

Universitatea Națională de Știință și Tehnologie Politehnica Bucuresti
Facultatea Inginerie Chimică și Biotehnologii
Departamentul Chimie Analitica si Ingineria Mediului
Prof. dr.habil. ing. Modrogan Cristina

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. Teza de abilitare:

Depoluarea apelor reziduale cu conținut de metale grele, 7 octombrie 2021

4. Cărți și 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 și 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 și epurarea apelor - îndrumar de laborator**, Editura Politehnica Press, 2020, ISBN 978-606-515-903-7
5. 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
6. S., Căprărescu, Simona, C., *Modrogan, Cristina*, A.M., Dăncilă, Anette Madelene, O.D., Orbuleț, Oanamari Daniela, *Advanced Materials Based on Nanoparticles for Water and Wastewater Treatment: From Synthesis to Applications*, Editura Tylor, capitol carte 2024, pg. 311-343

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. Cristina Ichimas, Mircea Nicoara, Laura Pricope, Cristina Modrojan, „Ecologie și Protecția Mediului”, editura...Ecozone, Iasi 2004, vol I ISBN 973-86082-6-0
3. Cristina Ichimas, Mircea Nicoara, Laura Pricope, Cristina Modrojan, „Ecologie și Protecția Mediului”, editura Ecozone, vol 2, 2005, ISBN
4. Cristina Costache, Cristina Modrojan, „*Ecotoxicologie și evaluarea riscului*” Editura Agir 2006, ISBN 973-720-073-x

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

1. Ecaterina Diaconu, Oanamari Daniela Orbuleț, Alexandra Raluca Miron, *Cristina Modrojan*, **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
2. *Cristina Modrojan*, 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
3. Alexandra Raluca Miron, *Cristina Modrojan*, 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
4. Alexandra-Raluca Miron, *Cristina Modrojan*, 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
5. *Cristina Modrojan*, 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
6. Alexandra Raluca Miron, *Cristina Modrojan*, Oanamari Daniela Orbuleț, **„Studies and Research Regarding Some Pollutants Removal Using Electro-coagulation Technique”**, REV. CHIM. (Bucharest), 62, nr.2, 2011, pg.163-167
7. *Cristina Modrojan*, 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
8. Oanamari D. Orbuleț, Tudor Căsândroi, Gheorghe Voicu, Alexandra R. Miron, Cristina Modrojan, Development of some models for assessment the dynamic migration processes of phosphates in soil columns, ACS – Agriculturae Conspectus Scientificus, Croatia, 77 (4), 2012
9. *Cristina Modrojan*, 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
10. Irina Pincovschi, *Cristina Modrojan*, **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
11. *Cristina Modrojan*, Irina Pincovschi, Sanda Budea, Depollution of Acid Waste Waters Containing Cadmium Ions Using Liquid-Liquid Extraction, Rev. Chim. (Bucharest) 65, 10, 2014, 1235-1237
12. *Cristina Modrojan*, Irina Pincovschi, **Depollution of Acid Waste Waters Containing Zinc Ions Using Liquid - liquid Extraction**, REV. CHIM. (Bucharest) 65, 11, 2014, 1253 – 1255
13. *Cristina Modrojan*, Oanamari Daniela Orbuleț, Alexandra Raluca Miron, **Nitrate Removal from Water using Exchange Resins**, Revista de chimie, 65, 12, 2014, p 1502- 1506
14. *Modrojan Cristina*, Alexandra Raluca Miron, Orbuleț 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
15. A.R. Miron, D.E. Pascu, O.D. Orbulet, *C. Modrogan*, M. Nagu (Pascu), G.al. Popa, **The use of permeable reactive barrieirs 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
 16. Nicoleta Neacşu, Irina Pincovschi, *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
 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
 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 conferintei: Ecology, Economics, Eduction and Legislation Conference Proceedings, volume 1 pp. 727-734
 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 conferintei: Ecology, Economics, Eduction and Legislation Conference Proceedings, volume 1 pp. 401-408
 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 conferintei: Ecology, Economics, Eduction 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
 22. *Cristina Modrogan*, Alexandra Raluca Miron, Irina Pincovschi, Cristina Costache, Firas Hashim Kamar, **Zinc, cooper and cadmium solvent extraction at equilibrium** REV. CHIM. (Bucharest), 66 ♦ No. 4 ♦ 2015, pp. 1257-1260
 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
 24. DAN Pascaru, *Cristina Modrogan*, **The susceptibilty of forest biomass for burning and combustion**, UPB, Sci.Bull., Series B, vol.77, Iss.4, p.147-154, 2014
 25. Simona Caprarescu, Anita-Laura Radu, Violeta Purcar, 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
 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,
 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
 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
29. Cristina Orbeci, *Cristina Modrojan*, Annette Madelene Dancila, **Degradation of pharmaceutical effluents by photo-assisted techniques**, REV. CHIM. (Bucharest), 67, No.1, 2016, p. 166-170
 30. *Cristina Modrojan*, Irina Pincovski, **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
 31. Oanamari Daniela Orbulet, Irina Pincovski, *Cristina Modrojan*, **Adsorption of Sulfur Dioxide from Water Solutions Using Hypercrosslinked Polymers**, REV.CHIM.(Bucharest),67,No. 5 2016, pp. 829-832
 32. Irina Pincovski, Neacsu Nicoleta, *Cristina Modrojan*, **The adsorption of cadmium and zinc ions from waste waters in agricultural argillaceous soils**, REV. CHIM. (Bucharest), 68, 2017 pp., 527-529
 33. Irina Pincovski, Neacsu Nicoleta, *Cristina Modrojan* **The adsorption of lead, copper, chrome and nikel ions from waste waters in agricultural argillaceous soils**, REV. CHIM. (Bucharest), 68, 2017 pp. 635-638
 34. *Modrojan Cristina*, Orbuleț 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 conferinței: 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 Modrojan*, 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 Pincovski, *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
 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, WOS:000451653000001; FI: 1.769
 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 (IF = 1,605)
 40. Irina Pincovski, *Cristina Modrojan*, **Absorption of sulfur dioxide in water with high salinity**, Revista de chimie, REV.CHIM.(Bucharest)♦70♦ No. 6, 2019, 1908-1910,
 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), WOS:000501555500012
 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

43. **Simona Căprărescu, Roxana Gabriela Zgârian, Grațiela Teodora Tihan, Violeta Purcar, Eugenia Eftimie Totu, Cristina Modrogan, Anita-Laura Chiriac and Cristian Andi Nicolae**, Biopolymeric Membrane Enriched with Chitosan and Silver for Metallic Ions Removal, *Polymers* **2020**, *12*(8), 1792; <https://doi.org/10.3390/polym12081792>
44. **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/rch.2020.65.1.08, WOS:000548815700008
45. Dăncilă, A.M., Căprărescu, S., Bobirică, C., Purcar, V., Gârleanu, G., Vasile, E., **Modrogan, 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, WOS:000541752600004
46. **Modrogan, 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, WOS:000541431100187
47. **Cristina Modrogan, 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>, WOS:000581705000001
48. **S. CĂPRĂRESCU , V. PURCAR, V. RĂDIȚOIU , C. A. NICOLAE, C. MODROGAN, A. A. SCARLAT, EFFICIENT AND VERSATILE LABORATORY ELECTRODIALYSIS DEVICE USED FOR REMOVAL OF IRON IONS FROM A SYNTHETIC WASTEWATER**, *Romanian Reports in Physics* **73**, 802 (2021), pp. 1-11, WOS:000692842100015
49. Delia Gârleanu, Claudia Borda, Gabriel Gârleanu, Cristina Modrogan, Marius Dumitraș, Dan Dobrotă, Sever-Gabriel Racz and Loredana Cristina Dascălu, **Increasing the Durability of Trimming Dies Used to Clean Anodes in the Aluminum Industry**, *Metals* **2021**, *11*(8), 1157; [doi:10.3390/met11081157](https://doi.org/10.3390/met11081157), WOS:000690499400001; FI 2.351 zona galbena
50. **Simona Căprărescu, Cristina Modrogan, Violeta Purcar, Annette Madelene Dăncilă and Oanamari Daniela Orbuleț, "Study of Polyvinyl Alcohol-SiO₂ Nanoparticles Polymeric Membrane in Wastewater Treatment Containing Zinc Ions**, *Polymers* **2021**, *13*(11), 1875; <https://doi.org/10.3390/polym13111875> - 04 Jun 2021, WOS:000660545900001 FI 4.329 zona rosie
51. **Modrogan, C.; Căprărescu, S.*; Dăncilă, A.M.; Orbuleț, O.D.; Grumezescu, A.M.; Purcar, V.; Raditoiu, V.; Fierascu, R.C. Modified Composite Based on Magnetite and Polyvinyl Alcohol: Synthesis, Characterization, and Degradation Studies of the Methyl Orange Dye from Synthetic Wastewater**. *Polymers* **2021**, *13*(22), 3911, DOI 10.3390/polym13223911, WOS:000723769100001, FI 4.329
52. **Orbuleț, OD; Borda, C; Garleanu, D; Garleanu, G; Stancu, A; Modrogan, C, Fe₃O₄ particles functionalized with EDTA and PVA - preparation, characterization and their use in removal of manganese ions from synthetic aqueous solutions**, *University Politehnica of Bucharest Scientific Bulletin series B-chemistry and materials science*, Volume 83, Issue 3, Page 101-116, Published 2021, WOS:000692192600009
53. **Caprărescu, S; Purcar, V; Raditoiu, V; Nicolae, CA; Modrogan, C; Scarlat, AA, Efficient and versatile laboratory electro dialysis device used for removal of iron ions from a synthetic**

wastewater, [Romanian Reports in Physics](#), Volume 73, Issue 3, Published 2021, FI 2.085, WOS:000692842100015

54. Vasilache, N; Diacu, E; Modrojan, C; Lucaciu, I; Vasile, G; Paun, IC; Iancu, V, **Forecasting methods for assessment of the biodegradability of wastewater from organic separators**, University Politehnica of Bucharest Scientific Bulletin series B-chemistry and materials science, Volume 83, Issue, 4, Page 95-108, Published 2021, WOS:000731356100009
55. Vasilache, N; Diacu, E; Modrojan, C; Chiriac, FL; Paun, IC; Tenea, AG; Pirvu, F; Vasile, GG, **Groundwater Quality Affected by the Pyrite Ash Waste and Fertilizers in Valea Calugareasca, Romania**, WATER, Volume 14, Issue 13, 2022, DOI 10.3390/w14132022, ,
56. Orbuleț Oanamari Daniela, Dăncilă Annette Madelene, Căprărescu Simona, Modrojan Cristina, Purcar Violeta, **Nitrates Removal from Simulated Groundwater Using Nano Zerovalent Iron Supported by Polystyrenic Gel**, *Polymers*, Volume 15, Issue 1, 61, DOI 10.3390/polym15010061, 2023, WOS:000909882000001
57. [Orbulet, OD](#), Modrojan, C; Covaliu-Mierla, CI, *Simulating Aquifer for Nitrate Ion Migration Processes in Soil, Water, 16, 5, pg.783*, DOI 10.3390/w16050783, WOS: WOS:001183130700001, 2024
58. [I. Pincovschi, Irina, A., Dragomirescu, Andrei, C., Modrojan, Cristina](#), Influence of impeller design on oxygen transfer in a stirred water tank with square cross-section, *Biochemical Engineering Journal*, 2025, pg. 109649
59. [D.N., Airinei, Denisa Nicoleta, C., Modrojan, Cristina, O.D., Orbuleț, Oanamari Daniela, ... M., Boșomoiu, Magdalena, C., Matei, Cristian](#), *Biodegradable Thermoplastic Materials with Application in the Manufacture of Bags Without Synthetic Polymers, vol 17, nr. 3, Polymers, 2025, pg. 356*
60. [M., Grinzeanu, Mădălina, O.D., Orbuleț, Oanamari Daniela, A.M., Dăncilă, Annette Madelene, ... L., Bobirică, Liliana, M.A., Pandele, Madalina Andreea](#), *Biomimetic Studies on the Antimicrobial Activity of Some Biocides Based on Garlic and Lavender in Surface Waters, vol 9, 10, Biomimetics, 2024, pg. 591*

Lucrări indexate ISI/BDI publicate

1. Ion Untea, Elena Tudorache, Dan Brasoveanu, *Cristina Lăzăroiu, (Modrojan)* "**Degradarea oxidativă a fenolului din apele reziduale prin procese de tip Fenton**", *Revista de Chimie*, 2000, vol.51, nr. 51, (p) 396-402
2. *Cristina Modrojan*, Cristina Costache, Oanamari Daniela Orbuleț, Rodica Stanescu, G. Apostol, Ionel Constantinescu, "**Etudes 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
3. Oanamari Orbuleț, Liana Kreider, *Cristina Modrojan*, 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
4. *Cristina Modrojan*, 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

8. Lucrări publicate în reviste și volume de conferințe cu referenți

(neindexate)

- Reviste

- Selecție cu maximum 40 lucrări în volume de conferințe

1. *Cristina Modrojan*, 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. Modrojan*, 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 Modrojan*, 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 Modrojan*, 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 Modrojan*, Rodica Stănescu, G.Apostol, Oanamari Butucea, I.Constantinescu, "**Fertilizers development of a sustainable agriculture**", CIEM, pag. 704-709 , 2005
6. Cristina Costache, *Cristina Modrojan*, 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 Modrojan*, 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. *Modrojan 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 Modrojan*, 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 Modrojan*, 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 Modrojan*, 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 Modrojan*, 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*, Alexandra Raluca Miron, Oanamari Daniela Orbulet, Cristina Costache, Giani Apostol, **Ion exchange processes on weak acid resins for waste water containing cooper ions treatment**, 2 nd International Conference on Chemical Engineering, 4-8 noiembrie 2014
16. *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
17. 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
18. 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
19. *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
20. *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
21. *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
22. 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
23. 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;
24. 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;
25. 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;
26. 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
 27. 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
 28. 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
 29. *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
 30. 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
 31. 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
 32. Mihai EFTIMIE, Madelene DĂNCILĂ, *Cristina MODROGAN*, Cristina ORBECI, Alina MELINESCU, **COD reduction of wastewater containing ampicillin using crt glass waste as photocatalytic substrate for TiO₂**, 2th international congress of health and environment October 23-25, 2017 Adana-TURKEY, pag. 435
 33. 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
 34. *Cristina Modrogan*, Madalina Pandeale, Madelene Dancila, Oanamari Orbulet, Cristina Orbeci, Constantin Bobirica, **Isotherm models and kinetics of zinc adsorption by using gellan-gum/graphene oxides beads**, Oral presentation vineri/pag 23, section: Water and wastewater cycles: technologies, recycling, and valorization, 2017
 35. 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
 36. 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
 37. 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
38. *Modroga 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
 39. Oanamari Daniela Orbuleț, *Cristina Modroga**, 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
 40. Annette Madelene Dăncilă, *Cristina Modroga*, 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>
 41. *Cristina MODROGAN*, Oanamari Daniela Orbuleț, Madelene Anette Dancila, Cristina Orbeci, Constantin Bobirică, Cristina Costache, **Enlèvement de manganèse et fer contenus dans les eaux souterraines utilisant adsorption**, 10^{ème} édition du Colloque Franco-Roumain de Chimie Appliquée (COFrRoCA 2018), Bacau, Romania
 42. 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
 43. Scarlat Adina Alexandra, Căprărescu Simona, Purcar Violeta, *Modroga 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.
 44. Stancu Elena-Liliana, Căprărescu, Simona, Purcar Violeta, *Modroga 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.
 45. O. D. Orbuleț, *Cristina Modroga*, 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
 46. C. Bobirică, C. Orbeci, L. Bobirică, O.D. Orbuleț, *C. Modroga*, 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
 47. O.D. Orbuleț, C. Bobirică, *C. Modroga*, 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
 48. Annette Madelene Dancila, Oanamari Daniela Orbuleț, *Cristina Modroga*, 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>
 49. Liliana Bobirica, *Cristina Modroga*, 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>
50. 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.
 51. 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
 52. 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
 53. 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
 54. 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
 55. **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
 56. A. M. Dăncilă, **C. Modrogan**, V. A. M. Dancila, C. Modrogan, E. Vasile, O. Orbuleț, S. Caprarescu, A. Culcea, *New sorbents from pyrite ash waste for H₂S reduction from waste gases*, International Symposium “The Environment And The Industry”, E-SIMI 2020, 24-25 September 2020, Section Sustainable Environmental Technologies 34, DOI: <http://doi.org/10.21698/simi.2020.ab12>, p. 34-35, ISSN 2457-8371 (on-line), ISSN-L 1843-5831 Google scholar
 57. S. Căprărescu, P. Violeta, **C. Modrogan**, A. A. Scarlat, L. Barbu, *Natural aqueous extract of root plant as green inhibitor for carbon steel corrosion in seawater*, 24th International Symposium "Environment and Industry" SIMI 2021, Bucharest, Romania, 24th September 2021, Section Pollution Assessment & Management Systems DOI: <http://doi.org/10.21698/simi.2021.ab26>, p. 68-69
 58. A.-A. Matei, L. Barbu, S. Căprărescu, **C. Modrogan**, *Linearity studies in determination of trihalomethanes in drinking water by gas chromatography*, 24th International Symposium "Environment and Industry" SIMI 2021, Bucharest, Romania, 24th September 2021, Section Pollution Control and Monitoring, DOI: <http://doi.org/10.21698/simi.2021.ab43>, p. 103-104
 59. S. Căprărescu, A. M. Dăncilă, **C. Modrogan**, V. Purcar, *Corrosion protection of carbon steel using natural seaweeds from seawater*, Virtual International Scientific Workshop “Eurachem2020 - Quality Assurance Elements for Analytical Laboratories in the University Curriculum”, 14-15 July 2020, Bucharest, Romania
 60. Mădălina Andrei, Ciprian Oprescu, Diana Goicea, Constantin Bobirică, Oanamari Daniela Orbuleț, Liliana Bobirică, **Cristina Modrogan**, GREEN BIOCIDES FOR MITIGATION OF

MICROBIOLOGICALLY INFLUENCED CORROSION OF OILFIELD EQUIPMENT, 12th International Conference on Materials Science & Engineering, Transilvania University of Brasov – Romania, 2022

61. Radu Gabriel Stan, **Cristina Modrogan**, Denisa Nicoleta Airinei, Annette Madelene Dăncilă, Adina Alexandra Scarlat, Oanamari Daniela Orbuleț, Simona Căprărescu, **Photocatalytic degradation of Indigo Carmine dye from a simulated wastewater using modified magnetite**, 22st Romanian International Conference on Chemistry and Chemical Engineering, S5_170, Sinaia-Romania, 2022
62. Oanamari Daniela Orbuleț, **Cristina Modrogan**, Constantin Bobirică, Madelene Annette Dăncilă, Liliana Bobirică, Cristina Orbeci, Simona Căprărescu **Adsorption of Phosphates from Aqueous Solutions using LDH-Type Materials**, 22st Romanian International Conference on Chemistry and Chemical Engineering, S5_029, Sinaia- Romania, 2022
63. Liliana Bobirică, Cristina Orbeci, Constantin Bobirică, Oanamari Daniela Orbuleț, **Cristina Modrogan**, **Kinetics of photocatalytic degradation of chlorophenols from aqueous solutions**, 22st Romanian International Conference on Chemistry and Chemical Engineering, S5_074, Sinaia-Romania, 2022
64. Sorin Nidelea, Annette Madelene Dăncilă, Daniela Oanamari Orbuleț, **Cristina Modrogan**, Eugeniu Vasile, Simona Căprărescu, **Preparation and characterization of mixed oxide sorbent for H₂S retain by HTDG processes**, 22st Romanian International Conference on Chemistry and Chemical Engineering, S5_133, Sinaia- Romania, 2022
65. Raluca Elena Cârjilă (Mihalache), *Cristina Modrogan*, Annette Madelene Dăncilă, Oanamari Daniela Orbuleț, Simona Căprărescu, **Preparation and characterization of nanoparticles doped with the plant extract for the wastewater treatment**, 23rd Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), [Mamaia - Constanța](#), ROMANIA, from 4 to 7 September, 2024
66. Cristian Constantin, *Cristina Modrogan*, Annette Madelene Dăncilă, Simona Călinescu, Georgeta Olguța Popa, Valeriu Dănciulescu, Elena Dicu **Mathematical modeling of air quality for biofiltration systems of waste treatment facilities**, 23rd Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), [Mamaia - Constanța](#), ROMANIA, from 4 to 7 September, 2024
67. Sabrina State, Cristina Modrogan, Christoph Baumer, Oana Brincoveanu, Cosmin Romanitan, Adriana Ispas, Andreas Bund, Marius Enachescu, Liana Anicaior **The influence of several additives on the electrodeposition of Ag using novel deep eutectic solvent formulations – an electrochemical quartz crystal microbalance (EQCM) investigation**, 23rd Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), [Mamaia - Constanța](#), ROMANIA, from 4 to 7 September, 2024
68. *Cristina Modrogan*, Oanamari Daniela Orbuleț, Simona Căprărescu, Raluca Elena Carjila, Annette Madelene Dăncilă **Preparation and Characterization of Adsorbents from Solid Waste**, 23rd Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), [Mamaia - Constanța](#), ROMANIA, from 4 to 7 September, 2024
69. Aliona Olari, Annette Madelene Dăncilă, Oanamari Daniela Orbuleț, *Cristina Modrogan*, Simona Căprărescu **Comparative Analysis of the Efficiency of Potential Materials Used in the Adsorption Process of Sulfur Dioxide**, 23rd Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), [Mamaia - Constanța](#), ROMANIA, from 4 to 7 September, 2024

70. Oanamari Daniela Orbuleț, *Cristina Modrogan*, Constantin Bobirică, Annette Madelene Dăncilă, Liliana Bobirică, **Dynamics of Nitrate Ion Migration Processes in Soil Columns Using Permeable Reactive Barriers**, 23rd Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), [Mamaia - Constanța](#), ROMANIA, from 4 to 7 September, 2024
71. Simona Căprărescu, GrațIELA Teodora Tihan, Roxana Gabriela Zgârian, Alexandru Mihai Grumezescu, *Cristina Modrogan*, Annette Madelene Dăncilă **Performance of Polymeric Membrane Containing Nanoparticles for the Removal of Heavy Metal Ions from a Simulated Wastewater**, 23rd Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), [Mamaia - Constanța](#), ROMANIA, from 4 to 7 September, 2024.
72. **CRISTIAN CONSTANTIN**, GEORGETA OLGUTA POPA, CRISTINA MODROGAN, SIMONA CALINESCU, VALERIU DANCULESCU, TANASE GHEORGHITA, Quantification of odor emission rates from passive area source and temporal variation of odor concentrations in the surrounding air, The 27th International Symposium “Environment and Industry” September 19th-20th, 2024

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 echipa	in	2018-2019
Contract cu terți nr. 11821 din 2.07.2021 Prepararea și caracterizarea unor noi sortimente de biocide verzi pentru atenuarea coroziunii bacteriene a echipamentelor metalice destinate exploatărilor petroliere	Membru echipă	in	2021
Elaborarea Planului de atenuare și adaptare la schimbările climatice în județul Prahova (AtenuareClimPh), 2022, finanțat prin Mecanismul Financiar al Spațiului Economic European (SEE) 2014-2021 (605000 lei).	Membru echipa	in	2022

Data:

Semnătura: