

LISTĂ DE LUCRĂRI

Lista celor 10 lucrări considerate cele mai relevante

1. Andreea Bondarev, **Sonia Mihai***, Abubakar Usman Katsina, Diana Luciana Cursaru, Danuta Matei, Veronica Satulu, Catalina Gheorghe, Gheorghe Brănoiu, Somoghi Raluca *A Facile Microwave-Promoted Formation of Highly Photoresponsive Au-decorated TiO₂ Nanorods for Enhanced Photo-degradation of Methylene Blue*, **Nanomaterials**, 2024, 14, 1780. <https://doi.org/10.3390/nano14221780>
2. **Mihai, S.**, Bondarev, A., Calin, C., Sirbu, EE., *Adsorbent Biomaterials Based on Natural Clays and Orange Peel Waste for the Removal of Anionic Dyes from Water*, **Processes**, 2024, 12(5), p.1032, ISSN 2227-9717 <https://doi.org/10.3390/pr12051032>
3. Abubakar Usman Katsina, Diana-Luciana Cursaru, Dănuța Matei, **Sonia Mihai**, *Effect of Morphology Modification of BiFeO₃ on Photocatalytic Efficacy of P-g-C₃N₄/BiFeO₃ Composites*, **Int. J. Mol. Sci.** 2024, 25, 4948. <https://doi.org/10.3390/ijms25094948>
4. Abubakar Usman Katsina, **Sonia Mihai**, Dănuța Matei, Diana-Luciana Cursaru, Raluca Șomoghi, Cristina Lavinia Nistor, *Construction of Pt@BiFeO₃ Xerogel-Supported O-g-C₃N₄ Heterojunction System for Enhanced Visible-Light Activity towards Photocatalytic Degradation of Rhodamine B*, **Gels**, 2023, 9, 471. <https://doi.org/10.3390/gels9060471>
5. Bondarev, A., Popovici, DR., Calin, C., **Mihai, S.**, Sîrbu, EE., Doukeh, R., *Black Tea Waste as Green Adsorbent for Nitrate Removal from Aqueous Solutions*, **Materials**, 2023, 16(12), p.4285, ISSN 1996-1944, <https://doi.org/10.3390/ma16124285>
6. 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>
7. **Mihai S.**, Cursaru D.L., Matei D., Manta A.M., Somoghi R., Branoiu G., *Rutile Ru_xTi_{1-x}O₂ nanobelts to enhance visible light activated photocatalytic activity*, **Scientific Reports**, 2019, 9, 18798 <https://doi.org/10.1038/s41598-019-55446-7>
8. **Mihai S.**, Cursaru L. D., Ghita D., Dinescu A., *Morpho ierarhic TiO₂ with plasmonic gold decoration for highly active photocatalysis properties*, **Materials Letters**, 2016, 162, p. 222-225, ISSN 0167-577X
9. Calin, C., Dinita, A., Branoiu G., Popovici D.R., Tanase, M., Sirbu E.E., Portoaca A.I., **Mihai S.** *Assessment of Environmental Impact on Glass-Fiber_Reinforced Polymer*

Pipes Mechanical and Tehermal Properties, **Polymers**, 2024, 16, 16, 1779.
<https://doi.org/10.3390/polym16131779>

10. Viorel Gheorghe, Catalina Gabriela Gheorghe, Daniela Roxana Popovici, **Sonia Mihai**, Raluca Elena Dragomir, Raluca Somoghi, *Reduction of Oxygen Production by Algal Cells in the Presence of O-Chlorobenzylidene Malononitrile*, **Bioengineering**, 2024, 11, 623. <https://doi.org/10.3390/bioengineering11060623>

Teza de doctorat

„Combinatii complexe cu tioliganzi”, 2010, Universitatea din Bucuresti

Articole publicate în reviste din fluxul științific internațional principal (ISI)

