

LISTA LUCRĂRI perioada 1998-2017**1. TEZĂ DE DOCTORAT**

1. **Adina Negrea**, *Studii asupra procesului de eliminare a ionului fosfat din ape provenite din industria îngreșămintelor*, Universitatea Politehnica Timișoara, 2002

2. CĂRȚI ȘI ÎNDRUMĂTOARE PUBLICATE**a. Cărți de specialitate/monografiile publicate în edituri recunoscute CNCSIS**

1. **Adina Negrea**, Mihaela Ciopec, *Protecția mediului*, Editura Politehnica, Timișoara, 2013, 324 pagini, ISBN:978-606-554-697-4 (162 pag/autor)
2. **Adina Negrea**, Cristina Costache, *Chimia și protecția mediului*, Editura Academiei Oamenilor de Știință din România (AOSR), 2011, București, 118 pagini, ISBN: 978-606-8371-06-1 (85 pag/autor)
3. Cornelia Muntean, **Adina Negrea**, Lavinia Lupa, Mihaela Ciopec, *Analiză chimică și fizico-chimică cu aplicații în protecția mediului*, Editura Politehnica Timișoara, 2009, 220 pagini, ISBN: 978-973-625-973-9 (55 pag/autor)
4. **Adina Negrea**, Laura Coheci, Rodica Pode, *Managementul integrat al deșeurilor*, Editura Politehnica, Timișoara, 2007, 235 pagini, ISBN: 978-973-625-476-5 (78 pag/autor)
5. Georgeta Burtică, **Adina Negrea**, Daniela Micu, Corina Orha, *Poluanții și mediul înconjurător*, Editura Politehnica, Timișoara, 2005, 273 pagini, ISBN: 973-625-262-0 (68 pag/autor)
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7. Georgeta Burtică, Ilie Vlaicu, **Adina Negrea**, *Tratarea cu clor a apei în scop potabil*, Editura Politehnica Timișoara, 2002, 158 pagini, ISBN: 973-8247-70-5 (53 pag/autor)
8. Georgeta Burtică, Ilie Vlaicu, Rodica Pode, Vasile Pode, **Adina Negrea**, Daniela Micu, *Tehnologii de tratare a efluenților reziduali*, Editura Politehnica Timișoara, 2000, 474 pagini, ISBN: 973-9389-75-9 (79 pag/autor)
9. **Adina Negrea**, Luminița Pîrvulescu, *Alimentație catering*, Editura Eurobit, Timișoara, 2000, 150 pagini, ISBN: 973-8181-18-6 (75 pag/autor)
10. Georgeta Burtică, **Adina Negrea**, *Tehnologie alimentară*, Editura Eurostampa, Timișoara, 2000, 217 pag., ISBN: 973-8027-33-0 (108,5 pag/autor)
11. Georgeta Burtică, **Adina Negrea**, *Bazele merceologiei. Metode de analiza utilizate în aprecierea calității mărfurilor*, Editura Mirton, Timișoara, 1998, 66 pagini, ISBN: 973-578-621-4 (33 pag/autor)

b. Cărți de specialitate/monografiile publicate în edituri internaționale:

1. Lavinia Lupa, Mihaela Ciopec, **Adina Negrea**, Radu Lazău, *Closed Cycle Process Investigations for Arsenic Removal from waters using adsorption on iron-containing materials followed by waste immobilization in Arsenic: Sources, environmental Impact and Human Health – A Material Geology perspective*, Nova Science Publishers, 2013, ISBN: 978-1-59454, pp. 325-354, (38 pagini)

b. Îndrumătoare de laborator

1. Giannin Moșoarcă, **Adina Negrea**, *Chimia solului. Aplicații*, Editura Politehnica, Timișoara, 131 pagini, 2006, ISBN: 973-625-284-1
2. Mihaela Ciopec, **Adina Negrea**, *Protecția mediului. Lucrări practice*, Editura Politehnica Timișoara, 110 pagini, ISBN: 978-973-625-964-7, (55 pag/autor)

3. BREVETE DE INVENȚIE

1. **Adina Negrea**, Ioan Lazau, Lavinia Lupa, Radu Lazau, Mihaela Ciopec, BREVET DE INVENȚIE – nr. a2011 00487/20.05.2011, RO 127098-A0; RO 127098-A3, OSIM
Titlul: Procedeu de îndepărtare a arsenului din ape și imobilizare a deșeurilor rezultate în matrici vitroase

