

## LISTA DE LUCRĂRI

### A) LISTA CELOR 10 LUCRĂRI CONSIDERATE A FI CELE MAI RELEVANTE PENTRU REALIZĂRILE PROFESIONALE

A1. **Cursaru D.**, Brănoiu Gh., Ramadan I., Miculescu F., *Degradation of automotive materials upon exposure to sunflower biodiesel*, Industrial Crops and Products, 54, 2014, p. 149-158, 10.1016/j.indcrop.2014.01.032

A2. **Cursaru D.**, Andronescu C, Pîrvu C, Rîpeanu R, *The efficiency of Co-based single wall carbon nanotubes (SWNTs) in comparison with a commercial additive as AW and EP additives to mineral base oil*, Wear, 290-291, 2012, p.133-139, doi: 10.1016/j.wear.2012.04.019

A3. **D.L. Cursaru**, S. Nassreddine, B. Riachi, M. Neagu, S. Mihai, D. Matei, Gh. Brănoiu, *Impact of moisture on the corrosion behavior of copper and mild carbon steel in corn biodiesel*, Corrosion Reviews, <https://doi.org/10.1515/correv-2018-0015>, 2018, 36 (6), p. 559

A4. Neagu, M., **Cursaru, D.L.**, *Technical and economic evaluations of the triethylene glycol regeneration processes in natural gas dehydration plants*, Journal of Natural Gas Science and Engineering, 2017, p. 327-340, 10.1016/j.jngse.2016.11.052

A5. A. K. Usman., **D. L Cursaru**, Gh. Brănoiu, R., Somoghi, A. M. Manta, D. Matei, S. Mihai, *A Modified Sol–Gel Synthesis of Anatase {001}-TiO<sub>2</sub>/Au Hybrid Nanocomposites for Enhanced Photodegradation of Organic Contaminants*, Gels 2022, 8, 728. <https://doi.org/10.3390/gels8110728>

A6. Mihai, S., **Cursaru, D.L.**, Ghiță, D., Dinescu, A., *Morpho ierarhic TiO<sub>2</sub> with plasmonic gold decoration for highly active photocatalysis properties*, Materials Letters, 2016, 162, p. 222-225, 10.1016/j.matlet.2015.10.012

A7. D. Matei, A. K. Usman., S. Mihai, **D. L Cursaru**, R., Somoghi, C.L.Nistor, *Synthesis of Ruthenium-Promoted ZnO/SBA-15 Composites for Enhanced Photocatalytic Degradation of Methylene Blue Dye*, Polymers 2023, 15, 1210. <https://doi.org/10.3390/polym15051210>

A8. F. Enache, D.Dănulescu, I. Bolocan, **D. Cursaru**, *The reduction of FCCU afterburning through process optimization and regeneration revamping*, Chemical Industry and Chemical Engineering Quarterly, [10.2298/CICEQ210430023E](https://doi.org/10.2298/CICEQ210430023E), 2021

A9. Mihai, S., **Cursaru, D.L.**, Matei, D., Manta, A.M., Șomoghi, R., Brănoiu, Gh., *Rutile Ru<sub>x</sub>Ti<sub>1-x</sub>O<sub>2</sub> nanobelts to enhance visible light photocatalytic activity*, Scientific Reports, 2019, 9, 1-8, 10.1038/s41598-019-55446-7

A10. F. Enache, **D. Cursaru**, D.Dănulescu, *The integration of Wet Scrubbing System and SO<sub>x</sub> additive technologies to reduce the SO<sub>2</sub> emissions generated in FCCU*, Chemical Papers, 2022. <https://doi.org/10.1007/s11696-022-02335-5>

### B) TEZA DE DOCTORAT

B1. *Kinetic investigations on direct hydration of n-butene in a multiphase reactor*

Conducător științific: Prof. dr. ing. Ulrich Kunz (Universitatea Tehnică din Clausthal-Germania) Susținută public la data de 9.05.2006

## C) BREVETE DE INVENȚIE ȘI ALTE TITLURI DE PROPRIETATE INDUSTRIALĂ ȘI INTELLECTUALĂ

C1. Bogatu, L., Petre, I., Marin, A., Luca, M., Amira, V., Tănăsescu, C., **Cursaru, D.**, Ciuparu, D., *Compoziție lubrifiantă ecologică pentru aplicații industriale obținută pe bază de materii prime regenerabile, OSIM, RO125228 B1 din 30.06.2011.* 2010-J60106

## D) CĂRȚI ȘI ÎNDRUMARE DE LABORATOR

### D1. Cărți de specialitate

D1.1. **Cursaru, D.**, Tănăsescu, C., *Tehnologia uleiurilor*, Ed UPG, Ploiești, 244 pag, 2013, ISBN 978-973-719-463-3

D1.2. Tănăsescu, C., **Cursaru, D.**, *Tehnologia uleiurilor lubrifiante*, Ed. UPG, Ploiești, 212 pag, 2009, ISBN 978-973-719-297-4.

D1.3. Bohîlțea I., **Cursaru, D.**, *Elemente de modelare și optimizare a proceselor chimice*, Ed. MatrixRom, București, 236 pag, 2009, ISBN 978-973-755-545-8.

### D2. Îndrumare de laborator

D2.1. Tănăsescu, C., **Cursaru, D.**, Jugănar, T., Bogatu, L., *Tehnologia uleiurilor, Îndrumar de laborator și aplicații numerice*, Ed. UPG, Ploiești, 171 pag, 2010, ISBN 978-973-719-331-5

D2.2. Roșca, P., Ciuparu, D., Borcea, A., Dragomir, R., **Petre, D.**, – *Procese termocatalitice. Îndrumar de laborator*, Ed. UPG, Ploiești, 117 pag, 2003, ISBN 973-7965-11-6.

## E) ARTICOLE / STUDII ÎN EXTENSO, PUBLICATE ÎN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL;

### E1. Articole în reviste cotate ISI

E1.61. A. Diniță, R. G. Rîpeanu, C. N. Ilincă, **D. Cursaru**, D. Matei, R. Ibrahim Naim, M. Tănase, A. I. Portoacă, *Advancements in Fiber-Reinforced Polymer Composites: A Comprehensive Analysis*, *Polymers*, 2024, 16, 2. <https://doi.org/10.3390/polym16010002>

E1.60. A. K. Usman., S. Mihai, D. Matei, **D. L. Cursaru**, R., Somoghi, C.L. Nistor, *Construction of Pt@BiFeO<sub>3</sub> Xerogel-Supported O-g-C<sub>3</sub>N<sub>4</sub> Heterojunction System for Enhanced Visible-Light Activity towards Photocatalytic Degradation of Rhodamine B*, *Gels* 2023, 9, 471 <https://doi.org/10.3390/gels9060471>

E1.59. N. Ishak, M. Msheik, **D. L. Cursaru**, B. Riachi, S. Nassreddine, *A study on oxidation stability improvement of a palm oil-derived biodiesel by a synthetic antioxidant*, *Environ Prog Sustainable Energy*. 2023; e14109, <https://doi.org/10.1002/ep.14109>

E1.58. D. Matei, A. K. Usman., S. Mihai, **D. L. Cursaru**, R., Somoghi, C.L. Nistor, *Synthesis of Ruthenium-Promoted ZnO/SBA-15 Composites for Enhanced Photocatalytic Degradation of Methylene Blue Dye*, *Polymers* 2023, 15, 1210. <https://doi.org/10.3390/polym15051210>

E1.57. A. K. Usman., **D. L. Cursaru**, Gh. Brănoiu, R., Somoghi, A. M. Manta, D. Matei, S. Mihai, *A Modified Sol–Gel Synthesis of Anatase {001}-TiO<sub>2</sub>/Au Hybrid Nanocomposites for Enhanced Photodegradation of Organic Contaminants*, *Gels* 2022, 8, 728. <https://doi.org/10.3390/gels8110728>

E1.56. F. Enache, **D. Cursaru**, D. Dănulescu, *The integration of Wet Scrubbing System and SO<sub>x</sub> additive technologies to reduce the SO<sub>2</sub> emissions generated in FCCU*, *Chemical Papers*, 2022, 76:6537–6549. <https://doi.org/10.1007/s11696-022-02335-5>.

E1.55. Kanaan, R., Al-Aawar, E, Riachi, B., Nassreddine, S; **Cursaru, D.L.**, Chamoun, J. Biodiesel fuel from waste cooking oil: A cheaper and cleaner renewable energy source, *Revista de Chimie*, 2021, 72, 2, p. 185-198,

E1.54. F. Enache, D.Dănulescu, I. Bolocan, **D. Cursaru**, The reduction of FCCU afterburning through process optimization and regeneration revamping, *Chemical Industry and Chemical Engineering Quarterly*, 28 (2) 115–126 (2022), [10.2298/CICEQ210430023E](https://doi.org/10.2298/CICEQ210430023E), 2021

E1.53. N. Giagkas, I. F. Micu, S. Vizireanu, N. Vasile, B.I. Biță, V. Sătulu, S. Mihai, A.M. Manta, **Cursaru, D.L.**, Tribological properties of ZrN coatings deposited by magnetron sputtering in reactive and non-reactive mode, *Digest Journal of Nanomaterials and Biostructures*, vol. 16 (2), 2021, 659-667.

E1.52. I. F. Micu, **D. L. Cursaru**, D. Matei, A.M. Manta, I. Ramadan, Study regarding enhancement of antiwear properties of a grease, by using carbon nanomaterials based additives, *Digest Journal of Nanomaterials and Biostructures*, vol. 16 (2), 2021, 509-514.

E1.51. Brănoiu, Gh., Cehlarov, A., **Cursaru, D.L.**, Mihai, S., Celestine from Valea Sarii (Vrancea region): New data and crystal structure refinement, *Revista de Chimie*, 2020, 71 (8), p. 72-79, [10.37358/RC.20.8.8281](https://doi.org/10.37358/RC.20.8.8281).

E1.50. Matei, D., Docin, B., **Cursaru, D.L.**, Stănică Ezeanu D., Yield optimization using artificial neural networks in biodiesel production from soybean oil, *Revista de Chimie*, 2019, 71 (5), p. 132-140.

E1.49. Brănoiu, Gh., **Cursaru, D.**, Mihai, S., Ramadan, I., Rietveld Structure Refinement of the Apophyllite Crystals from Deccan Basalt Plateau Using X-ray Powder Diffraction Data, *Revista de Chimie*, 2019, 70, 12, p. 4248-4254.

E1.48. Rădulescu, G., **Cursaru, D.**, An optimal method for lubricating oil compounds properties estimations-The Computer based approach, *Revista de Chimie*, 2019, 70, 11, p. 3942-3946.

E1.47. Mihai, S., **Cursaru, D.L.**, Matei, D., Manta, A.M., Şomoghi, R., Brănoiu, Gh., Rutile  $\text{Ru}_x\text{Ti}_{1-x}\text{O}_2$  nanobelts to enhance visible light photocatalytic activity, *Scientific Reports*, 2019, 9, 1-8

E1.46. **Cursaru, D.L.**, Giagkas, N., Vizireanu, S., Mihai, S., Matei, D., Biță, B., Stancu, C., Manta, A.M., Ramadan, I., Improvement of antiwear properties by coating the steel surfaces and by lubricant addition, *Digest Journal of Nanomaterials and Biostructures*, vol. 14 (4), 2019, 907-915

E1.45. Matei, D., Docin, B., **Cursaru, D.L.**, Stănică Ezeanu D., Artificial Neural Network for Environmental Air Emissions Prediction Systems, *Revista de Chimie*, 2019, 70, 9, p. 3338-3342.

E1.44. Manta, A.M., **Cursaru, D.L.**, Mihai, S., The influence of synthesis conditions on the structural and redox properties of Mn-MCM-41, *Digest Journal of Nanomaterials and Biostructures*, vol. 14 (3), 2019, 509-515.

E1.43. Matei, D., **Cursaru, D.L.**, Stănică Ezeanu D., Reduction of harmful components of cigarette smoke using MCM-48, *Digest Journal of Nanomaterials and Biostructures*, vol. 14 (2), 2019, 381-386.

E1.42. Song, K., Borcea, A., **Cursaru, D.L.**, Ciuparu, D., Kinetics of gas phase synthesis of ethyl-tert-butyl Ether (ETBE) on H3PW12O40/MCM-41 catalyst, *Revista de Chimie*, 2018, 69, 11, p. 3042-3047.

E1.41. **D.L. Cursaru**, S. Nassreddine, B. Riachi, M. Neagu, S. Mihai, D. Matei, Gh. Brănoiu, *Impact of moisture on the corrosion behavior of copper and mild carbon steel in corn biodiesel*, *Corrosion Reviews*, <https://doi.org/10.1515/correv-2018-0015>, 2018, 36 (6), p. 559

E1.40. S. Mihai, **D.L. Cursaru**, D. Matei, A. Dinescu, S. D. Stoica, S. Vizireanu, G. Dinescu, *Carbon nanowalls decorated with gold nanoparticles for surface-enhanced raman spectroscopy*, Digest Journal of Nanomaterials and Biostructures, vol. 13 (3), 2018, 743-749.

E1.39. Doicin, B., Stănică Ezeanu D., **D.L. Cursaru**, *Estimation Relationships for Ethanol Conversion and Hydrogen Yield Using Neural Network for Ethanol Steam Reforming on Co/Al<sub>2</sub>O<sub>3</sub> Catalyst*, Revista de Chimie, 2017, 68, 11, p. 2720-2725.