1. Andreea Bondarev, **Sonia Mihai***, Abubakar Usman Katsina, Diana Luciana Cursaru, Danuta Matei, Veronica Satulu, Catalina Gheorghe, Gheorghe Brănoiu, Somoghi Raluca *A Facile Microwave-Promoted Formation of Highly Photoresponsive Au-decorated TiO₂ Nanorods for Enhanced Photo-degradation of Methylene Blue*, **Nanomaterials**, 2024, 14, 1780. <https://doi.org/10.3390/nano14221780>
2. Calin, C., Dinita, A., Branoiu G., Popovici D.R., Tanase, M., Sirbu E.E., Portoaca A.I., **Mihai S.** *Assessment of Environmental Impact on Glass-Fiber_Reinforced Polymer Pipes Mechanical and Tehermal Properties*, **Polymers**, 2024, 16, 16, 1779. <https://doi.org/10.3390/polym16131779>
3. Viorel Gheorghe, Catalina Gabriela Gheorghe, Daniela Roxana Popovici, **Sonia Mihai**, Raluca Elena Dragomir, Raluca Somoghi, *Reduction of Oxygen Production by Algal Cells in the Presence of O-Chlorobenzylidene Malononitrile*, **Bioengineering**, 2024, 11, 623. <https://doi.org/10.3390/bioengineering11060623>
4. Raluca Somoghi, **Sonia Mihai**, George-Mihail Teodorescu, Zina Vuluga, Augusta Raluca Gabor, Cristian-Andi Nicolae, Bogdan Trică, Daniel Mihai Stănescu Vătău, Florin Oancea, Cătălin Marian Stănciulescu, *Influence of HNT-ZnO Nanofillers on the Performance of Epoxy Resin Composites for Marine Applications*, **Coatings**, 2024, 14, 532. <https://doi.org/10.3390/coatings14050532>
5. **Mihai, S.**, Bondarev, A., Calin, C., Sirbu, EE., *Adsorbent Biomaterials Based on Natural Clays and Orange Peel Waste for the Removal of Anionic Dyes from Water*, **Processes**, 2024, 12(5), p.1032, ISSN 2227-9717 <https://doi.org/10.3390/pr12051032>
6. Abubakar Usman Katsina, Diana-Luciana Cursaru, Dănuța Matei, **Sonia Mihai**, *Effect of Morphology Modification of BiFeO₃ on Photocatalytic Efficacy of P-g-C₃N₄/BiFeO₃ Composites*, **Int. J. Mol. Sci.** 2024, 25, 4948. <https://doi.org/10.3390/ijms25094948>

7. N. Giagkas, J. Nasr, D. Matei, S. Vizireanu, D. L. Cursaru, **S. Mihai**, *Preparation and tribologic properties of Ti and Zr nitride multilayer coatings*, **Digest Journal of Nanomaterials and Biostructures**, 2024, 19,2, 743.
8. Gheorghe, V., Gheorghe, CG., Popovici, DR., **Mihai, S.**, Calin, C., Sarbu, EE., Doukeh, R., Grigoriu, N., Toader, CN., Epure, C., Matei, V., *Synthesis, Purity Check, Hydrolysis and Removal of o-Chlorobenzyliden Malononitrile (CBM) by Biological Selective Media*, **Toxics**, 2023, 11(8), p.672, ISSN 2305-6304 <https://doi.org/10.3390/toxics11080672>
9. Abubakar Usman Katsina, **Sonia Mihai**, Dănuța Matei, Diana-Luciana Cursaru, Raluca Șomoghi, Cristina Lavinia Nistor, *Construction of Pt@BiFeO₃ Xerogel-Supported O-g-C₃N₄ Heterojunction System for Enhanced Visible-Light Activity towards Photocatalytic Degradation of Rhodamine B*, **Gels**, 2023, 9,471. <https://doi.org/10.3390/gels9060471>
10. Bondarev, A., Popovici, DR., Calin, C., **Mihai, S.**, Sîrbu, EE., Doukeh, R., *Black Tea Waste as Green Adsorbent for Nitrate Removal from Aqueous Solutions*, **Materials**, 2023, 16(12), p.4285, ISSN 1996-1944, <https://doi.org/10.3390/ma16124285>
11. 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>
12. 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}-TiO₂/Au Hybrid Nanocomposites for Enhanced Photodegradation of Organic Contaminants*, **Gels** 2022, 8, 728. <https://doi.org/10.3390/gels8110728>
13. Daniela Roxana Popovici, Mihaela Neagu, Cristina Maria Dutescu-Vasile, Dorin Bombos, **Sonia Mihai**, Elena-Emilia Oprescu *Adsorption of p-nitrophenol onto activated carbon prepared from fir sawdust: isotherm studies and error analysis*, **Reaction Kinetics, Mechanisms and Catalysis**, 2021, 133, <https://doi.org/10.1007/s11144-021-01997-8>
14. Giagkas, N., Micu I.F., Vizireanu, S., Vasile, N., Bită, B.I., Satulu, V., **Mihai, S.**, Manta A.M., Cursaru D.L. *Tribological properties of Zr.N coatings deposited by magnetron sputtering in reactive and no-reactive mode*, **Digest Journal of Naomaterials and Biostructures**, 2021, 16 92) pp.659-667.
15. **Mihai S.**, Cursaru D.L., Matei D., Manta A.M., Somoghi R., Branoiu G., *Rutile Ru_xTi_{1-x}O₂ nanobelts to enhance visible light activated photocatalytic activity*, **Scientific Reports**, 2019, 9, 18798 <https://doi.org/10.1038/s41598-019-55446-7>
16. Cursaru DL., 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 Additivation, **Digest Journal of Nanomaterials and Biostructures**, 2019, 14, No 4, p. 907-915.

17. Manta AM., Cursaru DL., **Mihai S.**, *The influence of synthesis conditions on the structural and redox properties of Mn-MCM-41*, **Digest Journal of Nanomaterials and Biostructures**, 2019, 14, No 3, p. 509-515.

18. Cursaru D.L., Nassreddine S., Riachi B., Neagu M., **Mihai S.**, Matei D., Branoiu G. *Impact of moisture on the corrosion behavior of copper and mild carbon steel in corn biodiesel*, **Corrosion Rev.**, 2018, 36, 6, p.559-574, ISSN 2191-0316.

19. Mihai S., Cursaru D.L., Matei D., Dinescu A., Stoica S.D., Vizireanu S., Dinescu G., *Carbon Nanowalls Decorated with Gold Nanoparticles for Surface-Enhanced Raman Spectroscopy*, **Digest Journal of Nanomaterials and Biostructures**, 2018, 13, No 3, p. 743-749, ISSN 1842-3582.

20. Cursaru L. D., Doicin B., **Mihai S.**, *Connection between Co/MCM-48, catalyst synthesis conditions and performances in the steam reforming process through artificial network*, **Digest Journal of Nanomaterials and Biostructures**, 2017, 12, No 2, p. 483-494, ISSN 1842-3582.

21. Bondarev, A., Pantea, O., **Mihai, S.**, Calin, C., Gheorghe, CG., *Removal of Cadmium from Aqueous Solutions Using Low Cost Sorbents*, **Revista de Chimie**, 2016, 67(4), p. 728-733, ISSN 0034-7752 WOS:000376549200029 (IF = 1.232)

22. 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, 1, p. 271-276, ISSN 1842-3582

23. Mihai S., Cursaru L. D., Ghita D., Dinescu A., *Morpho ierarhic TiO₂ with plasmonic gold decoration for highly active photocatalysis properties*, **Materials Letters**, 2016, 162, p. 222-225, ISSN 0167-577X

24. Gheorghe Branoiu, **Sonia Mihai**, Diana Cursaru, *Rietveld Structure Refinement of the Stibnite Crystals from Herja (Romania) using X-ray Powder Diffraction Data* **Rev.Chim.** (Bucharest), 2015, 66, 6, p.825-828, ISSN 0034-7752 WOS:000357403600014 (IF = 0.956)

25. 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

26. 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**, 2014, 9, No 3, p. 1105-1114, ISSN 1842-3582