2. Wachter Mihail Reinhold, Ioana Ionel, **Adina Negrea**
BREVET DE INVENTIE - AO 131486(51) B09B 3/00 (21) a, 2015 00841 (22), 16.11. 2015 (41), 29.11.2016 (71), OSIM
Titlul: Procedeu de tratare a reziduurilor provenite din incinerarea deșeurilor menajere prin solificare – stabilizare în roca de cenușă

4. ARTICOLE / STUDII PUBLICATE ÎN REVISTE

a. Articole publicate în reviste de specialitate de circulație internațională recunoscute

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1. Corneliu Mircea Davidescu, Andreea Gabor, **Adina Negrea**, Mihaela Ciopec, Petru Negrea, Marinela Motoc, Novel absorbent used for cesium removal from aqueous solutions, Revista de chimie, acceptată, Martie, 2017.
2. Andreea Gabor, Corneliu Mircea Davidescu, **Adina Negrea**, Mihaela Ciopec, Ion Grozav, Petru Negrea, Narcis Duțeanu, Optimizing the Lanthanum adsorption process onto chemically modified biomaterials using factorial and response surface design, Journal of Environmental Management, 10.1016/j.jenvman.2017.01.046, acceptată, 2017.
3. Andreea Gabor, Corneliu Mircea Davidescu, **Adina Negrea**, Mihaela Ciopec, Cornelia Muntean, Petru Negrea, Catalin Ianasi, Monica Butnariu, Magnesium silicate doped with environmentally friendly extractants used for rare earth elements adsorption, Desalination and water treatment, acceptată, 2017

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4. Andreea Gabor, Corneliu Mircea Davidescu, **Adina Negrea**, Mihaela Ciopec, Monica Butnariu, Cătălin Ianăși, Cornelia Muntean, Petru Negrea, Lanthanum separation from aqueous solutions using magnesium silicate functionalised with tetrabutylammonium dihydrogen phosphate, Journal of Chemical Engineering Data, 2016, 61, pp. 535-542.
5. Gabor Gabacs, Hajnalka Szokolai, Attila Kormanyos, Aniko Metzinger, Levente Szekeres, Claudiu Marcu, Francisc Peter, Cornelia Muntean, **Adina Negrea**, Mihaela Ciopec, Attila Jancso, Cd (II) capture ability of an immobilized, fluorescent hexapeptide, Bull. Chem. Soc. Jpn. 2016, vol. 89, pp. 243-253.
6. Petru Negrea, **Adina Negrea**, Marilena Motoc, Mihaela Ciopec, Andreea Gabor, Cornelia Muntean, Influence of pH on enzymatic extract with allelopathic potential, Revista de chimie, 2016, 67(2), pp. 372-374.
7. Monica Butnariu, Marius Pentea, Ionut Sarac, Ionel Samfira, **Adina Negrea**, Marilena Motoc, Mihaela Ciopec, Approach for analyze stability of lutein from *Tropaeolum majus*, Revista de chimie, 2016, 67(3), pp. 503-506.
8. Andreea Gabor, Corneliu Mircea Davidescu, Popa Adriana, **Adina Negrea**, Mihaela Ciopec, Marinela Motoc, Lavinia Lupa, Petru Negrea, Equilibrium studies for crown ether impregnated solid support used in the removal process of Nd(III), La(III), Sr(II), Tl(I), Eu(III), Revista de chimie, 2016, 67(3), pp. 580-583.
9. Marius Pentea, Ionuț Sărac, Ionel Samfira, **Adina Negrea**, Mihaela Ciopec, Marinela Motoc, Andreea Gabor, Petru Negrea, Studies concerning disposal radionuclides by adsorption rabbit bone meal, Revista de chimie, 2016, 67(5), pp. 967-970.
10. Teodor Vintila, **Adina Negrea**, Horia Barbu, Radu Sumalan, Kornel Kovacs, Metal distribution in the process of lignocellulosic ethanol production from heavy metal contaminated sorghum I;, Journal of Chemical Technology and Biotechnology, 2016, 91, pp. 1607-1614.
11. Raluca Voda, Lavinia Lupa, **Adina Negrea**, Mihaela Ciopec, Petru Negrea, Corneliu Mircea Davidescu, The development of a new efficient absorbent for the removal of methylene blue, Separation Science and technology, 2016, 51(15-16), pp. 1-8.
12. Andreea Gabor, Corneliu-Mircea Davidescu, **Adina Negrea**, Mihaela Ciopec, Petru Negrea, Monica Butnariu, Separation of La(III) using functionalized material on fixed bed column, Revista de chimie, 2016, 67(11), pp. 2225-2227.
13. **Adina Negrea**, Mihaela Ciopec, Petru Negrea, Marilena Motoc, Iosif Hulka, Ioan Sarac, Irina Petrescu, Viliana Vasileva, Monica Butnariu, Studies Regarding the Use of Ash from Pyrolysis

- Rubber as an Amendment to Soils Used to Cover Waste Dumps, with *Phalaris Arundinacea*, *Revista de chimie*, 2016, 67(11), pp. 2164-2169.
14. Radu Ardelean, Corneliu Mircea Davidescu, Ecaterina Stela Dragan, Adriana Popa, Claudiu Marcu, **Adina Negrea**, Adsorption of Phenol or Phenol Derivatives onto Styrene-1%(15%)divinylbenzene Polymeric Adsorbents Functionalized with Aminopropyl (benzyl) phosphonic Groups, *Revista de chimie*, 2016, 67(11), pp. 2180-2183.
 15. A. Wächter, Ioana Ionel, Mihai Wächter, L.A. Varga, **Adina Negrea**, Vasile Minzatu, Cornelia Muntean, Mihaela Ciopec, Encapsulation of municipal solid waste incineration residues into coal fly ash rock matrix, *Journal of Environmental Protection and Ecology*, 2016, 17(3), pp. 1037-1047.
 16. Cătălin Ianași, Otilia Costișor, Ana-Maria Putz, Radu Lazău, **Adina Negrea**, Daniel Niznansky, Liviu Sacarescu, Cecilia Savii, Low temperature superparamagnetic nanocomposiytes obtained by Fe(aca)₃-SiO₂-PVA hybrid xerogel thermolysis, *Processing and Application of Ceramics*, 2016, 10(4), pp. 265-275.
 17. Lavinia Lupa, Adriana Popa, Ecaterina Stela Dragan, Mihaela Ciopec, **Adina Negrea**, Petru Negrea, Adsorption performaqnce of the organic solid support impregnated with ionic liquid in the removal process of Tl(I) from aqueous solutions, *Process Safety and Environmental protection*, 2016, acceptat.
 18. Corneliu-Mircea Davidescu, Adriana Popa, **Adina Negrea**, Mihaela Ciopec Radu Ardelean, Chemically Modified Polymer Matrices with Applications in Environmental Protection, *Pure and Applied Chemistry*, Prefata, 2016, acceptat.
 19. Andreea Gabor, Corneliu Mircea Davidescu, **Adina Negrea**, Mihaela Ciopec, Cornelia Muntean, Narcis Duțeanu, Sorption proprieties of amberlite xad7 functionalized with sodium β-glycerophosphate, 16th International Conference on Polymers and Organics Chemistry (POC-16), Hersonissos, Crete, Greece, 13–16 June 2016, *Pure and Applied Chemistry*, 2016, acceptat.
 20. **Adina Negrea**, Lavinia Lupa, Mihaela Ciopec, Ioneta Dragomir, Petru Negrea, Use of zinc ash as secondary source of zinc for zinc oxide obtaining, *Environmental Engineering & Management Journal*, 2016, acceptat.

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21. Ionel Samfira, Petru Negrea, Lavinia Lupa, Mihaela Ciopec, **Adina Negrea**, Marius Pentea, Ionut Sarac, Monica Butnariu, Remediation of rare earth element pollutants by sorption process using organic natural sorbents, *International Journal of environmental research and public health*, 2015, 12, pp.11278-11287.
22. Iulian Zoltan Boboescu, Vasile Gherman, Mariana Ilie, Gergely Lakatos, Bernadett Pap, **Adina Negrea**, Eva Kondorosi, Gergely Maroti, Converting organic-rich industrial wastewater into biohydrogen through a novel hybrid dark fermentation – photoheterotrophic approach: proof of concept, *Journal of biotechnology*, (prezentata la European Biotechnology Congress, 2015, Bucuresti)208, 2015, pp. S33.
23. **Adina Negrea**, Mihaela Ciopec, Petru Negrea, Lavinia Lupa, Adriana Popa, Corneliu Mircea Davidescu, Gheorghe Ilia, Separation of As^V from aqueous solutions using chelating polymers containing Fe^{III}- loaded phosphorus groups, *Open Chemistry*, 2015, 13, pp. 105-112.
24. Raluca Voda, **Adina Negrea**, Lavinia Lupa, Mihaela Ciopec, Petru Negrea, Corneliu Mircea Davidescu, Monica Butnariu, Nanocrystalline ferrites used as adsorbent in the treatment process of waste waters resulted from ink jet cartridges manufacturing, *Open Chemistry*, 2015, 13, pp. 743-747.
25. Angela Caunii, Adina Negrea, Marius Pentea, Ionel Samfira, Marinela Motoc, Monica Butnariu, Mobility of heavy metals from soil in the two species of the aromatic plants, *Revista de Chimie*, 2015, 66(3), pp. 382-386.
26. Andreea Gabor, Corneliu Mircea Davidescu, **Adina Negrea**, Mihaela Ciopec, Lavinia Lupa, Behaviour of silica and florisol as solid supports in the removal process of As(V) from aqueous solutions, *Journal of Analytical Methods in Chemistry*, 2015, pp. 1-9.
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29. Mihaela Ciopec, Adriana Popa, **Adina Negrea**, Lavinia Lupa, Petru Negrea, Raluca Vodă, Corneliu Mircea Davidescu, Gheorghe Ilia, Comparative characteristics of some material polymers impregnated with ionic liquid for removal of radionuclides, *Environmental Engineering & Management Journal*, 2015, 14(6), pp. 1287-1294.
30. Lavinia Lupa, **Adina Negrea**, Mihaela Ciopec, Petru Negrea, Raluca Vodă, Ionic liquids impregnated onto inorganic support used for thallium adsorption from aqueous solutions, *Separation and Purification Technology*, 2015, 155, pp. 75-82.
31. Mihail Wachter, Ioana Ionel, **Adina Negrea**, Dumitru Cebucean, Vasile Manzatu, Mihaela Ciopec, Leaching investigation of coal fly ash and dry desulphurisation residues by stabilization into ash rock, *Revista de Chimie*, 2015, 66(11) pp.1881-1884.
32. Corneliu Mircea Davidescu, Raluca Dumitru, **Adina Negrea**, Lavinia Lupa, Mihaela Ciopec, Petru Negrea, Arsenic Removal Through Adsorption on Cobalt Nanoferrite, *Revista de Chimie*, 2015, 66(11) pp.1742-1746.

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35. Corneliu Mircea Davidescu, Radu Ardelean, Adriana Popa, Gheorghe Ilia, Smaranda Iliescu, **Adina Negrea**, Marinela Motoc, Removal of Phenolic compounds from Aqueous Solutions using Poly(Styrene-co-divinylbenzene) Functionalized with Aminophosphonic Acid, *Revista de chimie*, 2014, 65(4), pp. 444-446.
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6. PROIECTE DE CERCETARE-DEZVOLTARE-INOVARIE PE BAZĂ DE CONTRACT/GRANT**a. Proiecte de cercetare-dezvoltare-inovare obținute prin competiție, pe bază de contract/grant în străinătate**

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8. PROAQUA, nr. 631/2005, Promovarea tehnologiilor inovative și durabile pentru tratarea apei destinate consumului uman, CEEX, membru
9. Cod CNCSIS 59/2005, Biotehnologii integrate în procedee fizico-chimice pentru epurarea apelor uzate orășenești și tratarea nămolurilor reziduale în scopul reutilizării acestora, CEEX, membru
10. REMSOL- nr.4414/2006-2008, Tehnologii combinate inovative pentru protecția și remedierea in-situ a solurilor poluate cu metale grele în scopul reducerii biodisponibilității acestora, CEEX, membru
11. OVAPED-nr. 2799/2006-2008, Optimizarea valorificării potențialului energetic al deșeurilor pentru obținerea de energie curată în instalațiile industriale românești, CEEX, membru
12. RELANSIN NR.4/2005-2008, Biotehnologii integrate cu procedee fizico-chimice pentru epurarea apelor uzate orășenești și tratarea nămolurilor reziduale în scopul reutilizării acestora, CEEX, membru
13. CONSIJECT, nr. 63/2006-2008, Integrarea cunostintelor și metodelor de procesare avansate în lucrări de consolidare, prin tehnica injectării cu fluide pe baza de sisteme cimentoide, CEEX, membru
14. CNCSIS-cod 925/2009-2011, Concept integrat asupra depoluării apelor cu conținut de arsen, prin adsorbție pe materiale oxidice, urmată de imobilizarea în matrici vitroase a deșeurilor rezultate (1000.000 lei), CNCSIS, **Director**
15. ID 61397/2012-2010-2012-Retea Nationala de Formare Continua a cadrelor Didactice din Invatamantul Preuniversitar Profesional si tehnic – CONCORD, membru
16. ID 58146/2010-2013-Elaborarea și implementarea programelor de masterat în domeniul Micro și Nanomaterialelor MASTERMAT, membru
17. POSDRU/87/1.3/S/60891/2012-2013- Școală universitară de formare inițială și continuă a personalului didactic și a trainerilor din domeniul specializărilor tehnice și inginerești –DidaTec, membru

18. PN-II-RU-TE-2012-3-0198/2013-2015, contract 20/26.04.2013 – Noua abordare in utilizarea lichidelor ionice (IIs) ca „extractanti verzi” in procesul de adsorbție a radionuclizilor din solutii apoase reziduale, membru
19. PN-II-PT-PCCA-2013-4-1708, contract 50/2014 „Instalație pilot mobilă pentru tratarea apelor reziduale cu ajutorul energiei solare (SOLWATCLEAN)”, membru

c. Alte contracte de cercetare-dezvoltare-inovare (contracte cu terți)

1. Contract 182/2004, *Analize fizico-chimice a metoxidului de sodiu*, Beneficiar BASF SRL București, membru
2. Contract 0322/2004, *Consultanță, expertiză tehnică, asistență tehnică, proiectare, analize fizico-chimice*, Beneficiar SC PRODALMA SRL, Oradea, membru
3. Contract 0324/2004, *Consultanță, expertiză tehnică, asistență tehnică, proiectare, analize fizico-chimice*, Beneficiar SC Berg Banat SA, membru
4. Contract 21/2004, *Consultanță, expertiză tehnică, asistență tehnică, proiectare*, SC HELVETICA PROFARM SA Timișoara, membru
5. Contract 12/2005, *Consultanță, expertiză tehnică, asistență tehnică, proiectare, analize fizico-chimice*, Beneficiar SC Moldomin SA, membru
6. Contract 303/2005, *Consultanță, expertiză tehnică, asistență tehnică, proiectare, analize fizico-chimice*, Beneficiar SC Moldomin SA, membru
7. Contract 0352/2005, *Consultanță, expertiză tehnică, asistență tehnică, proiectare, analize fizico-chimice*, Beneficiar SC Diasol SA, **Director**
8. Contract 303/1-2006, *Analize fizico-chimice de apa si sol si elaborarea avizului integrat de mediu*, Beneficiar SC Moldomin SA, membru
9. Contract 337/2005-2006, *Determinari de laborator privind chimismul componentelor slamului dens, rocii de cenusa si apei de infiltratie pentru termocentralele Rovinari, Turceni, Isalnita si Drobeta*, Beneficiar SC ISPE Bucuresti SA, membru
10. Contract 0364/2006, *Consultanță, expertiză tehnică, elaborare aviz integrat de mediu*, Beneficiar SC FERINERIA PROD SA Arad, Colaborator
11. Contract 0365/2006, *Consultanță, expertiză tehnică, asistență tehnică, proiectare, analize fizico-chimice*, Beneficiar SC Diasol SA, **Director**
12. Contract 566/2006, *Determinări de laborator privind deșeurile din depozitele Sântăul Mic (depozit vechi, extindere compartiment 1 și extindere compartiment 2 și Episcopia Bihor Balastieră CFR)*, Beneficiar SC ISPE Bucuresti SA, membru
13. Contract 0369/2007, *Consultanță și analize fizico-chimice*, Beneficiar GP & Company SA Timișoara, membru
14. Contract 0370/2007, *Analiza fizico-chimică a deșeurilor rezultate din secția de galvanizare*, Beneficiar SC Spiact CF Arad, membru
15. Contract 0371/2007, *Analize fizico-chimice*, Beneficiar SC Solectron Romania SRL, Colaborator
16. Contract 0373/2007, *Monitorizarea poluanților industriali la secția turnătorie neferoase*, Beneficiar SC Gefo Exim SRL, membru
17. Contract 721/2007, *Studii privind contaminarea solului cu produse petroliere și măsuri de decontaminare a solului poluat în cadrul SC ASTRA VAGOANE SA Arad*, Beneficiar SC ASTRA VAGOANE SA Arad, membru
18. Contract 22/26.02.2008, *Monitorizarea factorilor de mediu prin metode fizico-chimice*, Beneficiar SC Tin Factory SRL, membru
19. Contract 40/19.03.2008, *Studii privind caracterizarea fizico-chimică a nămolului din stația de epurare biologică aerobă*, Beneficiar SC Smithfield Procesare SA, membru
20. Contract 0380/30.01.2008, *Studii privind caracterizarea fizico-chimica a apelor reziduale menajere si a apelor pluviale*, Beneficiar SC Konberg Schubert Romania SA, membru
21. Contract 0381/11.02.2008, *Studii privind controlul calitatii materiilor prime, produsului finit si a factorilor de mediu prin metode fizico-chimice*, Beneficiar SC Berg Banat SA, membru
22. Contract 31/12.03.2010, *Monitorizarea factorilor de mediu prin metode fizico-chimice*, Beneficiar SC NEFROMED SRL, membru
23. Contract 100/04.08.2010, *Monitorizarea factorilor de mediu prin metode fizico-chimice*, Beneficiar SC SLEEVES TECHNOLOGY SRL, membru
24. Contract 77/31.05.2010, *Monitorizarea calității aerului în spații închise*, Beneficiar SC SMITHFIELD FERME SRL, membru

25. Contract 302/09.01.2012, *Monitorizarea calității apei utilizată la dializă*, Beneficiar SC NEFROMED SRL, **director**
26. Contract 301/03.01.2012, *Monitorizarea calității apei utilizată la dializă*, Beneficiar SC VAMAGO SRL, **director**
27. Contract BC122/16.10.2012, *Studii privind controlul calității materiilor prime, produsului finit și a factorilor de mediu prin metode fizico-chimice*, Beneficiar SC WERCO METAL SRL, membru
28. Contract 37/24.04.2012, *Monitorizarea parametrilor fizico-chimici ai apelor evacuate*, Beneficiar SC MOLDOMIN SA, membru
29. Contract BC 2/07.01.2013, *Monitorizarea calității apei utilizată la dializă*, Beneficiar SC NEFROMED SRL, **director**
30. Contract BC 1/07.01.2013, *Monitorizarea calității apei utilizată la dializă*, Beneficiar SC VAMAGO SRL, **director**
31. Contract BC 124/18.12.2013, *Monitorizarea calității apei utilizată la dializă*, Beneficiar SC NEFROMED SRL, membru
32. Contract BC 05.01.2015, *Monitorizarea calității apei utilizată la dializă*, Beneficiar SC NEFROMED SRL, membru
33. Contract BC106/19.09.2014, *Controlul calității deșeurilor provenite din procesul tehnologic*, Beneficiar SC Flextronics SRL, membru
34. Contract BC 69/17.06.2015, *Controlul calității produselor și a materiilor prime*, beneficiar SC Heraeus Romania SRL, (52030.40Lei-15000 Euro), **director**
35. Contract BC 37/31.03.2016, *Controlul calitatii materiilor prime a produselor finite si a deseurilor provenite di procesul tehnologic de zincare termica*, BERG BANAT-**director**
36. Contract BC106/01.11.2016, *Controlul calității deșeurilor provenite din procesul tehnologic*, Beneficiar SC Flextronics SRL, membru