

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

1. Teza de doctorat

Studii și cercetări privind influența nitraților și nitriților prezenți în sol asupra calității apei, 2010

2. Studii postdoctorale:

Depoluarea apelor cu conținut de metale grele prin schimb ionic și extracție lichid-lichid, 2014-2016

3. Cărți si capitole în cărți publicate în ultimii 10 ani

1. Mihaela Mihai, *Cristina Modrogan*, Oanamari Orbulet, Alexandra Raluca Miron, Cristina Costache, **Aplicatii în Tratarea și Epurarea Apelor**, editura Politehnica Press, 2013, ISBN 978-606-515-524-4
2. Cristina Orbeci, *Cristina Modrogan*, Oanamari Daniela Orbulet, Alexandra Raluca Miron, **Toxicologie si reactivitate chimică – îndrumar laborator**, editura Politehnica Press, 2013, ISBN 978-606-515-501-5
3. *Cristina Modrogan*, Simona Căprărescu, Anette Madelene Dăncilă, Oanamari Daniela Orbuleț, **Tratarea si epurarea apelor - îndrumar de laborator**, Editura Politehnica Press, 2020, ISBN 978-606-515-903-7
4. Ion Ion, *Cristina Modrogan*, Oanamari Daniela Orbuleț, Constantin Bobirică, Liliana Bobirică, Alina Catrinel Ion, **Metode de separare aplicate în analiza unor probe de mediu și produse alimentare**, Editura Politehnica Press, 2020, ISBN 978-606-515-913-6

Cărți și capitole în cărți publicate

1. Suharu Ogaki, Rodica Stanescu, Cristina Costache, Cristina Modrogan, Oanamari Daniela Butucea, Liliana Bobirica s.a., "Controlul calitatii mediului", editura Cartea Universitara, 2003, ISBN- 973-7956-34-6
2. 37. Cristina Ichimas, Mircea Nicoara, Laura Pricope, Cristina Modrogan, „Ecologie și Protecția Mediului”, editura...Ecozone, Iasi 2004, vol I ISBN 973-86082-6-0
3. 38. Cristina Ichimas, Mircea Nicoara, Laura Pricope, Cristina Modrogan, „Ecologie și Protecția Mediului”, editura Ecozone, vol 2, 2005, ISBN
4. Cristina Costache, Cristina Modrogan, „*Ecotoxicologie și evaluarea riscului*” Editura Agir 2006, ISBN 973-720-073-x

5. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Ecaterina Diaconu, Oanamari Daniela Orbuleț, Alexandra Raluca Miron, *Cristina Modrogan*, **Forecasting the sorption of phosphates in soil with artificial neural networks**, U.P.B. Sci. Bull., seria B, vol 72, Iss. 3, pp. 175-182, 2010 (https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full4331.pdf)
2. *Cristina Modrogan*, Ecaterina Diaconu, Oanamari Daniela Orbuleț, Alexandra Raluca Miron, **“Forecasting study for nitrate ion removal using reactive barriers”**, REV. CHIM. (Bucharest), 61,6, pag. 580-584, 2010 (<https://revistadechimie.ro/Articles.asp?ID=2622>)
3. Alexandra Raluca Miron, *Cristina Modrogan*, Oanamari Daniela ORbuleț **“Evaluation of Electro Coagulation Process Performances for Decolorization of Alizarin Saphirol Containing Solution”**, REV. CHIM. (Bucharest) ♦ 61♦ Nr.7, pg 646-650, 2010 (<https://revistadechimie.ro/Articles.asp?ID=2666>)
4. Alexandra-Raluca Miron, *Cristina Modrogan*, Oanamari Daniela Orbuleț, Cristina Costache, Iustina Popescu **„Treatment of acid blue 25 containing wastewaters by electrocoagulation”**, U.P.B. Sci. Bull., Series B, Vol. 72, Iss. 1, 2010 (https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full5296.pdf)
5. *Cristina Modrogan*, Alexandra R. Miron, Oanamari D. Orbuleț, Cristina M. Costache **„Removal of nitrate and hexavalent chromium from groundwater using zerovalent iron – A laboratory study”**, The 9th International Symposium Prospects for the 3rd Millennium Agriculture, Cluj-Napoca (publicat în Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca), ISSN 1843-5246, pag 129-135, octombrie 2010 (<http://journals.usamvcluj.ro/index.php/agriculture/article/view/5186>)
6. Alexandra Raluca Miron, *Cristina Modrogan*, Oanamari Daniela Orbuleț, **„Studies and Research Regarding Some Pollutants Removal Using Electro-coagulation Technique”**, REV. CHIM. (Bucharest), 62, nr.2, 2011, pg.163-167 (<https://revistadechimie.ro/Articles.asp?ID=2886>)
7. *Cristina Modrogan*, Oanamari Daniela Orbuleț, Alexandra Raluca Miron, Dumitru Apostol, **„Kinetic Research Regarding the Nutrient Retention in the Soil Using the Neural Networks”**, REV. CHIM. (Bucharest) 62 Nr.3 pag. 272-277, 2011 (<https://revistadechimie.ro/Articles.asp?ID=2930>)
8. Oanamari D. Orbuleț, Tudor Căsândroi, Gheorghe Voicu, Alexandra R. Miron, Cristina Modrogan, **Development of some models for assessment the dynamic migration processes of phosphates in soil columns**, ACS – Agriculturae Conspectus Scientificus, Croatia, 77 (4), 2012 (https://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=143532)
9. *Cristina Modrogan*, Dumitru Giani Apostol, Oanamari Daniela Butucea, Alexandra Raluca Miron, Cristina Costache, Redha Kouachi, **Kinetic study of hexavalent chromium removal, from wastewaters by ion exchange**, Environmental Engineering and Management Journal, May 2013, Vol.12, No. 5, 929-935 (http://www.eemj.icpm.tuiasi.ro/pdfs/vol12/no5/11_284_Modrogan_13.pdf)
10. Irina Pincovschi, *Cristina Modrogan*, **Chromatographic Method for Determination of the Number of Mass Transfer Units in Adsorption Columns in Unsteady-State Conditions** REV. CHIM. (Bucharest), 65, No.8, 2014, pp. 876-879 (<https://revistadechimie.ro/Articles.asp?ID=4147>)
11. *Cristina Modrogan*, Irina Pincovschi, Sanda Budea, **Depollution of Acid Waste Waters Containing Cadmium Ions Using Liquid-Liquid Extraction**, Rev. Chim. (Bucharest) 65, 10, 2014, 1235-1237 (<https://revistadechimie.ro/Articles.asp?ID=4254>)
12. *Cristina Modrogan*, Irina Pincovschi, **Depollution of Acid Waste Waters Containing Zinc Ions Using Liquid - liquid Extraction**, REV. CHIM. (Bucharest) 65, 11, 2014, 1253 – 1255 (<https://revistadechimie.ro/Articles.asp?ID=4260>)