27. D. Bombos, R. Ganea, V. Matei, C. Marinescu, A. Bondarev, **S. Mihai**, T. Natu, I. Tamas, *Modified Bentonite for Purification of Dyeing Waste Water*, **Rev.Chim.** (Bucharest), 2014, 65, 8, p.976-982, ISSN 0034-7752 WOS:000340867000024 (IF = 0.810)
28. Calin, C., Scaeteanu, G., Pantea, O., Ilie, L., Bondarev, A., **Mihai, S.**, *Influence of Dithiocarbamates used for Phytosanitary Treatments on the Microelement Contents from Vineyard Soil in Tohani Region of Romania*, **Revista de Chimie**, 2014, 65(4), p. 497-501, ISSN 0034-7752 WOS:000338605100023 (IF = 0.810)
29. **Mihai, S.**, *Synthesis of Gold Nanoparticles Using Schiff Base*, **Acta Phys. Pol A**, 2013, 123, 2, p. 254-255, ISSN 1898-794X
30. Cursaru D., **Mihai S.**, *Evaluation of thermal stability of biodiesel synthesized from different edible oils by thermogravimetric analysis*, **Revista de Chimie**, 2013, 64, nr. 10, p. 1156-1159, ISSN 0034-7752. WOS:000327577600020 (IF = 0.677)
31. **Mihai S.**, Bondarev A., Negoiu M., *Complexes of Pt(II) and Pd(II) with Symmetrical Bipodal N, N-bis-antipyrine-N' pyridinethioureas*, **Rev.Chim.** (Bucharest), 2013, 64, 2, p.191-195, ISSN 0034-7752. WOS:000315756400016 (IF = 0.677)
32. **Mihai S.**, Malaiesteanu, M., *Size-dependent Antibacterial of Gold Colloids*, **Rev.Chim.** (Bucharest), 2013, 64, 1, p.105-107, ISSN 0034-7752. WOS:000315934900020
33. Cursaru D., **Mihai S.**, *Corrosion behavior of automotive materials in biodiesel from sunflower oil*, **Revista de Chimie**, 2012, Vol. 63, nr. 9, p. 945-948, ISSN 0034-7752. WOS:000310928900018 (IF = 0.538)
34. **S. Mihai**, M. Negoiu, *Synthesis characterization and antitumor activity of platinum (II), palladium (II), gold (III), silver (II), cooper (II), rhodium (III), ruthenium(III) complexes with N-antipyrine N' benzoylthiourea*, **Rev.Chim.** (Bucharest), 2012, 63, 7, p. 697-702, ISSN 0034-7752 WOS:000308731500010 (IF = 0.538)
35. A Bondarev, **S Mihai**, O Pantea, S Neagoe, *Use of biopolymers for the removal of metal ion contaminants from water*, **Macromolecular Symposia**, 2011, 303, 1, p. 78-84, ISSN 1022-1360
36. Andreea Bondarev, Flavian Cuiban, **Sonia Mihai**, *Synthesis and Characterization of N-acylation and N-alkylation Derivatives of 4-azasebacic Acid and Diethyl-4-azasebacate* **Rev.Chim.** (Bucharest), 2009, 60, 11, p.1155-1159, ISSN 0034-7752. WOS:000273802400010 (IF = 0.469)
37. **Sonia Mihai**, Maria Negoiu, Andreea Bondarev, *Synthesis, Characterization and Biological Activity of Some Novel Metal Complexes of Schiff Base Derived from p-phenyldiamine and 2-thiophene Carboxaldehyde* **Rev.Chim.** (Bucharest), 2009, 60, 8, p.778-782, ISSN 0034-7752. WOS:000269163700010 (IF = 0.469)

38. **Sonia Mihai**, Maria Negoiu, *Synthesis and Characterization of Ni (II), Pt (IV), Pd (II), Co (II), Au (III), Cu (II) Complexes with Mixed Ligands*, Rev.Chim. (Bucharest), 2009, 60, 3, p.222-225, ISSN 0034-7752. WOS:000265053000003 (IF = 0.469)
39. Negoiu M., **Mihai S.**, Neagoe S., Pantea O., *Co(II), Cd(II), Pd(II), Rh(III) and Pt(IV) complex combinations with thiuram* **Rev.Chim.** (Bucharest), 2007, 58, 10, p.866-869, ISSN 0034-7752. WOS:000254644400002 (IF = 0.26)