E1.38. Matei, D., Stănică Ezeanu D., **Cursaru, D.L.**, *The Efficiency of Co/CeO<sub>2</sub> Catalyst in Ethanol Steam Reforming Process*, Revista de Chimie, 2017, 68, 11, p. 2601-2604.

E1.37. **D.L. Cursaru**, B. Doicin, S. Mihai, *Connection between Co/MCM-48 catalyst synthesis conditions and performances in the steam reforming process through artificial neural network*, Digest Journal of Nanomaterials and Biostructures, vol. 12 (2), 2017, 483-494.

E1.36. Neagu, M., **Cursaru, D.L.**, *Technical and economic evaluations of the triethylene glycol regeneration processes in natural gas dehydration plants*, Journal of Natural Gas Science and Engineering, 2017, p. 327-340.

E1.35. Song, K., Matei, D., **Cursaru, D.L.**, Matei, V., Ciuparu, D., *Characterization and Stability of Heteropolyacid Catalysts Supported on MCM-41 Materials Synthesized by Ultrasonic Irradiation*, Revista de Chimie, 2017, 68, 1, p. 101-107.

E1.34. Matei, D., Stănică-Ezeanu D., **Cursaru D.**, Mesoporous silica catalyst for steam reforming process Digest Journal of Nanomaterials and Biostructures, 2016, 11, No 4, p. 1343-1350.

E1.33. Matei, D., Doicin B., **Cursaru, D.L.**, *Pd/SBA-15 mesoporous catalyst for ethanol steam reforming. A neural network approach*, Digest Journal of Nanomaterials and Biostructures, 2016, 11, No 2, p. 443-451.

E1.32. Matei D., **Cursaru, D.L.**, Mihai, S., *Preparation of MCM-48 mesoporous molecular sieve influence of preparation conditions on the structural properties*, Digest Journal of Nanomaterials and Biostructures, 2016, 11, No 1, p. 271-276.

E1.31. Ghiță Dănuța, Dorin Stănică Ezeanu, **Cursaru Diana**, Roșca Paul, Hydrogen production by steam reforming of bioethanol over Pt based catalysts, Revista de Chimie, 2016, 67, 1, p. 145-149.

E1.30. Mihai, S., **Cursaru, D.L.**, Matei, D., Dinescu, A., *Morpho ierarhic TiO<sub>2</sub> with plasmonic gold decoration for highly active photocatalysis properties*, Materials Letters, 2016, 162, p. 222-225

E1.29. Ghiță D., Brezeanu G., Stănică-Ezeanu D., **Cursaru D.**, *Hydrogen Production by Ethanol Steam Reforming*, Revista de Chimie, 2015, 66, 6, p. 847-850

E1.28. Brănoiu Gh., Mihai S., **Cursaru D.**, *Rietveld Structure Refinement of the Stibnite Crystals from Herja (Romania) using X-ray Powder Diffraction Data*, Revista de Chimie, 2015, 66, 6, p. 825-828

E1.27. Bogatu L., Onuțu I., **Cursaru D.**, *New alternative for conditioned oils reevaluation*, Journal of the Balkan Tribology Association, 2015, 21, 1, p. 222-232

E1.26. **Cursaru D.**, Ghiță D., Mihai S., *Effect of functionalization of single walled carbon nanotubes on antiwear properties of a mineral oil*, Digest Journal of Nanomaterials and Biostructures, 2014, 9, No 4, p. 1379-1388, ISSN 1842-3582

E1.25. Ghiță D., Stănică-Ezeanu D, Roșca P., **Cursaru D.**, *Performances of Al<sub>2</sub>O<sub>3</sub> supported catalysts for steam reforming process*, Revista de Chimie, 2014, 65, nr. 11, p. 1395-1398, ISSN 0034-7752

E1.24. Proscanu R., Ganea R., **Cursaru D.**, Matei V., Vasilievici G., *Effect of introduction of lanthanum cations in ZSM-5 crystallization step on ethanol conversion to hydrocarbons*, Revista de Chimie, 65, nr. 12, 2014, p. 1517-1520, ISSN 0034-7752

E1.23. **Cursaru D.**, Vizireanu S., Mihai S., Ghiță D., Stoica, D.S., Dinescu Gh., *Friction and wear properties of carbon nanowalls coatings*, Digest Journal of Nanomaterials and Biostructures, 9, No 3, 2014, p. 1105-1114, ISSN 1842-3582

E1.22. **Cursaru D.**, Brănoiu Gh., Ramadan I., Miculescu F., *Degradation of automotive materials upon exposure to sunflower biodiesel*, Industrial Crops and Products, 54, 2014, p. 149-158, ISSN 0926-6690 **WOS:000336340600021**

E1.21. **Cursaru D.**, Mihai S., *Evaluation of thermal stability of biodiesel synthesized from different edible oils by thermogravimetric analysis*, Revista de Chimie, Vol. 64, No. 10, 2013, p. 1156-1159, ISSN 0034-7752. **WOS:000327577600020**

E1.20. **Cursaru D.**, Ramadan I, Tănăsescu C, Rîpeanu R, *Study of the tribological behavior of different carbonaceous nanomaterials such as antiwear additives for an environmentally friendly lubricant*, Digest Journal of Nanomaterials and Biostructures, Vol. 8, No 2, 2013, p. 805-815, ISSN 1842-3582; **WOS:000322737500034**

E1.19. Vizireanu S, Stoyanova A, Filipescu M, **Cursaru D.**, Dinescu Gh., *Carbon nanowalls as suitable layers for lubricity improvement*, Digest Journal of Nanomaterials and Biostructures, Vol. 8, No 3, 2013, p. 1145-1156, ISSN 1842-3582; (autor de corespondență) **WOS:000327816300023**

E1.18. Neagu M., **Cursaru D.**, Movileanu D., Dinu F., *Thermal Energy Approach of a Conventional Propylene/propane Splitter II. Accuracy method for estimating thermal energy*, Revista de Chimie, Vol. 64, nr. 9, 2013 p. 1024-1027, ISSN 0034-7752. **WOS:000326855900021**

E1.17. Neagu M., **Cursaru D.**, *Thermal Energy Approach of a Conventional Propylene/propane Splitter. I. Graphical correlation*, Revista de Chimie, Vol. 64, nr. 8, 2013 p. 880-885, ISSN 0034-7752.