13. *Cristina Modrogan*, Oanamari Daniela Orbulet, Alexandra Raluca Miron, **Nitrate Removal from Water using Exchange Resins**, Revista de chimie, 65, 12, 2014, p 1502- 1506 (<https://revistadechimie.ro/Articles.asp?ID=4343>)
14. *Modrogan Cristina*, Alexandra Raluca Miron, Orbulet Oanamari Daniela, Daniela Elena Pascu, Costache Cristina, **Kinetics of adsorption of zinc ions removal from water and wastewater by ion exchange resins**, 5th International Conference "Advanced Composite Materials Engineering " COMAT 2014 16-17 October 2014, Braşov, Romania, p. 64 -69 (http://aspekt.unitbv.ro/jspui/bitstream/123456789/617/1/12_modrogan_n_64-69.pdf)
15. A.R. Miron, D.E. Pascu, O.D. Orbulet, *C. Modrogan*, M. Nagu (Pascu), G.al. Popa, **The use of permeable reactive barriers for removal of phosphate from ground waters**, 5th International Conference "Advanced Composite Materials Engineering " COMAT 2014 16-17 October 2014, Braşov, Romania, p. 33-38 (http://aspekt.unitbv.ro/jspui/bitstream/123456789/596/1/05_miron_n_33-38.pdf)
16. Nicoleta Neacşu, Irina Pincovski, *Cristina Modrogan*, **Depollution of acid waste waters containing arsenic ions using liquid-liquid extraction**, U.P.B. Sci. Bull., Series B, Vol. 77, Iss. 2, 2015 ISSN 1454 – 2331 (https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full52d_324575.pdf)
17. Dumitru Dinca, Alexandra Raluca Miron, *Cristina Modrogan*, **"Recovery of organic waste with cobustion capacity"**, UPB, Sci.Bull., Series B, vol.77, Iss.1, p.120-128, 2015 (https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full42c_869639.pdf)
18. *Modrogan Cristina*, Miron Alexandra Raluca, Orbulet Oanamari Daniela, Costache Cristina, **Removal of heavy metals ions from wastewater using ion exchange**, 15th International Multidisciplinary Scientific Geoconferences SGEM 2015, publicat în volumul conferinței: Ecology, Economics, Education and Legislation Conference Proceedings, volume 1 pp. 727-734 (<https://www.elibrary.ru/item.asp?id=43020760>)
19. Alexandra Raluca Miron, *Cristina Modrogan*, **Heavy metals removal from industrial wastewater by ion exchange**, 15th International Multidisciplinary Scientific Geoconferences SGEM 2015, publicat în volumul conferinței: Ecology, Economics, Education and Legislation Conference Proceedings, volume 1 pp. 401-408 (<https://www.elibrary.ru/item.asp?id=43020724>)
20. Miron Alexandra Raluca, *Modrogan Cristina*, Pascu Elena, Orbulet Oanamari Daniela, Caprarescu Simona, **Use of ion exchange processes on weak acid resins for nickel removal from waste waters**, 15th International Multidisciplinary Scientific Geoconferences SGEM 2015, publicat în volumul conferinței: Ecology, Economics, Education and Legislation Conference Proceedings, volume 1, pp. 999-1005, ISI Proceedings
21. Cristina Orbeci, Luoana Florentina Pascu, *Cristina Modrogan*, **Degradation of organic compounds from industrial pharmaceutical effluent through advanced oxidation processes**, REV. CHIM. (Bucharest) ♦ 66 ♦ No. 4 ♦ 2015, pp. 482-486 (<https://revistadechimie.ro/Articles.asp?ID=4456>)
22. *Cristina Modrogan*, Alexandra Raluca Miron, Irina Pincovski, Cristina Costache, Firas Hashim Kamar, **Zinc, cooper and cadmium solvent extraction at equilibrium** REV. CHIM. (Bucharest), 66 ♦ No. 9 ♦ 2015, pp. 1257-1260 (<https://revistadechimie.ro/Articles.asp?ID=4622>)
23. Petcu Cristiana, Purcar Violeta, Radu Anita-Laura, Ianchis Raluca, Elvira Alexandescu, Sarbu Andrei, Ion-Ebrasu Daniela, Miron Alexandra Raluca, *Modrogan Cristina*, Ciobotaru Alina Ioana, **Removal of zinc ions from model wastewater system using bicopolymer membranes with fumed silica**, Journal of Water Process Engineering 8 (2015) 1–10 (<https://www.sciencedirect.com/science/article/abs/pii/S2214714415300313>)
24. DAN Pascaru, *Cristina Modrogan*, **The susceptibility of forest biomass for burning and combustion**, UPB, Sci.Bull., Series B, vol.77, Iss.4, p.147-154, 2014

