

LIST

of scientific works in the research field of the habilitation thesis

a) RELEVANT PUBLICATIONS:

1. **Petrescu Nicolae**, Stefania Iordache, Gabriela Busuioc, Cezarina Necula - *Variability Influence of Water Consumptions on the Stability of Razim –Sinoe Ecosystem*, , 4-th WSEAS International Conference on Waste Management, Water Pollution, Air Pollution, Indoor Climate-Tunisia (WWAI '10), 2010, ISSN 1790-5095, pag. 95-99, www.wseas.org
2. **Nicolae Petrescu** Sevastel Mircea, Ana Virsta, Renata Taralunga - *Water flow and siltation of the supply channels in Razelm – Sinoe ecosystem, as part of the Danube Delta*, , 14th International Multidisciplinary Scientific Geoconference SGEM 2014, Albena, Bulgaria, ISSN 1314-2704, ,Sections-HYDROLOGY&WATER RESOURCES, pag.837-844, Thomson Reuters, ISI Web of Science, SCOPUS, Engineering Village, CrossRef (DOI), EBSCOHost, ProQuest , www.sgem.org
3. **Nicolae Petrescu**, Sevastel Mircea, Augustina Tronac, Emilia Manole - *Some Mathematical Considerations on the Natural Protection of the Danube Delta Coastal Zone in Romania*,__ 24th DAAAM World Symposium on Intelligent Manufacturing&Automation, Zadar, 2013, Croatia, Elsevier- Procedia Engineering, ISSN 1877-7058,Vol.69,pag. 1372-1380, DOI: 10 1016/j.proend.2014.03.131, www.elsevier.com/locate/procedia
4. **Petrescu Nicolae** - *Mathematical methods to evaluate the impact on the agricultural field, determined by the agricultural crop-fields irrigation*, , RevistaLucrari Stiintifice USAMV Iasi, seria Agronomie, 2009, vol 52,categoria B+ , cotata CNCSIS indexata in BDI, ISSN 1454-7414, pag. 430-435, www.revagrois.ro
5. **Nicolae Petrescu**, Ana Varsta , Sevastel Mircea - *Hydraulics of the silt transport and sedimentation in the water supply canals from the Razelm-Sinoe hydrotechnical complex*, , Revista Annals Food Science and Technology, 2009 , cotata CNCSIS categoria B+, indexata BDI, IndexCopernicus International, CABI, DOAJ, Chemical Abstracts Service (CAS), ISSN 2065-2828, pag. 612-615, www.afst.valahia.ro

6. **Nicolae Petrescu**, Sevaste Mircea , Ana Varsta - *Numerical methods to analyze the hydraulics stability of the Razelm-sinoe hydrotechincal complex*, Revista Annals Food Science and Technology, 2009, cotata CNCSIS, categoria B+, indexata in BDI, IndexCopernicus International, CABI, DOAJ, Chemical Abstracts Service (CAS), ISSN 2065-2828, pag. 228-231, www.afst.valahia.ro
7. **Petrescu Nicolae**, Ivona David - *The impact of the climatic changes on the environment-agricultural drought*, Revista Lucrari Stiintifice USAMV Iasi, 2010, vol 53, seria Agronomie categoria B+, cotata CNCSIS indexata in BDI, ISSN 1454-7414, pag.127-130, www.revagrois.ro
8. **Petrescu Nicolae** - *Contributions to the study of wave action on the heterogeneous marine mobile bottom on the romanian seaside costal area associated to the Danube Delta*, Revista Annals Food Science and Technology, 2012 , cotata CNCSIS, categoria B+, indexata in BDI, IndexCopernicus International, CABI, DOAJ, Chemical Abstracts Service (CAS), ISSN 2065-2828, pag. 266-271, www.afst.valahia.ro
9. **Petrescu Nicolae** - *Nitrate risk evaluation of the agricultural crop fields, using teritorial informatic systems*, Revista Lucrari Stiintifice USAMV Iasi, vol.52 seria Agronomie, 2009, categoria B+, cotata CNCSIS indexata in BDI, ISSN 1454-7414, pag.425-429, www.revagrois.ro
10. **Nicolae Petrescu** Stefania Iordache, Sevastel Mircea, Renata Taralunga - *Mathematical solutions for optimal dimensioning of number and heights of some hydrotechnique on torrential formation*, Revista Annals Food Science and Technology, 2010, cotata CNCSIS, categoria B+, indexata in BDI, IndexCopernicus International, CABI, DOAJ, Chemical Abstracts Service (CAS), ISSN 2065-2828, pag.115-119, www.afst.valahia.ro

b) Ph.D. THESIS

Title: *Contributions to the study of protection with hydraulic works on Razelm – Sinoe ecosystem by the action of the Black Sea*, cordinateur scientific prof. univ. PhD Adrian Gazdaru, 1998, Technical University of Civil Engineering Bucharest, OM 3460/15.03.1999

Scientific Domain : Land Reclamation

c) BOKS AND CHAPTERS IN BOKS PUBLISHED

1. **Petrescu N.** , Dobrescu N. - TEHNOLOGIA LUCRARILOR DE INGINERIA MEDIULUI -- CERES, Bucuresti, 2003, ISBN 973-40-0629-0, 268 pag.
2. **Petrescu N.**, Podani M.- AMENAJAREA BAZINELOR HIDROGRAFICE -- CERES Bucuresti, 2004, – ISBN 973 – 40-0649, 160 160 pag.
3. **Petrescu N.** - TEHNOLOGIA LUCRARILOR DE INGINERIA MEDIULUI - Valahia University Press-2006 – ISBN 973 – 7616, 259 pag.
4. CONSTRUCTII PENTRU LUCRARILE DE INGINERIA MEDIULUI – partea a I-a – **Petrescu N.** - Valahia University Press, 2007, Targoviste vol.I - ISBN 978 – 973 – 7616 – 72 -2, 174 pag.
5. **Petrescu N.-** CONSTRUCTII PENTRU LUCRARILE DE INGINERIA MEDIULUI – partea a II-a -- Valahia University Press, 2007, Targoviste vol.I - ISBN 978 – 973 – 7616 – 73 -9, 121 pag.
6. **Petrescu N.**, Magdalina I. - AMENAJAREA, ORGANIZAREA SI SISTEMATIZAREA TERITORIULUI -.- Bibliotheca Targoviste, 2009, –ISBN-978-973-712-457-9, 322 pag.
7. Virsta A.,Manea R., **Petrescu N.** - EVALUAREA IMPACTULUI STATIILOR DE NEUTRALIZARE A APELOR UZATE SI A PROCESELOR DE COMBUSTIE DIN UNITATILE ENERGETICE –, Valahia University Press-,2012, ISBN-978-606-603-036-6, 170 pag.
8. Iordache St., Jordan M. **Petrescu N.**, Stoica Alex., Barascu E. - COMPETENȚE PROFESIONALE ȘI TRANSVERSALE DE NATURĂ TRANSDISCIPLINARĂ CHEIE, PENTRU ÎNVĂȚĂMÂNTUL DE INGINERIA MEDIULUI ȘI INDUSTRIE ALIMENTARĂ, ÎN CONTEXTUL INTEGRĂRII ROMÂNIEI ÎN SPAȚIUL EUROPEAN AL CERCETĂRII -- Valahia University Press-2010, ISBN-978-973-1955-84-1, 105 pag.
9. **Petrescu N.**, Virsta A., Cimpeanu S.- EVALUAREA IMPACTULUI ASUPRA MEDIULUI–Valahia University Press, 2012 -ISBN-978-606-603-025-0, 216 pag

d) SCIENTIFIC PAPERS IN JOURNALS AND CONFERENCES PROCEEDINGS

1. Sevastel Mircea, **Nicolae Petrescu** - *Integrated ecological engineering solutions for some wetlands restoration in the lower Prut river*, , 13th International Multidisciplinary Scientific Geoconference SGEM 2013, Albena, Bulgaria, ISSN 1314-2704, Sections- ECOLOGY AND ENVIRONMENTAL PROTECTION, Pag.599-604, DOI: 10 5593/sgem2013, Thomson Reuters, ISI Web of Science, SCOPUS, Engineering Village, CrossRef (DOI), EBSCOHost, ProQuest, www.sgem.org
2. Sevastel Mircea, **Nicolae Petrescu** - *Aspects regarding soil erosion control base don agri-environmental measures in the hilly areas of Romania* - _13th International Multidisciplinary Scientific Geoconference SGEM 2013, Albena, Bulgaria, ISSN 1314-2704, Sections-SOILS, pag.505-512, DOI: 10 5593/sgem2013, Thomson Reuters, ISI Web of Science, SCOPUS, Engineering Village, CrossRef (DOI), EBSCOHost, ProQuest, www.sgem.org
3. Mirela Alina Sandu, Ana Virsta, **Nicolae Petrescu** Patricia Mocanu, Daniela Iordan - *Deforestations impact on extreme hydrological phenomenon*, , 14th International Multidisciplinary Scientific Geoconference SGEM 2014, Albena, Bulgaria, ISSN 1314-2704, Sections- ECOLOGY AND ENVIRONMENTAL PROTECTION, pag.177-182, www.sgem.org
4. Augustina Sandina Tronac, Sebastian Mustata, Claudiu Dragomir, Sevastel Mircea, **Nicolae Petrescu**, Dragos Dracea - *Slope stability analysis for tailings dams*, , 14th International Multidisciplinary Scientific Geoconference SGEM 2014, Albena, Bulgaria, ISSN 1314-2704, Sections- HYDROGEOLOGY, ENGINEERING GEOLOGY AND GEOTECHNICS, pag.799-808, www.sgem.org
5. Ana Varsta, **Nicolae Petrescu**, Mirela Alina Sandu, Patricia Mocanu, Daniela Iordan - *Hydraulic friction coefficient of streams due to sediment transport*, , 14th International Multidisciplinary Scientific Geoconference SGEM 2014, Albena, Bulgaria, ISSN 1314-2704, Sections HYDROLOGY & WATER RESOURCES, pag.361-366, www.sgem.org
6. Stefania Iordache, **Petrescu Nicolae**, Gabriela Busuioc, Cezarina Necula - *Municipal Wastewater Treatment Improvement Using Computer Simulating*, 4-th WSEAS International Conference on Waste Management, Water Pollution, Air Pollution,

- Indoor Climate-Tunisia (WWAI '10), 2010, ISSN 1790-5095, pag.61-66, www.wseas.org
7. Carmen Cristina Elekes, **Nicolae Petrescu**, Sorin Constantin Ciulei - *Heavy Metals Pollution of Vegetation from the Industrial Area of Targoviste City*, 3-rd International Conference on Environmental and Geological Science and Engineering (EG'10) Constanta,Roamania, 2010, ISSN 1792-4685, pag.22-26, www.wseas.org
 8. Augustina Tronac, Dragos Dracea, Sebastian Mustata, Emilia Manole, Claudiu Dragomir, **Nicolae Petrescu**, Sevastel Mircea, Mariana Postamel - *Influence of Construction Activity on Academic Process*, , 24th DAAAM World Symposium on Intelligent Manufacturing&Automation, Zadar, 2013, Croatia, Elsevier- Procedia Engineering, ISSN 1877-7058, Vol.69, pag. 1397-1404, www.elsevier.com/locate/procedia
 9. **Petrescu Nicolae** - *Nitrate risk evaluation of the agricultural crop fields, using teritorial informatic systems*, , Revista Lucrari Stiintifice USAMV Iasi,vol.52 seria Agronomie,2009, categoria B+, cotata CNCSIS indexata in BDI, ISSN 1454-7414, pag.425-429, www.revagrois.ro
 10. Sevastel Mircea, **Nicolae Petrescu**, Dumitru Badarau - *Some aspects concerning wetland restoration programs in the Prut river basin*, , Revista Annals Food Science and Technology, 2009, cotata CNCSIS, categoria B+, indexata in BDI, IndexCopernicus International, CABI, DOAJ, Chemical Abstracts Service (CAS), ISSN 2065-2828, pag. 271-274, www.afst.valahia.ro
 11. Sevastel Mircea, **Nicolae Petrescu**, I.A. Calin, M. Musat - *Some aspects concerning GIS utilization on soil erosion control in Romania*, , Revista Annals Food Science and Technolog, 2009, cotata CNCSIS, categoria B+, indexata in BDI, IndexCopernicus International, CABI, DOAJ, Chemical Abstracts Service (CAS), ISSN 2065-2828, pag.279-282, www.afst.valahia.ro
 12. Simona Oancea, Andrei Diamandi, Ana Varsta, **Nicolae,Petrescu** - *Satellite detection of the thermal gradients over the romanian region*, Revista Annals Food Science and Technology, 2009, cotata CNCSIS, categoria B+ indexata in BDI, IndexCopernicus International, CABI, DOAJ, Chemical Abstracts Service (CAS), ISSN 2065-2828, pag. 640-643, www.afst.valahia.ro
 13. Ana Varsta, Simona Oancea, **Petrescu Nicolae** - *Influence of temperature gradient son human health* Diana Loreta Paun, , Revista Annals Food Science and Technology,

- 2009, cotata CNCSIS, categoria B+, indexata in BDI, IndexCopernicus International, CABI, DOAJ, Chemical Abstracts Service (CAS), ISSN 2065-2828, pag. 186-189, www.afst.valahia.ro
14. Gabriela Busuioc, Carmen Cristina Elekes, Cristiana Radulescu, **Nicolae Petrescu**, Anca Gheboianu, Beatrice Serdin - *The Influence of Some Heavy Metals Content of Substrate and pH on Bioabsorption Level at Six Macromycetes Species Common in Southern Forest of Romania*, Bulletin of University of Agricultural Sciences and Veterenary Medicine Cluj-Napoca., Agriculture, 2010, categoria B+, indexata in BDI, ISSN 1843-5246, pag. 18-25, www.journals.usamvcluj.ro/agriculture
15. Sevastel Mircea, **Nicolae Petrescu**, Marin Musat, Alexandra Radu, Nicoleta Sarbu - *Soil erosion and conservation in Romania - some figures, facts and its impact on environment*, Revista Annals Food Science and Technology, 2010, cotata CNCSIS, categoria B+, indexata in BDI, IndexCopernicus International, CABI, DOAJ, Chemical Abstracts Service (CAS), ISSN 2065-2828, pag.105-110, www.afst.valahia.ro
16. Stefania Iordache, **Nicolae Petrescu**, Cornel Ianache - *Comparative study of tertiary wastewater treatment by computer simulation*, Revista Annals Food Science and Technology, 2010, cotata CNCSIS, categoria B+, indexata in BDI, IndexCopernicus International, CABI, DOAJ, Chemical Abstracts Service (CAS), ISSN 2065-2828, pag.109-114, www.afst.valahia.ro
17. Dănuț Tanislav, **Nicolae Petrescu** - *Complex analysis in the river basin of Toplița and technological solutions for slopes stabilization*, Revista Annals Food Science and Technolog, 2010, cotata CNCSIS, categoria B+, indexata in BDI, IndexCopernicus International, CABI, DOAJ, Chemical Abstracts Service (CAS), ISSN 2065-2828, pag. 147-153, www.afst.valahia.ro
18. Mircea Sevastel, **Nicolae Petrescu** - *Indicators for gully erosion assessment on agricultural torrential watersheds*, Revista Annals Food Science and Technology, 2011, cotata CNCSIS, categoria B+, indexata in BDI, IndexCopernicus International, CABI, DOAJ, Chemical Abstracts Service (CAS), ISSN 2065-2828, pag. 92-96, www.afst.valahia.ro
19. **Nicolae Petrescu**, Daniela Alexandrescu, Ofelia Robescu - *Social dimension of the landslide risk in Dâmbovița river basin, sub-basin Valea Lungă*, , Revista Annals Food Science and Technology, 2013, cotata CNCSIS, categoria B+, indexata in BDI, IndexCopernicus International, CABI, DOAJ, Chemical Abstracts Service (CAS), ISSN 2065-2828, pag. 143-147, www.afst.valahia.ro

20. Sevastel Mircea, **Nicolae Petrescu**, Augustina Tronac, Razvan Teodorescu, Petre Voicu -*Research effect of vegetation use on soil erosion and conservation in the hilly agroecosystems in Romania*, 14th International Multidisciplinary Scientific Geoconference SGEM 2014, Albena, Bulgaria, ISSN 1314-2704, Sections-SOILS, pag.239-24, www.sgem.org

e) **TEXTBOOKS, COURSE SUPPORT AND GUIDING LABORATORY /APPLICATIONS**

1. Dobrescu N., **Petrescu N.**, Roșu G. - TEHNOLOGIA LUCRĂRILOR DE ÎMBUNĂTĂȚIRI FUNCiare – partea I-a – CURS - Centrul Editorial-Poligrafic USAMV București, 1994, 194 pag.
2. Dobrescu N., **Petrescu N.** - TEHNOLOGIA LUCRĂRILOR DE ÎMBUNĂTĂȚIRI FUNCiare –Îndrumător proiect - -Centrul Editorial-Poligrafic USAMV București, 1994, 185 pag.
3. Dobrescu N., **Petrescu N.** - MANAGEMENTUL UNITĂȚILOR DE CONSTRUCȚII – Caiet de aplicații – Centrul Editorial Poligrafic USAMV București 1995,64 pag.
4. Siminea I., Nedelcu L., **Petrescu N.** - DRUMURI DE EXPLOATARE, Îndrumător de proiect, Centrul Editorial Poligrafic USAMV București, 1998, 194 pag.
5. Petrescu Nicolae, Chivoiu Mihaela - Tehnologia lucrărilor de ingineria mediului – Îndrumător de laborator, Valahia University Press, 2003, 117 pag.