 2006, 81-84, ISBN: 973-620-238-0, ISSN: 1583-4204,
7. G.Stanciu, **S.Birghilă**, S.Lupșor, S.Dobrinaș, „Determination of some heavy metals and caffeine from different types of coffee”, Metal Elements in Environment, Medicine and Biology, vol. VII in Eds Symposium series Z. Graban, P.Dragan, *Proceeding of the 7<sup>th</sup> international Symposium on Metal Elements in Environment, Medicine and Biology*, Timișoara, November, 2006, 317-320 ISBN: 973-620-238-0, ISSN: 1583-4204,
- 8.V.Popescu, A..Soceanu, **S.Birghila**, S.Dobrinas, “Physico-chemical and analytical characterisation on some extracts, macerates and fresh fruits from Rosaceae family ”, *Le Quatrieme Colloque Franco-Roumain de Chimie Appliquee, in Scientific Study \$ Research*, Clermont-Ferrand, Franta, 2006, 779-784, ISSN: 1582-540X,
- 9.S.Dobrinas, N.Matei, A.Soceanu, **S. Birghila**, V. Popescu, “Estimation on vitamin C and Cd, Cu, Pb content in honey and propolis”, *Le Quatrieme Colloque Franco-Roumain de Chimie Appliquee, in Scientific Study \$ Research*, Clermont-Ferrand, Franta, 2006, 729-734, ISSN: 1582-540X,
10. N.Matei, D.Dobrinaș, **S.Birghilă**, N.Rășanu, M.Belc, “Accumulation of Cd, Cu, Fe, Mn, Zn, and ascorbic acid in different stages of PRUNUS PERSICA plant growing”, *Proceeding of the International Conference “Agricultural and Food Sciences, Processes and Tehnologies”* Sibiu, Romania, **2005**, 1-7, ISBN 973-739-093-8; ISBN 973-739-095-4.
11. N.Matei, **S.Birghilă**, V.Popescu S.Dobrinaș, A.Soceanu, V.Magearu, „Study of Vitamin C Degradation”, *Internationale Conference on Chemistry and Chemical Engineering RICCCCE XIV*, Bucharest, 22-24 September **2005**, Section 4, vol.2, 56-65, ISBN 973-718-284-7, ISBN 973-718-286-3.
- 12 .V.Popescu, **S.Birghilă**, A.Soceanu, S.Dobrinaș, N.Matei „The Incorporation of Cu and Cr into ZSM-5 Zeolite” , *Internationale Conference on Chemistry and Chemical Engineering RICCCCE XIV*, Bucharest, 22-24 September **2005**, Section 3, vol.2, 132-137, ISBN 973-718-284-7, ISBN 973-718-286-3.
13. **S.Birghilă**, S.Dobrinaș, N.Matei, „Determination of Some Microelements by ICP-AES technique from *Pelargonium Zonale*”, *Internationale Conference on Chemistry and Chemical Engineering RICCCCE XIV*, Bucharest, 22-24 September **2005**, Section 4, vol.2., 50-54, ISBN 973-718-284-7, ISBN 973-718-286-3.
14. S.Dobrinaș, A.Dumbravă, **S.Birghilă**, “Determinarea unor metale grele din apa Canalului Dunăre-Marea Neagră”, *Simpozion „Implicarea fondului acvatic dobrogean în menținerea echilibrului ecologic al populației umane”*, Constanța, Februarie, 2005, 77-80, ISBN: 973-7895-00-2, Editura VIROM,
15. **S.Birghilă**, S.Dobrinaș, V.Popescu, N.Matei, A.Soceanu, „Determination of fluoride in teeth with a fluoride ion-selective electrode”, *4<sup>th</sup> Aegean Analytical Chemistry Days Proceedings*, Kusadasi, Turcia, 2004, 284-286, ISBN: 975-8254-22-7

16. N.Matei, **S.Birghilă**, V.Popescu, S.Dobrinaș, A.Soceanu, V.Magearu, „Determination of new kinetic data about the behaviour of ascorbic acid from drugs”, *4<sup>th</sup> Aegean Analytical Chemistry Days Proceedings*, Kusadasi, Turcia, 2004, 287-289, ISBN: 975-8254-22-7
17. **S.Birghilă**, A.Dumbravă, S.Dobrinaș, “Dosage de certains métaux lourds dans la Mer Noire et le Golf Persique aux alentours des plate-formes marines”, *Troisieme Colloque Franco-Roumain de Chimie Apliquee*, Bacau, România, 2004, 394-395, ISBN: 9975-63-183-5
18. A.Soceanu, V.Popescu, **S.Birghilă**, S.Dobrinaș, N.Matei, “Caracterisation physico-chimique des quelques melanges contenant des huiles volatiles”, *Deuxieme Colloque Franco-Roumain de Chimie Apliquee*, Bacau, România, 2004, 326-329, ISBN: 9975-63-183-5
19. N.Matei, S.Dobrinaș, **S.Birghilă**, V.Coatu, A.I.Stoica, G.E.Baiulescu, „Determination of organic and inorganic pollutants from the Black Sea Coast”, *Proceeding of Sixth International Symposium & Exhibition on Environmental Contamination in Central and Eastern Europe and the Commonwealth of Independent States*, Prague, Czech Republic, September 2003, ISBN 0-9748192-0-4
20. S.Dobrinaș, **S.Birghila**, N.Matei, V.Coatu, ‘Determinarea unor poluanți organici și anorganici din Dunăre”, *INCD ECOIND- Simpozion Mediul si Industria*, Bucuresti, 29-31 octombrie, 2003, Vol I, 185-192 ISBN 973-816587-0-5
21. V.Popescu, **S.Birghilă**, “New studies about the syntesis and characterisation of some ZSM-5 zeolites”, *Internationale Conference on Material Science BRAMAT*, Proceedings, Februarie 2003, 102-107, ISBN: 973-635-454-7
22. S.Dobrinaș, **S.Birghila**, N.Matei, V.Coatu, “Analysis of organochloine pesticides in fruit juice by gas chromatography with electron detection”, *International Conference, IMA 2003*, Proceedings, 23-27 september 2003, Thessaloniki, Greece, ISBN: 960-431-875-6
23. **S.Birghila**, V.Popescu, S.Dobrinaș, P.Capota, N.Matei, A.Soceanu, “Determination of Al, Mg, Sb, Si, Sn and Ti in Honey and Propolis by ICP-AES tehnique”, *13<sup>th</sup> Internationale Conference on Chemistry and Chemical Engineering RICCCE 13*, September 2003, Bucharest, vol 1, 113-117, ISBN: 973-652-823-5,
24. V.Popescu, A.Soceanu, **S.Birghilă**, S.Dobrinaș, D.Fătu, “New studies about Co(II), Cu(II) and Ni(II) complex with Schiff bases”, *13<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering RICCCE*, Bucharest, September 2003, Section 3- Physical Chemistry, p. 98-103, ISBN 973-718-286-3.
25. Dobrinaș S, Popescu V. Birghila S, Belc.M, “Analyse des huiles volatiles obtenus a partir de plants decoratives”, *Deuxieme Colloque Franco-Roumain de Chimie Appliquee*, COFrRoCA-2002, Bacau, Romania, 151-152, ISBN: 9975-63-183-5
26. V.Popescu, **S.Birghilă**, “Studiul influenței aditivului asupra motorinelor Diesel”, *Internationale Conference on Material Science BRAMAT*, Brasov, Proceedings, februarie 2001, 157-159, ISBN: 973-635-454-7
27. V.Popescu, **S.Birghilă**, “New studirs about Cu-chlorophyll and Zn-chlorophyll”, *12<sup>th</sup> Internationale Conference on Chemistry and Chemical Engineering RICCCE 12*, Bucharest September 2001, 411-414, ISBN 973-718-286-3.
28. V.Popescu, **S.Birghilă**, “Aplication of the differential methods for the determination of the kinetic parameters”, *Annual Scientific Session*, Varna, Proceeding, 2001, 1188-1191, ISSN 13311-896X

#### **Proiecte de cercetare -dezvoltare**

1. “Receptori moleculari redox pentru senzori electrochimici”, proiect în cadrul programului Parteneriate în Domeniile prioritare, Universitatea București (director Prof. dr. ing. Ungureanu Mihaela), - partener Universitatea "Ovidius" Constanța (responsabil Conf. dr. ing. Gabriela Stanciu – 200 000 RON), - nr. 71-067 din 18.09.2007/ 2007-2010, **membru**

2. “Cercetari privind optimizarea performantelor biocombustibililor prin aditivare”, Proiect in cadrul programului Idei, Universitatea “Ovidius” Constanta, Contract ID 279 184/2007 (responsabil Prof. dr. ing Dan Mandalopol, valoare - 822.220 RON) - **membru**

Intocmit  
Prof. dr. Birghila Semaghiul

18.11.2023