- (https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full9fe_259116.pdf)
25. Simona Caprarescu, Anita-Laura Radu, Violeta Purcarb, Raluca Ianchis, Andrei Sarbu, Marius Ghiurea, Cristian Nicolae, *Cristina Modrogan*, Danut-Ionel Vaireanu, Alain Périchaud, Daniela-Ion Ebrasu, **Adsorbents/ion exchangers-pva blend membranes: preparation, characterization and performance for the removal of zn²⁺ by electro dialysis**, Applied Surface Science 329 (2015) 65–75
(<https://www.sciencedirect.com/science/article/abs/pii/S0169433214028542>)
 26. *Cristina Modrogan*, Alexandra Raluca Miron, Oanamari Daniela Orbulet, Cristina Costache, Giani Apostol, **Ion exchange processes on weak acid resins for wastewater containing cooper ions treatment**, Environmental Engineering and Management Journal February 2015, Vol.14, No. 2, 449-454
(http://www.eemj.icpm.tuiasi.ro/pdfs/vol14/no2/21_965_Modrogan_14.pdf)
 27. Gabriela Andrei, *Cristina Modrogan*, Frumuzache Barca, **An insight into romanian schists and their use**, U.P.B. Sci. Bull., Series B, Vol. 77, Iss. 4, 2015, p. 147-160
(https://www.scientificbulletin.upb.ro/rev_docs_arhiva/fullf84_400198.pdf)
 28. Daniela – Elena Pascu, *Cristina Modrogan*, Alexandra Raluca Miron, Paul Constantin Albu, Daniela Dumitra Clej, Mihaela Pascu (Neagu), Simona Caprarescu, **Use of Mathematical Modelling in Water and Wastewater Area**, REV.CHIM.(Bucharest), 66, No.12, 2015, pp. 1950-1955
(<https://revistadechimie.ro/Articles.asp?ID=4749>)
 29. Cristina Orbeci, *Cristina Modrogan*, Annette Madelene Dancila, **Degradation of pharmaceutical effluents by photo-assisted techniques**, REV. CHIM. (Bucharest), 67, No.1, 2016, p. 166-170
(<https://revistadechimie.ro/Articles.asp?ID=4834>)
 30. *Cristina Modrogan*, Irina Pincovschi, **Depolution Acid Waste Waters Containing Cadmium and Zinc Ions Using as Extractant Tri-n-octyl-phosphine Oxide**, REV.CHIM.(Bucharest),67,No. 4 2016, pp. 645-648
(<https://revistadechimie.ro/Articles.asp?ID=4938>)
 31. Oanamari Daniela Orbulet, Irina Pincovschi, *Cristina Modrogan*, **Adsorption of Sulfur Dioxide from Water Solutions Using Hypercrosslinked Polymers**, REV.CHIM.(Bucharest),67,No. 5 2016, pp. 829-832
(<https://revistadechimie.ro/Articles.asp?ID=4976>)
 32. Irina Pincovschi, Neacsu Nicoleta, *Cristina Modrogan*, **The adsorption of cadmium and zinc ions from waste waters in agricultural argilaceous soils**, REV. CHIM. (Bucharest), 68, 3, 2017 pp., 527-529
(<https://revistadechimie.ro/Articles.asp?ID=5494>)
 33. Irina Pincovschi, Neacsu Nicoleta, *Cristina Modrogan* **The adsorption of lead, copper, chrome and nikel ions from waste waters in agricultural argilaceous soils**, REV. CHIM. (Bucharest), 68, 4, 2017 pp. 635-638
(<https://revistadechimie.ro/Articles.asp?ID=5520>)
 34. *Modrogan Cristina*, Orbulet Oanamari Daniela, Orbeci Cristina, Bobirică Constantin, Dancila Anette Madelene, **Removal of manganese from groundwater by adsorption on gellan gum/Fe₃O₄ composite**, 18th International Multidisciplinary Scientific Geoconferences SGEM 2018, publicat în volumul conferintei: Ecology, Economics, Education and Legislation Conference Proceedings, volume 18(1), pp. 705-711, ISI Proceedings; DOI: 10.5593/SGEM2018/5.1
 35. Oanamari Daniela Orbulet, *Cristina Modrogan*, Cristina Orbeci, Dancila Madelene, **Phosphate removal from wastewater by using low-cost adsorbent materials**, 21st International Symposium “The Environment and the Industry” – SIMI 2018, pp. 92-98, ISI proceeding, DOI: <http://doi.org/10.21698/simi.2018.fp11>

36. Annette Madelene Dancila, *Cristina Modrojan*, Cristian Onose, Oanamari Orbulet, Cristina Orbeci, **The influence of temperature on SO₂ retention from residual gases by absorption into dilute basic solutions**, 21st International Symposium “The Environment and the Industry” – SIMI 2018, pp. 153-161, ISI proceeding, DOI: <http://doi.org/10.21698/simi.2018.fp19>
37. Irina Pincovschi, *Cristina Modrojan*, **The Determination of Mass Transfer Characteristics of a Column for Sulphur Dioxide Adsorption in 13 X Zeolite Working in Unsteady-State Regime**, REV.CHIM. (Bucharest), 69, 9, 2018, pp. 2578-2580 (<https://revistadechimie.ro/Articles.asp?ID=6581>)
38. Orbuleț, O.D., *Modrojan, C.*, Orbeci, C., Dancilă, M.A., Bobirică, C., Bobirică, L., Vasile, E., **Influence of Sulfonation of Inert Macroporous and Macronet Resins on the SO₂ Adsorption Capacity**, 229, 12, 2018, DOI: 10.1007/s11270-018-4041-5 (<https://link.springer.com/article/10.1007/s11270-018-4041-5>)
39. S. Caprarescu, *C. Modrojan*, V. Purcar, A. M. Dancila, I. Fierascu, **Study of corrosion efficiency of mild steel using commercial liquid additives for fish in natural water**, Revista de Chimie (Bucharest), 70 (4), 2019, 1140-1143 (<https://doi.org/10.37358/RC.19.4.7079>)
40. Irina Pincovschi, *Cristina Modrojan*, **Absorption of sulfur dioxide in water with high salinity**, Revista de chimie, REV.CHIM.(Bucharest)♦70♦ No. 6, 2019, 1908-1910, (<https://revistadechimie.ro/Articles.asp?ID=7244>)
41. S. Caprarescu, D. Ion-Ebrasu, A. Soare, V. Purcar, A.-L. Radu, A. Sarbu, M. (Neagu) Pascu, *C. Modrojan*, A. M. Dancila, C. Deleanu, **Removal of Nickel Ions from Synthetic Wastewater Using Copolymers/Natural Extract Blend Membranes**, Romanian Journal of Physics **64**, 821 (2019), (https://www.nipne.ro/rjp/2019_64_9-10/RomJPhys.64.821.PDF)
42. Ion, I., Ivan, G.R., Senin, R.M., Doncea, S.M., Capra, L., *Modrojan, C.*, Oprea, O., Stinga, G., Orbulet, O., Ion, A.C. **Adsorption of triclocarban (TCC) onto fullerene C60 in simulated environmental aqueous conditions**, Separation Science and Technology (Philadelphia) Volume 54, Issue 17, 22 November 2019, Pages 2759-2772, (<https://www.tandfonline.com/doi/abs/10.1080/01496395.2019.1577450>)
43. Simona CAPRARESCU, Violeta PURCAR, *Cristina MODROGAN*, **Commercial aqueous additives used as eco-friendly corrosion inhibitors for carbon steel in natural seawater**, Rev. Roum. Chim., 2020, 65(1), 77-82 DOI:10.33224/rrch.2020.65.1.08, (<http://revroum.lew.ro/wp-content/uploads/2020/01/Art%2008.pdf>)
44. Dăncilă, A.M., Căprărescu, S., Bobirică, C., Purcar, V., Gârleanu, G., Vasile, E., *Modrojan, C.*, Borda, C., Dobrotă, D., **Optimization of the technological parameters for obtaining Zn-Ti Based Composites to increase the performance of H₂S removal from syngas**, Processes, Open Access, Volume 8, Issue 5, 1 May 2020, Article number 562, (<https://www.mdpi.com/2227-9717/8/5/562>)
45. *Modrojan, C.*, Pandele, A.M., Bobirică, C., Dobrotă, D., Dăncilă, A.M., Gârleanu, G., Orbuleț, O.D., Borda, C., Gârleanu, D., Orbeci, C., **Synthesis, characterization and sorption capacity examination for a novel hydrogel composite based on gellan gum and graphene oxide (GG/GO)**, *Polymers*, Open Access Volume 12, Issue 5, 1 May 2020, Article number 1182, (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7285009>)
46. *Cristina Modrojan*, Simona Căprărescu, Annette Madelene Dăncilă, Oanamari Daniela Orbuleț, Eugeniu Vasile and Violeta Purcar, **Mixed Oxide Layered Double Hydroxide Materials: Synthesis, Characterization and Efficient Application for Mn²⁺ Removal from Synthetic Wastewater**, *Materials*, 2020, 13 (18), 4089; <https://doi.org/10.3390/ma13184089> (<https://www.mdpi.com/1996-1944/13/18/4089>)

Lucrări indexate ISI/BDI publicate

47. Ion Untea, Elena Tudorache, Dan Brasoveanu, *Cristina Lăzăroiu, (Modroga)* "**Degradarea oxidativă a fenolului din apele reziduale prin procese de tip Fenton**", Revista de Chimie, 2000, vol.51, nr. 51, (p) 396-402
48. *Cristina Modroga*, Cristina Costache, Oanamari Daniela Orbuleț, Rodica Stanescu, G. Apostol, Ionel Constantinescu, "**Études de coagulation des extraits acides de cenres et scories**", 4ème Colloque Franco-Roumain de Chimie Appliquée, Franta 2006, publicat in revista Scientific study & Research vol 3, 2006
(<http://pubs.ub.ro/?pg=revues&rev=csc6&num=200607&vol=3&aid=1112>)
49. Oanamari Orbuleț, Liana Kreider, *Cristina Modroga*, Alexandra Miron, Giani Apostol, Cristina Costache, Ionel Constantinescu, „**Application of Langmuir and Freundlich isotherms to phosphate sorption by soils: Modelling and Effects of pH**”, The 8th International Symposium Prospects for the 3rd Millennium Agriculture, Cluj-Napoca (publicat în Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca), ISSN 1843-5246, pag 146-153, octombrie 2009
(<http://journals.usamvcluj.ro/index.php/agriculture/article/view/3757>)
50. *Cristina Modroga*, Cristina Costache, Oanamari Orbuleț, Alexandra Miron, Rodica Stănescu, Giani Apostol, „**The study of N-NO₃ restraint on soil**”, The 8th International Symposium Prospects for the 3rd Millennium Agriculture, Cluj-Napoca (publicat în Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca), ISSN 1843-5246, pag 129-135, octombrie 2009
(<http://journals.usamvcluj.ro/index.php/agriculture/issue/view/126>)

**6. Lucrări publicate în reviste și volume de conferințe cu referenți
(neindexate)**

- Reviste

- Selecție cu maximum 40 lucrări în volume de conferințe

1. *Cristina Modrogan*, Liliana Bobirica, Constantin Bobirica, Cristina Costache, Rodica Stanescu, "**Removal of Chromium from Tannery Solid Waste**", Proceedings of the First International Conference on Environmental Research and Assessment, Bucharest, Romania, March, 23-27, 2003, (p)145-151
2. C. Bobirica, L. Bobirica, O. Butucea, *C. Modrogan*, R. Stanescu, "**Stabilization by solidification of hazardous waste with high concentration of chromium**", 13th Romanian International Conference on Chemistry and Chemical Engineering, vol .1, 2003, (p) 158-163
3. *Cristina Modrogan*, Liliana Bobirica, Oanamari Daniela Butucea, C. Bobirica, Viky Dicu, Cristina Costache, Rodica Stanescu, Ionel Constantinescu, "**Iron removal from natural waters by purolite MZ-10 ion exchange resins**", 13th Romanian International Conference on Chemistry and Chemical Engineering, vol .1, 2003, (p) 182-187
4. *Cristina Modrogan*, Cristina Costache, Oanamari Daniela Orbulet, Rodica Stanescu, Ecaterina Diaconu, "**The adsorbitive removal of Cr(III) by C100 H cation exchange resin**", 14th Romanian International Conference on Chemistry and Chemical Engineering, pag. S06-270÷275, 2005
5. Cristina Costache, *Cristina Modrogan*, Rodica Stănescu, G.Apostol, Oanamari Butucea, I.Constantinescu, "**Fertilizers development of a sustainable agriculture**", CIEM, pag. 704-709 , 2005
6. Cristina Costache, *Cristina Modrogan*, Rodica Stanescu, G.Apostol, Oanamari Butucea, I.Constantinescu, "**New fertilizers—a support of a sustainable agriculture**", Third International Conference Ecological Chemistry-2005, pag, 174-180
7. *Cristina Modrogan*, Cristina Costache, Oanamari Daniela Orbulet, Rodica Stanescu, Ionel Constantinescu, "**Sustainable development in tourism**" The 7th International Conference of Tehnology and Quality for Sustained Development, 2006
8. *Modrogan Cristina*, Costache Cristina, Orbulet Daniela Oanamari, „**Removal of hexavalent Chromium from aqueous solutions by adsorption on peach kernel and nutshell**”, The First International Proficiency Testing Conference Sinaia, România 11th – 13th October, 2007
9. *Cristina Modrogan*, Oanamari Daniela Orbulet, Alexandra Miron, Cristina Costache, Ionel Constantinescu „**The nitrate reduction from groundwater by iron at low pH value**”, 15th Romanian International Conference on Chemistry and Chemical Engineering, vol .1, 2007
10. Oanamari D. Orbuleț, G. Apostol, *Cristina Modrogan*, Cristina M. Costache, Rodica Stănescu, I. Constantinescu, „**Sorption mobile phosphates in soil**”, Simpozion Internațional „Producția de îngrășăminte cu fosfor și intensivizarea fertilizării fosfatice factor important în dezvoltarea producției agricole”, 25-26 Septembrie 2008, Constanța – România
11. *Cristina Modrogan*, Oanamari Orbuleț, Alexandra Miron, Cristina Costache, „**New methods for nitrates removal from contaminated wastewaters**”, The Second International Proficiency Testing Conference, Sibiu-România, pag. 256-261, ISSN 2066-737X, 2009
12. Oanamari D. Orbuleț, *Cristina Modrogan*, Alexandra R. Miron, Giani d. Apostol, Cristina M. Costache, Rodica Stănescu, Ionel Constantinescu, „**The pH influence on phosphates sorption in soil**”, 15th World fertilizer congress of the international scientific centre for fertilizers (CIEC) – Meeting the fertilizer demand on a changing globe: biofuels, climate change and contaminants-București, 29-02 septembrie 2011

13. *Modrojan Cristina*, Miron Alexandra Raluca, Butucea Oanamari Daniela and Costache Cristina „**COD removal from industrial wastewater using activated carbon prepared from nut shell**” 7th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries (EMCC7), Corfu, 2012
14. Miron Alexandra Raluca, *Modrojan Cristina*, Butucea Oanamari Daniela and Costache Cristina „**The use of electrocoagulation technique in coloured wastewater treatment**” 7th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries (EMCC7), Corfu, 2012
15. *Cristina Modrojan*, Irina Pincovschi, Cristina Orbeci, **Forecasting study for Cd²⁺ ion removal using ion exchange**, INCD ECOIND – International Symposium – SIMI 2015 “The environment and the industry”, 29-30 octombrie 2015
16. C. Orbeci, *C. Modrojan*, A.R. Miron, **Removal of pharmaceutical effluents using photocatalytic membranes**, 19 th Roamnian International Conference on Chemistry and Chemical Engineering, Sibiu, Romania, 2-5 septembrie, 2015
17. Cristina Orbeci, *Cristina Modrojan*, Alexandra Raluca Miron, Firas Hashim Kamar **Removal of heavy metal ions through ion exchange**, Of the IIIrd International Conference on Methods and Materials for Separation Processes Separation Science – Theory and Practice 2015, 6-10 september, 2015, Karpacz, Poland, pp. 99
18. *Cristina Modrojan*, Alexandra Raluca Miron and Oanamari Daniela Orbulet, **Removal of heavy metals from wastewaters by electro dialysis in the presence of ion exchange membranes**, 5 th Regional Symposium on Electrochemistry South East Europe, Riu Pravetz, Bulgaria, 4-8 iunie 2015, pp. 130
(https://www.aseee.eu/images/RSESEE5/RSE-SEE5_BookOfAbstracts_web.pdf)
19. *C. Modrojan*, O.D. Orbulet, C. Costache, A.R. Miron, **Neural network modeling and simulation of sorption of Cd²⁺ ions from wastewater using low cost adsorbent**, 19 th Roamnian International Conference on Chemistry and Chemical Engineering, Sibiu, Romania, 2-5 septembrie, 2015
20. *Cristina Modrojan*, Alexandra Raluca Miron, Cristina Costache, Daniela Elena Pascu, **Removal of the Cd²⁺ ions from waters and industrial wastewaters by ion-exchange method**, 9th International Conference on Materials Science & Engineering, 5-7 martie, 2015, Brasov, Romania, pp. 39
21. Cristina Kravvetz, *Cristina Modrojan*, Alexandra Raluca Miron, Oanamari Daniela Orbulet, **Forecasting study for zinc ion removal using reactive barriers**, 2th International Conference Geography Environment and GIS, students and young researchers, 21-23 mai 2015, Târgoviste, Romania, pp. 43-44
(<http://www.limnology.ro/GEG2015/abstract.html>)
22. Alexandra Raluca Miron, Daniela Elena Pascu, Oanamari Daniela Orbulet, *Cristina Modrojan*, Mihaela Neagu (Pascu), George Alexandru Popa, “**The use of permeable reactive barriers for removal of phosphate from groundwaters**”, lucrare acceptata ca **prezentare orală** la 5th International Conference “Advanced Composite Materials Engineering”, sectiunea BNS1e, 16-17 octombrie 2014, Brasov, Romania;
(<https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWFpbXJb21hdDIwMTR8Z3g6MTk2OTdjNWQ3Y2QwZGIwOA>)
23. Alexandra Raluca Miron, *Cristina Modrojan*, Daniela Elena Pascu, Paul Constantin Albu, Daniela Dumitra Clej, Simona Caprarescu, “*The use of Mathcad programme for data processing in the wastewater treatment field*”, lucrare acceptata ca **poster** la 9th International Conference on Materials Science & Engineering, sectiunea V – Safety, Modelling and Simulation in Materials Engineering, 5-7 martie 2015, Brasov, Romania;
24. Alexandra Raluca Miron, *Cristina Modrojan*, Daniela Elena Pascu, Simona Caprarescu, Hussam Nadum Abdalraheem Al- Ani, Abbas Abdul Kadhim Klaif Rikabi, Daniela Dumitra