Lucrări prezentate la conferințe internaționale

1. **Sonia Mihai**, Abubakar Usman Katsina, Diana Cursaru, Danuta Matei, Andreea Bondarev, Raluca Somoghi, Gheorghe Branoiu, *Au@TiO₂ nanorods for photocatalytic degradation of methylene blue under simulated visible light*, 2024 Spring Meeting, 27-31 May 2024 Strasbourg, France
2. **Sonia Mihai**, Diana Cursaru, Raluca Somoghi, *Au/TiO₂ nanosheets for photocatalytic degradation of methylene blue under simulated visible light*, The 4th International Conference on Symmetry 21-23 June 2023, Barcelona, Spain
3. Usman A.K., Cursaru D.L., **Mihai S.**, Matei D., *Visible-light-driven oxygen-and-phosphorous co-doped polymeric g-C₃N₄ composites for degradation of RhB*, The 5th International Colloquium Energy and Environmental Protection, 9-10.11.2023, Ploiești, Romania
4. **Mihai Sonia**, Cursaru Diana, Dinescu Adrian, Vizireanu Sorin (2014), *Gold Nanoparticles on Carbon Nanowalls for Surface-Enhanced Raman Spectroscopy*- 1st International Colloquium Energy and Environmental Protection, 20-21.11.2014, Ploiești, România <http://tppconferinte.upg-ploiesti.ro/>
5. Cursaru, D., **Mihai, S.**, Bogatu, L., Vizireanu, S., (2014), *Friction and wear properties of carbon nanowalls coatings* - 1st International Colloquium Energy and Environmental Protection, 20-21.11.2014, Ploiești, România <http://tppconferinte.upg-ploiesti.ro/>
6. **S. Mihai**, C. Andronescu, A. Dinescu, S. Vizireanu, G. Dinescu, D. Ciuparu, *Gold nanoparticles on carbon nanowalls for surface-enhanced Raman spectroscopy*, Third International Conference on Multifunctional Hybrid and Nanomaterial, Martie 2013, Sorrento Italia https://elsevier.conference-services.net/resources/247/3159/pdf/HYMA2013_0406.pdf
7. Cursaru, D., **Mihai, S.**, (2012), *Corrosion behaviors of automotive materials in biodiesel from sunflower oil*, 5th International Mechanical Engineering Forum, 20-22.06.2012, Praga, Cehia <http://www.imef.cz/>

8. **S. Mihai**, O. Pantea, *Assembling Gold Nanoparticles for Surface-Enhanced Raman Spectroscopy*, 4th International Conference Nanocon, Brno Cehia, 23-25.10.2012 <http://nanocon2012.tanger.cz/en/view-list-of-papers/953-assembling-gold-nanoparticles-for-surface-enhanced-raman-spectroscopy/>
9. **S. Mihai**, O. Pantea, D. Ciuparu, *Synthesis and characterization of hybrid inorganic – organic materials type $[Co_4(CO)_aX_b]$* , Second International Conference on Multifunctional, Hybrid and Nanomaterials, Strasbourg, Franta 2011.
10. A. Bondarev, **S. Mihai**, D. Popovici, S. Neagoe, O. Pantea, *Electrochemical Study of the Effect of Radioactive Waste on the Corrosion Behavior of Some Alloys*, ElecNano - 7th ECHEMS, 23-26 May 2011, Paris, France, www.elecnano.univ-paris-diderot.fr, Paris, Franta 2011
11. C. Dutescu, D. Popovici, A. Bondarev, **S. Mihai**, *Correlations between the Biodiesel Properties and Oxidation Degree*, Tagung Festkörperanalytik, Viena, 4 -6 July 2011, www.cta.tuwien.ac.at/fka16, Viena, Austria 2011
12. A. Bondarev, **S. Mihai**, D. Popovici, S. Neagoe, O. Pantea, *Heavy Metals Adsorption using Biopolymer Microspheres*, Tagung Festkörperanalytik, Viena, 4 -6 July 2011, www.cta.tuwien.ac.at/fka16, Viena, Austria 2011
13. **S. Mihai**, O. Pântea, D. Ciuparu, *Self assembled gold nanoparticles for optoelectronics applications*, Tagung Festkörperanalytik, Viena, 4 -6 July 2011, www.cta.tuwien.ac.at/fka16, Viena, Austria 2011
14. A. Bondarev, **S. Mihai**, D. Popovici, O. Pântea, *Biomaterials for Heavy Metals Adsorption, Biomaterials for Heavy Metals Adsorption*, 15th International Biodeterioration and Biodegradation Symposium, Viena, 19-24 Sept. 2011, www.biotec.boku.ac.at
15. Calin, G. Vasile, O. Pântea, A. Bondarev, **S. Mihai**, *The influence of dithiocarbamates used for phytosanitary treatments of vineyard on the microelements contents from soil*, 15th International Biodeterioration and Biodegradation Symposium, Viena, 19-24 Sept. 2011, www.biotec.boku.ac.at
16. **S. Mihai**, O. Pântea, A. Bondarev, D. Ciuparu, *Gold Shell Architectures and optoelectronic properties*, 15th International Biodeterioration and Biodegradation Symposium, Viena, 19-24 Sept. 2011, www.biotec.boku.ac.at
17. **S. Mihai**, O. Pantea, S. Neagoe, D. Ciuparu, *Synthesis and characterization of gold shell architectures and catalytic applications*, ElecNano - 7th ECHEMS, 23-26 May 2011, Paris, France, www.elecnano.univ-paris-diderot.fr
18. **S. Mihai**, S. Vizireanu, O. Pantea, A. Dinescu, D. Ciuparu, *Synthesis and Characterization of Advanced Materials Based of Nanogold on carbon Nanowall*

