

Curriculum vitae Europass

Nume / Prenume **TUTUNEA DRAGOȘ**

Publicații:

Cărți publicate în edituri:

1. Cernăianu, C. D., Stăncuț, E., **Tutunea, D.**, Termotehnică și echipamente termice, Lucrări practice, Seria Termotehnica, 129 pag., Editura Universitaria, Craiova, 2009, ISBN 978-606-510-487-7.
2. Gherghina, G., **Tutunea, D.**, Gluga C., Noțiuni de Desen Tehnic Editura Sitech, Craiova, 2009, 245 pag. ISBN 978-606-530-630-1.
3. Popa, D., Gherghina, G., **Tutunea, D.**, Grafica asistată de calculator pentru construcții. Desenare, modelare și programare. Editura Sitech, Craiova, 2009, 343 pag. ISBN 978-606-530-726-1.
4. **Tutunea D.**, Cercetări privind utilizarea combustibililor alternativi în motoarele diesel pentru reducerea poluării, Editura Universitaria, 250 pag., Craiova 2013, ISBN 978-606-14-0593-0.
5. **Tutunea D.**, Poluare în transporturi, Editura Universitaria, 139 pag., Craiova 2013, ISBN 978-606-14-0668-5.
6. Brabete V., **Tutunea D.**, Staiculescu O., Ionescu I., Dragan C., Dima A., Abordări teoretico-metodologice privind costul calității în industria de automobile, Editura Sitech, 247 pag., Craiova 2014, ISBN 978-606-11-4298-9.
7. Gherghina, G., **Tutunea, D.**, Popa D., Desen tehnic, Teorie și Aplicații, Editura Sitech, 236 pag., Craiova 2015, ISBN 978-606-11-4981-0.
8. Popa D., Duta A., Sass L., Gherghina G., **Tutunea D.**, Stănescu G., Grafica asistată de calculator pentru construcții, Modelare și Programare, Editura Sitech, 363 pag., Craiova 2015, ISBN 978-606-11-5036-6.
9. **Tutunea D.**, Gherghina G., Îndrumar pentru lucrări practice de laborator, Editura Sitech, 85 pag., Craiova 2016, ISBN 978-606-11-5081-1.
10. **Tutunea D.**, Gherghina G., Popa D., Dima A., Desen tehnic și Infografică, Note de curs și aplicații de laborator, Editura Universitaria, 323 pg., Craiova 2017, ISBN 978-606-14-1109-2.
11. **Tutunea D.**, Infografică, Editura Sitech, 385 pag, Craiova 2017, ISBN 978-606-11-6106-5.
12. **Tutunea D.**, Popa D.L., Infografică. Aplicații în domeniul ingineriei mecanice, Editura Sitech, 326 pag, Craiova 2019, ISBN 978-606-11-7003-6.
13. Marinescu G., Popa D.L., **Tutunea D.** – Desen Tehnic. Curs și îndrumar de laborator, Editura Sitech, ISBN 978-60611-7372-3, Craiova, 285 pag. Craiova, 2020.
14. **Tutunea D.**, Elemente de mecatronică auto. Noțiuni teoretice și practice, Editura Sitech, ISBN 978-606-11-8231-2, 132 pag. Craiova, 2022.
15. **Tutunea D.**, Mecatronica autovehiculului. Noțiuni practice, Editura Sitech, ISBN 978-606-11-8543-6, 94 pag. Craiova, 2023.
16. **Tutunea D.**, The use of biodiesel in internal combustion engines. Case studies Romania, Academica Greifswald, ISBN 978-3-940237-72-9, 156 pag. 2024.

Cărți/îndrumare de laborator pentru uz didactic:

1. **Tutunea Dragoș**, Dumitru Ilie, Poluare în transporturi Îndrumar de laborator, Editura Sitech, 94 pag., Craiova, 2017.
2. Dumitru Ilie, **Tutunea Dragoș**, Dima Alexandru, Motoare Îndrumar de laborator, Editura Sitech, 140 pag., Craiova, 2017.
3. **Tutunea Dragoș**, Dumitru Ilie, Dima Alexandru, Functional design optimization of automobiles engines (in english), Editura Sitech, 2018, 95 pages.
4. **Tutunea Dragoș** Dumitru Ilie, Dima Alexandru, Lucrări de laborator Optimizare constructiv - funcțională a motoarelor de automobile, Editura Sitech, 2018, 116 pagini.
5. Dumitru Ilie, **Tutunea Dragoș**, Dima Alexandru, Motoare cu ardere internă. Elemente de dinamică, cinematică, calcul și construcție a motoarelor pentru automobile, 2018, 253 pag.
6. **Tutunea Dragoș**, Mecatronica autovehiculelor – note de curs, 2020, 89 pag.

Articole publicate în reviste cotate ISI

1. Bită, G., Grecu, **Tutunea, D.**, R., Popescu, A., Bica, M., Role of the Extract Obtained from Seeds of Vitis Vinifera on the Oxidative Stability of Biodiesel, Revista de Chimie, pp.1090 - 1093, 60, nr.10, 2009, ISSN: 0034-7752, [WOS:000272273600020](https://www.revistadechimie.ro/pdf/BITA%20MIH%2010.pdf), IF 0,552. <https://www.revistadechimie.ro/pdf/BITA%20MIH%2010.pdf>

2. Dumitru (Bita), G., Mihaela Gabriela Grecu, R., **Tutunea, D.**, Popescu, A., Bica, Physico-chemical Changes in Biodiesel during the Storage, Revista de Chimie, pp 882 – 885, Nr.9, 2010, ISSN: 0034-7752, WOS:000284137400017, IF 0,693. <https://www.revistadechimie.ro/pdf/DUMITRU%20BITA%20M.pdf%209%2010.pdf>
3. Grecu D.R., Biță M. G., **Tutunea D.**, Popescu A., Bică M., The importance of medicago sativa extract on the oxidative stability of biodiesel in the Journal of Environmental Protection and Ecology 13, No 2A, ISSN 1311-5065, pp 1061-1069, 2012, ISSN: 1311-5065, WOS:000310557400033, IF 0,259 <http://www.jepe-journal.info/vol-13-no-2a>
4. **Tutunea, D.**, Thermal investigation of biodiesel blends derived from rapeseed oil, Journal of Thermal Analysis and Calorimetry, ISSN 1388-6150, DOI 10.1007/s10973-012-2213-x, January 2013, Volume 111, Issue 1, pp 869-875, Springer, WOS:000313207400110. IF 2,206. <https://link.springer.com/article/10.1007/s10973-012-2213-x>
5. Dumitru M.G., **Tutunea D.**, Extraction and Determination of Physico-chemical Properties of Oil from Watermelon Seeds (Citrullus lanatus L) to Use in Internal Combustion Engines, Revista de chimie, 68, nr.11, Volume 2017, pp. 2676 – 2681, ISSN: 0034-7752, WOS:000416751800043, IF 1,412. <https://revistadechimie.ro/pdf/43%20DUMITRU%20MIHAELA%20%2011%2017.pdf>
6. Dumitru M.G., Badea D.N., **Tutunea D.**, Determination of physicochemical properties and emissions for different blends of biodiesel from watermelon(citrullus lanatus l.) seeds and diesel fuel, Revista de chimie, 68, nr.12, Volume 2017, pp. 2771 – 2775, ISSN: 0034-7752, WOS:000423261900009, IF 1,412. <https://www.revistadechimie.ro/pdf/9%20DUMITRU%20MIHAELA%2012%2017.pdf>
7. **Tutunea D.**, Study of the variation of kinematic viscosity and density of various biodiesel blends with temperature, Revista de chimie, 69, nr.7, Volume 2018, pp. 1645 – 1648, ISSN: 0034-7752, WOS:000444595700009, IF 1,412. <https://revistadechimie.ro/pdf/9%20TUTUNEA%207%2018.pdf>
8. Stanciu-Otat, O.V., Dumitru I., Racila L., **Tutunea D.**, Vehicle - pedestrian impact with analysis of pedestrians' lower limbs injuries, Revista Ingineria Automobilului, nr.66, pp.8-13, 2023. WOS:001156834100004, IF 0.01. <https://siar.ro/wp-content/uploads/2023/03/riA66.pdf>
9. Miritoiu C.M., Rosca S.A., **Tutunea D.**, Mechanical Properties of Composites Reinforced with Recycled Paper and Pine Needles Using Polymer Matrices Containing 50 to 70% Dammar Resin, BioResources, 20(2), 3884–3909, 2025. WOS:001476647800016. IF 1.3. <https://bioresources.cnr.ncsu.edu/resources/mechanical-properties-of-composites-reinforced-with-recycled-paper-and-pine-needles-using-polymer-matrices-containing-50-to-70-dammar-resin/>

Articole publicate în proceedingsuri ISI

1. Lungu, R., Borgazi, Lungu, M., Popa, D., **Tutunea, D.**, Calbureanu, M. New methods for the simulation with finite element of the human elbow. Recent Advances in Circuits, Systems and Signals, pp.. 45 – 50, ISSN: 1792-4324. International Conference on Circuits, Systems and Signals, Malta, September 15 – 17, 2010, ISBN: 978-960-474-226-4, ISSN: 1792-4324, WOS:000290360900021. <http://wseas.us/e-library/conferences/2010/Malta/CSS/CSS-03.pdf>
2. Calbureanu, M., Lungu, M., **Tutunea, D.**, Malciu, R., Dima, Al. Modeling with finite element the convective heat transfer in civil building EPS insulated walls. The 10th International Conference on Applied Computer Scienca (ACS'10), pp.79-84, Iwate, Japan, October 4-6, 2010, ISBN:978-960-474-231-8, ISSN: 1792-4863, WOS:000290364500020. <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.458.8974&rep=rep1&type=pdf>
3. Gherghina G., **Tutunea D.**, Popa D., Bogdan M., Lambrache N., The Method of Design and Manufacturing of the Gear Hobbing Cutter with Bulges, Applied Mechanics and Materials Vol. 657 (2014) pp. 13-17, doi:10.4028/www.scientific.net/AMM.657.13., ISBN:978-3-03835-275-4, ISSN: 1660-9336, WOS:000348898000003. <https://www.scientific.net/AMM.657.13>
4. Lungu, M., Lungu, R., **Tutunea, D.** Control of Aircraft Landing using the Dynamic Inversion and the H-inf Control. Proceedings of the 17th International Carpathian Control Conference (ICCC 2016), Tatranská Lomnica, Slovak Republic, May 29 - June 1, 2016, ISBN:978-1-4673-8606-7, pp. 461-466. WOS: 000389829000087. <https://ieeexplore.ieee.org/abstract/document/7501142>
5. Dumitru I., Racila L., **Tutunea D.**, Matei L., Dima A., Oprica A., Experimental Investigation of a Vehicle Behavior Using Different Complex Data Acquisition Systems, Conat 2016 International Congress of Automotive and Transport Engineering, pp. 136-143, DOI: 10.1007/978-3-319-45447-4_15, ISBN:978-3-319-45447-4, WOS:000390821400015. https://link.springer.com/chapter/10.1007/978-3-319-45447-4_15
6. **Tutunea D.** and Dumitru I., Analysis of performance and emissions of diesel engine using sunflower biodiesel, IOP Conf. Series: Materials Science and Engineering, IOP Publishing, Volume 252, 2017, DOI: 10.1088/1757-899X/252/1/012085, ISSN: 1757-8981, WOS:000419817200085. <https://iopscience.iop.org/article/10.1088/1757-899X/252/1/012085/pdf>
7. Dima A., Dumitru I., **Tutunea D.**, Evaluation of performance and emissions characteristics of methanol blend (gasohol) in a naturally aspirated spark ignition engine, IOP Publishing, Volume 252, 2017, DOI: 10.1088/1757-899X/252/1/012086, ISSN: 1757-8981, WOS:000419817200086. <https://iopscience.iop.org/article/10.1088/1757-899X/252/1/012086/pdf>
8. **Tutunea D.** and Gruia A., Emissions and performance of a single cylinder diesel engine using walnut-diesel blends, The 8th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conf. Series: Materials Science and Engineering, nr.444, 2018, doi:10.1088/1757-899X/444/8/082004, ISSN: 1757-8981, WOS:000467443600132. <https://iopscience.iop.org/article/10.1088/1757-899X/444/8/082004/pdf>
9. **Tutunea D.**, Dumitru I., Racila L., Otat O.V., Matei L., Geonea I., Characterization of sunflower oil biodiesel as alternative for diesel fuel, Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018), pp 172-180, Springer, WOS: 000578264900021 https://link.springer.com/chapter/10.1007/978-3-319-94409-8_21
10. Otat O.V., Otat V., **Tutunea D.**, Geonea I., Marinescu G., The Monitoring of the Submarine Effect in Frontal Collisions, at Different Impact Speeds and for the Driver's Out of Position Instances, Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018), WOS:000578264900093 <https://www.springerprofessional.de/en/the-monitoring-of-the-submarine-effect-in-frontal-collisions-at-16162940>

11. Geonea I., Dumitru N., Copilusi C., Dumitru I., Otat O.V., **Tutunea D.**, Theoretical and experimental analysis for the load capacity of the cone tightening assemblies, Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018), pp 437-445, Spingee, [WOS:000578264900051 https://link.springer.com/chapter/10.1007/978-3-319-94409-8_51](https://link.springer.com/chapter/10.1007/978-3-319-94409-8_51)
12. Fazal Um Min Allah, Bica M., **Tutunea D.**, Biodiesel production and sustainability challenge, Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018), pp 217 - 224, Spinger, [WOS: 000578264900026 https://link.springer.com/chapter/10.1007/978-3-319-94409-8_26](https://link.springer.com/chapter/10.1007/978-3-319-94409-8_26)
13. Cernaianu A., Cernaianu C., Popescu D., **Tutunea D.**, Studies on the cooling systems for the production of electricity through Seebeck effect with TEG elements, Proceedings of the 2018 International Conference on Applied and Theoretical Electricity – ICATE, pp 1-6, ISBN 978-1-5386-3806-4, DOI:10.1109/ICATE.2018.8551444, [WOS:000487278600063. https://ieeexplore.ieee.org/document/8551444](https://ieeexplore.ieee.org/document/8551444)
14. Racila L., Dumitru I., Matei L., Racila M., **Tutunea D.**, Geonea I., Solicitations in the Rear Axle Support of a Karting Frame. The 30th SIAR International Congress of Automotive and Transport Engineering. SMAT 2019. Springer, pp 607-613, 2020, [WOS:000528526600071. https://doi.org/10.1007/978-3-030-32564-0_71](https://doi.org/10.1007/978-3-030-32564-0_71)
15. Matei L., Dumitru I., Racila L., Racila M., **Tutunea D.**, Otat O., Construction of a Kart Chassis Through 3D Reconstruction Methods – Part 1 – Scanning and Alignment. The 30th SIAR International Congress of Automotive and Transport Engineering. SMAT 2019. Springer, pp 636-642, 2020, [WOS:000528526600074. https://doi.org/10.1007/978-3-030-32564-0_74](https://doi.org/10.1007/978-3-030-32564-0_74)
16. Matei L., Dumitru I., Racila L., Racila M., **Tutunea D.**, Otat O., Construction of a Kart Chassis Through 3D Reconstruction Methods – Part 2 – Reverse Engineering. The 30th SIAR International Congress of Automotive and Transport Engineering. SMAT 2019. Springer, pp 643-649, 2020, [WOS:000528526600075. https://doi.org/10.1007/978-3-030-32564-0_75](https://doi.org/10.1007/978-3-030-32564-0_75)
17. **Tutunea D.**, Dumitru I., Racila L., Otat O.V., Geonea I., Matei L., Rotea C., Experimental Stand to Evaluate Engine Mass Air Flow (MAF) Sensor. The 30th SIAR International Congress of Automotive and Transport Engineering. SMAT 2019. Springer, pp 26-30, 2020, [WOS:000528526600003. https://doi.org/10.1007/978-3-030-32564-0_3](https://doi.org/10.1007/978-3-030-32564-0_3)
18. Oțat O., Dumitru I., Oțat V., Matei L., **Tutunea D.**, Study Regarding the Impact Between a Vehicle and a Two-Wheel Vehicle. The 30th SIAR International Congress of Automotive and Transport Engineering. SMAT 2019. Springer, pp 383-391, 2020, [WOS:000528526600045. https://doi.org/10.1007/978-3-030-32564-0_45](https://doi.org/10.1007/978-3-030-32564-0_45)
19. Oțat O., Dumitru I., **Tutunea D.**, Matei L., Marinescu G., Theoretical and experimental considerations regarding the airbag system operation, 32ND International Congress Of SIAR Of Automotive And Transport Engineering, EAEC-MVT 2022, VOL 311, IOP Conference Series-Materials Science and Engineering, 2024, [WOS:001530989600048, https://doi.org/10.1088/1757-899X/1311/1/012048](https://doi.org/10.1088/1757-899X/1311/1/012048)
20. **Tutunea D.**, Dumitru I., Racila L., Otat O.V., Geonea I., Evaluation of temperature sensors used in automotive applications type NTC and PTC, The XXXI-st SIAR International Congress of Automotive and Transport Engineering "Automotive and Integrated Transport Systems" (AITS 2021), 2022, IOP Conf. Ser.: Mater. Sci. Eng. 1220 012035, [WOS:001545221700035 https://iopscience.iop.org/article/10.1088/1757-899X/1220/1/012035](https://iopscience.iop.org/article/10.1088/1757-899X/1220/1/012035)
21. **Tutunea D.**, Dumitru I., Racila L., Rotea C., Experimental investigation on the alternator charging capacity for automotive applications, The XXXI-st SIAR International Congress of Automotive and Transport Engineering "Automotive and Integrated Transport Systems" (AITS 2021), 2022, IOP Conf. Ser.: Mater. Sci. Eng. 1220 012036, [WOS:001545221700036 https://iopscience.iop.org/article/10.1088/1757-899X/1220/1/012036](https://iopscience.iop.org/article/10.1088/1757-899X/1220/1/012036)