- Clej, “**Mathematical and kinetic modeling of aluminium anodes behavior during electrocoagulation process**”, lucrare acceptata si prezentata ca **poster** la Fifth Regional Symposium on Electrochemistry – South East Europe, RSE-SEE, 7-11 iunie 2015, RIU Pravets, Pravets, Bulgaria;
(https://www.aseee.eu/images/RSESEE5/RSE-SEE5_BookOfAbstracts_web.pdf)
25. Annette Madelene Dancila, *Cristina Modrogan*, Cristina Orbeci, Oanamari Daniela Orbulet, **Cadmium and copper sorption in a clayey chernozem soil**, *INCD ECOIND – International Symposium – SIMI 2016 “The Environment and Industry”*, Proceedings Book, 301-308
 26. Cristina Orbeci, Annette Madelene Dăncilă, *Cristina Modrogan*, Daniela Simina Ștefan, **Removal of low biodegradable organic compounds from wastewater**, 20th Romanian International Conference on Chemistry and Chemical Engineering, Poiana Brasov, ROMANIA - September 6-9, 2017, S5-100
 27. Mihai Eftimie, Madelene Dăncilă, *Cristina Modrogan*, Cristina Orbeci, Alina Melinescu **Recovery of CRT glass waste as photocatalytic substrate**, 20th Romanian International Conference on Chemistry and Chemical Engineering, Poiana Brasov, ROMANIA - September 6-9, 2017, S5 - 107
 28. *Cristina Modrogan*, Oanamari Daniela Orbulet, Madelene Dancila, Constantin Bobirica, Cristina Orbeci, Cristina Costache **Removal of some heavy metals from industrial wastewaters by ion exchange method**, 20th Romanian International Conference on Chemistry and Chemical Engineering, Poiana Brasov, ROMANIA - September 6-9, 2017, S5-156
 29. Oanamari Daniela Orbulet, *Cristina Modrogan*, Constantin Bobirică, Liliana Bobirică, Cristina Orbeci, Cristina Costache, **Application of static and dynamic kinetic models for evaluating phosphate ions sorption processes in soil** 20th Romanian International Conference on Chemistry and Chemical Engineering, Poiana Brasov, ROMANIA - September 6-9, 2017, S5 – 183
 30. Oanamari Daniela ORBULET, *Cristina MODROGAN*, Madelene DANCILA, Constantin BOBIRICA, Cristina ORBECI, Cristina COSTACHE, **Adsorption competence study of soybean wastes regarding removal of cr (vi) from waste waters** 2 th International congress of health and environment October 23-25, 2017 Adana-TURKEY, pag. 433-434
 31. Mihai EFTIMIE, Madelene DĂNCILĂ, *Cristina MODROGAN*, Cristina ORBECI, Alina MELINESCU, **COD reduction of wastewater containing ampicillin using crt glass waste as photocatalytic substrate for tio**, 2th international congress of health and environment October 23-25, 2017 Adana-TURKEY, pag. 435
 32. Dancila A.M., Caprarescu S., Purcaru V., Vasile E. *Modrogan C.*, Melinescu A, **Synthesis and characterization of zn2tio4 used in desulphurisation processes of waste gases with h2s content**, Oral Presentation vineri/pag 22, section Novel materials for environmental and energy applications, 2017
 33. *Cristina Modrogan*, Madalina Pandeale, Madelene Dancila, Oanamari Orbulet, Cristina Orbeci, Constantin Bobirica, **Isotherm models and kinetics of zinc adsorbtion by using gellan-gum/graphene oxides beads**, Oral presentation vineri/pag 23, section: Water and wastewater cycles: technologies, recycling, and valorization, 2017
 34. Oanamari Orbulet, *Cristina Modrogan*, Madalina Pandeale, Cristina Orbeci, Madelene Dancila, Constantin Bobirica, **SO₂ removal from residual gases by solid adsorbents**, poster S6P20/ pag 35, Section VI. Monitoring and modelling of environmental pollution, 2017
 35. Mihai Eftimie, Annette Madelene Dancila, *Cristina Modrogan*, Cristina Orbeci, Alina Melinescu, **COD reduction of wastewater containing ampicillin using crt glass waste as photocatalytic substrate for TiO₂**, 20 th INTERNATIONAL SYMPOSIUM – SIMI 2017 “THE ENVIRONMENT AND THE INDUSTRY” pag 47