templates, 10th International Conference on Materials Chemistry (MC10), Manchester United Kingdom 2011

19. **S.Mihai**, O.Pantea, S.Neagoe, D.Ghita, A.Bondarev, *Synthesis of Gold Nanoparticles with Catalytic Applications*, International Conference on Nanoscience + Technology (ICN+T2012), Paris, 23-27 Iulie 2012
20. **S. Mihai**, S. Vizireanu, O. Pantea, A. Dinescu, Gh. Dinescu, D. Ciuparu, *Advanced Materials Based of Nanogold on carbon nanowall Templates*, European Materials Research Society EMRS-2012, mai 2012, Strasbourg, Franta.
21. **S. Mihai**, O. Pantea, *Assembling Gold Nanoparticles for Surface-Enhanced Raman Spectroscopy*, 4th International Conference Nanocon, Brno Cehia 2012, <http://nanocon2013.tanger.cz/files/proceedings/04/reports/953.pdf>
22. A.Bondarev, F. Cuiban, **S. Mihai**, *N-alkylation of some N-β-cyanoethyl-ε-caprolactam derivatives and their surfactant properties*, The 13th Brazilian Meeting on organic synthesis, Sao Petro, Brazilia BMOS, 31 august-4 sept. 2009

Listă contracte de cercetare

Nr. crt.	Denumire	Date contract
1.	Fabricarea de noi fotocatalizatori de heterojoncțiune pe bază de oxizi metalici pe suport de O-g-C ₃ N ₄ , pentru mineralizarea fotocatalitică a contaminanților organici	Contract GISC TPP nr. 11095/08.06.2023 - director
2.	Analiza materialului de bază și a îmbinării sudate la o țevă din oțel cu DN400. Contract de prestări - servicii	Nr. 25411/15.11.2023 S.C. P.M.T. HAAG S.R.L. - membru
3.	Analiza tevilor din fasciculul tubular al unui schimbător de căldură” Contract de prestări - servicii	nr. 9585/22.05.2023 CONFIND - membru
4.	Arhitecturi Performante – Microincapsulări de uleiuri esențiale în polimeri biocompatibili (2009)	Program PN II – Capacitati Modulul III - director
5.	Câmpuri de microunde utilizate la sinteza unor polimeri antiscalanți și anticorozivi pentru protecția instalațiilor industriale	contract nr. 55 / 2006 Programul Cercetare de Excelență - membru
6.	Noi procedee de valorificare a glicerinei rezultată la sinteza biodieselului	contract nr. 66 / 2007 Program PN II –P4 - membru

7.	Valorificarea glicerinei rezultată la sinteza biodieselului în direcția obținerii de combustibili cu ardere nepoluantă și de aditivi antigheață	contract nr. 67 / 2007 Program PN II –P4 - membru
8.	Depoluarea apelor reziduale cu grad ridicat de pericolozitate si retinerea in siguranta a ionilor metalici pe tufuri zeolitice modificate	nr. 48/2008 Program PN II –P4 -membru
9.	Valorificarea n-butanolului de fermentatie indirecta in directia fabricarii de combustibili ecologici	Nr. 49/2008 Program PN II –P4 - membru
10.	Dezvoltarea unui laborator pentru controlul emisiilor de compuși organici volatili	contract 44 / 2006 Program Cercetare Excelenta -membru
11.	Studiul eliminării soluțiilor uzate de NaOH din instalațiile MEROX si EXOMER - 2010	OMV Petrom - membru

Conf. Dr. Mihai Sonia