Articole publicate în reviste BDI (Baze de date internaționale)

1. **Tutunea D.**, Biodiesel from animal and fats În 3RD In International Conference Advanced Concepts Mechanical Engineering ACME 2008, Iasi Romania June 5-6, 2008. Publicat în: Buletinul Institutului Politehnic din Iași, de Universitatea Tehnică "Gh. Asachi", Iași, Secția Construcții de Mașini, Tomul LIV (LVI), Fasc.2 2008, Cod CNCIS 500, ISSN: 1001-2855, pag.411-414. http://www.cm.tuiasi.ro/docs/CM%20fasc%202_2008%20romana.pdf
2. **Tutunea D.**, Biodiesel Chemistry În 3RD International Conference Advanced Concepts In Mechanical Engineering ACME 2008, Iasi Romania June 5-6, 2008. Publicat în: Buletinul Institutului Politehnic din Iași, de Universitatea Tehnică "Gh. Asachi", Iași, Secția Construcții de Mașini, Tomul LIV (LVI), Fasc.2, 2008, Cod CNCIS 500, ISSN: 1001-2855, pag.405-410 http://www.cm.tuiasi.ro/docs/CM%20fasc%202_2008%20romana.pdf
3. **Tutunea D.**, Biodiesel market and expected trends in Romania, Annals of the Oradea University Fascicle Of Management and Technological Engineering Volume VII (XVII), 2008 ISSN 1583-0691, Pag 113, Rez. Engleză <http://imtuoradea.ro/auo.fmte/article.php?v1=2008&v2=3>
4. **Tutunea D.**, Biodiesel technology, Annals of the Oradea University Fascicle Of Management and Technological Engineering Volume VII (XVII), 2008 ISSN 1583-0691, Pag 112, Rez. Engleză. <http://imtuoradea.ro/auo.fmte/article.php?v1=2008&v2=3>
5. Cernăianu C., Stăncuț A., **Tutunea D.**, Research on the heat balance sheet during fluidized bed with solar energy, Revista Termotehnica, pag. 66-72, 2009. <http://www.revistatermotehnica.agir.ro/articol.php?id=541>
6. Borgazi E., Popa D., **Tutunea D.**, Complex 3D shapes used in orthopaedics (Elbow), Revista JIDEG, Issue nr.5, 2009. <http://www.sorging.ro/ro/revista/volume-4-issue-no-1-2009/complex-3d-shapes-used-in-orthopaedics-elbow>
7. Popa D., Gherghina G., **Tutunea D.**, Bogdan M., The Kinematic, Dynamic And , Fea Analysis Of The Human Main Joints, TMT 2010, 14TH International Research/Expert Conference 11-18 September 2010, ISSN 1840-4944, pp.573-576. <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.402.9373&rep=rep1&type=pdf>
8. Calbureanu, M., Albota E., **Tutunea, D.**, Dumitru S., Malciu, R., Dima, Al., Contributions above the dew-point problem in civil building EPS insulated walls modeling with finite element the convective heat transfer, International Journal of Mechanics, Issue 3, Volume 4, 2010, pp. 53 – 62. <http://www.naun.org/main/NAUN/mechanics/19-574.pdf>
9. **Tutunea D.**, Study regarding the transesterification of palm oil, Proceedings of the Annual Session of Scientific Paper "IMT Oradea – 2011" Extended Abstracts, Editura Universitatii din Oradea, pp. 1.14 Extended Abstract, pp. 1.47-1.51 Full paper (Annals of the Oradea

- University, Fascicle of Management and Technological Engineering, Volume X (XX), 2011, Nr.1 on cd.) <http://imtuoradea.ro/auo.fmte/article.php?v1=2011-1&v2=5>
10. **Tutunea D.**, Detailed study regarding the biodiesel pollution from rapeseed oil, Proceedings of the Annual Session of Scientific Paper "IMT Oradea – 2011" Extended Abstracts, Editura Universitatii din Oradea, pp. 1.13 Extended Abstract, pp. 1.35-1.39 Full paper (Annals of the Oradea University, Fascicle of Management and Technological Engineering, Volume X (XX), 2011, Nr.2 on cd.) <http://imtuoradea.ro/auo.fmte/article.php?v1=2011-2&v2=5>
 11. **Tutunea D.**, Bică M., Elemental analyses for different types of biodiesel and diesel, Revista Termotehnica, ISSN 1222-4057, Editura Agir, 1/2011, pp. 114-118 <http://www.revistatermotehnica.agir.ro/articol.php?id=983>
 12. **Tutunea D.**, Bică M., Thermal evaluation of biodiesel derived from rapeseed oil, Revista Termotehnica, ISSN (online) 2247-1871, Editura Agir, nr. 1S/2011, pp. 28. http://www.revistatermotehnica.agir.ro/files/1_2011_Motoare.%20turbine%20si%20cazane%20de%20abur.pdf
 13. Cernăianu A., **Tutunea D.**, Stăncuț E., Dima A., Studies of a system of temperature control without the correction center, Revista Termotehnica, ISSN (online) 2247-1871, Editura Agir, nr. 1S/2011, pp. 7. http://www.revistatermotehnica.agir.ro/files/1_2011_Termodinamica.pdf
 14. Bara N., **Tutunea D.**, Simulation of the behavior of cross flow heat exchangers, Revista Termotehnica, ISSN (online) 2247-1871, Editura Agir, nr. 1S/2011, pp. 42. http://www.revistatermotehnica.agir.ro/files/1_2011_Transfer%20de%20caldura%20si%20masa.pdf
 15. Calbureanu M., Malciu R., **Tutunea D.**, Dima A., Modeling with finite element method the convective heat transfer in civil building eps insulated walls, Revista Termotehnica, ISSN (online) 2247-1871, Editura Agir, nr. 1S/2011, pp. 43. http://www.revistatermotehnica.agir.ro/files/1_2011_Transfer%20de%20caldura%20si%20masa.pdf
 16. Cernăianu C., Bică M., **Tutunea D.**, Stăncuț E., Dima A., Studies concerning thermal phenomena in drying seeds on fluid bed, Revista Termotehnica, ISSN (online) 2247-1871, Editura Agir, nr. 1S/2011, pp. 44. http://www.revistatermotehnica.agir.ro/files/1_2011_Transfer%20de%20caldura%20si%20masa.pdf
 17. Gherghina G., **Tutunea D.**, Gluga C., Issues on the implementation of cad assemblies (II), Buletinul Institutului Politehnic din Iasi, Publicat de Universitatea Tehnica Gheorghe Asachi din Iasi, Tomul LVII(LXI), Fasc. 5, Sectia Constructii de Masini, Editura Politehnicum, 2011, ISSN 1011- 2855, pp. 81-88. http://www.cm.tuiasi.ro/docs/FASC_5_2011%20engleza.pdf
 18. Gherghina G., **Tutunea D.**, Gluga C., Issues on the implementation of cad assemblies (I), Buletinul Institutului Politehnic din Iasi, Publicat de Universitatea Tehnica Gheorghe Asachi din Iasi, Tomul LVII(LXI), Fasc. 5, Sectia Constructii de Masini, Editura Politehnicum, 2011, ISSN 1011- 2855, pp. 73-80. http://www.cm.tuiasi.ro/docs/FASC_5_2011%20engleza.pdf
 19. **Tutunea D.**, Gherghina G., Popa D., The finite element simulation of wind on a billboard panel, Buletinul Institutului Politehnic din Iasi, Publicat de Universitatea Tehnica Gheorghe Asachi din Iasi, Tomul LVII(LXI), Fasc. 5, Sectia Constructii de Masini, Editura Politehnicum, 2011, ISSN 1011- 2855, pp. 165-172. http://www.cm.tuiasi.ro/docs/FASC_5_2011%20engleza.pdf
 20. **Tutunea D.**, Bica M., Analysis of noise level into a monocylindrical diesel engine when is fuelled with different blends of biodiesel and petrodiesel University of Craiova, Faculty of Mechanics SMAT 2008 Second International Congress Automotive, Safety and Environment, 23 [2] 25 October, 2008 – Craiova, Romania, TOME II, Editura Universitaria, ISBN 978-606-510-253-8, 978-606-510-246-0, pag. 105-108. <http://www.fisita.com/publications/papers?id=6342&qs=789c534f4e2c494dcf2faab4b54e2d4bcd2bb1b54ecfb72d4e4d2c4aceb0ce4ead2ccf2f4a29b62d292d29cd4b4db42e484c4fb5355407000a8e1384>
 21. **Tutunea D.**, Gherghina G., Popa D., Analysis And Simulation Of Internal Flow In Mufflers With Complex Structure, CAR 2011, The International Congress on Automotives, paper code CAR2011-1194. <http://www.fisita.com/publications/papers?id=7774&qs=789c534f4e2c494dcf2faab4b54e2d4bcd2bb1b54ecfb72d4e4d2c4aceb0ce4ead2ccf2f4a29b62d292d29cd4b4db42e484c4fb5355407000a8e1384>
 22. **Tutunea D.**, Neagoe D., Trotea M., Constantinescu A., The Finite Element Modeling Of A Piston Head Of A Spark Ignition Engine, CAR 2011, The International Congress on Automotives, paper code CAR2011-1241. <http://www.fisita.com/publications/papers?id=7814&qs=789c534f4e2c494dcf2faab4b54e2d4bcd2bb1b54ecfb72d4e4d2c4aceb0ce4ead2ccf2f4a29b62d292d29cd4b4db42e484c4fb5355407000a8e1384>
 23. **Tutunea D.**, The influence of reaction conditions on the transesterification of sunflower oil with methanol, Proceedings of the Annual Session of Scientific Paper "IMT Oradea – 2012" Extended Abstracts, Editura Universitatii din Oradea, pp. 1.12 Extended Abstract, pp. 1.41-1.46 Full paper (ANNALS of the ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, Volume XI (XXI), 2012, Nr.2 on cd.) <http://imtuoradea.ro/auo.fmte/article.php?v1=2012-2>
 24. **Tutunea D.**, Influences of biodiesel blends cold flow properties on diesel engines, Proceedings of the Annual Session of Scientific Paper "IMT Oradea – 2012" Extended Abstracts, Editura Universitatii din Oradea, pp. 1.13 Extended Abstract, pp. 1.45-1.49 Full paper (ANNALS of the ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, Volume XI (XXI), 2012, Nr.1 on cd.) <http://imtuoradea.ro/auo.fmte/article.php?v1=2012-1>
 25. **Tutunea D.**, Gherghina G., Popa D., Consideration about the design of automotive muffers, in Scientific Buletin of the Politehnica University of Timisoara, Romania, Transactions of Hydrotechnics, Tom 58(72), Fasciolă suplimentară, 2013, ISSN 1224-6042, pp 129-132. <http://www.ct.upt.ro/buletinhidro/issues.htm>
 26. Gherghina G., **Tutunea D.**, Popa D., About element of advanced part modelling, in Scientific Buletin of the Politehnica University of Timisoara, Romania, Transactions of Hydrotechnics, Tom 58(72), Fasciolă suplimentară, 2013, ISSN 1224-6042, pp 133-136. <http://www.ct.upt.ro/buletinhidro/issues.htm>
 27. Popa D., Duta A., Pitru A., **Tutunea D.**, Gherghina G., About the simulation environment for dental implant studies, in Scientific Buletin of the Politehnica University of Timisoara, Romania, Transactions of Hydrotechnics, Tom 58(72), Fasciolă suplimentară, 2013, ISSN 1224-6042, pp 137-140. <http://www.ct.upt.ro/buletinhidro/issues.htm>
 28. **Tutunea D.**, Bica M., Cernaianu C., Dima A., Correlation between physico-chemical properties of biodiesel blends and fossil diesel, Revista Termotehnica, Nr. 2/2013, pp. 67-70. <http://www.agir.ro/buletine/1931.pdf>

29. **Tutunea, D.**, Calbureanu, M., Lungu, M., The computational fluid dynamics (CFD) study of fluid dynamics performances of a resistance muffler, International Journal of Mechanics, Issue 4, Volume 7, ISSN: 1998-4448, pp. 401-408, 2013. <http://www.naun.org/main/NAUN/mechanics/d072003-119.pdf>
30. Calbureanu M.X., Malcui R., **Tutunea D.**, Ionescu A., Lungu M. The finite element analysis of the thermal stress distribution of a piston head, International Journal of Mechanics, Issue 4, Volume 7, ISSN: 1998-4448., 467- 474, 2013. <http://www.naun.org/main/NAUN/mechanics/d142003-120.pdf>
31. **Tutunea D.**, Dima A., Bica M., Experimental investigation on emissions and performance of a spark-ignition engine fueled with gasoline-ethanol blends, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Issue #1, May 2014, pp.285-288. <http://imtuoradea.ro/auo.fmte/files-2014-v1/Tutunea%20Dragos-%20EXPERIMENTAL%20INVESTIGATION%20ON%20EMISSIONS%20AND%20PERFORMANCE%20OF%20A%20SPARK-IGNITION%20ENGINE%20FUELED%20WITH%20GASOLINE-ETHANOL%20BLENDS.pdf>
32. **Tutunea D.**, Dima A., Bica M., Buculei M., The design of sun visors for automotive industry, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Issue #3, December 2014, pp. 1-4. <http://imtuoradea.ro/auo.fmte/files-2014-v3/Tutunea%20Dragos-THE%20DESIGN%20OF%20SUN%20VISORS%20FOR%20AUTOMOTIVE%20INDUSTRY.pdf>
33. **Tutunea D.**, Bica M., Dima A., Computational study of the unsteady flow structures around two vehicles, Journal of industrial design and engineering graphics, Vol. 9, Issue 1, July 2014, pp. 13-16. <http://www.sorging.ro/ro/revista/volume-9-issue-no-1-2014/computational-study-of-the-unsteady-flow-structures-around-two-vehicles>
34. Gherghina G., **Tutunea D.**, Popa D., About designing the geometrical shapes of multi bodies solids, 4th International Scientific Conference on Geometry and Graphics moNGeometrija 2014, Proceedings Volume 1, June 20th – 22th 2014, Vlasina, Serbia, ISSN 978-86-88601-13-9, pp. 307-314. <http://www.mongeometrija.com/attachments/article/377/PROCEEDINGS%20-%20Volume%201%20.pdf#page=307>
35. Dima A., **Tutunea D.**, Gherghina G., Popa D., Computational study of flow around the front wing of a race car, 4th International Scientific Conference on Geometry and Graphics moNGeometrija 2014, Proceedings Volume 1, June 20th – 22th 2014, Vlasina, Serbia, ISSN 978-86-88601-13-9, pp. 182-188. <http://www.mongeometrija.com/attachments/article/377/PROCEEDINGS%20-%20Volume%201%20.pdf#page=182>
36. Popa D., Gherghina G., Duta A., **Tutunea D.**, Ciunel S., The methods and techniques used for the human bones virtual re-construction, 4th International Scientific Conference on Geometry and Graphics moNGeometrija 2014, Proceedings Volume 1, June 20th – 22th 2014, Vlasina, Serbia, ISSN 978-86-88601-13-9, pp. 189-198. <http://www.mongeometrija.com/attachments/article/377/PROCEEDINGS%20-%20Volume%201%20.pdf#page=189>
37. Ciunel S., Popa D., Gherghina G., Bogdan M., **Tutunea D.**, Human Head-Neck System Behavior during Virtual Impact Automotive Simulations, Applied Mechanics and Materials Vol. 659 (2014) pp. 177-182. <http://www.scientific.net/AMM.659.177>
38. Gherghina G., **Tutunea D.**, Popa D., About digital mock-up for mechanical products, Journal of industrial design and engineering graphics, volume 10, june 2015 pp. 41-44. <http://www.sorging.ro/ro/revista/>
39. Popa D.L., Duta A., **Tutunea D.**, Gherghina G., Buciu G., Calin D.C., Virtual Methods Applied to Human Bones and Joints Re-Construction Used for Orthopedic Systems, Applied Mechanics and Materials, Vol. 822 (2016) pp. 160-165. <http://www.scientific.net/AMM.822.160>
40. Dima A.M., **Tutunea D.**, Bica M., Different approaches for determination of internal combustion engines performances, Applied Mechanics and Materials, Vol. 822 (2016) pp. 169-174. <http://zh.scientific.net/AMM.822.169>
41. **Tutunea D.**, Gherghina G., Cernaianu A.C., Study of Inductive Sensors for Automotive applications, Applied Mechanics and Materials Vol. 822 (2016) pp. 341-345. <http://www.scientific.net/AMM.822.341>
42. Dumitru I., Vinătoru M., **Tutunea D.**, Dima A.M., Considerations Regarding Validation Through Simulation of Some Board System Information's for Powertrain Performance Optimization, Applied Mechanics and Materials Vol. 822 (2016) pp. 346-353. <http://www.scientific.net/AMM.822.346>
43. Gherghina G., **Tutunea D.**, Lambrache N., Popa D.L., About Mechatronics in the Engineering Education at the Faculty of Mechanics Craiova, Applied Mechanics and Materials Vol. 822 (2016) pp. 360-364. <http://www.scientific.net/AMM.822.360>
44. **Tutunea D.**, Bica M., Dumitru I., Dima A.M., Study of Emission of a Mono Cylindrical Diesel Engine Fueled with biodiesel of palm oil, Applied Mechanics and Materials Vol. 823 (2016) pp. 297-302. <http://www.scientific.net/AMM.823.297>
45. Gherghina G., Popa D.L., **Tutunea D.**, Simulation of A Mono Cylindrical Engine With LES Software, Applied Mechanics and Materials Vol. 823 (2016) pp. 347-352. <http://www.scientific.net/AMM.823.347>
46. Cernaianu A.D. **Tutunea D.**, Dima A.M., Determination of Displacement of the Piece Center in the Process of Centerless Grinding, Applied Mechanics and Materials Vol. 823 (2016) pp. 519-524. <http://www.scientific.net/AMM.823.519>
47. Popa D., **Tutunea D.**, Gherghina G., Ciunel St. Methods used for the virtual human bones and joints reconstruction. normal and pathological human joints virtual simulations, Journal of industrial design and engineering graphics volume 10, june 2015 pp.49-54. <http://www.sorging.ro/ro/revista/volume-10-special-issue-fascicle-2/methods-used-for-the-virtual-human-bones-and-joints-reconstruction-normal-and-pathological-human-joints-virtual-simulations>
48. Gherghina G., **Tutunea D.**, Popa D., Evolution in tehcnical drawing for mechanical products, JIDEG, volume 12, Issue No. 1, fascicle 3, 2017. <http://www.sorging.ro/ro/revista/volume-12-issue-no-1-fascicle-3-2017/evolution-in-technical-drawing-for-mechanical-products>
49. Popa D., Poenaru F., Gherghina G., Tutunea D., Popkonstantinovic B., New cad techniques used for virtual bone models applied in orthopedics, JIDEG, volume 12, Issue No. 1, fascicle 3, 2017. <http://www.sorging.ro/ro/revista/volume-12-issue-no-1-fascicle-3-2017/new-cad-techniques-used-for-virtual-bone-models-applied-in-orthopedics>
50. Gherghina, G., **Tutunea, D.** Popa D., Evolution in technical drawing for mechanical products, Journal of Industrial Design & Engineering Graphics . May2017, Vol. 12 Issue 1, p105-110. 6p.
51. Tutunea D., Dumitru I., Experimental study on the effect of adding bioethanol in spark ignition engine, Buletinul Științific al Universității din Pitești, seria Autovehicule Rutiere, nr.27, 2017, pp. 82-88. https://www.automotive.upit.ro/index_files/2017/2017_11_.pdf

52. Gherghina G., **Tutunea D.**, Dima A., Popa D., 3D Model Based Process in Automotive Industry, Applied Mechanics and Materials, Vol. 880, pp. 151-156, 2018 <https://www.scientific.net/Paper/Preview/529625>
53. Gheorghe D., Bica M., **Tutunea D.**, Dima A., A review of combustion properties of hydrogen usage in internal combustion engines, Revista Termotehnica, 2017, pp.14 -18. <http://www.agir.ro/buletine/2946.pdf>
54. Gheorghe D., Bica M., **Tutunea D.**, Dima A., A review of emission characteristics of hydrogen in internal combustion engines, , Revista Termotehnica, 2017, pp.56 -59. <http://www.agir.ro/buletine/2953.pdf>
55. **Tutunea D.**, Gherghina G., Dumitru I., Dima A., Evaluation of Thermistors Used for Temperature Measurement in Automotive Industry, Applied Mechanics and Materials, Vol. 880, pp. 157-162, 2018 <https://www.scientific.net/Paper/Preview/529514>
56. **Tutunea D.**, Oprica A., Nicu A.M., Staicu D.C., Dumitru I., CFD and Structural Analysis of the Intake Manifold Flap of an Internal Combustion Engine, Applied Mechanics and Materials, Vol. 880, pp. 195-200, 2018 <https://www.scientific.net/Paper/Preview/530175>
57. Cernaianu A., Dima A., Ciurezu M., Cernaianu C., **Tutunea D.**, Experimental installation for disk brakes testing of wheeled vehicles, Annals of the Constantin Brancusi University of Targu Jiu, Engineering Series, No.3/2017, pp.135 – 140. http://www.utgjiu.ro/revista/ing/pdf/2017-3/01_Anale%20Inginerie%20-%20Vol%203%20-%202017.pdf
58. Cernaianu A., Dima A., Cernaianu C., Ciurezu M., **Tutunea D.**, Research regarding the experimental determination of functional parameters of a disc brake on wheeled vehicles, Annals of the Constantin Brancusi University of Targu Jiu, Engineering Series, No.3/2017, pp.141 – 147. http://www.utgjiu.ro/revista/ing/pdf/2017-3/01_Anale%20Inginerie%20-%20Vol%203%20-%202017.pdf
59. Geonea I., Margine A., Copilusi C., **Tutunea D.**, Ionica V., Modal dynamic analysis for the shafts of a gearbox, Journal of industrial design and engineering graphics, Volume 14, Issue 1, pp.113 – 118, 2019. <http://sorging.ro/jideg/index.php/jid/article/view/438/411>
60. Oprica A., Dima A., **Tutunea D.**, Matei L., Dumitru I., Configuring the street tram through the aimsun software graphical elements, Journal of industrial design and engineering graphics, Volume 14, Issue 1, pp.145 – 148, 2019. <http://sorging.ro/jideg/index.php/jid/article/view/446/418>
61. Gheorghe D., **Tutunea D.**, Bică M., Gruia A. and Calbureanu M., A review of hydrogen/diesel fuel blends in internal combustion engines, The XXIIInd National Conference on Thermodynamics with International Participation IOP Conf. Series: Materials Science and Engineering 595 (2019) 012033, <https://doi.org/10.1088/1757-899X/595/1/012033>
62. Gheorghe D., **Tutunea D.**, Bică M., Gruia A. and Calbureanu M., Hydrogen a new fuel for internal combustion engines, The XXIIInd National Conference on Thermodynamics with International Participation IOP Conf. Series: Materials Science and Engineering 595 (2019) 012032, <https://doi.org/10.1088/1757-899X/595/1/012032>
63. Gheorghe D., **Tutunea D.**, Bică M., Gruia A. and Calbureanu M., Study of the thermal stability of biodiesel and diesel fuel, The XXIIInd National Conference on Thermodynamics with International Participation IOP Conf. Series: Materials Science and Engineering 595 (2019) 012039, <https://doi.org/10.1088/1757-899X/595/1/012039>
64. Racila L.D., Dumitru I., **Tutunea D.**, Matei L., Geonea I., Otat O., Racila M., Focusing device based on overconstrained mechanism, Annual Session of Scientific Papers "IMT ORADEA 2019" IOP Conf. Series: Materials Science and Engineering 568 (2019) 012004, <https://doi.org/10.1088/1757-899X/568/1/012004>
65. Oțat O.V., Oțat ., Racilă L., Geonea I., **Tutunea D.**, Vehicle dynamics influence on traffic safety in case of a certain route deceleration, Focusing device based on overconstrained mechanism, Annual Session of Scientific Papers "IMT ORADEA 2019" IOP Conf. Series: Materials Science and Engineering 568 (2019) 012056, <https://doi.org/10.1088/1757-899X/568/1/012056>
66. **Tutunea D.**, Ilie D., Racila L., Geonea I., Otat O. and Matei L., Application of thermogravimetric analysis for thermal characterization of walnut oil and biodiesel, Annual Session of Scientific Papers "IMT ORADEA 2019" IOP Conf. Series: Materials Science and Engineering 568 (2019) 012075, <https://doi.org/10.1088/1757-899X/568/1/012075>
67. Dumitru I., Racila L.D., Matei L., **Tutunea D.**, Florescu B.S., Using "GUI" programming environments to calculate the level of service at intersections, Annual Session of Scientific Papers "IMT ORADEA 2019" IOP Conf. Series: Materials Science and Engineering 568 (2019) 012104, <https://doi.org/10.1088/1757-899X/568/1/012104>
68. Matei L., Dumitru I., Racila L.D., **Tutunea D.**, Oprica A.C., Using virtual inductive loops to adapt the signal plans of junctions, Annual Session of Scientific Papers "IMT ORADEA 2019" IOP Conf. Series: Materials Science and Engineering 568 (2019) 012106, <https://doi.org/10.1088/1757-899X/568/1/012106>
69. Racila L.D., Dumitru I., **Tutunea D.**, Matei L., Geonea I., Otat O., Racila M., Focusing Device Based on Overconstrained Mechanism, Annual Session of Scientific Papers "IMT ORADEA 2019" IOP Conf. Series: Materials Science and Engineering 568 (2019) 0121085, <https://doi.org/10.1088/1757-899X/568/1/012085>
70. Calbureanu Popescu M.X., Bica M., Calbureanu Popescu D.M., **Tutunea D.**, Contributions to the transfer of heat and mass into brick walls with vertical holes, 5th International Scientific Conference SEA-CONF 2019, IOP Conf. Series: Journal of Physics: Conf. Series 1297 (2019) 012013 <https://doi.org/10.1088/1742-6596/1297/1/012013>
71. Calbureanu Popescu M.X., Bica M., Calbureanu Popescu D.M., **Tutunea D.**, Transfer of mass through walls from energetically efficient innovative materials in order to achieve comfort conditions in passive houses, 5th International Scientific Conference SEA-CONF 2019, IOP Conf. Series: Journal of Physics: Conf. Series 1297 (2019) 012014, <https://doi.org/10.1088/1742-6596/1297/1/012014>
72. Um Min Allah Fazal, Bica M., Gruia A., **Tutunea D.**, Calbureanu M., Considerations on the combustion of biofuels in compression ignition engines, E3S Web of Conferences 112, 01004 (2019), <https://doi.org/10.1051/e3sconf/201911201004>
73. Bica M., Stoian A., **Tutunea D.**, Calbureanu M., Reduce deposits on heat exchange surfaces when burning inferior coal, E3S Web of Conferences 112, 01003 (2019), <https://doi.org/10.1051/e3sconf/201911201003>
74. Oțat O., Dumitru I., Oțat V., **Tutunea D.**, Matei L., An Applied Study on the Influence of the Vehicle Body Shape on Air Resistance, Applied Mechanics and Materials, ISSN: 1662-7482, Vol. 896, pp 141-150, 2020. <https://www.scientific.net/AMM.896.141.pdf>
75. **Tutunea D.**, Dumitru I., Otat O.V., Racila L., Geonea I., Matei L., Rotea C., Oxygen Sensor Testing for Automotive Applications, Applied Mechanics and Materials, ISSN: 1662-7482, Vol. 896, pp 249-254, 2020. <https://www.scientific.net/AMM.896.249.pdf>
76. **Tutunea D.**, Dumitru, I., Racila, L., Experimental stand to investigate the injection process in diesel engines, Advanced Engineering Forum, Volume 42, pp.79-84, 2021. <https://www.scientific.net/AEF.42.79>

77. Otat O.V., Dumitru I., Racila L., **Tutunea, D.**, Matei L., Analysis on the Dynamic Performance of Vehicles, Advanced Engineering Forum, Volume 42, pp.71-78, 2021. <https://www.scientific.net/AEF.42.71>
78. Matei L., Dumitru I., Racila L., **Tutunea D.**, Oprica A., Traffic analysis for the reconstruction of the street geometries in the case of the construction of shopping centre in crowded cities, The XXXI-st SIAR International Congress of Automotive and Transport Engineering "Automotive and Integrated Transport Systems" (AITS 2021), IOP Conf. Ser.: Mater. Sci. Eng. 1220 012059, <https://iopscience.iop.org/article/10.1088/1757-899X/1220/1/012059>
79. Bica M., **Tutunea D.**, Trasca E., Pollution caused by thermal engines when using biofuels, Proceedings of the International Conference of Mechanical Engineering (ICOME-2022), Atlantis Highlights in Engineering, <https://www.atlantis-press.com/proceedings/ico-me-22/125987671>
80. **Tutunea D.**, Dumitru I., Racila L., Geonea I., Otat O., Rotea C., Experimental stand to investigate the sealing properties of piston rings used in automotive industry, Proceedings of the International Conference of Mechanical Engineering (ICOME-2022), Atlantis Highlights in Engineering, <https://www.atlantis-press.com/proceedings/ico-me-22/125987657>
81. Bica M., **Tutunea D.**, Trasca E., The Influence of sliding pressure operation on some elements of the thermal cycle, Proceedings of the International Conference of Mechanical Engineering (ICOME-2022), Atlantis Highlights in Engineering, <https://www.atlantis-press.com/proceedings/ico-me-22/125987667>
82. Otat O., Dumitru I., **Tutunea D.**, Matei L., Comparative analysis of pedestrian throwing distance following a collision with a vehicle, Proceedings of the International Conference of Mechanical Engineering (ICOME-2022), Atlantis Highlights in Engineering, <https://www.atlantis-press.com/proceedings/ico-me-22/125987687>

Articole publicate în reviste naționale

1. **Tutunea D.**, The analysis of biodiesel success in the world, Annals of the University of Craiova Nr.1/2007 ISSN 1223-5296, pag. 225-236. <http://mecanica.ucv.ro/ViataAcademica/Anale/ANALE%201.2007.pdf>
2. **Tutunea D.**, The behavior study of sunflower biodiesel in engines with ignition through compression using the thermogravimetric analysis, Ingineria Automobilului, Nr. 11, 2009. http://siar.ro/wp-content/uploads/2014/02/RIA_11.pdf
3. **Tutunea D.**, Privire de ansamblu asupra principalelor tehnici de producție pentru biodieselul folosit în România, Autotest, nr.161, Decembrie-Ianuarie 2011. http://www.rarom.ro/article--Nr._161_Decembrie-Ianuarie_2011--336.html
4. **Tutunea D.**, Studiu privind producția de biodiesel din ulei de pește, Revista Tehnologiile Energiei, ISSN:1842-7189, Editura ICEMENERG, Volumul 44, Nr.3 Martie 2011, pp. 35-40. <http://www.icemenerg.ro/Revista%20Tehnologiile%20Energiei/RevTE%20cuprom%202011.htm>

Articole în conferințe internaționale

1. **Tutunea D.**, Biodiesel present and future, 2nd International Conference on Thermal Engines and Environmental Engineering METIME 2007, June 7-9, 2007, Galați Romania, Thermal Science societies union from Romania University "DUNAREA DE JOS" of Galați. In PROCEEDINGS A. Thermodynamics and fluid mechanics analysis. B. Heat transfer, Refrigeration and cryogenics optimization. Editura S.C. Zigotto S.R.L., Cod CNCIS 262, ISBN: 978-973-1724-17-1, pag.250-256.
2. **Tutunea D.**, Bica M., Analysis of noise level into a monocylindrical diesel engine when is fuelled with different blends of biodiesel and petrodiesel University of Craiova, Faculty of Mechanics SMAT 2008 Second International Congress Automotive, Saftey and Environment, 23 [2] 25 October, 2008 – Craiova, Romania, TOME II, Editura Universitaria, ISBN 978-606-510-253-8, 978-606-510-246-0, pag. 105-108.
3. **Tutunea D.**, Bica M., Exhaust emissions of different blends of biodiesel and petrodiesel in a monocylindrical diesel engine University of Craiova Faculty of Mechanics SMAT 2008 Second International Congress Automotive, Saftey and Environment, 23 - 25 October, 2008 – Craiova, Romania, TOME II, Editura Universitaria, ISBN 978-606-510-253-8, 978-606-510-246-0, pag.101-104.
4. **Tutunea D.**, Gherghina G., Gluga C., New type of lines used in tehcnical design a treia Conferință Internațională de Inginerie Grafică și Desen Cluj-Napoca ICEGD 12 – 13 iunie, 2009, Acta Technica Napocensis, Series Applied Mathematics and Mechanics 52, Vol.Ib, ISSN 1221-5872, Pag.683.
5. Gherghina G., **Tutunea D.**, Experimental researches on the performance of diesel engine RY 50 when is fuelled with biodiesel blends in The 8th International Conference Fuel Economy, Saftey and Reliability of Motor Vehicles, Volume 2, November 12-14, 2009, Bucharest, Romania, ISSN-2067-1083, pag.11-18.
6. Neagoe D., Bica M., **Tutunea D.**, Campian O., The effect of physical chemical properties of biodiesel of palm oil in the behavior of diesel engines in The 8th International Conference Fuel Economy, Saftey and Reliability of Motor Vehicles, Volume 2, November 12-14, 2009, Bucharest, Romania, ISSN-2067-1083, pag.31-38.
7. Borgazi E., Popa D., **Tutunea D.**, Gherghina G. Bogdan M., Consideration about the simulation of the osteosynthesis for the human elbow bones using metallic, International Conference of Mechanical Engineering ICOME 2010 Craiova, 28-29, Aprilie 2010.
8. **Tutunea D.**, Cernaianu C., Stancut A., Dima A., Researches on cold starting of biodiesel diesel, International Conference of Mechanical Engineering ICOME 2010 Craiova, 28-29, Aprilie 2010.
9. Gherghina G., **Tutunea D.**, Popa D., Gluga C., Anusca M. The role of mechatronics in the education of automotive engineer, International Conference of Mechanical Engineering ICOME 2010 Craiova, 28-29, Aprilie 2010.
10. Stancut A., Cernaianu C., **Tutunea D.**, Dima A., Automatic control of thermodynamic parameters of the micro channels heat exchangers, International Conference of Mechanical Engineering ICOME 2010 Craiova, 28-29, Aprilie 2010.
11. Dima A., **Tutunea D.**, Case of study for the implementation of hybrid engines in Romania, International Conference of Mechanical Engineering ICOME 2010 Craiova, 28-29, Aprilie 2010.