E1.16. **Cursaru D.**, Neagu M., Bogatu L., *Investigations on the oxidation stability of biodiesel synthesized from different vegetable oils*, Revista de Chimie, Vol. 64, nr. 4, 2013, p. 438-441, ISSN 0034-7752. **WOS:000318326600019**

E1.15. **Cursaru D.**, Neagu M., *Effect of biodiesel from sunflower oil on diesel engine performances and exhaust emissions*, Revista de Chimie, Vol. 64, nr. 3, 2013, p. 317-320, ISSN 0034-7752. **WOS:000319179300022**

E1.14. Proșcanu R., Ganea R., Matei V., **Cursaru D.**, *Synthesis and characterization of ZSM-5 zeolite from amorphous sodium aluminosilicate dry gel*, Revista de Chimie, Vol. 64, nr. 2, 2013, p. 202-204, ISSN 0034-7752. **WOS:000315756400019**

E1.13. Neagu M., **Cursaru D.**, *Bioethanol dehydration by extractive distillation with propylene glycol entrainer. A preliminary case study*, Revista de Chimie, Vol. 64, nr. 1, 2013, p. 92-94, ISSN 0034-7752. **WOS:000315934900017**

E1.12. Ghiță D., Stănică-Ezeanu D, **Cursaru D.**, Roșca P., *Pt Supported Catalysts for Steam Reforming Reaction*, Revista de Chimie, Vol. 63, nr. 12, 2012, p. 1296-1300, ISSN 0034-7752. **WOS:000313229100019**

E1.11. **Cursaru D.**, Mihai S., *Corrosion behavior of automotive materials in biodiesel from sunflower oil*, Revista de Chimie, Vol. 63, nr. 9, 2012, p. 945-948, ISSN 0034-7752 . **WOS:000310928900018**

E1.10. **Cursaru D.**, Andronescu C, Pîrvu C, Rîpeanu R, *The efficiency of Co-based single wall carbon nanotubes (SWNTs) in comparison with a commercial additive as AW and EP additives to mineral base oil*, Wear, 290-291, 2012, p. 133-139, ISSN 00431648, **DOI: 10.1016/j.wear.2012.04.019**.

E1.9. **Cursaru D.**, Tănăsescu C., *Improving of diesel fuel lubricity by fatty acid esters derived from palm oil*, Revista de Chimie, Vol. 63, nr. 8, 2012, p. 835-838, ISSN 0034-7752. **WOS:000309782900019**

E1.8. Trăistaru G., Covaliu I.C., Gallios G.P., **Cursaru D.**, Jitaru I., *Removal of nitrate from water by two types of catalysts: Characterization and sorption studies*, Revista de Chimie, 2012, Vol. 63, nr. 3, 2012, p. 268-271, ISSN 0034-7752. **WOS:000303091400006**

E1.7. Trăistaru G., Covaliu I. C., Matei V., **Cursaru D.**, Jitaru, I., *Synthesis and characterization of NiTiO<sub>3</sub> and NiFe<sub>2</sub>O<sub>4</sub> as catalyst in toluene oxidation*, in Digest Journal of Nanomaterials and Biostructures, Vol. 6, No 3, 2011, p. 1257-1263, ISSN 1842–3582; **WOS:000297986100042**

E1.6. **Cursaru D.**, Enescu D., Ciuparu D., *Control of (n,m) selectivity in single wall carbon nanotubes (SWNT) growth by varying the Co-Ni ratio in bimetallic Co-Ni-MCM 41 catalysts*, Revista de Chimie, Vol. 62, nr. 8, 2011, p. 792-798, ISSN 0034-7752. **WOS:000293807200007**

E1.5. Trăistaru G., Covaliu I.C., Oprea O., Matei V., Matei D., **Cursaru D.**, Jitaru I., *MTiO<sub>3</sub> (M=Cu, Ni) as catalysts in toluene oxidation*, Revista de Chimie, Vol. 62, nr. 8, 2011, p.773-776, ISSN 0034-7752. **WOS:000293807200003**

E1.4. **Cursaru D.**, Kunz U., *Kinetic investigation on direct hydration of n-butene in a multiphase reactor*, Revista de Chimie, Vol. 61, nr. 12, 2010, p. 1245-1253, ISSN 0034-7752; **WOS:000288339300023**

E1.3. Stancu, M., **Cursaru, D.**, Manta, A.M., Grigore, R., Stamatina, I., Ciuparu, D., *Synthesis of single walled carbon nanotubes (SWNT) by chemical vapour deposition on MCM-41 supported Ni catalysts obtained by incorporation and impregnation*, Revista de Chimie, Vol. 61, nr. 6, 2010, p.604-607, ISSN 0034-7752. **WOS:000279757800018**

E1.2. **Petre, D.** *Investigations on secondary butanol extraction by supercritical butene*, Revista de Chimie, Vol. 58, nr. 8, 2007, p. 833-837, ISSN 0034-7752. **WOS:000249456200027**

E1.1. Tănăsescu, C., **Petre D**, Stănică-Ezeanu, D., Brebeanu, Gh., Popa, M., *Process for re-refining waste lubricating oil*, Revista de Chimie, 2003, vol. 54. nr.6, 2003, p 522-524, ISSN 0034-7752; **WOS:000184448100014**

## **E2. Articole publicate în reviste de specialitate necotate ISI**

E2.14. **Cursaru D.**, Tănăsescu C., *Co-SWNTs-like material as antiwear and extreme pressure additive for biodegradable lubricants*, Buletinul UPG, Vol. LXII, 2012, Seria Tehnică, Nr. 1/2012

E2.13. **Cursaru D.**, Manta, A.M., Ghiță, D., Tănăsescu, C., *An alternative route for biodiesel synthesis from bioethanol*, Buletinul UPG, Vol. LXII, 2010, Seria Tehnică, Nr. 3A/2010

E2.12. Teodoriu, C., **Cursaru, D.**, Bourne, D., *Investigations on API Modified Thread Compound Properties with respect to sealing capacity of open type threads*, Buletinul UPG, Vol. LXII, 2010, Seria Tehnica, Nr. 3A/2010

E2.11. Bogatu, L., Petre, I., Marin, A., Tănăsescu, C., **Petre, D.**, Antonescu, N.N., Mirci, L., *Hydraulic oils from regenerable feed stocks with a low environmental impact*, Acta Tribologica, vol.17, 13-16, 2009, ISSN 1220-8434

E2.10. Tănăsescu, C., **Petre, D.**, Bogatu, L., Antonescu, N.N., *Industrial gear oils from regenerable feed stocks*, Analele Universității Dunărea de Jos, VIII, seria Tribologie, 2007, p157-160, 12-2008

E2.8. **Cursaru, D.**, Tănăsescu, C., Stănică-Ezeanu, D., *Improving the lubricity of gas oils by BioDiesel additivation*, Buletinul UPG, Vol. LX, 2008, Seria Tehnică, Nr. 4B/2008

E2.7. Dogariu, A., **Cursaru, D.**, Ciuparu, D., *Synthesis and characterization of manganese catalyst incorporated in MCM-41 molecular sieve*, - Buletinul UPG, Vol. LX, 2008, Seria Tehnică, Nr. 4B/2008.

E2.6. **Petre, D.** (2006).- *An inferential method for VLE prediction- application for n-butene-water-secondary butanol mixtures*, Symposium on Process Control SPC-2003 Proceedings, Buletinul UPG, Vol. LVIII, Seria Tehnică, Nr. 1/2006.

E2.5. Rădulescu, G., **Petre, D.** *Distillation Processes Modeling and Dynamic Simulation – A Critical Survey*, Symposium on Process Control SPC-2003 Proceedings, Buletinul UPG, Vol. LV, 2003, Seria Tehnică, Nr. 2/2003.

E2.4. **Petre, D.**, Rădulescu, G., Tănăsescu, C. *Computer-Aided Optimal Method for Lubricating Oil Mixtures*, Symposium on Process Control SPC-2003 Proceedings, Buletinul UPG, Vol. LV, 2003, Seria Tehnică, Nr. 2/2003.

E2.3. Matei, V., Patron, L., Matei, D., Suci, C., **Petre D.**, *Study of some hydrocarbons oxidation over mixed oxides catalysts spinel and perovskite type*, Progress in Catalysis, Vol. 11, Nr. 1-2, 2002;

E2.2. Tănăsescu, C., **Petre, D.**, Boianu, B., Paisa, C., *Aditivi pentru deparafinarea uleiurilor*, Buletinul UPG volumul sesiunii „35 de ani de activitate a Universității Petrol-Gaze la Ploiești”, noiembrie, 2002.

E2.1. Matei, G., **Petre, D.**, Matei, V., Enache, D., *Studiul experimental al oxidării etanului la acid acetic pe catalizator de tip oxizi de metale tranzitionale pe suport titanie*, Buletinul UPG, suplimentul Buletinului UPG, Ploiești, 1999, p.125;

## F) PUBLICAȚII APĂRUTE ÎN EXTENSO/REZUMAT LA CONFERINȚE INTERNAȚIONALE DE SPECIALITATE

F47. Giagkas N., Vizireanu S., **Cursaru D. L.**, (2023) The influence of the synthesis techniques on the nitride coatings, The 5th International Colloquium Energy and Environmental Protection, 9-10.11.2023, Ploiești, Romania

F46. Micu I., Nasr J., **Cursaru D.L.**, (2023) Study regarding enhancement of antiwear properties of a bio-grease, by using carbon nanomaterials based additives, The 5th International Colloquium Energy and Environmental Protection, 9-10.11.2023, Ploiești, Romania

F45. Nasr J., **Cursaru D.L.**, (2023) The performance of different carbon-based nanoparticles as additives in different base oils (mineral and vegetable) and oil blends, The 5th International Colloquium Energy and Environmental Protection, 9-10.11.2023, Ploiești, Romania

F44. Mihai S., **Cursaru D.L.**, Bondarev, A., Usman A.K., Matei D., (2023) Facile synthesis of TiO<sub>2</sub> nanowires decorated with gold nanoparticles in microwave field for photocatalytic degradation of methylene blue, The 5th International Colloquium Energy and Environmental Protection, 9-10.11.2023, Ploiești, Romania

F43. Usman A.K., **Cursaru D.L.**, Mihai S., Matei D., (2023) Pt-BiFeO<sub>3</sub>-embedded O-doped g-C<sub>3</sub>N<sub>4</sub>: A step-scheme heterostructured photocatalyst with superior visible-light performance on dye mineralization, The 5th International Colloquium Energy and Environmental Protection, 9-10.11.2023, Ploiești, Romania

F42. Matei D., Usman A.K., **Cursaru D.L.**, Mihai S., (2023) Photocatalytic Degradation of Methylene Blue over Ru-ZnO/SBA-15 catalyst, The 5th International Colloquium Energy and Environmental Protection, 9-10.11.2023, Ploiești, Romania

F41. Usman A.K., **Cursaru D.L.**, Mihai S., Matei D., (2023) Visible-light-driven oxygen-and-phosphorous co-doped polymeric g-C<sub>3</sub>N<sub>4</sub> composites for degradation of RhB, The 5th International Colloquium Energy and Environmental Protection, 9-10.11.2023, Ploiești, Romania

F40. Usman A.K., **Cursaru D.L.**, Mihai S., Matei D., (2023) Construction of Pt@BiFeO<sub>3</sub>/O-g-C<sub>3</sub>N<sub>4</sub> Heterojunction for Efficient Rhodamine B. Photodegradation Driven by Visible Light, The 4<sup>th</sup> International Conference on Symmetry, 20-23 June, Barcelona, Spain

F39. Mihai S., **Cursaru D.L.**, Usman A.K., (2022) A Modified Sol-Gel Synthesis of Anatase TiO<sub>2</sub>-Au Hybrid Nanosheets Along {001} Orientation For Enhanced Photocatalytic Degradation of Ibuprofen, 13th International Symposium of the Romanian Catalysis Society, RomCat 2022, 22-24 iunie, Băile Govora, Romania

F38. Postelnicu Mihai Ion, **Cursaru Diana-Luciana** (2020), Light olefins recovery by oligomerization process in order to obtain fuels, 4<sup>th</sup> International Colloquium Energy and Environmental Protection, 4-6.11.2020, Ploiești, Romania. <http://tppconferinte.upg-ploiesti.ro/>

F37. Mocanu (Jora) Maria Narcisa, **Cursaru Diana**, Manta Ana Maria, Msheik Malek, Nassreddine Salim (2020), A cheaper and cleaner alternative raw material for biodiesel synthesis, 4<sup>th</sup> International Colloquium Energy and Environmental Protection, 4-6.11.2020, Ploiești, Romania. <http://tppconferinte.upg-ploiesti.ro/>

F36. Giagkas Nikolaos, **Cursaru Diana**, Vizireanu Sorin, Mihai Sonia (2020), Tribological properties of Zr and ZrN coatings, 4<sup>th</sup> International Colloquium Energy and Environmental Protection, 4-6.11.2020, Ploiești, Romania. <http://tppconferinte.upg-ploiesti.ro/>

F35. Micu Iuliana, Stan Răzvan, **Cursaru Diana** (2020), Synthesis of a sodium grease by using alternative raw materials, 4<sup>th</sup> International Colloquium Energy and Environmental Protection, 4-6.11.2020, Ploiești, Romania. <http://tppconferinte.upg-ploiesti.ro/>

F34. Diana Cursaru, Decarbonizing and desulfurization of maritime fuels – challenges, Climate needs action: workshop on achieving low carbon transport in cities, 3-4.09.2020 online

F33. Khoury Nivine, Nassreddine Salim, Riachi Bassam, **Cursaru Diana**, Juganaru Traian (2018), Catalytic hydroprocessing of light cycle oil - vegetable oil mixture for biofuels production, 3<sup>rd</sup> International Colloquium Energy and Environmental Protection, 14-16.11.2018, Ploiești, Romania. <http://tppconferinte.upg-ploiesti.ro/>

F32. Giagkas Nikolaos, Ibrahim Ramadan, **Cursaru Diana**, Vizireanu Sorin., (2018), Improvement of antiwear properties by coating the steel surfaces and by lubricant additivation, 3<sup>rd</sup> International Colloquium Energy and Environmental Protection, 14-16.11.2018, Ploiești, Romania. <http://tppconferinte.upg-ploiesti.ro/>

F31. Msheik M., **Cursaru D.**, (2018), Biodiesel from edible oils: Pro and Cons, International Symposium “The Environment and The Industry”, SIMI 2018, 20-21.09.2018, Bucharest, Romania <http://www.simiecoind.ro/doi-httpdoi-org10-21698simi-2018-ab22biodiesel-from-edible-oils-pro-and-cons/> <http://doi.org/10.21698/simi.2018.ab22>

F30. Msheik M., **Cursaru D.**, Nassreddine S., Mihai S., (2018), Effectiveness of various amines on oxidation stability of palm oil biodiesel, 3<sup>rd</sup> International Colloquium Energy and Environmental Protection, 14-16.11.2018, Ploiești, Romania. <http://tppconferinte.upg-ploiesti.ro/>

F29. **Cursaru, D.**, (2016), Biodiesel: The Pros and Cons of Oil Substitutes, 2<sup>nd</sup> International Colloquium Energy and Environmental Protection, 9-11.11.2016, Ploiești, România.

F28. Kong, S.I., Matei, D., **Cursaru, D.**, Ciuparu, D., (2016), H<sub>3</sub>PW<sub>12</sub>O<sub>40</sub> Catalyst Supported on MCM-41 for the Synthesis of ETBE, 2<sup>nd</sup> International Colloquium Energy and Environmental Protection, 9-11.11.2016, Ploiești, România.

F27. **Cursaru, D.**, Ghiță D., Bogatu, L., (2015), *Investigations on corrosion potential of sunflower biodiesel over automotive materials-* 10<sup>th</sup> International Colloquium Fuels, 20-22.01.2015, Esslingen, Germany



<http://www.tae.de/de/kolloquien-symposien/maschinenbau-fahrzeugtechnik-und-tribologie/10th-international-colloquium-fuels.html>

F26. Ghiță D., **Cursaru, D.**, (2015), *Hydrogen production through steam reforming of ethanol using a ceria supported Pt catalyst* - 10<sup>th</sup> International Colloquium Fuels, 20-22.01.2015, Esslingen, Germany

<http://www.tae.de/de/kolloquien-symposien/maschinenbau-fahrzeugtechnik-und-tribologie/10th-international-colloquium-fuels.html>

F25. **Cursaru, D.**, Mihai, S., Bogatu, L., Vizireanu, S., (2014), *Friction and wear properties of carbon nanowalls coatings* - 1<sup>st</sup> International Colloquium Energy and Environmental Protection, 20-21.11.2014, Ploiești, România

<http://tppconferinte.upg-ploiesti.ro/>

F24. Bogatu, L., Onuțu, I., **Cursaru, D.**, (2014), *New alternative for regenerated oil reevaluation* - 8<sup>th</sup> International Conference on Tribology, 30.10-1.11.2014, Sinaia, România

<http://balkantrib.upg-ploiesti.ro/>

F23. **Cursaru, D.**, Vizireanu, S., Tănăsescu, C., (2013), *Fatty acid methyl esters, carbon nanotubes and carbon nanowalls coatings such as lubricity improvers of low sulfur diesel fuels*- 9<sup>th</sup> International Colloquium Fuels, 15-17.01.2013, Esslingen, Germany

<http://www.tae.de/de/kolloquien-symposien/maschinenbau-fahrzeugtechnik-und-tribologie/9th-international-colloquium-fuels.html>

F22. **Cursaru, D.**, Mihai, S., (2012), *Corrosion behaviors of automotive materials in biodiesel from sunflower oil*, 5<sup>th</sup> International Mechanical Engineering Forum, 20-22.06.2012, Praga, Cehia

<http://www.imef.cz/>

F21. **Cursaru, D.**, Tănăsescu, C., Rîpeanu, R., (2012), *The tribological behavior of a commercial additive and single wall carbon nanotubes (SWNTs) as antiwear and extreme pressure additives for SAE 20 base oil*, 18<sup>th</sup> International Colloquium Tribology, 10-12.01.2012, Esslingen, Germany

<http://www.tae.de/de/kolloquien-symposien/maschinenbau-fahrzeugtechnik-und-tribologie/18th-international-colloquium-tribology.html>

F20. Voicu, V., Mangourilos, V., **Cursaru, D.**, Ciuparu, D., (2011)- *Bio-derived Oxygenated Additives for Diesel Fuels and their Performance Observed on Model Engines*, 17<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering, 7-10 Septembrie, Sinaia

<http://www.ricce17.upb.ro/>

F19. **Cursaru, D.**, Tănăsescu, C., Mărdărescu, V., (2011), *Effect of biodiesel and alkyl ether on diesel engine emissions and performances*, Air Pollution 2011, 19-21.09.2011, Malta  
(*WIT Transactions on Ecology and the Environment, Volume 147, 2011, Pages 331-341, 19th International Conference on Modelling, Monitoring and Management of Air Pollution, AIR 2011;19 September 2011through21 September 2011;Code92382, ISSN: 17433541 ISBN: 978-184564528-1, DOI: 10.2495/AIR110311*)

F18. **Cursaru, D.**, Tănăsescu, C., Ciuparu, D., Rîpeanu, R., (2011), *The tribological properties of fatty acid methyl esters and single wall carbon nanotubes*-3<sup>rd</sup> European Conference on Tribology, 4<sup>th</sup> Vienna International Conference on Nano-Technology Viennano, 7-9.06.2011, Viena, Austria

<http://www.oetg.at/>

F17. **Cursaru, D.**, Manta, A.M., Ciuparu, D., (2011), *Fatty acid methyl esters, alkyl ethers of glycerol and carbon nanotubes as lubricity improvers of diesel fuels*- 8<sup>th</sup> International Colloquium Fuels, 18-19.01.2011, Esslingen, Germany

<http://www.tae.de/de/kolloquien-symposien/maschinenbau-fahrzeugtechnik-und-tribologie/8th-international-colloquium-fuels.html>

F16. **Cursaru, D.**, Tănăsescu, C., Manta, A., Ciuparu, D., (2010) *Effects of methyl esters derived from sunflower oil on lubricity and corrosion of diesel fuels*, CONAT 2010, 26-29 October, Braşov, Romania

F15. Manta, A.M., **Cursaru, D.**, Ciuparu, D., (2010) - *Catalytic activity on Mn ions in different coordination sites investigated by liquid phase ethyl benzene oxidation*, The 9th International Symposium of the Romanian Catalysis Society-RomCat 2010, 23-25.06.2010, Iaşi, România

F14. Bogatu, L., **Cursaru, D.**, Tănăsescu, C., Ciuparu, D., (2009) – *Improvement of the oxidation stability of vegetable oils with different degrees of unsaturation*, 16<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering, 19-22 Septembrie, Sinaia

F13. Dogariu, A., **Cursaru, D.**, Ciuparu, D., (2009)- *Redox Properties Of Manganese Ions On Surface Sites Of Different Curvatures Investigated By Liquid Phase Ethylbenzene Oxidation*, The 16th International Conference of Physical Chemistry RICCE 9-12 September, Sinaia,

F12. Dogariu, A., **Cursaru, D.**, Ciuparu, D., (2008)- *Synthesis, structure and redox properties of transition metal substituted mesoporous molecular sieves*, The 13th International Conference of Physical Chemistry ROMPHYSICHEM 3-5 September, 2008, Bucureşti

F11. **Cursaru, D.**, Tănăsescu, C., Juganaru, T., Ciuparu, D., Bogatu, L., (2008)- *Improving of tribological properties of vegetable oils by solid lubricant nanoparticles*, LubMat08 4-6 iunie, 2008, San Sebastián, Spania

F10. Tănăsescu, C., **Petre, D.**, Bogatu, L., Antonescu, N.N., (2007)-*Industrial gear oils from regenerable feed stocks*, ROTRIB the 10th International Conference on Tribology, 8-10 Noiembrie, Bucureşti.

F9. Bogatu, L., Petre, I., Marin, A., Tănăsescu, C., **Petre, D.**, Antonescu, N.N., Mirci, L., (2007) - *Hydraulic oils from regenerable feed stocks with low environmental impact*, ROTRIB the 10th International Conference on Tribology, 8-10 Noiembrie, Bucureşti.

F8. **Petre, D.**, Enescu, D., Zoican, C., Dogariu, A., Ciuparu, D., (2007)- *Synthesis and characterization of single wall carbon nanotubes grown on bimetallic Co-Ni-MCM-41 catalysts*, 15<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering, 19-22 Septembrie, Sinaia

F7. Enescu, D., **Petre, D.**, Zoican, C., Dogariu, A., Ciuparu, D., (2007)- *Synthesis and characterization of bimetallic Co-Ni catalysts incorporated in MCM-41 molecular sieves*, 15<sup>th</sup> Romanian International Conference on Chemistry and Chemical Engineering, 19-22 Septembrie, Sinaia

F6. **Petre, D.**, Enescu, D., Ciuparu, D., (2007)- *Hydrothermal synthesis of bimetallic Co-Ni-MCM-41 with different Co-Ni molar ratios for production of single wall carbon nanotubes*, International Symposium of the Romanian Catalysis Society, 21-23 iunie, Bucureşti

F5. Tănăsescu, C., **Petre, D.**, Jugănar, T., Ciuparu, D., Bogatu, L., (2007) - *Increasing the oxidation stability of vegetable oils by catalytic hydrogenation for application in lubrication*, 10th International Conference on Tribology, SerbiaTrib'07, Kragujevac, Serbia

F4. **Petre, D.**, Pfeuffer, B., Kunz, U., Hoffmann, U., Turek, T. (2006) – *Prozessintensivierung durch reaktive Extraktion: Untersuchungen zur Hydratisierung von n-Buten*, 39<sup>th</sup> Jahrestreffen Deutscher Katalytiker, 15-17 March 2006, Weimar, Germany

F3. Matei, V., Patron, L., Matei, D., Suci, C., **Petre, D.**, (2002) *Study of some hydrocarbons oxidation over mixed oxides catalysts spinel and perovskite type*, 3<sup>rd</sup> International Conference of Chemical Sciences for Sustainable Development, South-Eastern European Countries, sept. 22-25, 2002, Bucureşti

F2. Tănăsescu, C., **Petre D.**, Stănică-Ezeanu, D., Brebeanu, Gh., Popa, M., (2002)- *Process for re-refining waste lubricating oil*, 3<sup>rd</sup> International Conference of Chemical Sciences for Sustainable Development, South-Eastern European Countries, sept. 22-25, 2002, București

F1. Strățulă, C., Oprea, F., Petre, M., **Petre, D.**, (2000) – *Benzene removal from hexane cut using extractive distillation with NMP*, SiChem 2000 International Show, București, 2000, p.140;

## G) ALTE LUCRĂRI ȘI CONTRIBUȚII ȘTIINȚIFICE.

### G1. Postere

G7. Mihai S., **Cursaru D.L.**, Șomoghi, R., (2023) Au/TiO<sub>2</sub> nanosheets for photocatalytic degradation of methylene blue under simulated visible light, The 4<sup>th</sup> International Conference on Symmetry, 20-23 June, Barcelona, Spain

G6. Trăistaru, G.A., Covaliu, I., Matei, V., **Cursaru, D.**, Jitaru, I., *Nickel titanate obtained by autocombustion method as catalyst in toluene oxidation*, Global and regional environmental protection" Glorep 2010 (BENA), 26-28.11.2010, Timișoara, România

G5. Tănăsescu, C., **Cursaru, D.**, *Extraction of catalytic cracking gas oil with N-methyl pyrrolidone*, The 7th International Symposium of the Romanian Chemistry Society-ICOSECS7, 2010, 15-17.09.2010, București, România.

G4. Matei, V., Matei, D., **Cursaru, D.**, Airimioaei, M., Iordan, A.R., Palamaru, M., *The study of the toluene oxidation using catalysts of type nickel ferrite substituted with manganese*, The 7th International Symposium of the Romanian Chemistry Society-ICOSECS7, 2010, 15-17.09.2010, București, România.

G3. Manta, A.M., **Cursaru, D.**, Ciuparu, D., *Catalytic activity on Mn ions in different coordination sites investigated by liquid phase ethyl benzene oxidation*, The 9th International Symposium of the Romanian Catalysis Society-RomCat 2010, 23-25.06.2010, Iași, România.

G2. Tănăsescu, C., **Cursaru, D.**, Jugănar, T., Ciuparu, D., Tănăsescu, A., Bolocan, I., Bădulescu, R., *Technical alternative solutions for superior lubricants fabrication from renewable raw materials according to the European rules and environmental protection*, UPG 1 oct 2008, Ploiești

G1. Pfeuffer, B., **Petre, D.**, Kunz, U., Hoffmann, U., Turek, T., *Production of sec-butyl alcohol by olefin hydration – a candidate for process intensification?* ECCE 6, 2007, Copenhagen, Denmark.

## H) PROIECTE DE CERCETARE/DEZVOLTARE PE BAZĂ DE CONTRACT SAU GRANT

H33. **GISC-IME-11029/8.06.2023** Creșterea durabilității conductelor tehnologice prin utilizarea rășinilor epoxidice armate (ERC)-membru

H32. **GISC-TPP-NMOP-11095/8.06.2023** Fabricarea de noi fotocatalizatori de heterojuncțiune pe bază de oxizi metalici, pe suport de O-g-C<sub>3</sub>N<sub>4</sub>, pentru mineralizarea fotocatalitică a contaminanților organici-membru

H31. **CNFIS FDI 2020-0225** Internaționalizarea învățământului superior românesc, start-up pentru dezvoltarea și promovarea programelor de studii ale universității Petrol-Gaze din Ploiești- **director proiect**

H30. **12588/2018** Cercetări privind modul general de degradare a elementelor de interconectare a echipamentelor din componența instalației de tratare ape de injecție (Oprișenești) și soluții de creștere a durabilității acestora, beneficiar SC Transmarin, SRL-membru,

- H29. **TPP-POR 885/2017-2023** Modernizare, dotare și reconfigurare interioară la UPG Ploiești – corpul I, cod SMIS 125260–membru
- H28. **2/2016** Calcule privind determinarea coeficienților maximi de pierderi, specifici activităților de depozitare, desfășurate la depozitele grupului OMV-Petrom, Beneficiar PETRODESIGN S.A.- **director proiect**
- H27. **26/2015** Analize difracție de raze X pentru cenușă, Beneficiar Lukoil Energy&Gas Romania, Ploiești-**director proiect**
- H26. **14/2015** Caracterizarea fizico-chimică a condensatului de la sondele de extracție a gazelor, Beneficiar S.C. STRATUM ENERGY ROMÂNIA LLC WILMINGTON, Suc. Blejoi –membru
- H25. **12/2015** Calcule privind determinarea coeficienților maximi de pierderi, specifici activităților de depozitare, manipulare, distribuție și transport, desfășurate la rafinaria Petrotel-Lukoil Ploiești, Beneficiar PETRODESIGN S.A.-membru
- H24. **42/2014** Cercetări și expertiză tehnică privind evaluarea coeficienților de consum tehnologic, specifici activității de depozitare și manipulare produse petroliere finite, în depozitele și stațiile de carburanți aparținând Rompetrol Downstream, Beneficiar PETRODESIGN S.A.-membru
- H23. **34/2014** Studiu privind coeficienții maximi de consumuri tehnologice din rafinăriile Petromidia și Vega, Beneficiar PETRODESIGN S.A.-**director proiect**
- H22. **27/2014** Analize difracție de raze X pe carote, Beneficiar OMV-PETROM S.A-ICTP Câmpina-**director proiect**
- H21. **9/2014** Analize fizico-chimice pentru condensul de la sondele Caragele 7, Mecea 1, 2 și 3, Piscu 174, Alunu 91-Beneficiar ROMGAZ S.A.-membru
- H20. **5/2014** Analiza de difracție de raze X pentru o probă de oxizi Waelz; Beneficiar SC. SOMETRA SA. Copșa Mică, Sibiu-**director proiect**
- H19. **97/2013** (CTTIAP). Analize prin metoda termogravimetrică TG pentru probe sub formă de pulbere de la Copșa Mică, Beneficiar SOMETRA S.A-**director proiect**
- H18. **98/2013** (CTTIAP). Analize difracție de raze X pe carote, Beneficiar OMV-PETROM S.A-ICTP Câmpina-**director proiect**
- H17. **107/2013** (CTTIAP). Analiza tehnologică a instalației de hidrocracare din cadrul rafinării Midia Năvodari, Beneficiar PETRODESIGN S.A.-membru;
- H16. **168/2012** Analiza fizico-chimică a unor motorine- Beneficiar COMITETUL OLIMPIC SI SPORTIV ROMAN, COMPLEX OLIMPIC SYDNEI 2000-**director proiect**;
- H15. **33/2010** - Proces alternativ de fabricare a biodieselului din bioetanol. Noi metode de separare a biodieselului de glicerină-Beneficiar UEFISCSU-**director proiect**;
- H14. **150/2010** - Studiu privind evaluarea pierderilor de produse petroliere lichide în activitatea de descarcare, incarcare, depozitare, manipulare și transport- Beneficiar SC OLCHIM SA-membru;
- H13. **149/2010** - Studiu privind determinarea randamentelor reale pentru instalațiile tehnologice aferente diviziei petrochimice Bradu a societății comerciale SC OLCHIM SA- Beneficiar OLCHIM SA-membru;
- H12. **POSDRU/89/1.5/S/54785**-Nanomat- beneficiar UEFISCDI-membru;
- H11. **61/2007**-Traducere manual OMV-Beneficiar OMV Petrom –membru;
- H10. **61/2007-2009** - Sistem bioanalitic pt detecția reziduurilor de pesticide din matrici complexe de alimente, beneficiar UEFISCDI – membru;

H9. **62/2007-2009** - Sursa de energie miniaturizată pt electronica portabila obținuta prin asamblarea 3D a unor micro și nanosisteme complexe hibride, beneficiar UEFISCDI – membru;

H8. **63/2007-2009** - 2D Nano, beneficiar UEFISCDI-membru;

H7. **81 MCT / 746 2006-2008**- Soluții tehnice alternative pentru obținerea de lubrifianți performanți, din materii prime regenerabile - La nivelul exigentelor europene de competitivitate și protecția mediului, Grant CEEEX, sursa de finanțare Planul Național de Cercetare Dezvoltare, -membru;

H6. **PD 22/2005-2007** Materiale nanostructurate cu aplicații în cataliză, beneficiar UEFISCTU -membru;

H5. **2004-2006** Sinteza secundar butanolului-SASOL GmbH Moers, Germania-membru;

H4. **49/2001** Determinarea consumurilor tehnologice la activitatea de transport a țițeiului, gazolinei și a condensatului de la punctele de preluare până la rafinării- CONPET Ploiești-membru;

H3. **74/2001** Catalizatori de hidrogenare selectivă, obținuți prin otrăvire parțială-MATNANTECH- membru;

H2. **33/2001** Bitumuri din smoale petroliere de distilare-RELANSIN- membru;

H1. **25/2001** Aditivi pentru micșorarea conținutului de aerosoli rutieri în Municipiul Ploiești-membru

Data: 22.02.2024

Prof. dr. ing. habil. Cursaru Diana-Luciana