36. S. CAPRARESCU, V. PURCAR, A.L. RADU, E. ALEXANDRESCU, C. MODROGAN, **Removal of nickel ions from synthetic wastewater by electro dialysis using polymer membranes doped with , plant extract**, 17th International Multidisciplinary Scientific GeoConference SGEM 2017, www.sgem.org, SGEM2017 Conference Proceedings, ISBN 978-619-7408-09-6 / ISSN 1314-2704, 29 June - 5 July, 2017, Vol. 17, Issue 52, 755-762 pp, DOI: 10.5593/sgem2017/52/S20.097
37. *Modrogan Cristina*, Dăncilă Annette Madelene, Orbuleț Oanamari Daniela, Orbeci Cristina, Bobirică Constantin, **Removal of manganese from groundwater by adsorption on gellan gum/magnetite composite**, 18th International Multidisciplinary Scientific GeoConference SGEM 2018, Albena, Bulgaria
(<https://www.sgem.org/sgemlib/spip.php?article12796>)
38. Oanamari Daniela Orbuleț, *Cristina Modrogan**, Constantin Bobirică, Cristina Orbeci, Dăncilă Madelene, Liliana Bobirică, **Phosphate removing from wastewater by using low-cost adsorbent materials**, INTERNATIONAL SYMPOSIUM “THE ENVIRONMENT AND THE INDUSTRY”, SIMI 2018, <http://hdl.handle.net/123456789/1228>
39. Annette Madelene Dăncilă, *Cristina Modrogan*, Cristian Onose, Oanamari Orbuleț, Cristina Orbeci, **The influence of temperature on SO₂ retention from residual gases by absorption into dilute basic solutions**, INTERNATIONAL SYMPOSIUM “THE ENVIRONMENT AND THE INDUSTRY”, SIMI 2018, DOI: <http://doi.org/10.21698/simi.2018.fp19>
40. *Cristina MODROGAN*, Oanamari Daniela Orbuleț, Madelene Anette Dancila, Cristina Orbeci, Constantin Bobirică, Cristina Costache, **Enlèvement de manganèse et fer contenus dans les eaux souterrains utilisant adsorption**, 10ème édition du Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2018), Bacau, Romania
(<http://cofroca.ub.ro/wp-content/uploads/2018/06/Programme-detaille-COFrRoCA-2018.pdf>)
41. SCARLAT Adina Alexandra, CAPRARESCU Simona*, PURCAR Violeta, *MODROGAN Cristina*, DANCILA Annette Madelene, PASCU (NEAGU) Mihaela, **Application of natural fruit extracts as green corrosion inhibitors for steel in natural water**, Prioritatile Chimiei pentru o Dezvoltare Durabila, PRIOCHEM XIV - Bucuresti Romania, 2018
(<https://icechim.ro/wp-content/uploads/summary2018.pdf>)
42. Scarlat Adina Alexandra, Căprărescu Simona, Purcar Violeta, *Modrogan Cristina*, **Recovery of copper ions from synthetically wastewater using polymer membrane with silane**, 5th International Conference “Geography, Environment and GIS”, which will be held in Targoviste, Romania, between 17-19 May 2018.
(<https://www.limnology.ro/GEG2018/programme.html>)
43. Stancu Elena-Liliana, Căprărescu, Simona, Purcar Violeta, *Modrogan Cristina*, **Study of corrosion efficiency of metals using commercial liquid additive in acidic medium**, 5th International Conference “Geography, Environment and GIS”, which will be held in Targoviste, Romania, 17-19 May 2018.
(<https://www.limnology.ro/GEG2018/programme.html>)
44. O. D. Orbuleț, *Cristina Modrogan*, C. Bobirică, C. Orbeci, D. Madelene, L. Bobirică, **Use of autoclaved cellular concrete and pumice stone for the removing of phosphates from wastewater**, 4 th International Conference on Chemical Engineering inovative Materials and Processes for a Sustainable Developmnet, Iasi 2018
(<http://www.cercetare.icpm.tuiasi.ro/conferinte/ICCE2018/pdf/program%20ICCE%202018%20.pdf>)
45. C. Bobirică, C. Orbeci, L. Bobirică, O.D. Orbuleț, *C. Modrogan*, D. Madelene, **Examination of Pb immobilization pathways in cementitious systems**, 11th International Conference on Materials Science & Engineering-BraMat 2019, Transilvania University of Brasov – Romania, III.PO.01 pag 121
(http://www.bramat.ro/uploads/7/7/4/0/77408170/program_bramat2019g.pdf)

46. O.D. Orbuleț, C. Bobirică, *C. Modrogan*, C. Orbeci, D. Madelene, L. Bobirică, A.I. Pitic, **LDHs-type materials for phosphates retention from wastewater**, 11th International Conference on Materials Science & Engineering-BraMat 2019, Transilvania University of Brasov – Romania, V.PO.11 pag 207
(http://www.bramat.ro/uploads/7/7/4/0/77408170/program_bramat2019g.pdf)
47. Annette Madelene Dancila, Oanamari Daniela Orbuleț, *Cristina Modrogan*, Simona Caprarescu, **Soybean waste material as potential adsorbent for heavy metal ions from aqueous solutions**, 19th International Multidisciplinary Scientific Geoconference SGEM 2019, Ecology, Economics, Education and Legislation, Vol 19, Issue: 5.2, pag. 823-830, ISSN 1314-2704, <https://doi.org/10.5593/sgem2019/5.2>
48. Liliana Bobirica, *Cristina Modrogan*, Constantin Bobirica, Oanamari Daniela Orbuleț, Madelene Annette Dancila, Cristina Orbeci, **New materials for removing nitrate, manganese and iron from groundwater**, 22nd International Symposium “The Environment and The Industry”, SIMI 2019, Proceedings Book, Bucharest, Romania, pag 84, ISSN-L: 1843-5831, <http://doi.org/10.21698/simi.2019>
49. S. Căprărescu, V. Purcar, A. M. Dăncila, *C. Modrogan*, O. D. Orbuleț, **Corrosion protection of mild carbon steel using seaweed**, 19th International Balkan Workshop on Applied Physics and Materials Science, 16-19 July 2019, Constanta, Romania 81. A. A.
(<http://ibwap.ro/wp-content/uploads/2019/07/IBWAP-book-of-abstracts-2019.pdf>)
50. Scarlat, S. Căprărescu, V. Purcar, *C. Modrogan*, A. M. Dăncila, O. D. Orbuleț, **Treatment of paint wastewater using natural plant, crushed granite and anion exchange resin**, 6th International Conference Geography, Environment and GIS for students and young researchers, 23-25 May 2019, Targoviste, Romania
(<http://www.limnology.ro/GEG2019/programme.html>)
51. Oanamari Daniela Orbuleț, *Cristina Modrogan*, Constantin Bobirică, Dăncilă Madelene, Cristina Orbeci, Liliana Bobirică, **Nitrates removal from groundwater using nano zerovalent iron supported on anion exchange resin**, 10th International Conference on Environmental Engineering and Management - ICEEM10, pag. 285-286, ISSN 2457-7049, ISSN-L 2457-7049, 2019 Iasi, Romania
(<http://iceem.ro/wp/wp-content/uploads/2019/09/ICEEM10-Final-Program.pdf>)
52. Constantin Bobirică, Cristina Orbeci, *Cristina Modrogan*, Oanamari Daniela Orbuleț, Liliana Bobirică, **Use of aluminosilicate waste materials as precursors for geopolymer synthesis**, 10th International Conference on Environmental Engineering and Management - ICEEM10, pag. 189-190, ISSN 2457-7049, ISSN-L 2457-7049, 2019 Iasi, Romania
(<http://iceem.ro/wp/wp-content/uploads/2019/09/ICEEM10-Final-Program.pdf>)
53. Oanamari Daniela Orbuleț, Cristina Orbeci, Constantin Bobirică, *Cristina Modrogan*, Dăncilă Madelene, Liliana Bobirică, **Phosphate Removal from Aqueous Solution using Nanosized Zerovalent Iron Supported by Anionic Exchange Resin**, 21st Romanian International Conference on Chemistry and Chemical Engineering, S5_193, Constanta - Romania, 2019
(<http://ricce21.chimie.upb.ro/doc/program.pdf>)
54. *Cristina Modrogan*, Oanamari Daniela Orbuleț, Liliana Bobirică, Madelene Annette Dăncilă, Constantin Bobirică, Cristina Orbeci, **Nitrates removal from aqueous solutions using magnetite nanoparticles functionalized with EDTA**, 21st Romanian International Conference on Chemistry and Chemical Engineering, S5_154, Constanta - Romania, 2019
(<http://dspace.incdecoind.ro/bitstream/123456789/1451/1/fp%2011.pdf>)

5 Brevete obținute în întreaga activitate

6 Experiența acumulată (inclusiv experiența managerială) în alte programe/proiecte naționale/internaționale:

Programul/Proiectul	Funcția	Perioada: de la... până la...
MATRA Project – Project of education of environmental	Membru echipa	2003 - 2004
Contract 1911/2004-Relansin, UPB 43 – 04 - 05	Membru echipa	2004 - 2008
Contract 2090/2004-Relansin, UPB 43 – 04 - 06	Membru echipa	2004 - 2008
Contract 2091/2004-Relansin, UPB 43 – 05 - 10	Membru echipa	2004 - 2008
Contract TEHNOLOGII DE EPURAREA AVANSATĂ PENTRU RECIRCULAREA FLUENȚILOR INDUSTRIALI- RIWA-TECH	Membru echipa	2005 – prezent
International research project - HACH LANGE GmbH, Germany, “Comparative Chemical Analyses of Drinking and Waste Water Performed according to HACH LANGE Cuvette Test and BDS”	Membru echipa	2008
Technical decision support system for sustainable management of water - STEDIWAT, PN II, contract no.32-125	Membru echipa	2008-2012
Dezvoltarea resurselor umane din cercetarea doctorală și postdoctorală: motor al societății bazate pe cunoaștere, Knowledge	Membru in echipa	2014-2016
UPB–EXCELENȚĂ–2016, UPB – GEX Membrane polimerice pe bază de tincturi din plante medicinale pentru epurarea apelor uzate sintetice ce conțin ioni de metale grele Contract nr. 62/26.09.2016	Membru echipa	2016 -2017
UPB – Granturi interne de Cercetare Sudarea laparoscopica – “procedeu WIG”, Contract nr. 35/26.09.2016	Participant	2016-2017
UPB – Granturi interne de Cercetare “Metode inovative de tratare ape”, Contract nr. 78/22.09.2017 nr. 136	Director de proiect	2017-2018
Grant intern de cercetare - Granturi naționale (GNac 2018 ARUT), Metode de depoluare a apelor subterane contaminate cu nutrienți folosind bariere reactive permeabile CH37-18-01	Membru in echipa	2018-2019

Data: 12.01.2021

Semnătura: