LISTA COMPLETĂ A LUCRĂRILOR ELABORATE ŞI/SAU PUBLICATE
Conf. univ. dr. Steluţa Gosav

I. **Teza de doctorat**

Tema „*Studii privind identificarea amfetaminelor ilicite prin metode spectrale şi de inteligenţă artificială",* Universitatea Al. I. Cuza din Iaşi, 2008.
Doctorat obţinut cu distincţia *Summa cum laude*

II. Cărţi si capitole în cărţi

II.1. Primautor

1. **S. Gosav**, *Studii privind identificarea amfetaminelor ilicite prin metode spectrale şi de inteligenţă artificială*, Editura Tehnopress, Iaşi, 2008, 188 pag, ISBN 978-973-702-562-3.

II.2. Coautor

1. **S. Gosav,** Chap 4. *Relevance of the molecular descriptors for the modeling/discrimination of amphetamines using artificial neural networks* in "Electromagnetic radiations in analysis and design of organic materials for advanced electronic and bio-technologies", Editor: Prof. univ. dr. D.O. Dorohoi, pag 59-73, CRC Press Taylor&Francis Group, **2017**, USA.

2. Mirela Praisler, **Steluţa Gosav**, Nicoleta Păduraru, Atanasia Stoica Mândru, **Cap 2** *Spectroscopia în infraroşu/Infrared Specroscopy* - Tehnici instrumentale pentru investigaţii de mediu – Ghid metodologic/Instrumental Techniques for Environmental Investigations – Methodological Guide (**editie bilingvă**), pag 143-168, pag 36-60, Editura Tehnopress, Iaşi, **2015**, ISBN 978-606-687-233-1.

3. V. Sahlean, **S. Gosav**, *Îndrumar de laborator de optică,* Editura Fundaţiei Universitare "Dunarea de Jos" Galati, **2003**, 126 pag, ISBN 973-627-034-3.

III. Articole/studii publicate în în reviste din fluxul stiinţific internaţional principal;

III.1. Articole/studii publicate în reviste de circulaţie internaţională, cotate ISI

1. **Gosav, S**., Praisler, M., Păduraru Cristea, N., Gosav, T., Paraschiv, C., Experimental and computational studies of 3-(N-morpholinylcarbodithioate)-2-(4-methoxyphenyl)chroman-4-one, a flavanone with potential therapeutical properties, Journal of Molecular Structure 1295 Part 1 15 sept **2023** online, 136627, DOI: 10.1016/j.molstruc.2023.136627, ISI Impact Factor: 3.841 (2022) WOS:001084143900001
https://www.sciencedirect.com/science/article/abs/pii/S0022286023017179

2. Dorohoi, D.O.; **Gosav, S.;** Moroşanu, A.C.; Dimitriu, D.G.; Apreotesei, G.; Gosav, T. Molecular Descriptors—Spectral Property Relations for Characterizing Molecular Interactions in Binary and Ternary Solutions, Excited State Dipole Moment Estimation. Symmetry **2023,** 15(11), 2075. Impact Factor: 2,7 (2022) WOS:001119933100001
https://doi.org/10.3390/sym15112075

3. Fanica Balanescu, Anna Cazanevscaia Busuioc, Andreea Veronica Dediu Botezatu, **Steluta Gosav**, Sorin Marius Avramescu, Bianca Furdui and Rodica Mihaela Dinica, Comparative Study of Natural Antioxidants from Glycine max, Anethum graveolensand Pimpinella anisum Seed and Sprout Extracts Obtained by Ultrasound-Assisted Extraction, Separations 9, 152, **2022**, WOS:000816429000001 https://doi.org/10.3390/separations9060152.

4. **Gosav S**., Ene A., Aflori M., Characterization and discrimination of plant fossils by ATR-FTIR, XRD and chemometric methods, Romanian Journal of Physics 64, 806(article no.), 1-10, **2019**, IF = 1,460 (2018).
http://www.nipne.ro/rjp/2019_64_1-2/RomJPhys.64.806.pdf

5. **Gosav S**, Paduraru N, Maftei D, Birsa ML, Praisler M., *Quantum chemical study of a derivative of 3-substituted dithiocarbamic flavanone*, Spectrochimica Acta Part A**:** Molecular and Biomolecular Spectroscopy 172, 115-125, **2017**, available online 12 April 2016, http://dx.doi.org/10.1016/j.saa.2016.04.024 IF = 2,35

6. **Gosav Steluta**, Paduraru Nicoleta, Praisler, Mirela, *Hyphenated GC-FTIR and GC-MS techniques applied in the analysis of bioactive compounds* , Second International Conference on Applications of Optics and Photonics Book Series**:** Proceedings of SPIE vol. 9286, article number: 92862D, **2014.**
doi: 10.1117/12.2063898, IF= 0.20

7. **S. Gosav**, M.L. Birsa, *Multivariate study of flavonoids active against Caco-2 colon carcinoma*, Romanian Reports in Physics 66, 2, 411-426, **2014**, Impact Factor 1,123
http://www.rrp.infim.ro/2014_66_2/A14.pdf

8. **S. Gosav**, M. Praisler, M.L. Birsa, *Principal Component Analysis Coupled with Artificial Neural Networks—A Combined Technique Classifying Small Molecular Structures Using a Concatenated Spectral Database,* International Journal of Molecular Sciences, 12, **2011**, 6668-6684, ISSN 1422-0067. IF = 2,598 http://www.mdpi.com/1422-0067/12/10/6668

9. **S. Gosav**, M. Praisler, *Artificial Neural Networks Built for the Recognition of Illicit Amphetamines Using a Concatenated Database*, Romanian Journal of Physics 54, 9-10, 929-935, **2009**, ISSN 1221-146X. IF = 0,279, http://www.nipne.ro/rjp/2009_54_9-10/0929_0936.pdf

10. **S. Gosav**, R. Dinica, M. Praisler, *Choosing between GC-FTIR and GC-MS spectra for an efficient intelligent identification of illicit   amphetamines,* Journal of Molecular Structure 887, 1-3, 269-278, **2008**, ISSN 0022-2960, Factor impact 1,594
http://www.sciencedirect.com/science/article/pii/S0022286008002482

11. **S. Gosav**, M. Praisler, D.O. Dorohoi, *ANN expert system screening for illicit amphetamines using molecular descriptors,* Journal of Molecular Structure 834-836, 188-194, **2007**, ISSN 0022-2960. Factor impact 1,486

12. **S. Gosav**, M. Praisler, D.O. Dorohoi, G. Popa, *Structure-activity correlations for illicit amphetamines using ANN and constitutional descriptors*, Talanta 70, 922-928, **2006**, ISSN 0039-9140.   „Regular   paper"   IF=2,81
http://www.sciencedirect.com/science/article/pii/S0039914006003833

13. **S. Gosav,** M. Praisler, J. Van Bocxlaer, A.P. De Leenheer, D.L. Massart, *Class identity assignment for amphetamines using neural networks and GC-FTIR data,* Spectrochimica Acta Part   A   64,   1110-1117,   **2006**,   ISSN   1386-1425.   IF=1,27
http://www.sciencedirect.com/science/article/pii/S1386142505007006

14. **S. Gosav**, M. Praisler, D.O. Dorohoi, G. Popa, *Automated identification of novel amphetamines using a pure neural network and neural networks coupled with principal component analysis*, Journal of Molecular Structure 744-747, 821-825, **2005**, ISSN 0022-2960. IF = 1,44
http://www.sciencedirect.com/science/article/pii/S0022286004009524

15. G. Tiron, **S. Gosav,** *The july 2008 raifall estimation from Barnova WSR-98 D radar using artificial neural network,* Romanian Reports in Physics 62, 2, **2010**, 405-413, ISSN 1221-1451 43 822. IF= 0,458 http://www.rrp.infim.ro/2010_62_2/art17Tiron.pdf

16. D.O. Dorohoi, **S. Gosav**, M. Praisler, *Theory of point group applied in molecular physics*, Romanian Journal of Physics 53, 49-55, **2008**, ISSN 1221-146X. Factor Impact 0,279.
http://www.nipne.ro/rjp/2008_53_1-2/0049_0056.pdf

17. **S. Gosav**, G. Tiron, *Artificial neural networks built for the rainfall estimation using a concatenated database*, Environmental Engineering and Management Journal, 11, **2012**, 1383-1388. ISSN: 1582-9596 Impact Factor 1,117
http://omicron.ch.tuiasi.ro/EEMJ/pdfs/accepted/3_324_Gosav_11.pdf

III.2. Articole/Studii ISI Proceedings

1. Burlacu, C. M., **Gosav, S**., Burlacu, B. A., Praisler, M., Artificial Neural Networks screening for JWH synthetic cannabinoids: a comparative analysis regarding their specificity and accuracy, 2022 International Conference on E-Health and Bioengineering (EHB 2022), 10th Edition, **2022**, IEEE , 1-4, DOI: 10.1109/EHB55594.2022.9991354, https://ieeexplore.ieee.org/abstract/document/9991354

2. Catalina Mercedes Burlacu; **Steluta Gosav**; Bianca Andreea Burlacu; Mirela Praisler " Convolutional Neural Network Detecting Synthetic Cannabinoids, Proceedings of the 9th IEEE Conference on e-Health and Bioengineering (EHB 2021), 18-19 November **2021**, Iasi, Romania. DOI: 10.1109/EHB52898.2021.9657725, WOS:000802227900185

3. A. Ion, **S. Gosav**, M. Praisler and T. Gosav, "Machine Learning Tool Detecting NBOMe Drugs of Abuse based on Geometrical Descriptors," 2020 International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, **2020**, pp. 1-4, doi: 10.1109/EHB50910.2020.9279876. Electronic ISSN: 2575-5145 Print on Demand(PoD), https://ieeexplore.ieee.org/abstract/document/9279876

4. A. Ion, S. Gosav and M. Praisler, "Refined Detection of NBOMe Phenethylamines based on their Most Important Topological Descriptors," 2020 International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, **2020**, pp. 1-4, doi: 10.1109/EHB50910.2020.9280111. Electronic ISBN:978-1-7281-8803-4 https://ieeexplore.ieee.org/abstract/document/9280111

5. Adelina Ion, **Steluta Gosav**, Mirela Praisler, Screening for NBOMe Hallucinogens based on Artificial Neural Networks and Structural Descriptors, Proceedings of *The 7th IEEE Conference on e-Health and Bioengineering* (**EHB 2019**)**,** 21-23 November 2019, Iasi, Romania (ISI Proceedings) ISBN 978-1-7281-2603-6/19.   http://www.ehbconference.ro/

6. Mădălina-Manuela Rîndunică (Coman), **Steluta Gosav**, Mirela Praisler, Adelina Ion, QSAR Model based on Molecular Descriptors Built to Predict the CB1 Binding Affinity of JWH Cannabinoids, Proceedings of *The 7th IEEE Conference on e-Health and Bioengineering* (**EHB 2019**)**,** 21-23 November 2019, Iasi, Romania (ISI Proceedings) ISBN 978-1-7281-2603-6/19.   in curs de publicare http://www.ehbconference.ro/

7. Adelina Ion, **Steluta Gosav**, Mirela Praisler, Artificial neural networks designed to identify NBOME hallucinogens based on selected molecular descriptors, Proceedings of *The 9th International Conference of Management and Industrial Engineering* - "Management Perspectives in the Digital Transformation", November 14th – 16 th, **2019**, in Bucharest, Romania (**ICMIE 2019**) (ISI Proceedings), Niculescu Publishing House**.** http://www.icmie-faima.ro/

8. Adelina Ion, **Steluta Gosav**, Mirela Praisler, Artificial Neural Networks designed to identify NBOMe hallucinogens based on the most sensitive molecular descriptors, Proceedings of *The 6th International Symposium on Electrical and Electronics Engineering (**ISEEE 2019**),* 18 - 20 October. Galati, Romania. in curs de publicare

9. **Gosav, S.,** Coman, M. M., Praisler, M., Artificial Neural Networks Applied for the Identification of JWH Cannabinoids Based on Structural Descriptors, International Conference of the Balkan Physical Union BPU10, 26-30 august 2018, Sofia, Bulgaria. *AIP Conference Proceedings*, vol. 2075, issue 1, 170013 (**2019**). DOI: 10.1063/1.5091378.
https://aip.scitation.org/doi/abs/10.1063/1.5091378
https://bpu10.balkanphysicalunion.com/

10. **Gosav, S.,** Ion, A., Praisler, M., DFT Characterization of MDMA Methylene Homologue, a Chemical Compound with Psychoactive Properties, Proceedings of the International Conference of

the Balkan Physical Union BPU10, 26-30 august 2018, Sofia, Bulgaria, *AIP Conference Proceedings*, vol. 2075, issue 1, 170027 (**2019**). DOI: 10.1063/1.5091392. https://aip.scitation.org/doi/abs/10.1063/1.5091392 https://bpu10.balkanphysicalunion.com

11. Ion, A., **Gosav, S.,** Praisler, M., C. Negoita, Artificial neural network designed to identify NBOMe hallucinogens based on 3D-MoRSE descriptors and topological descriptors, **2019** 23rd International Conference on System Theory, Control and Computing, ICSTCC 2019 – Proceedings 8885908, pp. 872-876, IEEE Book Series: International Conference on System Theory Control and Computing, DOI: 10.1109/ICSTCC.2019.8885908 ISSN: 2372-1618 https://ieeexplore.ieee.org/document/8885908

12. Sorina-Simona Moraru, Antoaneta Ene, **Steluta Gosav**, Study of the correlativity between parameters and mineralogy of contaminated agricultural soils, SGEM Book title: 19th International Multidisciplinary Scientific GeoConference SGEM **2019**, Vol. 19, pages 441-448, DOI: 10.5593/sgem2019/3.2/S13.058. ISBN: 978-619-7408-82-9 ISSN: 1314-2704

13. Sorina-Simona Arbanas (Moraru), Antoaneta Ene, **Steluta Gosav**, (**2019**) Mineralogical Composition Assessment of Soils from Covurlui and Braila Plains by ATR-FTIR Technique, Proceedings **2019**, 29 (1), 80; doi:10.3390/proceedings2019029080

14. Paduraru Nicoleta, **Gosav Steluta**, Praisler, Mirela, Chemometric Characterisation of Some Flavonoids Active Against HT-29 Human Cancer Cells, **Proceedings of IEEE Conference on e-Health and Bioengineering (EHB 2015) -** "*Challenging Issues for Health and Biomedical Technologies*".

15. **S. Gosav**, M. Praisler, *The Influence of Input Data Preprocessing and of Learning Error on the Performances of ANN Systems Identifying Amphetamines,* Proceedings of 2010 IEEE International Conference on Automation, Quality and Testing Robotics (AQTR2010) **-**Theta 17th edition, vol.3, **2010,** 260-264, ISBN: 978-1-4244-6724-2.
    ISI Web of Knowledge, IEEEXplore/INSPEC
    http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5520691

III.3. Articole publicate in reviste indexate in baze de date internationale (BDI)

1. Darie, I.-F., Gosav, S., Praisler, M., Evaluation of physico-chemical parameters of some psychoactive compounds using molecular modeling Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year XV (XLVI) **2023**, No. 1, p. 1 - 4. DOI: 35219/ann-ugal-math-phys-mec.2023.1.01 ISSN 2067-2071, https://www.gup.ugal.ro/ugaljournals/index.php/math/article/view/6232

2. Iulia-Florentina Darie, Mirela Praisler, Steluța Gosav, Molecular descriptors - a mathematical approach to characterize psychedelic substances, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics,Fascicle II, YEAR XIV (XLV) **2022**, No. 1, p. 1-5.

3. Florina Cristiana Căpriță (Filote), Antoaneta Ene, Steluta Gosav, ATR-FTIR analysis of filter paper with mass addition of seaweedUlva Rigida C. Agath, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics,Fascicle II, YEAR XIV (XLV) 2022, No. 1, p. 19-22.

4. Adelina Ion, Mirela Praisler, Steluta Gosav, Molecular descriptors – an useful tool for assessing the physico-chemical properties of hallucinogenic drugs of abuse, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics,Fascicle II, YEAR XIII (XLIV) **2021**, vol. 44, No. 1, p. 26-29 DOI: https://www.gup.ugal.ro/ugaljournals/index.php/math/article/view/4922/4347

5. Adelina Ion, Mirela Praisler, Steluta Gosav, Comparative study of DFT, AM1, and PM3 optimization methods modeling new psychotropic amphetamines, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics,Fascicle II, YEAR XIII

(XLIV) 2021, Vol.44, No. 1, p. 30-33 DOI: https://www.gup.ugal.ro/ugaljournals/index.php/math/article/view/4923/4348

6. Steluța Gosav, Adriana Hodorogea, Dan Maftei, Study on chemical potential of apigenin, luteolin, quercetin and myricetin using the molecular modeling, Annals of ”Dunarea de Jos” University of Galati, Mathematics, Physics, Theoretical Mechanics,Fascicle II, YEAR XIII (XLIV) 2021, Vol. 44, No. 1, p. 63-66, DOI: https://www.gup.ugal.ro/ugaljournals/index.php/math/article/view/4927/4352

7. Alina Sion, Steluta Gosav, Antoaneta Ene, ATR-FTIR qualitative mineralogical analysis of playground soils from Galati city, SE Romania, Annals of ”Dunarea de Jos” University of Galati, Mathematics, Physics, Theoretical Mechanics,Fascicle II, YEAR XII (XLIII) **2020**, No. 2, p. 141-146, DOI: https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.10

8. Adelina Ion, Steluta Gosav, Mirela Praisler, Vibrational investigation of the 3,4-methylenedioxypyrovalerone designer drug, Annals of ”Dunarea de Jos” University of Galati, Mathematics, Physics, Theoretical Mechanics,Fascicle II, YEAR XII (XLIII) **2020**, No. 1, p. 28-31, DOI: https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.1.04

9. Adelina Ion, Steluta Gosav, Mirela Praisler, Proving the environmental impact of NBOMe clandestine laboratories: a new analytical tool, Annals of ”Dunarea de Jos” University of Galati, Mathematics, Physics, Theoretical Mechanics,Fascicle II, YEAR XII (XLIII) **2020,** No. 2, p. 127-133, DOI: https://doi.org/10.35219/ann-ugal-math-phys-mec.2020.2.08

10. Adelina Ion, **Steluta Gosav**, Mirela Praisler, *Choosing relevant functional groups for optimizing Artificial Neural Networks detecting NBOMe hallucinogens*, Annals of ”Dunarea de Jos” University of Galati, Mathematics, Physics, Theoretical Mechanics,Fascicle II, Year XI (XLII) **2019**, No. II, p.159-165.

11. **Steluța Gosav**, Adelina Ion, Mirela Praisler, *Artificial neural network designed to identify NBOMe hallucinogens based on molecular descriptors*. Annals of ”Dunarea de Jos” University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year X (XXXXI) no. 1, pp. 33-39, **2018**, http://www.phys.ugal.ro/Annals_Fascicle_2/.

12. Mădălina Manuela Coman, **Steluta Gosav**, Mirela Praisler, *Study regarding the toxicological activity of some JWH synthetic cannabinoids*. Annals of ”Dunarea de Jos” University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, Year X (XXXXI)- no. 1, pp. 25-32, **2018**, http://www.phys.ugal.ro/Annals_Fascicle_2/.

13. **Steluta Gosav**, Antoaneta Ene, Rodica Dragomir, *Spectroscopic investigation of sedimentary rocks with fossil plants using ATR-FTIR technique*, Annals of "Dunarea de Jos" University of Galati, Mathematics, physics, theoretical mechanics, FASCICLE II, YEAR VIII (XXXIX) Nr. 2, 242-247, **2016** (indexata **BDI**).

14. Romana Drasovean, **Steluta Gosav,** Nicoleta Paduraru, Antoaneta Ene, *Monitoring greenhouse gases in Romania*, Annals of "Dunarea de Jos" University of Galati, Mathematics, physics, theoretical mechanics, FASCICLE II, YEAR VII (XXXVIII) Nr. 2, 207-212, **2015** (indexata **BDI**).

15. Nicoleta Paduraru, **Steluta Gosav**, Mirela Praisler, *Theoretical Vibrational Analysis of a Novel Flavanone based on Potential Energy Distribution Theory*, Buletinul Institutului Politehnic din Iasi, Tomul LXI (LXV), Fasc. 4, Sectia Matematica, Mecanica teoretica, Fizica, 45-54, **2015 (indexata BDI).**

16. **Steluta Gosav**, Nicoleta Paduraru, Mirela Praisler, *Modeling of Anticancer Activity of Flavonoids based on Multiple Linear Regression*, Annals of "Dunarea de Jos" University of Galati, Mathematics, physics, theoretical mechanics, FASCICLE II, YEAR VII (XXXVIII) Nr. 2, 200-206, **2015** (indexata **BDI**).

17. **Steluta Gosav,** Nicoleta Păduraru, Antoaneta Ene, Romana Drasovean, *Toxicological study on some chemical compounds using the molecular modeling*, Annals of "Dunarea de Jos" University of Galati, Mathematics, physics, theoretical mechanics, FASCICLE II, YEAR VII (XXXVIII) Nr. 2, 213-218, **2015** (indexata **BDI**).

18. Nicoleta Paduraru, **Steluta Gosav**, Mirela Praisler, *Pharmacological Action of Flavonoids – An Overview*, Annals of "Dunarea de Jos" University of Galati, Mathematics, physics, theoretical mechanics, FASCICLE II, YEAR VI (XXXVII), No. 1, 63-73, **(indexata BDI)**, **2014**.

19. Gina Tiron, **Steluţa Gosav,** Dana Ortansa Dorohoi, *Comparative analysis of ANN and PCA-ANN systems for rainfall estimation based on radar data and numerical weather prediction ALADIN model*, Buletinul Institutului Politehnic din Iasi, Tomul LVII (LXI), Fasc. 3, Sectia Matematica, Mecanica teoretica, Fizica, **(indexata BDI)**, **2011.** http://www.cm.tuiasi.ro/docs/MMF-fasc%203-2011%20engleza.pdf

20. **Steluţa Gosav**, Mihail Lucian Bîrsă, *Stepwise discriminant analysis applied in QSAR modeling of flavonoids with anti-invasive activity*, Annals of "Dunarea de Jos" University of Galati, Mathematics, physics, theoretical mechanics, fascicle II, year III (XXXIV) No.1, pag. 59-65, **2011**, ISSN 2067-2071 (**indexată BDI**). http://www.phys.ugal.ro/Annals_Fascicle_2/Year2011/Summary%20Annals%20Fasc_II_2011_No_1.htm

21. **Steluţa Gosav,** Rodica Dinică*, GC/MS and GC/FTIR as Powerful Tools for Identifying Bioactive Compounds*, Acta Chemica Iasi, **2011,** 19, 1-19 (indexată **BDI**). http://www.chem.uaic.ro/files/File/acta-chemica/2011/no-1-2011/aci_vol_19_no_1_2011_article-1.pdf

22. **Steluţa Gosav**, Mirela Praisler, Mihail Lucian Bîrsă, *Exploratory analysis on some flavonoids with anti-invasive activity using molecular descriptors and cluster analysis*, Annals of "Dunarea de Jos" University of Galati, Mathematics, physics, theoretical mechanics, fascicle II, year II (XXXIII) No.2, 302-307, **2010** (**indexată BDI**). http://www.phys.ugal.ro/Annals_Fascicle_2/Year2010/index2.htm

23. Antoaneta Ene, Ion V. Popescu, Claudia Stihi, Anca Gheboianu, Cristiana Radulescu, Nicolae Tigau, **Steluta Gosav**, *Assessment of river water quality in central and eastern parts of Romania using atomic and optical methods*, Journal of Science and Arts - year 10 No. 1(12), 113-118, **2010**, ISSN 1844-9581 | eISSN 2068-3049 (indexată **BDI**).

http://www.josa.ro/ro/index.html?http%3A//www.josa.ro/ro/josa.html

III.4. Articole/studii publicate în reviste din ţară recunoscute de CNCSIS

1. **S. Gosav**, M. Praisler, Artificial neural networks built for the recognition of illicit amphetamines using a concatenated database, Anal. Univ. „Dunarea de Jos" Galati, Fascicula II Anul XXV (XXXI) 150-155, **2008**, ISSN 1842-6506.

2. **S. Gosav**, R. Drasovean, The atmospheric pollutants characterisation using molecular descriptors, Anal. Univ. „Dunarea de Jos" Galati, Fascicula II Anul XXV (XXX) 81, **2007**, ISSN 1842-6506.

3. **S. Gosav**, M. Praisler, R. Dinica, G. Popa, 3D-MoRSE descriptors and artificial neural networks – a successful identification method for illicit amphetamines, Anal. Univ. „Dunarea de Jos" Galati, Fascicula II 67-73, **2006** ISSN 1221-4531.

4. D.O. Dorohoi, **S. Gosav**, S. Picos, Selection rules in vibrational spectra and molecular symmetry, National Conference "Strategii XXI", Publishing House of the National University of Defence "Carol I" Bucuresti, 282-287, **2006** ISBN (10) 973-7854-52-7.

5. D.O. Dorohoi, **S. Gosav**, Theory group representations applied to molecular vibrations, National Conference "Strategii XXI", Publishing House of the National University of Defence "Carol I" Bucuresti, 7-17, **2006** ISBN (10) 973-7854-52-7.
6. L.V. Gheorghieş, **S. Gosav**, N. Melniciuc-Puică, D.O. Dorohoi, Empiric scales of the solvents used in the spectral shifts characterization, Anal. Univ. 'Dunarea de Jos' Galati, 149-155, **2005**, ISBN 1221-4531.
7. **S. Gosav**, M. Praisler, D.O. Dorohoi, G. Popa, Automated classification of amphetamines using artificial neural networks and topological descriptors, Anal. Univ. 'Dunarea de Jos' Galati, 189-197, **2005**, ISBN 1221-4531.
8. **S. Gosav**, M. Praisler, D.O. Dorohoi, G. Popa, ANN identification of illicit amphetamines using constitutional descriptors, Anal. Univ. 'Dunarea de Jos' Galati, 181-189, **2005**, ISBN 1221-4531.
9. **S. Gosav**, M. Praisler. Spectroscopic analysis of hierarchical system of neural networks. Anal. Univ. 'Dunarea de Jos' Galati, vol. II (**2003**) 171-179, ISBN 1221-4531.
10. **S. Gosav**, M. Praisler. Hierarchical analysis of amphetamines by coupling neural networks with principal component analysis. Anal. Univ. 'Dunarea de Jos' Galati, vol. II (**2003**) 155-169, ISBN 1221-4531.
11. M. Praisler, **S. Gosav**., Exploratory analysis for the identification of amphetamines using neural networks and GC-FTIR data. Anal. "Dunarea de Jos" Univ.Galati, vol. II, 83-95, **2002**, ISBN 1221-4531.
12. M. Praisler, **S. Gosav**. Training set analysis for neural network systems classifying GC-FTIR spectra of amphetamines. Anal. "Dunarea de Jos" Univ. Galati, vol. II, 97-110, **2002**, ISBN 1221-4531.

III.5. Articole publicate în reviste naţionale de specialitate

1. **S. Gosav**, M. Praisler, Identificarea automată a amfetaminelor cu reţele neuronale artificiale – studiu comparativ, Buletinul AGIR, Anul XIII, nr. 3, iulie-septembrie 12-16, **2008**, ISSN 1224-7928.

IV. Publicaţii în extenso apărute în lucrări ale principalelor conferinţe internaţionale de specialitate

IV.1. Studii publicate în volumele unor manifestări stiinţifice internaţionale recunoscute indexate în baze de date internaţionale

1. D. O. Dorohoi, **S. Gosav**, M. Praisler, Point Groups of Symmetry Applied in Molecular Spectroscopy, *American Institut of Physics Conference-Proceedings of The Sixth Internatinal Conference of the Balkan Physical Union*, vol. 899, 361-362, **2007,** ISBN 978-0-7354-0404-5 (citata in baza de date scopus, www.scopus.com) (indexată **BDI**).

IV.2. Studii publicate în volumele unor manifestări stiinţifice internaţionale recunoscute din ţară

1. **Steluţa Gosav**, Mirela Praisler, ANN system for the identification of illicit amphetamines using molecular descriptors database**,** *Proceedings of the 1ˢᵗ International Symposium on Applied Physics – Materials Science, Environment and Health* (ISAP1) Galati 275-280, **2009** ISSN 2066-7124.
2. **Steluţa Gosav,** Gina Tiron, Dana Ortansa Dorohoi, Artificial neural networks and radar data – a successful method for the rainfall estimation**,** *Proceedings of the 1ˢᵗ International Symposium on Applied Physics – Materials Science, Environment and Health* (ISAP1) Galati 281-285, **2009,** ISSN 2066-7124.
3. Andreea Celia Benchea, **Steluţa Gosav,** Liliana Mihaela Ivan, Dana Ortansa Dorohoi, On the physical and structural properties of aspirin molecule, *Proceedings of the 1ˢᵗ International*

Symposium on Applied Physics – Materials Science, Environment and Health (ISAP1) Galati 405-409, **2009,** ISSN 2066-7124.

4. D.O. Dorohoi, **S. Gosav**, From cartesian to internal coordinates in describing molecular vibrations, *Proceedings - The 12TH International Conference "The knowledge based organization",* Land Forces Academy "Nicolae Balcescu" Publishing House Sibiu, 115-123, **2007,** ISBN 978-973-7809-95-7.

5. **S. Gosav**, M. Praisler, D.O. Dorohoi, G. Popa, Spectroscopic analysis of neural networks classifying GC-FTIR spectra of amphetamines, *Proceedings - The 12th International Symposium on Modeling, Simulation and Systems´ Identification*, Publishing House of the Universitary Foundation "Dunarea de Jos" Galati, 288-290, **2004,** ISBN 973-627-156-0.

6. **S. Gosav**, M. Praisler, D.O. Dorohoi, G. Popa, Variable selection in the identification of amphetamines using neural networks, *Proceedings - The 12th International Symposium on Modeling, Simulation and Systems´ Identification*, Publishing House of the Universitary Foundation "Dunarea de Jos" Galati, 284-287, **2004**, ISBN 973-627-156-0.

V. Alte lucrări si contribuţii stiinţifice

V.1. Studii publicate în volumele unor manifestări stiinţifice naţionale

1. **S. Gosav**, M. Praisler, G. Popa, Exploratory analysis for the identification of amphetamines using neural networks and GC-MS spectra, *Proceedings Supplement of the Third National Conference on Applied Physics,* Anal. Univ. „Dunărea de Jos" Galai, Fascicula II 51-60, **2007** ISSN 1842-6506.

2. D. O. Dorohoi, **S. Gosav**, M. Praisler, Internal coordinates in describing the vibrations of the molecules belonging to D_{3h} point group, *Proceedings Supplement of the Third National Conference on Applied Physics,* Anal. Univ. „Dunărea de Jos" Galati, Fascicula II 21-24, **2007** ISSN 1842-6506

V.2. Studii publicate în volumele unor manifestări stiinţifice internaţionale ca rezumat

1. Iulia-Florentina Darie, Steluta Gosav, Mirela Praisler, Characterisation of novel illicit drugs based on computational toxicology, **2023** The 11th IEEE International Conference on E-Health and Bioengineering (EHB 2023), Bucuresti, Romania, 9 - 10 November 2023.

2. Cristina Paraschiv, Steluta Gosav and Mirela Praisler, Chemical potential evaluation of kaempferol based on molecular modeling, 2023 The 11th IEEE International Conference on E-Health and Bioengineering (EHB 2023), Bucuresti, Romania, 9 - 10 November 2023.

3. Iulia-Florentina Darie, Steluta Gosav, Mirela Praisler, Computational assessment of the toxicity of new psychoactive controlled substances, International Conference and Workshop "Interdisciplinary applications of advanced analytical and control techniques in environment, health and materials science - INTERVENT" October 19th–20th, 2023 GALATI, ROMANIA

4. Steluța Gosav, Cristina Paraschiv, Mirela Praisler, Evaluation the chemical potential of some flavones using the DFT theory and molecular docking, International Conference and Workshop "Interdisciplinary applications of advanced analytical and control techniques in environment, health and materials science - INTERVENT" October 19th–20th, 2023 GALATI, ROMANIA

5. Antoaneta Ene, Elena Zubcov, Steluta Gosav, Levels of outdoor gamma dose rates in selected sites from Romania, Moldova and Greece, 8th World Multidisciplinary Earth Sciences Symposium - WMESS, 29 aug 2023, Praga.

6. Catalina Mercedes Burlacu; Steluta Gosav; Bianca Andreea Burlacu; Mirela Praisler " Artificial Neural Networks screening for JWH synthetic cannabinoids: a comparative analysis regarding their

specificity and accuracy " 2022 The 10th IEEE International Conference on E-Health and Bioengineering (EHB 2022), Iasi, Romania, 17 - 18 November 2022.

7. Catalina Mercedes Burlacu; Steluta Gosav; Bianca Andreea Burlacu; Mirela Praisler " Convolutional Neural Network Detecting Synthetic Cannabinoids" **2021** International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, 18 - 19 November 2021.

8. A. Ion, S. Gosav, M. Praisler and T. Gosav, "Machine Learning Tool Detecting NBOMe Drugs of Abuse based on Geometrical Descriptors," **2020** International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, 29 - 30 October 2020.

9. A. Ion, S. Gosav and M. Praisler, "Refined Detection of NBOMe Phenethylamines based on their Most Important Topological Descriptors," **2020** International Conference on e-Health and Bioengineering (EHB), Iasi, Romania, 29 - 30 October 2020

10. Steluta Gosav, Antoaneta Ene, ATR-FTIR method applied to identification of plastics, Conferința "Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin" Kavala, Greece, 8-11 septembrie **2020** in cadrul proiectului MONITOX

11. Adelina Ion, **Steluta Gosav**, Mirela Praisler, (**2019**) Screening for NBOMe Hallucinogens based on Artificial Neural Networks and Structural Descriptors, The 7th IEEE Conference on e-Health and Bioengineering (EHB 2019), 21-23 November 2019, Iasi, Romania.

12. Mădălina-Manuela Rîndunică (Coman), **Steluta Gosav**, Mirela Praisler, Adelina Ion, (2019) QSAR Model based on Molecular Descriptors Built to Predict the CB1 Binding Affinity of JWH Cannabinoids, The 7th IEEE Conference on e-Health and Bioengineering (EHB 2019), 21-23 November 2019, Iasi, Romania.

13. Moraru S.S., Ene A, **Gosav S**., Moraru D.I., Sloata F. (2019) Relation between land use, industrial activity and metal accumulation in plants, 32nd Task Force Meeting of the UNECE ICP Vegetation, Targoviste,18th-21th of February, 2019.

14. Adelina Ion, **Steluta Gosav**, Mirela Praisler, (2019) Artificial neural networks designed to identify NBOME hallucinogens based on selected molecular descriptors, The 9th International Conference of Management and Industrial Engineering - "Management Perspectives in the Digital Transformation", November 14th – 16 th, in Bucharest, Romania (ICMIE 2019).

15. Mădălina-Manuela Coman Rindunică, **Steluţa Gosav**, Mirela Praisler, (2019) Automatic detection of synthetic cannabinoids based on Artificial Neural Networks, The 9th International Conference of Management and Industrial Engineering - "Management Perspectives in the Digital Transformation", November 14th – 16 th, in Bucharest, Romania (ICMIE 2019).

16. Adelina Ion, **Steluta Gosav**, Mirela Praisler, Catalin Negoita, (2019) Artificial neural network designed to identify NBOMe hallucinogens based on 3D-MoRSE descriptors and topological descriptors, 23rd International Conference on System Theory, Control And Computing (ICSTCC), October 9-11, 2019, Sinaia, Romania.

17. Adelina Ion, **Steluta Gosav**, Mirela Praisler, (2019) Artificial Neural Networks designed to identify NBOMe hallucinogens based on the most sensitive molecular descriptors, The 6th International Symposium on Electrical and Electronics Engineering (ISEEE 2019), 18 - 20 October. Galati, Romania.

18. Sorina-Simona Arbanas (Moraru), Antoaneta Ene, **Steluta Gosav**, (2019) Mineralogical Composition Assessment of Soils from Covurlui and Braila Plains by ATR-FTIR Technique, Simpozionul international "Prioritatile Chimiei pentru o Dezvoltare Durabila - PRIOCHEM", Bucuresti, 30 Octombrie - 01 Noiembrie 2019.

19. Antoaneta Ene, **Steluta Gosav**, (2019), Capabilities of FT-IR Spectroscopy for the Investigation of Microplastics in Environmental Samples and Personal Care and Cosmetic Products, MONITOX International Symposium "Deltas and Wetlands", Tulcea, Romania, September 15-17, 2019.

20. Sorina-Simona Arbanas (Moraru), Antoaneta Ene, **Steluta Gosav**, Dana Moraru (2019) Intensive Agricultural Practices and Industrial Activities Influence on Soil Fertility of Agroecosystems from Prut and Siret Lowlands, SE Romania, MONITOX International Symposium "Deltas and Wetlands", Tulcea, Romania, September 15-17, 2019.

21. Antoaneta Ene, Dana Iulia Moraru, **Steluta Gosav**, Romana Drasovean, Alina Sion, Florina Cristiana Caprita (2019), Analysis of Physical-Chemical and Radiological Parameters of Surface and Groundwater from Lower Danube Region, Galati County, MONITOX International Symposium "Deltas and Wetlands", Tulcea, Romania, September 15-17, 2019.

22. Sorina-Simona Moraru, Antoaneta Ene, **Steluta Gosav**, (2019) Study of the correlativity between parameters and mineralogy of contaminated agricultural soils, 19th International Multidisciplinary Scientific GeoConference (SGEM 2019), 24 aug-2 sept, Albena, Bulgaria.

23. Dediu A. V., Ghinea I.O., Furdui B., Barbu V, **Gosav S.,** Dinica R. M., Biocatalytic one-pot cycloaddition reactions using horseradish peroxidase, 4th European Organic Chemistry Congress, **2018**, London,UK.

24. **Gosav, S.,** Coman, M. M., Praisler, M. (2018). Artificial Neural Networks Applied for the Identification of JWH Cannabinoids Based on Structural Descriptors, International Conference of the Balkan Physical Union-BPU10, Sofia, Bulgaria.

25. **Gosav, S.,** Ion, A., Praisler, M. (2018). DFT Characterization of MDMA Methylene Homologue, a Chemical Compound with Psychoactive Properties, International Conference of the Balkan Physical Union-BPU10, Sofia, Bulgaria.

26. **Gosav, S**., Ion., A., Praisler, M. (2018). Computational Study of 3,4-Methylenedioxypyrovalerone,18th International Balkan Workshop on Applied Physics and Materials Science, Constanța, România.

27. **Gosav, S**., Maftei, D. Ion., A., Praisler, M. (2018). Theoretical Investigation of the Chemical Potential of 3,4-Methylenedioxypyrovalerone,18th International Balkan Workshop on Applied Physics and Materials Science, Constanța, România.

28. **Gosav, S**., Coman, M. M., Praisler, M. (2018). Automated Recognition of Synthetic Cannabinoids Based on ANN and Molecular Descriptors,18th International Balkan Workshop on Applied Physics and Materials Science, Constanța, România.

29. **Gosav, S**., Coman, M. M., Praisler, M. (2018). Optimisation of the Performances of ANN Systems Designed for the Identification of JWH Cannabinoids,18th International Balkan Workshop on Applied Physics and Materials Science, Constanța, România.

30. Ion, A., **Gosav, S,** Praisler, M. (2018). Artificial neural network designed to identify NBOMe hallucinogens based on 3D-MoRSE descriptors and topological descriptors, Multidisciplinary HUB for the Higher Education Internationalization by Means of Innovative Interaction with the Labour Market and Society, Galați, România.

31. Ene A., Gosav S., Frontasyeva M. V., (2017). Application of ATR-FTIR spectroscopy technique for the analysis of boron nitrides, 17th International Balkan Workshop on Applied Physics and Materials Science, Constanța, România.

32. Ion, A., Gosav, S., Praisler, M., (2017). Molecular Structure Optimisation of New Hallucinogenic Amphetamines, IVth Edition of the International Conference New Trends In Environmental And Materials Engineering, Galați, România.

33. Ion, A., Gosav, S., Praisler, M., (2017). Physico-Chemical Characterization of New Hallucinogenic Amphetamines Based on Molecular Descriptors, IVth Edition of the International Conference New Trends In Environmental And Materials Engineering, Galați, România.

34. **Gosav S.**, Ene A., Aflori M., (2017). *Discrimination of plant fossils using ATR-FTIR, XRD and chemometric methods,* 17th International Balkan Workshop on Applied Physics and Materials Science, *Constanţa, România.*

35. **Gosav S.**, Maftei D., Dediu A. V., Dinica R. M., (2017). *Spectroscopic (IR and UV-Vis) and molecular docking studies on 1,1'-diethyldicarboxilat-3,3'-bis(3,4-dihydroxy)-7,7'-bisindolizine,* The XIVth International Conference on Molecular Spectroscopy: From Molecules to Functional Materials, *Kraków-Białka Tatrzańska, Polonia.*

36. **Gosav S.,** Maftei D., Paduraru N., (2017). *Density functional computations of IR and NMR spectra, molecular geometry and some molecular properties of 3-(N-morpholinyl carbodithioate)-2-(4-methoxyphenyl)chroman-4-one,* The XIVth International Conference on Molecular Spectroscopy: From Molecules to Functional Materials, *Kraków-Białka Tatrzańska, Polonia.*

37. **S. Gosav**, N. Paduraru, M. Praisler, QSAR model based on selected theoretical molecular descriptors for predicting the anticancer activity against HT-29 colon cancer cell of flavonoids, *33st European Congress on Molecular Spectroscopy (**EUCMOS**)*, 30 July-4 August **2016**, Szeged, Hungary.

38. M. Praisler, S. Ciochina, N. Paduraru, **S. Gosav**, Portable hollow fiber infrared spectroscopy system for the identification of the main precursors of amphetamines, *33st European Congress on Molecular Spectroscopy (**EUCMOS**)*, 30 July-4 August **2016**, Szeged, Hungary.

39. **S. Gosav**, D. Maftei, N. Paduraru, A. Dediu, Experimental and DFT studies of 1,1'-diethyldicarboxilat-3,3'-bis(3,4-dihydroxy)-7,7'-bisindolizine compound, **Molecular modeling in chemistry and biochemistry** (MOLMOD 2016), 13-15 November **2016**, Cluj-Napoca, Romania.

40. **S. Gosav**, D. Maftei, R. Dinica, Molecular docking studies on bisindolizinic compounds as potential inhibitors of PI3K kinase, **Molecular modeling in chemistry and biochemistry** (MOLMOD 2016), 13-15 November **2016**, Cluj-Napoca, Romania.

41. **S. Gosav**, R. Drasovean, Designing and programming an artificial neural network model for the modeling/discrimination of amphetamines, **International Conference of Physical Chemistry** (**ROMPHYSCHEM-16),** September 21–23th, **2016**, Galati, Romania.

42. R. Draşovean, M.Timofti and **S. Gosav**, Evaluation of drinking water quality in Galati county achieved by monitoring some physical and chemical parameters, **International Conference of Physical Chemistry** (**ROMPHYSCHEM-16),** September 21–23th, **2016**, Galati, Romania.

43. Paduraru Nicoleta, **Gosav Steluta**, Praisler, Mirela, Chemometric Characterisation of Some Flavonoids Active Against HT-29 Human Cancer Cells, **IEEE Conference on e-Health and Bioengineering (EHB 2015) -** "*Challenging Issues for Health and Biomedical Technologies*", 19-21 November 2015, Iasi, Romania.

44. **S. Gosav**, N. Paduraru, D. Maftei, M.L. Birsa, M. Praisler, Quantum chemical study of a novel derivative of 3-substituted dithiocarbamic flavanone, **Colloquium Spectroscopicum Internationale XXXIX,** 30 Aug – 3 Sept **2015,** Figueira da Foz, Portugal.

45. Romana Drasovean, **Steluta Gosav,** Nicoleta Paduraru, Antoaneta Ene, *Monitoring greenhouse gases in Romania*, Internationale Conference „Environmental Challenges in Lower Danube Euroregion, June 25-26, **2015**, Galati, Romania, **ISBN 978-606-17-0745-4**

46. **Steluta Gosav,** Nicoleta Paduraru, Antoaneta Ene, Romana Drasovean, *Toxicological study on some chemical compounds using the molecular modeling*, Internationale Conference „Environmental

Challenges in Lower Danube Euroregion, June 25-26, **2015**, Galati, Romania, ISBN 978-606-17-0745-4

47. **Steluta Gosav,** Nicoleta Paduraru, Mirela Praisler, *Hyphenated GC-FTIR and GC-MS Techniques Applied in the Analysis of Bioactive Compounds*, **Second International Conference on Applications of Optics and Photonics,** Aveiro, Portugal, 26–30 May **2014.**

48. **Steluta Gosav**, Dan Maftei, Nicoleta Paduraru, Mihail Lucian Birsa, Mirela Praisler, *Structural and Vibrational Characterisation of Novel Flavanones*, **Second International Conference on Applications of Optics and Photonics,** Aveiro, Portugal, 26–30 May **2014.**

49. **Steluta Gosav**, Dan Maftei, Nicoleta Paduraru, Mihail Lucian Birsa, *Vibrational spectroscopic studies on 3-(N,N-diethyldithiocarbamate)-2-(4-methoxyphenyl)chroman-4-one*, **3EME Colloque Franco-Roumain de Chimie Medicinale,** Iasi, Roumanie, 30-31 oct **2014**.

50. **Steluta Gosav**, Hélène Jamet, Molecular docking study of anticancer flavonoids, 3EME Colloque Franco-Roumain de Chimie Medicinale, **Iasi, Roumanie, 30-31 oct** 2014.

51. **Steluta Gosav**, Rodica M. Dinica, Bianca Furdui, Molecular Structure – Antimicrobial activity for a new class of Quaternary Pyridinium Salts, *The XIIth International Conference on Molecular Spectroscopy: From Molecules to Nano- and Biomaterials*, September 8-12, **2013**, Kraków-Białka Tatrzańska, Polonia.

52. **Steluta Gosav**, Dan Maftei, Mihail L. Birsa, Rodica M. Dinica, Investigation of a novel flavanone using spectroscopic and DFT methods, *The XIIth International Conference on Molecular Spectroscopy: From Molecules to Nano- and Biomaterials*, September 8-12, **2013**, Kraków-Białka Tatrzańska, Polonia.

53. **S. Gosav**, D. Maftei and M.L. Birsa, Experimental (FTIR and NMR spectra) and theoretical (DFT) study of novel flavanones, *31st European Congress on Molecular Spectroscopy (***EUCMOS***)*, 26-31 August **2012**, Cluj-Napoca, Romania.

54. **Steluta Gosav**, Mihail Lucian Birsa, Multivariate study of flavonoids active against HT-29 colon carcinoma, *Second International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences IC-ANMBES,* May 24-27, **2012**, Brasov, Romania.

55. **Steluţa Gosav**, Mirela Praisler, Mihail Lucian Bîrsă, Principal component analysis coupled with artificial neural networks – a combined technique identifying small molecular structures using a concatenated spectral database, *XIth International Conference on Molecular*, September 17-21, **2011**, Wroclaw-Kudova Zdroj, Polonia.

56. **Steluţa Gosav**, Mihail Lucian Bîrsă, QSAR modeling of anti-invasive activity of flavonoid compounds using chemometric methods, *XIth International Conference on Molecular,* September 17-21, **2011**, Wroclaw-Kudova Zdroj, Polonia.

57. Gina Tiron, **Steluţa Gosav**, Improving rainfall estimation by the optimization of input data using PC-ANN systems, *European **Geosciences Union General Assembly** 2011,* 3-8 april **2011**, Vienna, Austria.

58. **Steluţa Gosav**, Mihail Lucian Bîrsă, SDA method applied on some flavonoid compounds with anti-invasive activity, *International Conference on Global Research and Education*, 26-28 sept **2011**, Sucevita, Romania.

59. **Steluţa Gosav**, Mirela Praisler, Mihail Lucian Bîrsă, Importance and Sensitivity of GC-FTIR Spectra – Optimisation of ANN System Identifying Bioactive Compounds, 10th *International Conference on Global Research and Education*, 26-28 sept **2011**, Sucevita, Romania.

60. **S. Gosav,** M Praisler, Optimization of the performances of a hybrid expert system designed for the elucidation of molecular structures, ***XXX European Congress on Molecular Spectroscopy,*** Florence, Italy, 29 aug - 3 sept **2010.** http://www.unifi.it/eucmos2010/

61. M. Praisler, D. Domnisoru, **S. Gosav**, Multivariate analysis of ancient Cucuteni ceramics from Romanian cultural heritage, ***XXX European Congress on Molecular Spectroscopy***, Florence, Italy, 29 aug - 3 sept **2010.** http://www.unifi.it/eucmos2010/

62. Gina Tiron, **Steluţa Gosav**, A hybrid artificial neural network model for rainfall estimation in the Moldova region, ***10th International Precipitation Conference***, Coimbra, Portugal, 23-25 June **2010**.

63. **Steluţa Gosav,** Gina Tiron, Dana Ortansa Dorohoi, Comparative analysis of ANN and PCA-ANN systems for rainfall estimation based on radar data and numerical weather prediction ETA model, ***10th International Precipitation Conference***, Coimbra, Portugal, 23-25 June **2010.**

64. **Steluta Gosav,** Mihail Lucian Bîrsă, Exploratory analysis on some flavonoids with anti-invasive activity using molecular descriptors and principal component analysis, **1ER Colloque Franco-Roumain de Chimie Medicinale,** Iasi, Roumanie, 7-8 oct **2010**.

65. **Steluta Gosav,** Mirela Praisler, ANN and PC-ANN expert systems for he modeling of small molecular structures using descriptors database – Comparative study, **1ER Colloque Franco-Roumain de Chimie Medicinale,** Iasi, Roumanie, 7-8 oct **2010**.

66. Gina Tiron , **Steluţa Gosav,** Ioana Campean, Artificial neural network technique for rainfall estimation based on Doppler radar, **The 6-th European Conference on Radar in Meteorology and Hydrology**, Sibiu, Romania, 6 – 10 Sept **2010.**

67. **S. Gosav,** R. Dinica, GC/MS and GC/FTIR techniques for the identification of stimulant amphetamines, **International Conference of Physical Chemistry, ROMPHYSCHEM-14,** Bucharest, Romania, 14 June 2-4, **2010.**

68. **S. Gosav,** D.O. Dorohoi, Hyphenated techniques used in the identification of hallucinogenic amphetamines, **International Conference of Physical Chemistry, ROMPHYSCHEM-14,** Bucharest Romania, 14 June 2-4, **2010.**

69. **S. Gosav**, D. Dorohoi, The toxicological activity identification of amphetamine analogues by gas chromatography coupled with FTIR spectrometry, **7th Balkanian Physics Union,** General Conference, Alexandroupolis, Greece, 9-13 Sept **2009**

70. **S. Gosav**, R. Dinica, The GC/MS spectra in the identification of illicit amphetamine, **7th Balkanian Physics Union,** General Conference, Alexandroupolis, Greece, 9-13 Sept **2009.**

71. G. Tiron, **S. Gosav,** C. Oprea, D.O. Dorohoi, Precipitation estimation from radar data using artificial neural network systems, **European Geosciences Union,** General Assembly, Austria, Vienna, 20 – 24 April **2009** http://meetingorganizer.copernicus.org/EGU2009/EGU2009-7507-1.pdf

72. **S. Gosav**, M. Praisler, D. O. Dorohoi, Expert systems built for the modeling of small molecular structures using a concatenated spectral database, ***XXIX European Congress on Molecular Spectroscopy***, Opatija, Croatia, 31 aug - 6 sept **2008**.

73. **S. Gosav**, M. Praisler, Optimisation of the performances of a hybrid expert system designed for the elucidation of molecular structures, ***XXIX European Congress on Molecular Spectroscopy***, Opatija, Croatia, 31 aug - 6 sept **2008**.

74. **S. Gosav**, R. Dinica, M. Praisler, A Comprehensive GC/MS Analysis of Amphetamines, *ROMPHYSCHEM 13,* Bucureşti, 3 – 5 sept **2008**.

75. **S. Gosav**, R. Dinica, M. Praisler The Selectivity of the GC/FTIR Method in the Identification of Amphetamine Analogues, *ROMPHYSCHEM 13,* Bucureşti, 3 – 5 sept **2008** (oral presentation)

76. D.O. Dorohoi, **S. Gosav**, L. Dumitrascu, I. Dumitrascu, Normal Vibration Coordinates in Infrared Spectroscopy, **XVIII International School- Seminar "Spectroscopy of Molecules and Crystals"***,* Beregove, Crimea, Ukraine, 20-29 September **2007**.

77. D.O. Dorohoi, **S. Gosav**, I. Dumitrascu, L. Dumitrascu, Molecular Symmetry in Establishing of the Permitted Transitions in IR and Raman Spectra, **XVIII International School-Seminar "Spectroscopy of Molecules and Crystals",** *Beregove, Crimea, Ukraine*, 20-29 September **2007**.

78. **S. Gosav**, S. Bota-Condurache, I. Dumitrascu, L. Dumitrascu, D.O. Dorohoi, Point Groups in Molecular Symmetry, **XVIII International School-Seminar "Spectroscopy of Molecules and Crystals"**, Beregove, Crimea, Ukraine, 20-29 September **2007**.

79. **S. Gosav**, M. Praisler, G. Popa, Choosing between GC-FTIR and GC-MS spectra for an efficient intelligent identification of illicit amphetamines, **IXth International Conference on Molecular Spectroscopy - From Molecules to Molecular Biological Systems and Molecular Materials**, University of Wroclaw, Faculty of Chemistry, Wroclaw-Ladek Zdroj, Poland, 12-16 September **2007**.

80. **S. Gosav**, M. Praisler, D.O. Dorohoi, Toxicity prediction for amphetamines using ANN system and hybrid database, **IXth International Conference on Molecular Spectroscopy - From Molecules to Molecular Biological Systems and Molecular Materials**, University of Wroclaw, Faculty of Chemistry, Wroclaw-Ladek Zdroj, Poland, 12-16 September **2007**.

81. **S. Gosav**, M. Praisler, D.O. Dorohoi, ANN hybryd system screening for illicit amphetamines using molecular descriptors, **EUROanalysis XIV**, University of Antwerp, Belgium, 9-14 September **2007**.

82. **S. Gosav**, M. Praisler, G. Popa, The influence of input data preprocessing and of learning error on the performances of ANN systems identifying amphetamines, **EUROanalysis XIV**, University of Antwerp, Belgium, 9-14 September **2007**.

83. **S. Gosav**, M. Praisler, D.O. Dorohoi, ANN expert system screening for illicit amphetamines using molecular descriptors, **XXVIII European Congress on Molecular Spectroscopy**, Istanbul University, Science Faculty, Istanbul, Turkey, 3-8 September **2006**

84. M. Praisler**, S. Gosav**, G. Popa, Comparative analysis of ANN and pattern recognition expert systems screening for illicit amphetamines based on GC-FTIR spectra, **XXVIII European Congress on Molecular Spectroscopy,** Istanbul University, Science Faculty, Istanbul, Turkey 3-8 September **2006.**

85. D.O. Dorohoi, **S. Gosav**, M. Praisler, Point groups of symmetry applied in molecular spectroscopy, **6th International Conference of the Balkan Physical Union,** University, Istanbul, Turkey, 22-26 August **2006**.

86. **S. Gosav**, M. Praisler, J. Van Bocxlaer, A.P. De Leenheer, D.L. Massart, Neural network systems performing the automated recognition of novel amphetamines, **Colloquium Spectroscopicum Internationale XXXIV,** University of Antwerp, Belgium, 4-9 September **2005.**

87. **S. Gosav**, M. Praisler, J. Van Bocxlaer, A.P. De Leenheer, D.L. Massart, Class identity assignement for amphetamines using neural networks and GC-FTIR data, Colloquium Spectroscopicum Internationale XXXIV, University of Antwerp, Belgium, 4-9 September **2005.**

88. **S. Gosav**, M. Praisler, D.O. Dorohoi, G. Popa, Spectroscopic analysis and comparison between a PC-NN system and a NN system designed for the identification of illicit amphetamines, **XXVII European Congress on Molecular Spectroscopy,** University of Science and Technology, Krakow, Poland, 5-10 September **2004**.

89. **S. Gosav,** M. Praisler, D.O. Dorohoi, G. Popa, Automated identification of novel amphetamines using neural networks coupled with principal component analysis (PC-NN systems), **XXVII European Congress on Molecular Spectroscopy,** University of Science and Technology, Krakow, Poland, 5-10 September **2004**.

90. M. Praisler, **S. Gosav**, J. Van Bocxlaer, A. De Leenheer, D.L. Massart, Spectroscopic analysis for the optimisation of the training set used the ANN classification of GC-FTIR spectra of amphetamines, **Industrial Chemometrics: Achievements and Promises**, Free University of Brussels, Belgium, 27-28 March **2003**.

91. M. Praisler, **S. Gosav**, J. Van Bocxlaer, A. De Leenheer, D.L. Massart, Identification of phenethyamines using artificial neural networks (ANNs) and GC-FTIR spectra, **Industrial Chemometrics: Achievements and Promises,** Free University of Brussels, Belgium, 27-28 March **2003**.

V.3. Studii publicate în volumele unor manifestări stiinţifice naţionale ca rezumat

1. Catalina Mercedes Burlacu, Constantin Adrian Burlacu, **Steluta Gosav**, Mirela Praisler, (2023) Computer-aided detection of synthetic cannabinoids, CSSD-UDJG 2023, Galati, 8th and 9th of June **2023.**

2. Iulia-Florentina Darie, **Steluta Gosav,** Mirela Praisler (2023) The evaluation of physico-chemical parameters of some psychoactive compounds using molecular modeling, CSSD-UDJG 2023, Galati, 8th and 9th of June 2023.

3. Steluta Gosav, Iulia-Florentina Darie, Mirela Praisler, Toxicity assessment of some DOx, 2C-x and NBOMe psychoactive compounds using dedicated models, , CSSD-UDJG 2023, Galati, 8th and 9th of June 2023.

4. Ana-Maria Paduraru, Steluța Gosav, (**2022**) The investigation of the chemical potential of some bioactive isoflavones from soy using the molecular modeling, CSSD-UDJG 2022, Galati, 9th and 10th of June 2022.

5. Steluța Gosav, Ana-Maria Paduraru (2022) The evaluation of the inhibitory capacity of some bioactive isoflavones from soy by the molecular docking approach, CSSD-UDJG 2022, Galati, 9th and 10th of June 2022.

6. Iulia-Florentina Darie, Steluța Gosav, Mirela Praisler, Molecular descriptors - a mathematical approach to characterize psychedelic substances, CSSD-UDJG 2022, Galati, 9th and 10th of June 2022.

7. Iulia-Florentina Darie, Mirela Praisler, Steluța Gosav, Topological indices – application of graph theory in chemistry, ISIM-ISWIN Conference, 26-29 June 2022, Bucharest, Romania.

8. Adriana Hodorogea, Steluța Gosav, Dan Maftei, (2021) Vibrational and structural characterisation of some flavonoids with pharmacological properties, 9th edition of CSSD-UDJG **2021**, Perspectives and challenges in doctoral research, Galati, 10th and 11th of June 2021.

9. Steluța Gosav, Adriana Hodorogea, Dan Maftei, Study on chemical potential of apigenin, luteolin, quercetin and myricetin using the molecular modeling, , 9th edition of CSSD-UDJG 2021, Perspectives and challenges in doctoral research, Galati, 10th and 11th of June 2021.

10. Adelina Ion, Mirela Praisler, Steluta Gosav, Molecular descriptors – an useful tool for assessing the physico-chemical properties of hallucinogenic drugs of abuse, 9th edition of CSSD-UDJG 2021, Perspectives and challenges in doctoral research, Galati, 10th and 11th of June 2021.

11. Adelina Ion, Mirela Praisler, Steluta Gosav, Comparative study of DFT, AM1 and PM3 optimization methods modeling new psychotropic amphetamines, 9th edition of CSSD-UDJG 2021, Perspectives and challenges in doctoral research, Galati, 10th and 11th of June 2021.

12. Iulia-Florentina Darie, Steluta Gosav, Mirela Praisler, Exploratory analysis of hallucinogenic amphetamines based on their ATR-FTIR spectra and Principal Component Analysis, 9th edition of CSSD-UDJG 2021, Perspectives and challenges in doctoral research, Galati, 10th and 11th of June 2021.

13. Catalina Mercedes Burlacu, Steluta Gosav, Bianca Andreea Burlacu, Mirela Praisler, Artificial Neural Networks detecting synthetic cannabinoids, 9th edition of CSSD-UDJG **2021**, Perspectives and challenges in doctoral research, Galati, 10th and 11th of June 2021.

14. Adelina Ion, **Steluţa Gosav**, Mirela Praisler, (**2019)** Choosing relevant functional groups for optimizing Artificial Neural Networks detecting NBOMe hallucinogens, 7th edition of CSSD-UDJG 2019, Galati, 13th and 14th of June 2019.

15. Adelina Ion, **Steluţa Gosav**, Mirela Praisler, (**2019**) Improved architecture of ANN system designed to identify NBOMe hallucinogens based on topological descriptors, 7th edition of CSSD-UDJG 2019, Galati, 13th and 14th of June 2019.

16. Mădălina-Manuela Coman Rindunică, **Steluţa Gosav**, Mirela Praisler, (**2019**) Analysis of the toxicological activity of the main JWH synthetic cannabinoids starting from cannabis (THC), 7th edition of CSSD-UDJG 2019, Galati, 13th and 14th of June 2019.

17. Mădălina-Manuela Coman Rindunică, **Steluţa Gosav,** Mirela Praisler, (**2019)** Artificial Neural Networks detecting JWH synthetic cannabinoids based on structural descriptors: a comparative study, 7th edition of CSSD-UDJG 2019, Galati, 13th and 14th of June 2019.

18. **Steluţa Gosav**, Antoaneta Ene, Diana Ioana Tita, Complex biological matrices in cancer investigation using ATR-FTIR spectrometry, Conferinţa Naţională de Oncologie Ginecologică-secţiunea Fizică Medicală, 12-14 septembrie **2019**, Galaţi.

19. Sorina Simona Arbanaș (Moraru), Antoaneta Ene, **Steluţa Gosav**, Investigation of agricultural soils mineralogical composition in the Galati Steel Plant area of influence by ATR-FTIR Spectroscopy, Conferinţă ştiinţifică cu participarea elevilor ”Fizica medicală: simbioză între Fizică, Medicină și Mediu”, 28 februarie **2019**, Galaţi.

20. Cristina Gheorghiţă, Corina Zamfir, Steluţa Gosav, Antoaneta Ene, Spectroscopia ATR-FTIR aplicată în investigarea diabetului, Conferinţă ştiinţifică cu participarea elevilor ”Fizica medicală: simbioză între Fizică, Medicină și Mediu”, 28 februarie 2019, Galaţi.

21. Adina Maria Dumitrache, Steluţa Gosav, Antoaneta Ene, Metode refractometrice si spectroscopice aplicate în investigarea urinei, Conferinţă ştiinţifică cu participarea elevilor ”Fizica medicală: simbioză între Fizică, Medicină și Mediu”, 28 februarie 2019, Galaţi.

22. Coman, M. M., **Gosav, S**., Praisler, M., Study regarding the toxicological activity of some JWH synthetic cannabinoids, Scientific Conference of Doctoral Schools from University Dunarea de Jos of Galati, **2018**, Galaţi, România.

23. **Gosav, S**., Coman, M. M., Praisler, M. (2018). QSAR model based on molecular descriptors built to predict the CB1 binding affinity of JWH cannabinoids, Scientific Conference of Doctoral Schools from University Dunarea de Jos of Galati, Galaţi, România.

24. **Gosav, S**., Ion, A., Praisler, M. (2018). Artificial neural network designed to identify NBOMe hallucinogens based on molecular descriptors, Scientific Conference of Doctoral Schools from University Dunarea de Jos of Galati, Galaţi, România.

25. Ion, A., **Gosav, S**., Praisler, M. (2018). Importance and sensitivity criteria applied to improve the efficiency of an ANN system detecting NBOMe hallucinogens, Scientific Conference of Doctoral Schools from University Dunarea de Jos of Galati, Galaţi, România.

26. Ene A., Frontasyeva M. V., Ceoromila A., Gosav S., Bodor M., Ignatenko O., Nuclear, (**2017**). Atomic and Related Techniques for the Investigation of Microstructure and Impurity Composition of Diamonds and Boron Nitrides, Scientific Conference of Doctoral Schools from University Dunarea de Jos of Galati, Galaţi, România.

27. **Steluţa Gosav**, Nicoleta PADURARU, Mirela PRAISLER, Comparison of DFT methods applied for the optimization of the molecular structure of 3-(N-morpholinyl carbodithioate)-2-(4-

methoxyphenyl)chroman-4-one, *Scientific Conference of Doctoral Schools from UDJ* Galati, June 2-3, **2016,** Romania (oral presentation).

28. Nicoleta PADURARU, **Steluţa Gosav**, Mirela PRAISLER, Density functional computations of the vibrational spectrum and some molecular properties of 3-(N-morpholinyl carbodithioate)-2-(4-methoxyphenyl)chroman-4-one, *Scientific Conference of Doctoral Schools from UDJ* Galati, June 2-3, **2016**, Romania (oral presentation).

29. Nicoleta Paduraru, **Steluta Gosav,** Mirela Praisler, Study of Some Flavonoids Active Against HT-29 Human Cancer Cells using Principal Component Analysis and Molecular Descriptors, *Scientific Conference of Doctoral Schools from UDJ Galati*, June 4-5, **2015,** Romania (oral presentation)*.*

30. **Steluta Gosav,** Nicoleta Paduraru, Mirela Praisler, Modeling of Anticancer Activity of Flavonoids based on Multiple Linear Regression, *Scientific Conference of Doctoral Schools from UDJ Galati*, June 4-5, **2015,** Romania (oral presentation)*.*

31. Nicoleta Paduraru, **Steluţa Gosav,** Mirela Praisler, Pharmacological Action of Flavonoids – An Overview, *Scientific Conference of Doctoral Schools from "Dunărea de Jos" University of Galati* (CCSD-UDJG 2014), Galati, May 15-16*, 2014*(oral presentation)*.*

32. **S. Gosav**, R. Drasovean, G. Tiron, Hybrid PC-ANN system for the modeling of small molecular structures using descriptors database, *National Conference of Physics,* Iasi, Romania, 23-25 sept **2010.**

33. G. Tiron, **S. Gosav,** D.O. Dorohoi, Rainfall automated estimation using numerical weather prediction Aladin model, *National Conference of Physics*, Iasi, Romania, 23-25 sept **2010.**

34. **S. Gosav**, M. Praisler, Artificial neural networks built for the recognition of illicit amphetamines using a concatenated database, *Fourth National Conference on Applied Physics,* sept 25-26, **2008**, Galati, Romania (oral presentation).

35. **S. Gosav**, M. Praisler, The role of selection criteria in the optimization of ANN systems built for the screening of designer drugs, *Fourth National Conference on Applied Physics,* sept 25-26, **2008**, Galati, Romania (oral presentation).

36. **S. Gosav**, M. Praisler, A. Filip, The relevance of the molecular descriptors for the modeling and the discrimination of amphetamines, *Fourth National Conference on Applied Physics,* sept 25-26, **2008**, Galati, Romania (oral presentation).

37. **S. Gosav**, M. Praisler, D.O. Dorohoi, Quantitative structure-activity relationship for the prediction of the toxicity of amphetamines using neural networks, *National Conference on Applied Physics, University "Dunarea de Jos" of Galati, Romania,* 15-16 June **2007** (oral presentation).

38. **S. Gosav**, M. Praisler, G. Popa, Exploratory analysis for the identification of amphetamines using neural networks and GC-MS, *Third National Conference on Applied Physics, University "Dunarea de Jos" of Galati, Romania,* 15-16 June **2007** (oral presentation).

39. **S. Gosav**, M. Praisler, D.O. Dorohoi, G. Popa, Automated classification of amphetamines using artificial neural networks and topological descriptors, *National Conference on Applied Physics, University "Dunarea de Jos" of Galati, Romania*, 3-4 June **2005** (oral presentation).

40. **S. Gosav**, M. Praisler, D.O. Dorohoi, G. Popa, ANN identification of illicit amphetamines using constitutional descriptors, *National Conference on Applied Physics, University "Dunarea de Jos" of Galati, Romania*, 3-4 June **2005** (oral presentation).

VI. Proiecte de cercetare-dezvoltare-inovare pe baza de contract/grant

VI.1. Director de proiect
1. Proiect individual de cercetare post-doctorală (2010-2013) câştigat prin competiţie „Studii asupra unor flavonoide utilizând metode optice, spectrale şi chemometrice" finanţat prin Programul Operaţional Sectorial Dezvoltarea Resurselor Umane în cadrul proiectului „Dezvoltarea capacitătii de inovare şi

creșterea impactului cercetării prin programe post-doctorale” POSDRU/89/1.5/S/49944, valoare 138213.9 lei.

VI.2. Membru în echipa de cercetare a unor proiecte internaţionale

1. **Programul Black Sea** 2014-2020 "Black Sea Basin interdisciplinary cooperation network for sustainable joint monitoring of environmental toxicants migration, improved evaluation of ecological state and human health impact of harmful substances, and public exposure" MONITOX (cod BSB27) Grant contract 105070/14.09.2018, Director – Prof.dr.habil. Antoaneta ENE
2. **Proiectul HydroEcoNex** "Creating a system of innovative transboundary monitoring of the Black Sea river ecosystems transformation under impacts of hydropower development and climate change" (cod BSB165) Resp. partener – Prof.dr.habil. Antoaneta ENE Grant contract 105067/14.09.2018
3. **RESEARCH PROJECT 2019** JINR-Romania no. **63**, Assessment of industrial impact on agroecosystems and human health risk in Romania using nuclear and related analytical techniques, JINR Theme no. 03-4-1128-2017/2019, Investigations in the Field of Nuclear Physics with Neutrons, Director Romania: Ene Antoaneta, Stihi Claudia (Project Responsible, Valahia University of Targoviste).
4. **RESEARCH PROJECT 2019** JINR-Romania no. **64**, Assessment of air and soil quality using biomonitoring, neutron activation analysis and related analytical techniques, JINR Theme no. 03-4-1128-2017/2019, Investigations in the Field of Nuclear Physics with Neutrons, Director Romania: Claudia Stihi (Univ. Valahia Targoviste; Responsabil Partener 1 UDJG Ene Antoaneta
5. **Research project 2018 JINR-Romania** no. **112**, Assessment of air and soil quality in Romania studied by NAA and related analytical techniques, Theme no. 03-4-1128-2017/2019, Leaders from Romania: Stihi Claudia (Project Director, Valahia University of Targoviste), Ene Antoaneta (Project Responsible, UDJ Galati),, valoare totală 4900 USD (3000+1900 USD) Finantare 3000 USD in contabilitatea JINR, Dubna, Rusia
6. **Research project 2018 JINR-Romania** no. **111**, Assessment of industrial impact on agroecosystems and human health risk in Romania using nuclear and related analytical techniques, Theme no. 03-4-1128-2017/2019, Leaders from Romania: Ene Antoaneta (Project Director, UDJ Galati), Stihi Claudia (Project Responsible, Valahia University of Targoviste), valoare totală 4900 USD (3000+1900 USD) Finantare 3000 USD in contabilitatea JINR, Dubna, Rusia
7. Research grant JINR-Romania no. 21/2018, Development of laboratory infrastructure for applications of nuclear and magnetic techniques on characterization of agricultural soils and content of potentially toxic elements, Theme no. 03-4-1128-2017/2019, Ministerul Educatiei si Cercetarii Stiintifice - Program international IUCN Dubna Director Prof.dr.habil. Antoaneta ENE , Finantare 11500 USD in contabilitatea JINR, Dubna, Rusia
8. Proiect nr. 80/2017, Program international IUCN Dubna, Investigation of advanced functional materials using atomic and nuclear analytical techniques and imaging microscopy, Director Prof.dr.habil. Antoaneta ENE Finantare 2295 USD in contabilitatea JINR, Dubna, Rusia
9. Proiect nr. 81/2017, Applied research on air and soil pollution with toxic elements using nuclear and related analytical techniques, Co-Director Prof.dr.habil. Antoaneta ENE, Finantare 3975 USD in contabilitatea JINR, Dubna, Rusia
10. MIS ETC 1676 „Cross-border interdisciplinary cooperation for the prevention of natural disasters and mitigation of environmental pollution in Lower Danube Euroregion", 2013-2015.
11. FP7-SECURITY-2009-1 "Rapid screening and identification of illegal Drugs by IR Absorption spectroscopy and gas Chromatography" (DIRAC), 2009-2013.
12. BIL 97/75 (174B2198) realizat in cadrul Acordului Bilateral de Cooperare Stiintifica si Tehnologica intre Flandra si Romania,"Artificial Intelligence applied for the chemometrical recognition of drugs of abuse based on Gas Chromatographic-Fourier Transform Infrared and related structural and toxicological data sets", 2001-2003.

VI.3. Membru în echipa de cercetare a unor proiecte naționale

1. Research Project 3PS-MCI-2017, Cercetări în sprijinul dezvoltării capacității de evaluare și atenuare a impactului schimbărilor climatice și a altor factori de stress asupra stării ecosistemelor forestiere și a culturilor viticole, Director proiect: Prof.dr.habil. Gabriel Murariu

2. PNCDI-2– parteneriate, proiect complex nr. 72-172/1.10.2008,direcția de cercetare 7 INOVARE - Tehnici de înaltă precizie și sensibilitate aplicate în rețele de biomonitorizare a poluării mediului cu factori poluanți din zonele de dezvoltare de sud, sud-est și centrală ale Romaniei (TIPSARMER), 2008-2011.

3. PNII Parteneriate-1646 Nr. 81041, contract „Archaeopolice", „Sisteme expert pentru identificarea inteligentă a falsurilor din ceramica de patrimoniu", 2007-2009.

4. Grant excelența CEEX, nr.89/2006, Cod MEC 1930,,,Prepararea și caracterizarea unor straturi subțiri semiconductoare nanostructurate utilizate la confecționarea modulelor fotovoltaice", 2006-2008.

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