12. Cernaianu C., Bica M., **Tutunea D.**, Stancut A., Changes in the technological parameters of the drying process of grain and technical plants in a fluid bed, International Conference of Mechanical Engineering ICOME 2010 Craiova, 28-29, Aprilie 2010.
13. **Tutunea D.**, Neagoe D., Trotea M., Constantinescu A., The finite element modeling of a piston head of a spark ignition engine, CAR 2011 – International congress automotive and environment, 2 – 4 November 2011 Pitesti, Romania, CAR2011/CAR2011-1241
14. **Tutunea D.**, Gherghina G., Popa D., Analysis and simulation of internal flow in mufflers with complex structure, CAR 2011 – International congress automotive and environment, 2 – 4 November 2011 Pitesti, Romania, CAR2011/CAR2011-1194
15. **Tutunea D.**, Calbureanu, M., Lungu, M., Computational fluid dynamics analysis of a resistance muffler, Proceedings of the 11th International Conference on Heat Transfer, Thermal Engineering and Environment (HTE'13), Athens, Greece, 14-16 May 2013, ISBN: 978-1-61804-183-8. Recent Advances in Fluid Mechanics and Heat & Mass Transfer, ISSN: 2227-4596, pp. 31-34.
16. Calbureanu, M., Malciu, R., **Tutunea D.**, Ionescu, A., Lungu, M., Finite Element Modeling of a Spark Ignition Engine Piston Head, Proceedings of the 11th International Conference on Heat Transfer, Thermal Engineering and Environment (HTE'13), Athens, Greece, 14-16 May 2013, ISBN: 978-1-61804-183-8. Recent Advances in Fluid Mechanics and Heat & Mass Transfer, ISSN: 2227-4596, pp. 61-64.
17. **Tutunea D.**, Bica M., Dima A., Design and finite element analysis of connecting rod using solidworks software, in International Conference of Mechanical Engineering, ICOME 2013, Proceedings Tome 1, 16-17 of May 2013, Craiova, Romania, Universitaria Publishing House Craiova 2013, ISBN 978-606-14-0692-0, pp 73-78.
18. **Tutunea D.**, Gherghina G., Popa D., Thermal analysis of the engine piston made of aluminium alloys, in International Conference of Mechanical Engineering, ICOME 2013, Proceedings Tome 1, 16-17 of May 2013, Craiova, Romania, Universitaria Publishing House Craiova 2013, ISBN 978-606-14-0692-0, pp 79-82.
19. Gherghina G., **Tutunea D.**, Lambrache N., Mechatronics elements used for LPG motor vehicles, in International Conference of Mechanical Engineering, ICOME 2013, Proceedings Tome 2, 16-17 of May 2013, Craiova, Romania, Universitaria Publishing House Craiova 2013, ISBN 978-606-14-0692-0, pp 343-348.
20. Bica M., Stoican M., **Tutunea D.**, Dima A., Sofronie S., Reserches on the possibility to reduce the air pollution through the emission regulatory instruments, in International Conference of Mechanical Engineering, ICOME 2013, Proceedings Tome 2, 16-17 of May 2013, Craiova, Romania, Universitaria Publishing House Craiova 2013, ISBN 978-606-14-0692-0, pp 353-358.
21. Bica M., Stoican M., **Tutunea D.**, Dima A., Sofronie S., A review of catalytic converters used in automotive industry, in International Conference of Mechanical Engineering, ICOME 2013, Proceedings Tome 2, 16-17 of May 2013, Craiova, Romania, Universitaria Publishing House Craiova 2013, ISBN 978-606-14-0692-0, pp 359-362.
22. Dumitru I., Vinatoru M., Popescu F., **Tutunea D.**, Dima A., Considerations regarding validation thorough simulation of some board system informations for powertrain performance optimization, SMAT 2014 3rd International Congress Science and Management of Automotive and Transportation Engineering 23rd – 25rd of October, 2014 Craiova, Tome I, ISBN 978-606-14-0864-1, Universitaria, pp. 87-92
23. Dima A., **Tutunea D.**, Bica M., Different approaches for determination of internal combustion engines performances, SMAT 2014 3rd International Congress Science and Management of Automotive and Transportation Engineering 23rd – 25rd of October, 2014 Craiova, Tome I, ISBN 978-606-14-0864-1, Universitaria, pp. 115-118.
24. **Tutunea D.**, Gherghina G., Cernaianu A., Performance of inductive sensors for automotive applications, SMAT 2014 3rd International Congress Science and Management of Automotive and Transportation Engineering 23rd – 25rd of October, 2014 Craiova, Tome I, ISBN 978-606-14-0864-1, Universitaria, pp. 291-294.
25. **Tutunea D.**, Bica M., Dumitru I., Dima A., Experimental researches on biodiesel properties, SMAT 2014 3rd International Congress Science and Management of Automotive and Transportation Engineering 23rd – 25rd of October, 2014 Craiova, Tome I, ISBN 978-606-14-0864-1, Universitaria, pp. 295-300.
26. Gherghina G., **Tutunea D.**, Lambrache N., Popa D., About mechatronics in the engineering education at the faculty of Mechanics Craiova, SMAT 2014 3rd International Congress Science and Management of Automotive and Transportation Engineering 23rd – 25rd of October, 2014 Craiova, Tome II, ISBN 978-606-14-0864-1, Universitaria, pp. 87-90.
27. Popa D., Duta A., **Tutunea D.**, Gherghina G., Buciu G., Virtual methods used for the human bones and joints re-construction. Virtual innovative tibia nails, SMAT 2014 3rd International Congress Science and Management of Automotive and Transportation Engineering 23rd – 25rd of October, 2014 Craiova, Tome II, ISBN 978-606-14-0864-1, Universitaria, pp. 91-96.
28. Gherghina G., Popa D., **Tutunea D.**, From the sketch in technical drawing to dmu in engineering education, The 5th International Scientific Conference on Geometry and Graphics, moNGeometrija 2016, June 23th – 26th, 2016, Belgrade, Serbia, pp. 2016-2018. https://www.researchgate.net/publication/305469459_MODELING_OF_FOCAL-DIRECTORIAL_SURFACES_FOR_APPLICATION_IN_ARCHITECTURE
29. Buciu G., Popa D.L., Niculescu D., Gherghina G., Calin D. C., **Tutunea D.**, Virtual and rapid prototyping methods applied in orthopaedics, The 5th International Scientific Conference on Geometry and Graphics, moNGeometrija 2016, June 23th – 26th 2016, Belgrade, Serbia, pp. 467-478. https://www.researchgate.net/publication/305469459_MODELING_OF_FOCAL-DIRECTORIAL_SURFACES_FOR_APPLICATION_IN_ARCHITECTURE

Articole în conferințe naționale cu participare internațională

1. **Tutunea D.**, Influența proprietăților biocombustibililor asupra performanțelor m.a.c. În: Conferința Națională de Termotehnică cu Participare Internațională. Ediția a XVI-a, 31 mai – 1 iunie, 2007, Ploiești, România. Societatea Română a Termotehnicienilor. Universitatea Petrol – Gaze din Ploiești. Vol 2. Masini și Instalatii termice. Editura Universitatii Petrol-Gaze din Ploiești, Cod CNCIS 87, ISSN: 1843-1992, pag.277-283.
2. **Tutunea D.**, Bica M., Cernaianu C., Researches regarding biodiesel use in diesel engines, Bulletin of the Transilvania University of Brașov, Proceedings of the Internationally Attended National Conference On Thermodynamic, 21 mai – 22 mai, 2009, Brașov,

România, Vol.2(51) Series I, ISSN 2065-2119, Special Issue No.1, Vol.1, 2009, ISBN 978-973-598-521-9, Published by Transilvania University Press Braşov Romania, pag.587.

3. **Tutunea D.**, Bica M., Cernăianu C., Researches regarding the influence of biodiesel composition at engine with ignition through compression, Bulletin of the Transilvania University of Braşov, Proceedings of the Internationally Attended National Conference On Thermodynamic, 21 mai – 22 mai, 2009, Braşov, România, Vol.2(51) Series I, ISSN 2065-2119, Special Issue No.1, Vol.1, 2009, ISBN 978-973-598-521-9, Published by Transilvania University Press Braşov Romania, pag.593.
4. Bica M., Cernăianu C., **Tutunea D.**, The thermogravimetric analysis of different blends of biodiesel of rapeseed and petrodiesel, Bulletin of the Transilvania University of Braşov, Proceedings of the Internationally Attended National Conference On Thermodynamic, 21 mai – 22 mai, 2009, Braşov, România, Vol.2(51) Series I, ISSN 2065-2119, Special Issue No.1, Vol.1, 2009, ISBN 978-973-598-521-9, Published by Transilvania University Press Braşov Romania, pag.463.
5. Cernăianu C. D., **Tutunea D.**, Stăncuţ A. E. Research on the heat balance sheet drying fluidized bed with solar energy, Bulletin of the Transilvania University of Braşov, Proceedings of the Internationally Attended National Conference On Thermodynamic, 21 mai – 22 mai, 2009, Braşov, România, Vol.2(51) Series I, ISSN 2065-2119, Special Issue No.1, Vol.1, 2009, ISBN 978-973-598-521-9, Published by Transilvania University Press Braşov Romania, pag.165.
6. Cernăianu C. D., Stăncuţ A. E., **Tutunea D.**, Humidity relationship determinated in the dryind cereal seed fluidized bed, Bulletin of the Transilvania University of Braşov, Proceedings of the Internationally Attended National Conference On Thermodynamic, 21 mai – 22 mai, 2009, Braşov, România, Vol.2(51) Series I, ISSN 2065-2119, Special Issue No.1, Vol.1, 2009, ISBN 978-973-598-521-9, Published by Transilvania University Press Braşov Romania, pag.157.
7. Popa, D.L., Gherghina, G., Duta, A., **Tutunea, D.**, Ciunel, S. (2014) The methods and techniques used for the human bones virtual reconstruction. in: 4th International Scientific Conference on Geometry and Graphics moNGeometria, Proceedings of, vol. 1, pp. 189-198.
8. Iancu Constantin, C. D. Cernaianu, **D. Tutunea**, A. Dima, Physico-Mathematical Modeling of Grain Drying Process, The 20th National conference on thermodynamics June 4 – 5, 2015, Iaşi, România.

Articole în colocvii naţionale

1. **Tutunea D.**, Rîbu E. A., Resurse energetice regenerabile, Colocviul Naţional Metode Instalatii si Echipamente pentru Masurarea, Conservarea si Gestiunea Energiei, Ediţia a IX –a, 27-28 septembrie 2007 Craiova.
2. Rîbu E. A **Tutunea D.**, Transfer de căldură în regim tranzitoriu în schimbătoare de căldură cu microcanale, Colocviul Naţional Metode Instalatii si Echipamente pentru Masurarea, Conservarea si Gestiunea Energiei, Ediţia a IX –a, 27-28 septembrie 2007 Craiova.

Articole în colocvii internaţionale

1. **Tutunea D.**, Bica M., Researches regarding the biodiesel combustion in diesel engines, The Sixth edition of Colloque Francophone Sur L'energie – Environnement – Economie Et Thermodynamique (COFRET'12) Efficacité énergétique – sources d'énergies renouvelables – protection de l'environnement COFRET'12, pp. 227 – 231, 11-13 Juin 2012, Sozopol, Bulgarie, ISBN 978-619-460-008-3.

Articole publicate în simpozioane internaţionale

1. **Tutunea D.**, Bazele biomasei şi impactul asupra mediului, Simpozionul Internaţional "OMUL ŞI MEDIUL", Ediţia a V-a, 24-25 mai 2007 Timişoara. Academia de Ştiinţe Tehnice din România – Filiala Timişoara. Zilele Academice Timişene , Ediţia a X-a. Editura Eurostampa, Cod CNCIS 184, ISBN 978-973-687-555-7, pag. 235-241

Citări în reviste ISI

1. **Tutunea, D.**, Thermal investigation of biodiesel blends derived from rapeseed oil, Journal of Thermal Analysis and Calorimetry, ISSN 1388-6150, DOI 10.1007/s10973-012-2213-x, January 2013, Volume 111, Issue 1, pp 869-875, Springer, WOS:000313207400110. IF 2.206 (**19 citări**).
 - Mokhtar Benziane, Kamel Khimeche, Abdellah Dahmani, Sawsen Nezar, Djalal Trache, Experimental determination and prediction of (solid + liquid) phase equilibria for binary mixtures of heavy alkanes and fatty acids methyl esters, Journal of Thermal Analysis and Calorimetry, April 2013, Volume 112, Issue 1, pp 229-235. WOS:000316687400032, IF 2.206.
<http://link.springer.com/article/10.1007/s10973-012-2654-2>
 - Qing Zhang, Ahmed S. M. Saleh, Jing Chen, Peiran Sun, Qun Shen, Monitoring of thermal behavior and decomposition products of soybean oil, Journal of Thermal Analysis and Calorimetry, January 2014, Volume 115, Issue 1, pp 19-29, WOS:000329621100002, IF 2.042. <http://link.springer.com/article/10.1007/s10973-013-3283-0>
 - D.E. Leiva-Candia, M.F. Ruz-Ruiz, S. Pinzi, J.R. García-Ruiz, J. Domínguez, I.L. García, M.P. Dorado, Influence of nitrogen fertilization on physical and chemical properties of fatty acid methyl esters from Brassica napus oil, Fuel, Volume 111, September 2013, pp 865–871, WOS:000321037600104, IF 3.406. <http://www.sciencedirect.com/science/article/pii/S0016236113002925>
 - Erisandro S. Silva, Marta M. Conceição, Eduardo H. S. Cavalcanti, Valter J. Fernandes Jr., Ana C. D. Medeiros, Antonio G. Souza, Analysis of thermal and oxidative stability of biodiesel from Jatropha curcas L. and beef tallow, Journal of Thermal Analysis and Calorimetry, August 2013, Volume 113, Issue 2, pp 437-442, WOS:000321784900002, IF 2.206.
<http://link.springer.com/article/10.1007/s10973-012-2697-4>

- Anderson Fernandes Gomes, Marcos Paulo Salgado Gomes, Luiz Di Souza, Marta Costa, Thermal and chromatographic characterization of biomass, lipid material, and microalgal biodiesel from *Monoraphidium* sp., *Journal of Thermal Analysis and Calorimetry*, March 2015, Volume 119, Issue 3, pp 1861-1866, WOS:000350225500036, IF 1.781. <http://link.springer.com/article/10.1007/s10973-014-4347-5>
 - Ireneusz Pielecha, Przemysław Borowski, Jakub Czajka, Krzysztof Wisłocki, Jacek Kaźmierowski, Combustion process shaping by use of different strategies of multiple fuel injection in a CI model engine, *Journal of Thermal Analysis and Calorimetry* January 2015, Volume 119, Issue 1, pp 695-703, WOS:000347408300073, IF 1.781. <http://link.springer.com/article/10.1007/s10973-014-4139-y>
 - Ireneusz Pielecha, Krzysztof Wisłocki, Przemysław Borowski, Wojciech Cieślak, Thermodynamical evaluation of usefulness of future hydrocarbon fuels for use in compression ignition engines, *Journal of Thermal Analysis and Calorimetry*, October 2015, Volume 122, Issue 1, pp 473-485, WOS:000359756000009, IF 1.781. <http://link.springer.com/article/10.1007/s10973-015-4735-5>
 - Hui Li, Sheng-li Niu, Chun-mei Lu, Shi-qing Cheng, Comparative evaluation of thermal degradation for biodiesels derived from various feedstocks through transesterification, *Energy Conversion and Management*, Volume 98, 1 July 2015, pp 81-88, WOS:000359756000009, IF 4.801. <http://www.sciencedirect.com/science/article/pii/S0196890415003234>
 - Anne G. D. Santos, Vinicius P. S. Caldeira, Luiz D. Souza, Daniele S. Oliveira Antonio S. Araujo, Geraldo E. Luz Jr., Study of the thermal stability by thermogravimetry for oil, biodiesel and blend (B10) of different oilseeds, *Journal of Thermal Analysis and Calorimetry*, Volume 123, Issue 3, pp 2021-2028, March 2016, WOS:000371159900031, IF 1.953. <http://link.springer.com/article/10.1007/s10973-015-4943-z>
 - Neetu Singh, Himanshu Kumar, M. K. Jha, Anil Kumar Sarma, Complete heat balance, performance, and emission evaluation of a CI engine fueled with Mesua ferrea methyl and ethyl ester's blends with petrodiesel, *Journal of Thermal Analysis and Calorimetry* November 2015, Volume 122, Issue 2, pp 907-916, WOS:000362575800039, IF 1.781. <http://link.springer.com/article/10.1007/s10973-015-4777-8>
 - Łukasz Jan Kapusta, Ireneusz Pielecha, Krzysztof Wisłocki, Andrzej Teodorczyk, Autoignition and combustion of n-hexane spray in subcritical and supercritical environments, *Journal of Thermal Analysis and Calorimetry*, Volume 123, Issue 1, pp. 819-828, January 2016, WOS:000368187700079, IF 1.953. <http://link.springer.com/article/10.1007/s10973-015-4927-z>
 - João Paulo da Costa Evangelista, Amanda Duarte Gondim, Luiz Di Souza, Antonio Souza Araujo, Alumina-supported potassium compounds as heterogeneous catalysts for biodiesel production: A review, *Renewable and Sustainable Energy Reviews*, Volume 59, June 2016, Pages 887-894, WOS:000371948400061, IF 8.05. <http://www.sciencedirect.com/science/article/pii/S1364032116000915>
 - Ireneusz Pielecha, Wojciech Cieślak, Thermodynamic analysis of indexes of operation of the engine with direct fuel injection for idle speed and acceleration, *Journal of Thermal Analysis and Calorimetry*, Volume 126, Issue 2, pp 815-827, November 2016, WOS:000385246400047, IF 1.953. <http://link.springer.com/article/10.1007/s10973-016-5544-1>
 - Shengli Niu, Yan Zhou, Hewei Yu, Chunmei Lu, Kuihua Han, Investigation on thermal degradation properties of oleic acid and its methyl and ethyl esters through TG-FTIR, *Energy Conversion and Management*, Volume 149, 1 October 2017, pp. 495-504, WOS:000411537200040, IF 6.377. <https://www.sciencedirect.com/science/article/pii/S019689041730688X>
 - R. S. Leonardo, M. L. Murta Valle, J. Dweck, Evaluation of different aging procedures on biodiesel thermal degradation process, *Journal of Thermal Analysis and Calorimetry*, October 2017, Volume 130, Issue 1, pp 541-547, WOS:000411160300057, IF 2.209. <https://link.springer.com/article/10.1007/s10973-017-6291-7>
 - K. Vinukumar, A. Azhagurajan, S. C. Vettivel, N. Vedaraman, Rice husk as nanoadditive in diesel-biodiesel fuel blends used in diesel engine, *Journal of Thermal Analysis and Calorimetry*, Volume 131, Issue 2, pp 1333-1343, February 2018, WOS:000424302000045, IF 2.471. <https://link.springer.com/article/10.1007/s10973-017-6692-7>
 - Hui Li, Fengsheng Liu, Shoujun Zhou, Jiyong Liu & Zhongjie Wu (2019) Thermal Degradation Characteristics of Rapeseed Biodiesel And Its Blends With Petroleum Diesel, *Heat Transfer Engineering*, DOI: 10.1080/01457632.2019.1576823, WOS:000522665100011, IF 1.693. <https://www.tandfonline.com/doi/abs/10.1080/01457632.2019.1576823?journalCode=uhte20>
 - Raflem Christian Matos dos Santos, Paula Cristina Gurgel, Nizamara Simenremis Pereira, Rodolfo Andrade Breves, Paulo Roberto Rodrigues de Matos, Luciano Paulino Silva, Maria José Araújo Sales, Roseany de Vasconcelos Vieira Lopes, Ethyl esters obtained from pequi and macaúba oils by transesterification with homogeneous acid catalysis, *Fuel*, Volume 259, 2020, 116206, ISSN 0016-2361, WOS:000489332600031, IF 6.609. <https://doi.org/10.1016/j.fuel.2019.116206>
 - Adeyinka SikiruYusuffa, Nuradeen LabaranTankob, Temitayo Muftau Azeezc, Babatunde Adegoke Obende, Methanolysis of fresh and used soybean oil to biodiesel under mild conditions: Process optimization, fuel quality characterization and thermal stability studies, *Chemical Engineering and Processing - Process Intensification*, Volume 182, December 2022, 109177, WOS:000885290500003, IF 4.3. <https://www.sciencedirect.com/science/article/abs/pii/S0255270122003804>
2. Bită, G., Grecu, **Tutunea, D.**, R., Popescu, A., Bica, M., Role of the Extract Obtained from Seeds of *Vitis Vinifera* on the Oxidative Stability of Biodiesel, *Revista de Chimie*, pp.1090 - 1093, 60, nr.10, 2009, ISSN: 0034-7752, WOS:000272273600020. IF0.552. (3 citări).
 - Ivanoiu (Basa), Ioana Adela, Bandur, Geza, Rusnac, Lucian Mircea, Thermal Analysis of Biodiesel from Soybean and Sunflower Oils. II., *Revista de chimie* volume: 61 issue: 9 pages: 872-876 published: sep 2010, WOS:000284137400015, IF 0.693. <http://www.revistadechimie.ro/pdf/IVANOIU%20I%20A.pdf%209%2010.pdf>
 - Ivanoiu (Basa), Ioana Adela, Bandur, Geza, Rusnac, Lucian Mircea, Thermal Analysis of Biodiesel from Soybean and Sunflower Oils. I., *Revista de chimie* volume: 61 issue: 8 pages: 793-798 published: aug 2010, WOS:000282497600019, IF 0.693. <http://www.revistadechimie.ro/pdf/IVANOIU%20I.pdf%208%2010.pdf>
 - Vlad, Elena, Bildea, Costin Sorin, Plesu, Valentin, Design of Biodiesel Production Process from Rapeseed Oil, *Revista de chimie* Volume: 61 Issue: 6 Pages: 595-603 Published: Jun 2010., WOS:000279757800017, IF 0.693. <http://www.revistadechimie.ro/pdf/VLAD%20I.pdf%206%2010.pdf>
 3. Dumitru (Bită), G., Mihaela Gabriela Grecu, R., **Tutunea, D.**, Popescu, A., Bica, Physico-chemical Changes in Biodiesel during the Storage, *Revista de Chimie*, pp 882 – 885, Nr.9, 2010, ISSN: 0034-7752, WOS:000284137400017. IF 0.693 (1 citare).

- Cursaru, Diana, Mihai, Sonia, Corrosion Behaviour of Automotive Materials in Biodiesel from Sunflower Oil, *Revista de chimie* Volume: 63 Issue: 9 Pages: 945-948 Published: SEP 2012, WOS:000310928900018, IF 0.538.
<http://www.revistadechimie.ro/pdf/CURSARU%20D.pdf%209%2012.pdf>
4. Lungu, M., Lungu, R., **Tutunea, D.** Control of Aircraft Landing using the Dynamic Inversion and the H-inf Control. Proceedings of the 17th International Carpathian Control Conference (ICCC 2016), Tatranská Lomnica, Slovak Republic, May 29 - June 1, 2016, ISBN:978-1-4673-8606-7, pag. 461-466. WOS: 000389829000087(1 citare)
- Daibing Zhang, Xun Wang, Autonomous Landing Control of Fixed-wing UAVs: from Theory to Field Experiment, *Journal of Intelligent & Robotic Systems*, December 2017, Volume 88, Issue 2-4, pp 619-634, WOS:000412972000024, IF 1.583.
<https://link.springer.com/article/10.1007/s10846-017-0512-y>
5. Calbureanu, M., Albota E., **Tutunea, D.**, Dumitru S., Malciu, R., Dima, Al., Contributions above the dew-point problem in civil building EPS insulated walls modeling with finite element the convective heat transfer, *International Journal of Mechanics*, Issue 3, Volume 4, 2010, pp. 53 – 62. (1 citare).
- Aditya L., Mahlia T.M.I., Rismanchi B., Ng H.M., Hasan M.H., Metselaar H.S.C., et al, A review on insulation materials for energy conservation in buildings, *Renewable and Sustainable Energy Reviews*, Volume 73, June 2017, pp. 1352-1365, WOS:000401204700102, IF 9.184. <https://www.sciencedirect.com/science/article/pii/S1364032117302484#>
6. Dima A., Dumitru I., **Tutunea D.**, Evaluation of performance and emissions characteristics of methanol blend (gasohol) in a naturally aspirated spark ignition engine, *IOP Publishing*, 252, 2017. WOS:000419817200086 (3 citări)
- Celebi Y., Aydin H., An overview on the light alcohol fuels in diesel engines, *Fuel* Volume 236, 2019, pp. 890-911, WOS:000447799400083, IF 5.578. <https://www.sciencedirect.com/science/article/pii/S0016236118315102>
- B.S. Nuthan Prasad, Jayashish Kumar Pandey, G.N. Kumar, Impact of changing compression ratio on engine characteristics of an SI engine fueled with equi-volume blend of methanol and gasoline, *Energy*, 2019, 116605, ISSN 0360-5442, WOS:000509791500104, IF 6.082. <https://doi.org/10.1016/j.energy.2019.116605>
- Suresh, D (Suresh, Devunuri) ; Porpatham, E (Porpatham, Ekambaram), Influence of high compression ratio and hydrogen addition on the performance and emissions of a lean burn spark ignition engine fueled by ethanol-gasoline, *International journal of hydrogen energy*, Volume 48, Issue 38, pp. 14433-14448, 2023 WOS:000981751100001, IF 8.1.
<https://www.sciencedirect.com/science/article/abs/pii/S0360319922061377>
- Örs, L, Yelbey, S, Gülcan, HE, Kul, BS, Ciniviz, M, Evaluation of detailed combustion, energy and exergy analysis on ethanol-gasoline and methanol-gasoline blends of a spark ignition engine, *Fuel*, Volume 354, 2023, WOS:001059362800001, IF 6.7.
<https://www.sciencedirect.com/science/article/abs/pii/S0016236123019543>
- Biswal, S, Das, SR, Saha, N, Mishra, PC, Environmental sustainability assessment of gasoline and methanol blended smart fuel for reduced emission formation, *Environment development and sustainability*, WOS:001046624600002, 2023, IF 4.7.
<https://link.springer.com/article/10.1007/s10668-023-03752-6>
- Suresh, D, Porpatham, E, Influence of high compression ratio on the performance of ethanol-gasoline fuelled lean burn spark ignition engine at part throttle condition, *Case Studies In Thermal Engineering*, Volume 53, 2024, WOS:001139029900001, IF 6.4
<https://www.sciencedirect.com/science/article/pii/S2214157X23011383>
7. **Tutunea D.** and Dumitru I., Analysis of performance and emissions of diesel engine using sunflower biodiesel, *IOP Conf. Series: Materials Science and Engineering*, IOP Publishing, Volume 252, 2017, DOI: 10.1088/1757-899X/252/1/012085, ISSN: 1757-8981, WOS:000419817200085. (7 citări)
- N. Nirmala, S.S. Dawn, C. Harindra, Analysis of performance and emission characteristics of Waste cooking oil and *Chlorella variabilis* MK039712.1 biodiesel blends in a single cylinder, four strokes diesel engine, *Renewable Energy*, Volume 147, Part 1, 2020, Pages 284-292, ISSN 0960-1481, WOS:000502880700026, IF 8.001. <https://doi.org/10.1016/j.renene.2019.08.133>
- Manita Kamjam, Wijittra Wongjaikham, Doonyapong Wongsawaeng, Kanokwan Ngaosuwana, Worapon Kiatkittipong, Peter Hosemann, Suttichai Assabumrungrat, Continuous biodiesel production based on hand blender technology for sustainable household utilization, *Journal of Cleaner Production*, Volume 297, 2021, WOS:000641458400005, IF 11.072.
<https://www.sciencedirect.com/science/article/abs/pii/S0959652621009574>
- Castro, KD, Araujo, AMD et al. K2O supported on natural zeolite: synthesis, characterization and application of biodiesel production from sunflower oil, *Quimica Nova*, 2022, WOS:000783157400001, IF 0.8 <https://inis.iaea.org/records/5x0rd-0q304>
- Aroosh Shabbir, Hamid Mukhtar, Muhammad Waseem Mumtaz, Umer Rashid, Ghulam Abbas, Bryan R. Moser, Ali Alsalmeh, Tooba Touqeer, Chawalit Ngamcharussrivichai, Lewatit-immobilized lipase from *Bacillus pumilus* as a new catalyst for biodiesel production from tallow: Response surface optimization, fuel properties and exhaust emissions, *Process Safety and Environmental Protection*, Volume 160, 2022, pp. 286-296. WOS:000814509200007, IF 6.9.
<https://www.sciencedirect.com/science/article/abs/pii/S0957582022001306>
- Iman K. Reksowardojo, Hari Setiaprada, Mokhtar, Siti Yubaidah, Dieni Mansur and Agnes K. Putri, A Study on Utilization of High-Ratio Biodiesel and Pure Biodiesel in Advanced Vehicle Technologies, *Energies* 2023, 16(2), 718. IF 3, WOS:000917378000001
<https://www.mdpi.com/1996-1073/16/2/718>
- Ali Alahmer, Hegazy Rezk, Wail Aladayleh, Ahmad O. Mostafa, Mahmoud Abu-Zaid, Hussein Alahmer, Mohamed R. Gomaa, Amel A. Alhussan and Rania M. Ghoniem, Modeling and Optimization of a Compression Ignition Engine Fueled with Biodiesel Blends for Performance Improvement, *Mathematics* 2022, 10(3), 420, IF 2.592, WOS:000756917900001. <https://www.mdpi.com/2227-7390/10/3/420>
- Sakkampang, C., Kunanon, K., Suwunnasopha, P., Poojeera, S. Performance, exhaust emission, and wear behavior of a direct-injection engine using biodiesel from Yang-Na (*Dipterocarpus Alatus*) oleoresins, *Case Studies in Chemical and Environmental Engineering*, 7, 100328, 2023, WOS: IF <https://www.sciencedirect.com/science/article/pii/S2666016423000336>
- Ali A. Al-jabiri, Hyder H. Balla, Mudhaffar S. Al-zuhairy, Hussein Alahmer, Ahmed Al-Manea, Raed Al-Rbaihat, Ali Alahmer, Applied AMT Machine Learning and Multi-Objective Optimization for Enhanced Performance and Reduced Environmental Impact of Sunflower

Oil Biodiesel in Compression Ignition Engine, International Journal of Thermofluids, 2024, 100838,, ISSN 2666-2027, WOS: IF <https://www.sciencedirect.com/science/article/pii/S2666202724002799>

- Mulkan, A, Zulkifli, NWM, Husin, H, Ahmadi, Dahlan, I, Performance and emissions assessment under full load operation of an unmodified diesel engine running on biodiesel-based waste cooking oil synthesized using JPW solid catalyst, Renewable Energy, 2024, WOS:001202416000001, IF 9, <https://www.sciencedirect.com/science/article/abs/pii/S0960148124002106>
- Imwinkelried, G, Spinosa, M, et al., Diesel engine performance and emissions analysis with four different combinations of diesel-soybean biodiesel blends, Journal of cleaner production, volume 492, 2025, WOS:001422935300001 IF 9.7 <https://www.sciencedirect.com/science/article/abs/pii/S0959652625001568>
- Ismaeel, HK, Albayati, TM et al., Enhancing Emission Characteristics of a Diesel Engine Powered by Biodiesel Blends with Mesoporous Silica for Better Environmental Protection and Performance, International journal of environmental research, Vol.19, Issue 2, 2025, WOS:001385150200001 IF 2.6 <https://link.springer.com/article/10.1007/s41742-024-00720-4>
- 8. **Tutunea D.**, Dima A., Bica M., Experimental investigation on emissions and performance of a spark-ignition engine fueled with gasoline-ethanol blends, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Issue #1, May 2014, pp.285-288. (1 citare)
 - Sebayang A.H., Masjuki H.H., Hwai Chyuan Ong, Dharma S., Silitonga A.S., Mahlia T.M.I. and Aditiya H.B., A perspective on bioethanol production from biomass as alternative fuel for spark ignition engine, 2016, RSC Advances, WOS:000369658100065, IF 3.108. <http://pubs.rsc.org/is/content/articlelanding/2016/ra/c5ra24983j#divCitation>
- 9. Cernăianu C. D., Stăncuț A. E., **Tutunea D.**, Humidity relationship determined in the dryind cereal seed fluidized bed, Bulletin of the Transilvania University of Braşov, Proceedings of the Internationally Attended National Conference On Thermodynamic, 21 mai – 22 mai, 2009, Braşov, România, Vol.2(51) Series I, ISSN 2065-2119, Special Issue No.1, Vol.1, 2009, ISBN 978-973-598-521-9, Published by Transilvania University Press Braşov Romania, pag.157. (1 citare)
 - Ling Jing, Teng Zhaozheng, Lin Haijun, Wen He, Infrared drying kinetics and moisture diffusivity modeling of pork, International journal of agricultural and biological engineering, Vol 10, No 3 (2017), WOS:000403582400030, IF 1.267. <http://www.ijabe.org/index.php/ijabe/article/view/2518>
- 10. **Tutunea D.**, Gherghina G., Dumitru I., Dima A., Evaluation of Thermistors Used for Temperature Measurement in Automotive Industry, Applied Mechanics and Materials, Vol. 880, pp. 157-162, 2018 <https://www.scientific.net/Paper/Preview/529514> (1 citare)
 - Yu, N.C., Ri, Y.H. & Kim, C.M. The effects on residual stress in multilayer NTC thermistors during soldering process and bending test (I. soldering process). Microsyst Technol (2020), WOS:000531738100001 IF 2.276. <https://doi.org/10.1007/s00542-020-04855-0>
- 11. **Tutunea D.**, Bica M., Dima A., Computational study of the unsteady flow structures around two vehicles, Journal of industrial design and engineering graphics, Vol. 9, Issue 1, July 2014, pp. 13-16. (2 citări)
 - Noriyasu Omata and Susumu Shirayama, A novel method for unsteady flow field segmentation based on stochastic similarity of direction, AIP Advances 8, 045020 (2018), WOS:000435454600075, IF 1.579. <https://doi.org/10.1063/1.5026152>
 - Noriyasu Omata and Susumu Shirayama, A novel method of low-dimensional representation for temporal behavior of flow fields using deep autoencoder, AIP Advances 9, 015006 (2019); doi: 10.1063/1.5067313, WOS:000457407600007. IF 1.337 <https://aip.scitation.org/doi/pdf/10.1063/1.5067313?class=pdf>
- 12. **Tutunea D.**, Dima A., Bica M., Buculei M., The design of sun visors for automotive industry, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Issue #3, December 2014, pp. 1-4. (1 citare)
 - Szczerba P, Rzucidlo P, Szczerba Z, Drupka G. Vision system supporting the pilot in variable light conditions. Eksploatacja i Niezawodność – Maintenance and Reliability 2019; 21 (1): 60–67, WOS:000454167200008, IF 1,525. <http://dx.doi.org/10.17531/ein.2019.1.8>
- 13. Calbureanu, M., Malciu, R., **Tutunea D.**, Ionescu, A., Lungu, M., Finite Element Modeling of a Spark Ignition Engine Piston Head, Proceedings of the 11th International Conference on Heat Transfer, Thermal Engineering and Environment (HTE'13), Athens, Greece, 14-16 May 2013, ISBN: 978-1-61804-183-8. Recent Advances in Fluid Mechanics and Heat & Mass Transfer, ISSN: 2227-4596, pp. 61-64. (1 citare)
 - Matteo Giacomini, Simone Sissa, Roberto Rosi, Stefano Fantoni, Influence of different temperature distributions on the fatigue life of a motorcycle piston, Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering December 1, 2014 0954407014560201, WOS:000358413800009, IF 0.828. <http://pid.sagepub.com/content/early/2014/12/01/0954407014560201.abstract>
- 14. **Tutunea D.**, Biodiesel market and expected trends in Romania, Annals of the Oradea University Fascicle Of Management and Technological Engineering Volume VII (XVII), 2008 ISSN 1583-0691, Pag 113, Rez. Engleză <http://imtuoradea.ro/auo.fmte/article.php?v1=2008&v2=3> (1 citare)
 - Patrascioiu Mihaela, Rathbauer Josef, Negrea Monica, Zeller Rudolf, Perspectives of safflower oil as biodiesel source for South Eastern Europe (comparative study: Safflower, soybean and rapeseed), Fuel, Volume 111, 2013, Pages 114-119, ISSN 0016-2361, WOS WOS:000321037600014 IF 3,406. <https://doi.org/10.1016/j.fuel.2013.04.012>
- 15. Gheorghe D., **Tutunea D.**, Bică M., Gruia A. and Calbureanu M., A review of hydrogen/diesel fuel blends in internal combustion engines, The XXIIInd National Conference on Thermodynamics with International Participation IOP Conf. Series: Materials Science and Engineering 595 (2019) 012033, <https://doi.org/10.1088/1757-899X/595/1/012033> (2 citări)
 - Jianbing Gao, Shikai Xing, Guohong Tian, Chaochen Ma, Meng Zhao, Phil Jenner, Numerical simulation on the combustion and NOx emission characteristics of a turbocharged opposed rotary piston engine fuelled with hydrogen under wide open throttle conditions, Fuel, Volume 285, 1 February 2021, DOI: 10.1016/j.fuel.2020.119210. WOS: 000588132400155, IF 8.035. <https://www.sciencedirect.com/science/article/abs/pii/S0016236120322067>
 - Santanu Kumar Dash, Suprava Chakraborty, Devaraj Elangovan, A Brief Review of Hydrogen Production Methods and Their Challenges, January 2023, Energies 16(3):1141, WOS:000930029000001, IF 3., <https://www.mdpi.com/1996-1073/16/3/1141>

16. Gherghina G., **Tutunea D.**, Popa D., About digital mock-up for mechanical products, Journal of industrial design and engineering graphics, volume 10, june 2015 pp. 41-44. **(1 citare)**
 - Yepeng Fan, Jianzhong Yang, Jihong Chen, Pengcheng Hu, Xiaoyu Wang, Jianchun Xu, Bin Zhou, A digital-twin visualized architecture for Flexible Manufacturing System, Journal of Manufacturing Systems, Volume 60, 2021, WOS:000690860900001 IF 9,498.
<https://www.sciencedirect.com/science/article/abs/pii/S027861252100114X>
17. **Tutunea D.**, Dumitru I., Otat O.V., Racila L., Geonea I., Matei L., Rotea C., Oxygen Sensor Testing for Automotive Applications, Applied Mechanics and Materials, ISSN: 1662-7482, Vol. 896, pp 249-254, 2020. **(1 citare)**
 - Adil Alsaiyabi, Seth Stroh, Rajib Saha, Investigating the effect of E30 fuel on long term vehicle performance, adaptability and economic feasibility, Fuel, Volume 306, 2021, 121629, ISSN 0016-2361, WOS:000703962100008, IF 8.035.
<https://www.sciencedirect.com/science/article/pii/S0016236121015106>
 - Christian Farinango-Herrera, Joshebet Zambrano-Ramón, Edgar Vicente Rojas-Reinoso, Thermographic Analysis of Exhaust Gas and Emissions by Varying Catalyst Behaviour and Injection Parameters, Energies, 17(6):1417, 2024. WOS:001191763300001, IF 3
<https://www.mdpi.com/1996-1073/17/6/1417>
 - Wojciech Bulowski, Rafał Knura, Robert P. Socha, Maciej Basiura, Katarzyna Skibińska and Marek Wojnicki, Thin Film Semiconductor Metal Oxide Oxygen Sensors: Limitations, Challenges, and Future Progress, Electronics 2024, 13(17), 3409, WOS:001311013800001, IF 2,6
<https://www.mdpi.com/2079-9292/13/17/3409>
18. Fazal Um Min Allah, Bica M., **Tutunea D.**, Biodiesel production and sustainability challenge, Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018), pp 217 - 224, Springer. **(2 citări)**
 - Mahmoud Abd El-Aziz Mohamed, Mostafa A. A. Mahmoud and H. A. El Nagy, Effect of blending biodiesel produced from waste cooking oil on the properties of residual fuel oil: energy saving and the economic cost, RSC Advances 11(52):33017–33026, 2021, WOS:000704922900001, IF 4.036, <https://pubs.rsc.org/en/content/articlelanding/2021/RA/D1RA05450C>
 - Jogendra Jangre, Kanika Prasad, Mathiyazhagan Kaliyan, Dinesh Kumar, Dharmendra Patel, Sustainability assessment of waste cooking oil-based biodiesel plant in developing economy based on F-DEMATEL and F-ISM approaches, Waste Management & Research 40(11):0734242X2211043, 2022, WOS:000829540100001, IF 3.9, <https://journals.sagepub.com/doi/full/10.1177/0734242X221104362>
19. **Tutunea D.**, Dumitru I., Racila L., Otat O.V., Matei L., Geonea I., Characterization of sunflower oil biodiesel as alternative for diesel fuel, Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018), pp 172-180, Springer. **(2 citări)**
 - Salima M. Salim, Raja Izriq, Mahdi M. Almaky, Aisha A. Al-Abbasi, Synthesis and characterization of ZnO nanoparticles for the production of biodiesel by transesterification: Kinetic and thermodynamic studies, Fuel, Volume 321, 2022. IF 8.035, WOS:000799856800005, <https://www.sciencedirect.com/science/article/abs/pii/S0016236122009929?via%3Dihub>
 - Banchapattanasakda, W (Banchapattanasakda, Warintorn) ; Asavatesanupap, C (Asavatesanupap, Channarong) ; Santikunaporn, M (Santikunaporn, Malee), Conversion of Waste Cooking Oil into Bio-Fuel via Pyrolysis Using Activated Carbon as a Catalyst, Molecules, Volume 28, Issue 8, 2023, WOS:000979022700001. IF 4.2. <https://www.mdpi.com/1420-3049/28/8/3590>
 - Puttha, R, Venkatachalam, K, Hanpakdeesakul, S, Wongsu, J, Parametthanuwat, T, Srean, P, Pakeechai, K, Charoenphun, N, Exploring the Potential of Sunflowers: Agronomy, Applications, and Opportunities within Bio-Circular-Green Economy, Horticulturae, Volume 9 Issue10, 2023. IF 3.1 WOS:001095449100001. <https://www.mdpi.com/2311-7524/9/10/1079>
 - Aisha Al-Abbasi, Fatima Almahdi, Mahdi Almaky, Raja Izriq, Asma Milad, Salima Salim, Adel Najar, BaO as a heterogeneous nanoparticle catalyst in oil transesterification for the production of FAME fuel, Inorganic Chemistry Communications, Volume 158, Part 2, 2023, 111620, ISSN 1387-7003, WOS: WOS:001101487800001, IF 4.4
<https://www.sciencedirect.com/science/article/abs/pii/S1387700323012327>
 - Zubiolo, C, de Santana, HEP, Pereira, LL, et al., Bio-Oil Production and Characterization from Corn Cob and Sunflower Stem Pyrolysis, Industrial & Engineering Chemistry Research, Volume 63, Issue 1, 2023, WOS:001140900200001, IF 3.8, <https://pubs.acs.org/doi/10.1021/acs.iecr.3c03337>
 - Lopes, I.S., de O. Silva, F.R. & Courrol, L.C. Aminolevulinic Acid Coated—Silver, Copper, and Silver–Copper Nanoparticles: Synthesis, Characterization, and Application in Seed Nanopriming. J Plant Growth Regul 42, 5842–5854 (2023). WOS:000952087900003, IF 3.9.
<https://doi.org/10.1007/s00344-023-10969-2>
 - Hariprakash Subburayalu Ramesh, Prakash Thiyagarajan, Effect on performance, combustion and emission characteristics of Chlorella vulgaris methyl ester algae in a single cylinder CI engine, Journal of thermal analysis and calorimetry, 2024, WOS:001165065700004, IF 3
<https://link.springer.com/article/10.1007/s10973-024-12899-x>
 - Pathak, SJ, Vairakannu, P, Co-liquefaction of high ash coal and electronic waste plastics: Study of liquefaction reaction kinetics and characterization of the co-liquefied oil, Fuel, vol.390,2025, WOS:001429219800001, IF 6.7,
<https://www.sciencedirect.com/science/article/abs/pii/S0016236125004788>
20. Gheorghe D., **Tutunea D.**, Bică M., Gruia A. and Calbureanu M., Hydrogen a new fuel for internal combustion engines, The XXIIInd National Conference on Thermodynamics with International Participation IOP Conf. Series: Materials Science and Engineering 595 (2019) 012032 **(1 citare)**
 - Merlin Zacharie Ayissi, Ivan Aquigeh Newen, Rhiad Alloune, and Dieudonné Bitondo, Effects of Gasoline and Hydrogen Blends on Exhaust Gas Emissions and Fuel Consumption from Gasoline Internal Combustion Engines, Journal of Combustion 2022(3):1-10, , WOS:000861229600001, IF 0.467 <https://www.hindawi.com/journals/jc/2022/5526205/>
 - K. Thiruselvam, S. Senthil, S. Murugapoopathi, Kassian T.T. Amesho, Sustainable engine transformation: assessing hydrogen enrichment and CeO2 nanoparticle effects on neat palm biodiesel-fueled CI engines, Environment development and sustainability, WOS:001230129200001, 2024, IF 4.7 <https://link.springer.com/article/10.1007/s10668-024-05051-0>
21. Calbureanu, M., Lungu, M., **Tutunea, D.**, Malciu, R., Dima, Al. Modeling with finite element the convective heat transfer in civil building EPS insulated walls. The 10th International Conference on Applied Computer Scienca (ACS'10), pp.79-84, Iwate, Japan, October 4-6, 2010. WOS:000290364500020 **(1 citare)**

- Modi, P., Bushehri, R., Georgantopoulou, C., Mavromatidis, L., Design and development of a mini scale hot box for thermal efficiency evaluation of an insulation building block prototype used in Bahrain. *Advances in Building Energy Research*, 2016, pag. 1-22. WOS:000399057600008, IF 0.864. <https://www.tandfonline.com/doi/abs/10.1080/17512549.2016.1161545>
22. **Tutunea, D.**, Calbureanu, M., Lungu, M., The computational fluid dynamics (CFD) study of fluid dynamics performances of a resistance muffler, *International Journal of Mechanics*, Issue 4, Volume 7, ISSN: 1998-4448, pp. 401- 408, 2013.
- Saadabadi M, Samimi M, Hosseinlghab H. Organized Computational Measurement to Design a High-Performance Muffler. *Metrology*. 2023; 3(3):254-279, IF WOS:001375158300001 <https://doi.org/10.3390/metrology3030015>
 23. Dumitru M.G., **Tutunea D.**, Extraction and Determination of Physico-chemical Properties of Oil from Watermelon Seeds (*Citrullus lanatus* L) to Use in Internal Combustion Engines, *Revista de chimie*, 68, nr.11, Volume 2017, pp. 2676 – 2681, ISSN: 0034-7752, WOS:000416751800043. **(1 citare)**
- Fatiha Brahmi, Boualem Chennit, Houria Batrouni, Kenza Benallaoua, Khodir Madani, Lila Boulekbache-Makhlouf, Valorization of apricot, melon, and watermelon by-products by extracting vegetable oils from their seeds and formulating margarine, *OCL*, Volume 30, 2023. WOS:001010963300001, IF 1.8. <https://www.ocl-journal.org/articles/ocl/full.html/2023/01/ocl220068/ocl220068.html>
 24. **Tutunea D.**, Study of the variation of kinematic viscosity and density of various biodiesel blends with temperature, *Revista de chimie*, 69, nr.7, Volume 2018, pp. 1645 – 1648.
- Song, WW (Song, Weiwei) ; Wang, MY (Wang, Mengying) ; Zhao, YX (Zhao, Yixuan) ; Bo, Y (Bo, Yu) ; Yao, WY (Yao, Wanying) ; Chen, RH (Chen, Ruihan) ; Wang, XS (Wang, Xianshi) ; Wang, XY (Wang, Xiaoyan) ; Li, CH (Li, Chunhui) ; He, KB (He, Kebin), Low-condensation diesel use contributes to winter haze in cold regions of China, *Environmental science and ecotechnology*, Volume 22, 2024 WOS:001293418200001, IF 14.1 <https://www.sciencedirect.com/science/article/pii/S266649842400070X>
- S.B. Anjappa, D.K. Ramesha, Experimental Investigation of the Effects of a Reduced Exhaust Gas Re-circulation Rate on the Performance and Emissions of CI Engines Running on Biodiesel made from Dairy Waste Scum Oil, *Journal of Research and Applications in Mechanical Engineering*, Volume 13, Issue 1, 2025
 25. Gherghina G., **Tutunea D.**, Popa D., Bogdan M., Lambrache N., The Method of Design and Manufacturing of the Gear Hobbing Cutter with Bulges, *Applied Mechanics and Materials* Vol. 657 (2014) pp. 13-17, doi:10.4028/www.scientific.net/AMM.657.13., ISBN:978-3-03835-275-4, ISSN: 1660-9336, WOS:000348898000003.
- Hodgyai, N (Hodgyai, Norbert) ; Máté, M (Mate, Marton) ; Oancea, G (Oancea, Gheorghe) ; Dragoi, MV (Dragoi, Mircea-Viorel), Gear Hobs-Cutting Tools and Manufacturing Technologies for Spur Gears: The State of the Art, *Materials*, Volume 17, Issue13, 2024 WOS:001269756100001, IF 3.1 <https://pubmed.ncbi.nlm.nih.gov/38998302/>
 26. **Tutunea D.**, Ilie D., Racila L., Geonea I., Otat O. and Matei L., Application of thermogravimetric analysis for thermal characterization of walnut oil and biodiesel, *Annual Session of Scientific Papers "IMT ORADEA 2019" IOP Conf. Series: Materials Science and Engineering* 568 (2019) 012075.
- Mihael Irgolič, Maja Čolnik, Petra Kotnik, Lidija Čuček, Mojca Škerget, Hydrothermal recycling of polyolefins as potential alternative method for fuel production, *Journal of Cleaner Production*, Volume 463, 2024, 142718, ISSN 0959-6526, WOS:001249889800001, IF 9.7 <https://www.sciencedirect.com/science/article/abs/pii/S0959652624021668?via%3Dihub>
 27. Otat O.V., Dumitru I., Racila L., **Tutunea, D.**, Matei L., Analysis on the Dynamic Performance of Vehicles, *Advanced Engineering Forum*, Volume 42, pp.71-78, 2021.
- Jarso, GC, Nallamotheu, RB, Gopal, R, Jin, GG, Investigation on steady state performance of hydrodynamic automatic transmission vehicle, *Energy Conversion And Management-X*, 2024, WOS:001288175000001, IF 7.1 <https://www.sciencedirect.com/science/article/pii/S2590174524000801?via%3Dihub>
 28. Gheorghe D., Tutunea D., Bică M., Gruia A. and Calbureanu M., Study of the thermal stability of biodiesel and diesel fuel, *The XXIInd National Conference on Thermodynamics with International Participation IOP Conf. Series: Materials Science and Engineering* 595 (2019) 012039, <https://doi.org/10.1088/1757-899X/595/1/012039>
- Aremo, A.-A.E.; Oluwadare, A.O.; Aremo, J.O.; Celik, H.; Heyne, J.; Han, Y.; Simmons, B.A. Characterization of Kariya (Hildegardia barteri (Mast.) Kosterm) Seed Oil Fatty Acid Methyl Ester Prepared from Basic Catalytic Transesterification, *Sustainability* 2025, 17, 858. WOS:001419434700001, IF 3.3 <https://doi.org/10.3390/su17030858>

IF (impact factor), NA (non available - nu este disponibil pentru jurnale din 2024/2025)

Citări în ISI Proceedings

1. **Tutunea D.**, Bica M., Dumitru I., Dima A.M., Study of Emission of a Mono Cylindrical Diesel Engine Fueled with biodiesel of palm oil, *Applied Mechanics and Materials* Vol. 823 (2016) pp. 297-302. **(1 citare)**
- F Um Min Allah, Alexandru G., Waste cooking oil as source for renewable fuel in Romania, *IOP Conference Series Materials Science and Engineering*, 2016, WOS:000390720200133. <https://iopscience.iop.org/article/10.1088/1757-899X/147/1/012133/pdf>
2. Lungu, M., Lungu, R., **Tutunea, D.** Control of Aircraft Landing using the Dynamic Inversion and the H-inf Control. *Proceedings of the 17th International Carpathian Control Conference (ICCC 2016)*, Tatranská Lomnica, Slovak Republic, May 29 - June 1, 2016, ISBN:978-1-4673-8606-7, pag. 461-466. WOS: 000389829000087 **(4 citări)**
- M. Lungu and R. Lungu, "The control of airplane landing in longitudinal and lateral-directional planes by using the H-inf control," 2017 18th International Carpathian Control Conference (ICCC), Sinaia, 2017, pp. 11-16. WOS:000426954400004. <https://ieeexplore.ieee.org/document/7970363>
- D. Ding, J. Che and W. Q. Qian, "Fault-Tolerant Flight Control for Aircraft Wing Icing Based on Icing Detection Method," 2018 IEEE CSAA Guidance, Navigation and Control Conference (CGNCC), Xiamen, China, 2018, pp. 1-6. WOS:000559788700114. <https://ieeexplore.ieee.org/document/9018871>

- M. Lungu, R. Lungu, C. Efrim and O. Boubaker, Backstepping Control of Magnetically Suspended Double-Gimbal Control Moment Gyroscope, 2020 24th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2020, pp. 154-159, WOS:000646582900027 doi: 10.1109/ICSTCC50638.2020.9259649. <https://ieeexplore.ieee.org/abstract/document/9259649>
- W. Yang, I. Zhou, J. Lu and L. Song, "Research and analysis of active disturbance rejection control technology for carrier aircraft landing," 2021 3rd International Academic Exchange Conference on Science and Technology Innovation (IAECST), 2021, pp. 337-345. <https://ieeexplore.ieee.org/abstract/document/9695797>
3. Popa D., Duta A., Pitru A., **Tutunea D.**, Gherghina G., About the simulation environment for dental implant studies, in Scientific Buletin of the Politehnica University of Timisoara, Romania, Transactions of Hydrotechnics, Tom 58(72), Fasciolă suplimentară, 2013, ISSN 1224-6042, pp 137-140. **(1 citare)**
- Popa D., Buciu G., Calin D.C., Popkonstantinovic B., Poenaru F., CAD, CAE and rapid prototyping methods applied in long bones orthopaedics, FME Transactions, 2019, vol. 47, iss. 2, pp. 279-286, WOS:000457613800010. <https://scindeks.ceon.rs/article.aspx?artid=1451-20921902279P&lang=en>
4. Popa, D.L., Gherghina, G., Duta, A., **Tutunea, D.**, Ciunel, S. (2014) The methods and techniques used for the human bones virtual reconstruction. in: 4th International Scientific Conference on Geometry and Graphics moNGeometrija, Proceedings of, vol. 1, pp. 189-198. **(1 citare)**
- Popa, D., Buciu, G., Calin, D., Popkonstantinović, B. & Poenaru, F. 2019, "CAD, CAE and rapid prototyping methods applied in long bones orthopaedics", FME Transactions, vol. 47, no. 2, pp. 279-286. WOS:000457613800010. <https://scindeks.ceon.rs/article.aspx?artid=1451-20921902279P>
5. Popa D, **Tutunea D.**, Gherghina G., Ciunel St. Methods used for the virtual human bones and joints reconstruction. normal and pathological human joints virtual simulations, Journal of industrial design and engineering graphics volume 10, june 2015 pp.49-54. **(1 citare)**
- Popa D., Buciu G., Calin D.C., Popkonstantinovic B., Poenaru F., CAD, CAE and rapid prototyping methods applied in long bones orthopaedics, FME Transactions, 2019, vol. 47, iss. 2, pp. 279-286, WOS:000457613800010. <https://scindeks.ceon.rs/article.aspx?artid=1451-20921902279P&lang=en>
6. Cernăianu, C. D., Stăncuț, E., **Tutunea, D.**, Termotehnică și echipamente termice, Lucrări practice, Seria Termotehnica, 129 pag., Editura Universitaria, Craiova, 2009, ISBN 978-606-510-487-7. **(1 citare)**
- A. Cernaianu, D. Popescu, C. Cernaianu and M. Ciurezu, "Studies on the determination of process parameter variation at dry monodisc braking, 2018 International Conference on Applied and Theoretical Electricity (ICATE), Craiova, 2018, pp. 1-8. WOS:000487278600076, <https://ieeexplore.ieee.org/abstract/document/8551463>
7. **Tutunea D.**, Ilie D., Racila L., Geonea I., Otat O. and Matei L., Application of thermogravimetric analysis for thermal characterization of walnut oil and biodiesel, Annual Session of Scientific Papers "IMT ORADEA 2019" IOP Conf. Series: Materials Science and Engineering 568 (2019) 012075, **(1 citare)**
- Pratoto, A., Abhen, A.J., Thermogravimetric Analysis of Densified Coco Peat Briquettes, IOP Conference Series: Materials Science and Engineering, Article number 0120531, st International Colloquium on Computational and Experimental Mechanics, ICCCEM 2020, Selangor, 25 June 2020 - 26 June 2020, 167192, <https://iopscience.iop.org/article/10.1088/1757-899X/1062/1/012053>
8. Grecu D.R., Biță M. G., **Tutunea D.**, Popescu A., Bică M., The importance of medicago sativa extract on the oxidative stability of biodiesel in the Journal of Environmental Protection and Ecology 13, No 2A, ISSN 1311-5065, pp 1061-1069, 2012, ISSN: 1311-5065, WOS:000310557400033. IF 0.259 **(1 citare)**
- Hemanandh Janarthana, Venkatesan Sorakka Ponnappan, Purushothaman Mani, Ganesan Subbiah, B. Shanjiit, and Tejual Krishna, Environmental emission control in CI engine using hydro treated bio-fuel in India, AIP Conference Proceedings 2311, WOS:000656372100051, 2020, <https://aip.scitation.org/doi/abs/10.1063/5.0034184>
9. **Tutunea D.** and Dumitru I., Analysis of performance and emissions of diesel engine using sunflower biodiesel, IOP Conf. Series: Materials Science and Engineering, IOP Publishing, Volume 252, 2017, DOI: 10.1088/1757-899X/252/1/012085, ISSN: 1757-8981, WOS:000419817200085. **(1 citare)**
- K. Manjunatha, Hiregoudar Yerrennagoudaru, KG. Prakash, Suhas Bhat, Shadab Khan, Mohammed Saifuddin, Investigation of effect of ceramic material over which platinum coated piston crown and alcohols mixed with vegetable oils and its performance evaluation in Twin cylinder CRDI diesel engine, Materials Today: Proceedings, 2021, WOS:000704989900036. <https://www.sciencedirect.com/science/article/pii/S2214785321036531?via%3Dihub>
10. **Tutunea D.** and Gruia A., Emissions and performance of a single cylinder diesel engine using walnut-diesel blends, The 8th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conf. Series: Materials Science and Engineering, nr.444, 2018, doi:10.1088/1757-899X/444/8/082004, ISSN: 1757-8981 **(1 citare)**
- S.Vignesh, R.Rathishb, S.Johnpriyanb, K.Nandha kumarb, I.Sujin, Study on emission reduction techniques by in-cylinder reduction method for compression ignition engines, Materials Today: Proceedings, Volume 66, Part 3, 2022, Pages 1267-1275, WOS:000863080000015 <https://www.sciencedirect.com/science/article/pii/S2214785322034046>
11. **Tutunea D.**, Gherghina G., Dumitru I., Dima A., Evaluation of Thermistors Used for Temperature Measurement in Automotive Industry, Applied Mechanics and Materials, Vol. 880, pp. 157-162, 2018 <https://www.scientific.net/Paper/Preview/529514>
- Oleksandr Andreiev, Olga Andreieva, Fedir Abramov, Measuring Complex for Determination of Temperature Characteristics of Thermistors, Conference: 2023 IEEE 13th International Conference on Electronics and Information Technologies (ELIT),
- Rao, A, Gupta, H, et al., Optimizing Electric Vehicle Efficiency with Real-Time Telemetry using Machine Learning, 2024 10th International Conference On Mechatronics And Robotics Engineering, ICMRE Pag 213-219, WOS:001234588200047, <https://ieeexplore.ieee.org/document/10532195>
12. Dumitru M.G., Badea D.N., **Tutunea D.**, Determination of physicochemical properties and emissions for different blends of biodiesel from watermelon(citrullus lanatus l.) seeds and diesel fuel, Revista de chimie, 68, nr.12, Volume 2017, pp. 2771 – 2775, ISSN: 0034-7752, WOS:000423261900009, IF 1,412

Citări în BDI

1. Bită, G., Grecu, **Tutunea, D.**, R., Popescu, A., Bica, M., Role of the Extract Obtained from Seeds of Vitis Vinifera on the Oxidative Stability of Biodiesel, Revista de Chimie, pp.1090 - 1093, 60, nr.10, 2009. WOS:000272273600020.IF0.552 (**2 citări**)
 - A. Ivanoiu, A. Schmidt, F. Peter, L.M. Rusnac and M. Ungurean, Comparative Study on Biodiesel Synthesis from Different Vegetables Oils, Chemical Bulletin of "Politehnica" University of Timisoara, ROMANIA Series of Chemistry and Environmental Engineering, Volume 56(70), 2, 2011. [http://www.chemicalbulletin.ro/admin/articole/63698art_8\(94-98\).pdf](http://www.chemicalbulletin.ro/admin/articole/63698art_8(94-98).pdf)
 - Manuela Manda, Mihaela Gabriela Dumitru, Carmen Nicu, Effects of humic acid and grape seed extract on growth and development of spathiphyllum wallisii regel, South Western Journal of Horticulture, Biology and Environment, Vol.5 , No.2, 2014, pp. 125-136. http://www.biozoojournals.ro/swjhbe/v5n2/05_swjhbe_v5n2_Manda.pdf
2. Lungu, R., Bogarzi, Lungu, M., M., Popa, D., **Tutunea, D.**, Calbureanu, M. New methods for the simulation with finite element of the human elbow. International conference of the Institute for Environment, Engineering, Economics and Applied Mathematics (IEEE.AM): Circuits, Systems, Signals (CSS), pp.45-50, Malta, September 15-17, 2010. WOS:000290360900021. (**2 citări**)
 - Stefanita Ciunel, Dragos Laurentiu Popa, Nicolae Dumitru, Studies about Movement Biofidelity of a Dummy Neck Used in an Impact Testing Device, Applied Mechanics and Materials (Volume 371), pag.539-543. <http://www.scientific.net/AMM.371.539>
 - Chetna Masih, Raji Nareliya, Veerendra Kumar, Finite Element Application to Human Humerus Bone: A Biomechanical Study, Proceedings of All India Seminar on Biomedical Engineering 2012 (AISOB 2012) Lecture Notes in Bioengineering 2013, pp 99-109. http://link.springer.com/chapter/10.1007/978-81-322-0970-6_12
3. Calbureanu, M., Malciu, R., **Tutunea, D.**, Ionescu, A., Lungu, M., Finite Element Modeling of a Spark Ignition Engine Piston Head, Proceedings of the 11th International Conference on Heat Transfer, Thermal Engineering and Environment (HTE'13), Athens, Greece, 14-16 May 2013, ISBN: 978-1-61804-183-8. Recent Advances in Fluid Mechanics and Heat & Mass Transfer, ISSN: 2227-4596, pp. 61-64 (**4 citări**)
 - Alabi Ismaila Olanrewaju, Olaiya Kamorudeen Adesina, Kareem Mutiu Olalekan, Numerical Simulation of Temperature Distribution in A Tri-Cycle Engine Piston, International Journal of Scientific & Engineering Research, Volume 6, Issue 7, July-2015, ISSN 2229-5518, pp. 252-258. <http://www.ijser.org/researchpaper%5C Numerical-Simulation-of-Temperature-Distribution-in-A-Tri-Cycle-Engine-Piston.pdf>
 - Elena Ferretti, Some new findings on the mathematical structure of the cell method, International journal of mathematical models and methods in applied sciences, Volume 9, 2015, ISSN: 1998-0140, pp. 473-486. http://www.researchgate.net/profile/Elena_Ferretti/publication/279531136_Some_New_Findings_on_the_Mathematical_Structure_of_the_Cell_Method/links/55956fc108ae99aa62c7277b.pdf
 - Elena Ferretti, The mathematical foundations of the cell method, International journal of mathematical models and methods in applied sciences, Volume 9, 2015, ISSN: 1998-0140, pp. 362-379. <http://www.naun.org/main/NAUN/ijmmas/2015/a862001-367.pdf>
 - Suls, J., Nelson, Z. Multi-physics Design and Thermal Analysis of an IC Engine Piston and Cylinder, 2016. https://www.researchgate.net/publication/330423125_PRELIMINARY_REPORT_Multi-physics_Design_and_Thermal_Analysis_of_an_IC_Engine_Piston_and_Cylinder
4. Calbureanu M.X., Malciu R., **Tutunea D.**, Ionescu A., Lungu M. The finite element analysis of the thermal stress distribution of a piston head, International Journal of Mechanics, Issue 4, Volume 7, ISSN: 1998-4448., 467-474, 2013. <http://www.naun.org/main/NAUN/mechanics/d142003-120.pdf> (**14 citări**)
 - S.Sathishkumar, M.Kannan, Structural, thermal and thermo-mechanical analysis of four stroke petrol engine piston using CAE tools., International Conference On Innovations And Challenges In Engineering And Technology - ICICET '18, ISBN 978-93-5291-751-8 https://www.researchgate.net/profile/S_Sathishkumar2/publication/324390157_STRUCTURAL_THERMAL_AND_THERMO-MECHANICAL_ANALYSIS_OF_FOUR_STROKE_PETROL_ENGINE_PISTON_USING_CAE_TOOLS/links/5acc804c4585151e80abb107/STRUCTURAL-THERMAL-AND-THERMO-MECHANICAL-ANALYSIS-OF-FOUR-STROKE-PETROL-ENGINE-PISTON-USING-CAE-TOOLS.pdf
 - S.Balakrishnan, T. Suresh Prabu, M.Natrayan, Design and Analysis of Partially Ceramic Coated Connecting Rod, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 5, Issue 4, April 2016, pp 5335 - 5339. http://www.ijirset.com/upload/2016/april/157_Design.pdf
 - Jatender Datta, Sahib Sartaj Singh, Comparison the Behavior of Cast Iron and Carbon Graphite as Piston Materials Applied Thermal Load as Heat Flux Using Finite Element Analysis, International Journal of Emerging Technologies in Engineering Research (IJETER) Volume 5, Issue 10, October (2017), pp. 169 - 172. <http://www.ijeter.everscience.org/Manuscripts/Volume-5/Issue-10/Vol-5-issue-10-M-25.pdf>
 - Vishal Kumar Shrivastava, Alok Agrawal, Thermal Analysis of a Diesel Piston with different material parameter, International Journal of Advanced Scientific and Technical Research, Issue 7 volume 2 March-April 2017, pp. 214 - 225. <https://rpublication.com/ijst/2017/april/23.pdf>
 - Syed Arif Ali, Nalla Suresh, Elumagandla Surendar, Static and thermal analysis of piston with different thermal coatings, International Research Journal of Engineering and Technology (IRJET), pp 1255-1267, <https://www.irjet.net/archives/V5/i10/IRJET-V5I10239.pdf>
 - Rastogi, V.K. Static Structural Analysis of a Forged Aluminum High-Performance Piston. International Journal of Engineering Trends and Technology (IJETT, ISSN: 2231-5381), vol. 47, nr. 6, 2017, pag. 356-360, DOI: 10.14445/22315381/IJETT-V47P258. https://www.researchgate.net/publication/318499429_Static_Structural_Analysis_of_a_Forged_Aluminum_High-Performance_Piston

- Nimbarte, V.R., Khamankar, S.D. Stress analysis of piston using pressure load and thermal load. IPASJ International Journal of Mechanical Engineering (IJME, ISSN: 2321-6441), vol. 3, nr. 8, 2015, pag. 1-8. <https://ipasi.org/IJME/Volume3Issue8/IJME-2015-07-22-1.pdf>
- Sathishkumar S., Kannan M., Topology optimization of integrated combustion engine piston using FEA method (CAE tools), Acta Mechanica Malaysia (AMM) 2(1) (2019) 01-05, <http://doi.org/10.26480/amm.01.2019.01.05>
- Nandakumar N., Arunkumar P., Simulation and Experimental Investigation on Engine Piston to Reduce Noise, International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653, 2019, pp 79-85. <http://doi.org/10.22214/ijraset.2019.3014>
- S. Sathishkumar, Dr.M.Kannan, Structural, Thermal And Thermo-Mechanical Analysis Of Four Stroke Petrol Engine Piston Using Cae Tools. Acta Mechanica Malaysia, 3(1): 05-10, 2020. <https://actamechanicamalaysia.com/amm-01-2020-05-10/>
- Jatender Datta, Sahib Sartaj Singh, Comparison of carbon graphite piston with other materials by using finite element analysis method where temperature applied on the top of piston head, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5 Issue IX, September 2017, pp 289 -296. <http://ijraset.com/files/serve.php?FID=9791>
- Tawfeeq. N. Hussein, Minah. M. Fareed, Hussein Al-Gburi, Modelling And Finite Element Analysis For The Engine Cylinder Head Under Nonlinear Dynamic Thermal Mechanical Loading, Journal of Mechanical Engineering Research and Developments, Vol. 43, No. 3, pp. 321-331, 2020. [https://jmerd.net/Paper/Vol.43.No.3\(2020\)/321-331.pdf](https://jmerd.net/Paper/Vol.43.No.3(2020)/321-331.pdf)
- Z R Lee and P X Ku, Geometry design and optimization of piston by using finite element method, Journal of Physics: Conference Series 2120 (2021) 012013, <https://iopscience.iop.org/article/10.1088/1742-6596/2120/1/012013/pdf>
- Nguyen The Truc, Tran Anh Duc, Nguyen Cam Van, Nguyen Khac Tung, Hoang Dinh Long, Trinh XuanPhong, and Khanh Nguyen Duc, Mechanical and Thermal Load Effect on Piston Crown of a Biogas Engine: A Simulation Approach, ASEAN Journal on Science and Technology for Development, Vol 39, No 3, 2022, 125–131. <https://www.ajstd.org/index.php/ajstd/article/view/870/563>
5. Calbureanu, M., Lungu, M., **Tutunea, D.**, Malciu, R., Dima, Al. Modeling with finite element the convective heat transfer in civil building EPS insulated walls. The 10th International Conference on Applied Computer Scienca (ACS'10), pp.79-84, Iwate, Japan, October 4-6, 2010. WOS:000290364500020 (1 citare)
- Ciunel s., Popa D., Dumitru N., Studies about Movement Biofidelity of a Dummy Neck Used in an Impact Testing Device, Applied Mechanics and Materials, 2013, Volume 371, pp. 539-543. <http://www.scientific.net/AMM.371.539>
6. Calbureanu, M., A Ibota E., **Tutunea, D.**, Dumitru S., Malciu, R., Dima, Al., Contributions above the dew-point problem in civil building EPS insulated walls modeling with finite element the convective heat transfer, International Journal of Mechanics, Issue 3, Volume 4, 2010, pp. 53 – 62. (6 citări)
- Hannah Nyambara Ngugi, James Wambua Kaluli, Zachary Abiero-Gariy, Use of Expanded Polystyrene Technology and Materials Recycling for Building Construction in Kenya, American Journal of Engineering and Technology Management, 2017; 2(5): pp. 64-71 <http://www.sciencepublishinggroup.com/journal/paperinfo?journalid=102&doi=10.11648/j.ajetm.20170205.12>
- Mohamad Kharseh, York Ostermeyer, Claudio Nägeli, Izabela Kurkowska, Holger Wallbaum, Humid Wall: Review on Causes and Solutions, World Sustainable Built Environment Conference 2017 Hong Kong, pp 675-681, https://www.researchgate.net/profile/Mohamad_Kharseh/publication/317345950_Humid_Wall_Review_on_Causes_and_Solutions/links/59353e250f7e9bee7d3a4a7/Humid-Wall-Review-on-Causes-and-Solutions.pdf
- Călbureanu, Mădălina Xenia, Raluca Malciu, Diana Mara Calbureanu, and Anca Mihaela Barbu, Contributions Regarding the Implementation Nzeb Concept in Existing Public Buildings, Applied Mechanics and Materials 896 (February 2020): 329–36. <https://doi.org/10.4028/www.scientific.net/amm.896.329>
- Mohamed A. Sherif, Saber Kh. Elmabrouk, Abdelwahed H. Elalem, Risk Assessment of EPS in Building and Construction Projects: A New Technology in the Libyan Market, Proceedings of the International Conference on Industrial Engineering and Operations Management Bandung, Indonesia, March 6-8, 2018, <http://ieomsociety.org/ieom2018/papers/398.pdf>
- Mogoșanu Barbu, Anca Mihaela, Mădălina Xenia Călbureanu, and Ludovic Gheorghe Kopenetz. "Experimental Determinations for the Massive Masonry Resistance of Patrimony Buildings Subjected to the Action of Environmental Factors and Mechanical Demands." Applied Mechanics and Materials 880 (March 2018): 335–40. <https://doi.org/10.4028/www.scientific.net/amm.880.335>
- Calbureanu - Popescu D.M., Malciu R., Fudulache O., Calbureanu – Popescu M.X., The efficiency of cellulose - green materials and technology used in thermal insulation for saving energy in nzeb buildings, Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering Vol. 64, Issue Special II, February, 2021, <https://atna-mam.utcluj.ro/index.php/Acta/article/viewFile/1529/1251>
7. **Tutunea, D.**, Calbureanu, M., Lungu, M., Computational fluid dynamics analysis of a resistance muffler, Proceedings of the 11th International Conference on Heat Transfer, Thermal Engineering and Environment (HTE'13), Athens, Greece, 14-16 May 2013, ISBN: 978-1-61804-183-8. Recent Advances in Fluid Mechanics and Heat & Mass Transfer, ISSN: 2227-4596, pp. 31-34. (5 citări)
- Patel Praful M., Gajjar Swastik R., A Literature Review on Design and Development of Industrial Generator Silencer, IJSRD - International Journal for Scientific Research & Development, Vol. 3, Issue 01, 2015 | ISSN (online): 2321-0613. <http://www.ijrd.com/articles/IJSRDV3I1188.pdf>
- Prasad V.Shinde, P.M.Gavali, R.A.Barawade, Y.B.Mohite, P.B.Shinde, A Review on Muffler Design for Exhaust Noise Attenuation, International Journal of Engineering and Technology (IJET), Vol 9 No 3S July 2017, pp 428 – 431. <http://www.enggjournals.com/ijet/docs/IJET17-09-03S-066.pdf>
- S.Rajadurai, Suraj Sukumaran,P.Madhusudhanan, CFD Analysis for Flow through Glass Wool as Porous Domain in Exhaust Muffler, International Journal of Innovative Science, Engineering & Technology, Vol. 1 Issue 7, September 2014, pp 341-347 http://www.ijiset.com/v1s7/IJISSET_V1_I7_50.pdf
- Sachin P. Chinchole, R.R. Borse, R.Y. Patil, Thermal Analysis of Muffler Guard for HERO XTREME 200R Bike Using FEA and CFD Technique, International Research Journal of Engineering and Technology (IRJET), Volume 06, Issue 07, 2019, pp 1855 – 1859. <https://www.irjet.net/archives/V6/i7/IRJET-V6I7256.pdf>

- Sachin P. Chinchole, R.R. Borse, R.Y. Patil, Experimental and CFD Analysis of Muffler Guard of Two Wheeler for XTREME 200R Bike, International Journal on Recent Technologies in Mechanical and Electrical Engineering (IJRMEE), Volume: 6, Issue: 6, pp 44 – 48, SSN: 2349-7947, 2019. <http://ijrmee.org/index.php/ijrmee/article/view/344/340>
10. **Tutunea D.**, Thermal investigation of biodiesel blends derived from rapeseed oil, Journal of Thermal Analysis and Calorimetry, ISSN 1388-6150, DOI 10.1007/s10973-012-2213-x, January 2013, Volume 111, Issue 1, pp 869-875, Springer. WOS:000313207400110. IF 2.206 (3 citări).
 - Wenyu Luo, Wenyu Du, Yi Su, Jiejie Hui, Jing Zhuang, Lili Liu, Growth Characteristic of the Oleaginous Microalga Chlorella ellipsoidea SD-0701 with Lipid Accumulation, Natural Resources, 2015, 6, pp. 130-139. http://file.scirp.org/Html/4-2000485_54257.htm
 - Jerzy Franciszek Biełkowski, Radosław Dąbrowicz, Małgorzata Holka, Janusz Jankowiak, Carbon Footprint of Rapeseed in Conventional Farming: Case Study of Large-Sized Farms in Wielkopolska Region (Poland), Asian Journal of Applied Science and Engineering, Volume 4, No 3/2015, ISSN 2305-915X(p); 2307-9584(e) <http://journals.abc.us.org/index.php/ajase/article/view/744/544>
 - Mokhtar Benziane, Kamel Khimeche, Abdellah Dahmani, Sawsen Nezar & Djalal Trache (2012) Experimental determination and prediction of (solid+liquid) phase equilibria for binary mixtures of heavy alkanes and fatty acids, Molecular Physics, 110:11-12, 1383-1389, DOI: 10.1080/00268976.2011.650229 <https://www.tandfonline.com/doi/abs/10.1080/00268976.2011.650229>
 9. Dima A., Dumitru I., **Tutunea D.**, Evaluation of performance and emissions characteristics of methanol blend (gasohol) in a naturally aspirated spark ignition engine, IOP Publishing, 252, 2017. WOS:000419817200086 (5 citări).
 - Abdulfatah Abdu Yusuf, Freddie L. Inambao, Progress in alcohol-gasoline blends and their effects on the performance and emissions in SI engines under different operating conditions, International Journal of Ambient Energy, <https://www.tandfonline.com/doi/abs/10.1080/01430750.2018.1531261>
 - Suresh Devunuri and Porpatham E, Investigations on effects of ethanol blending on performance and combustion characteristics of gasoline fuelled lean burn SI engine, IOP Conf. Series: Earth and Environmental Science 265 (2019) 012019. <https://iopscience.iop.org/article/10.1088/1755-1315/265/1/012019/pdf>
 - Doğan, B., Yeşilyurt, M., Erol, D., Çakmak, A. (2020). A Study Toward Analyzing the Energy, Exergy and Sustainability Index Based on Performance and Exhaust Emission Characteristics of a Spark-Ignition Engine Fuelled with the Binary Blends of Gasoline and Methanol or Ethanol, International Journal of Engineering Research and Development, 12 (2), 529-548. https://dergipark.org.tr/en/pub/umagd/issue/53191/728802#article_cite
 - Tri Susilo Wirawan, Andi Erwin Eka Putra, Nasruddin Aziz, Gasoline Engine Performance, Emissions, Vibration And Noise With Methanol-Gasoline Fuel Blends, IOP Conf. Series: Earth and Environmental Science 927 (2021) 012027, <https://iopscience.iop.org/article/10.1088/1755-1315/927/1/012027>
 - Girişen, A. R., Özcan, H., Çakmak, A. & Geneş, B. (2021). A study on the estimation of fuel consumption and emitted emissions from vehicles in Turkey until 2050, International Journal of Automotive Engineering and Technologies, 10 (3), 118-125, 2021, <https://dergipark.org.tr/en/pub/ijaet/issue/65743/815450>
 10. Lungu, M., Lungu, R., **Tutunea, D.** Control of Aircraft Landing using the Dynamic Inversion and the H-inf Control. Proceedings of the 17th International Carpathian Control Conference (ICCC 2016), Tatranská Lomnica, Slovak Republic, May 29 - June 1, 2016, ISBN:978-1-4673-8606-7, pag. 461-466. WOS: 000389829000087 (9 citări)
 - Rosa, M., Gallego, A., Camacho, E. Maniobra de aterrizaje automatica de una Cessna 172P modelada en FlightGear y controlada desde un programa en C. Actas de las XXXVIII Jornadas de Automática, 2017, pp. 31-37. http://digibuo.uniovi.es/dspace/bitstream/10651/46413/2/ActasJA2017_MdelaRosaetal..pdf
 - Wu, W., Zhang, Y., HU, Y., Zhang, Y. Research development in nonlinear backstepping control method of carrier-based aircraft landing. Systems Engineering and Electronics, vol. 40, nr. 7, pag. 1578-1587, 2018. <http://www.sys-ele.com/CN/abstract/abstract6336.shtml>
 - Zhou, J., Jiang, J., Yu, C., Xiao, D. Carrier aircraft dynamic inversion landing control based on improved neural network. Journal of Harbin Engineering University, vol. 39, nr. 10, 2018, pag. 1649-1654, DOI: 10.11990/jheu.201705004 https://www.researchgate.net/publication/329526473_Carrier_aircraft_dynamic_inversion_landing_control_based_on_improved_neural_network
 - Mihai Ioan, Mihai Lungu, Romulus Lungu, Control of the satellites' attitude using a pyramidal configuration of four variable speed control moment gyros, U.P.B. Sci. Bull., Series D, Vol. 79, Iss. 2, 2017. https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez298_322824.pdf
 - A. Mahmood, A. I. Bhatti and B. A. Siddique, "Landing of Aircraft Using Integral State Feedback Sliding Mode Control," 2019 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), Swat, Pakistan, 2019, pp. 1-6. <https://ieeexplore.ieee.org/document/8940802/references#references>
 - Shahad Sami Ali, Position control of ball and beam system using robust H[∞] Loop shaping controller, Indonesian Journal of Electrical Engineering and Computer Science, 19 (1), pp. 91-98, 2020. <http://ijeecs.iaescore.com/index.php/IJECS/article/view/20351/13869>
 - Mihai Ioan, Mihai Lungu, Romulus Lungu, Determination and Control of the Satellites' Attitude by using a Pyramidal Configuration of Four Control Moment Gyros, January 2015 UPB Scientific Bulletin, Series D: Mechanical Engineering 1(2):448-456, <https://www.scitepress.org/Link.aspx?doi=10.5220/0005507304480456>
 - W. Yang, I. Zhou, J. Lu and L. Song, Research and analysis of active disturbance rejection control technology for carrier aircraft landing, 2021 3rd International Academic Exchange Conference on Science and Technology Innovation (IAECST), Guangzhou, China, 2021, pp. 337-345, doi: 10.1109/IAECST54258.2021.9695797. <https://ieeexplore.ieee.org/document/9695797>
 - Afrah A. Ali, Nizar H. Abbas, Ahmed Hameed Kaleel, Automatic Aircraft Landing System: A Review, Vol. 30 No. 9 (2024): Journal of Engineering, <https://joe.uobaghdad.edu.iq/index.php/main/article/view/2803?articlesBySimilarityPage=26>
 11. **Tutunea, D.**, Calbureanu, M., Lungu, M., The computational fluid dynamics (CFD) study of fluid dynamics performances of a resistance muffler, International Journal of Mechanics, Issue 4, Volume 7, ISSN: 1998-4448, pp. 401- 408, 2013. (6 citări)

- Saripalli, P., Sankaranarayana, K. CFD Analysis on Flow Through a Resistance Muffler of LCV Diesel Engine. International Journal of Science, Technology and Society. vol. 3, nr. 4, 2015, pag. 132-145. DOI: 10.11648/j.jsts.20150304.16. https://www.researchgate.net/publication/282524383_CFD_Analysis_on_Flow_Through_a_Resistance_Muffler_of_LCV_Diesel_Engine
- Murthy, K.R., Mamilla, V.R. Optimal Design and Fabrication of Exhaust Muffler Using in I.C. Engine. International Journal for Science and Advance Research In Technology, vol. 4, nr. 3, 2018, pag. 389-393. <http://ijsart.com/Home/IssueDetail/21284>
- Halil İbrahim YAMAÇ, Ömer Faruk CAN, Okan ÇELİK, Nevin ÇELİK, Numerical investigation of an exhaust muffler system, International Conference on Advances and Innovations in Engineering (ICAIE) May 10, 2017, https://www.researchgate.net/profile/Halil_Yamac/publication/317548414_Numerical_Investigation_of_an_Exhaust_Muffler_System/links/5c2db789458515a4c7087ee0/Numerical-Investigation-of-an-Exhaust-Muffler-System.pdf
- Saumil Mahesh Trivedi, Sangita Bansode, Pankaj Pawar, CFD Flow Analysis and Optimization of Exhaust Muffler, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5 Issue VIII, August 2017, pp 86-91. <http://www.ijraset.com/files/serve.php?FID=9224>
- Premkumar, S., Udaiyakumar, K.C., Numerical simulation and design optimization of baffle perforations for better noise reduction, International Journal of Vehicle Structures and Systems, Volume 12, Issue 3, 2020, pp. 292-296. <https://www.scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-85093089480&origin=resultslist>
- Ujjal Kalita and Manpreet Singh, Design and CFD analysis on flow through a Reactive muffler of four-cylinder diesel engine, ICAST 2020, https://www.researchgate.net/publication/347950462_ICAST_2020_paper_138_final_paper
- Zahoor Ullah Hassan Ahmed Kareem Akhtar kamboh Well, Comparison of Sound Pressure Level of Conventional and Modified Mufflers by using CFD Analysis, International Journal of Engineering Works, <https://www.ijew.io/paper/comparison-of-sound-pressure-level-of-conventional-and-modified-mufflers-by-using-cfd-analysis>
12. Cernaianu A.D. **Tutunea D.**, Dima A.M., Determination of Displacement of the Piece Center in the Process of Centerless Grinding, Applied Mechanics and Materials Vol. 823 (2016) pp. 519-524. (1 citare)
 - Yao Weifeng, Yuan Julong, Zhong Meipeng, Wang Chegwo, Zhou Fenfen, Review on precision machining technology for outer diameters cylindrical rollers, China Mechanical Engineering, Vol.30, No. 10, pp 1195-1206, 2019. <http://qikan.cmes.org/zzhj/EN/abstract/abstract41650.shtml>
 13. **Tutunea D.**, Dima A., Bica M., Buculei M., The design of sun visors for automotive industry, Annals of the Oradea University, Fascicle of Management and Technological Engineering, Issue #3, December 2014, pp. 1-4. (1 citare)
 - Azzad Bader, Design and Implementation of Automotive Sunlight Curtain for Cars Using Digital Electronic Circuit, AL-MANSOUR JOURNAL https://www.researchgate.net/profile/Azzad_Bader/publication/330384018_Design_and_Implementation_of_Automotive_Sunlight_Curtain_for_Cars_Using_Digital_Electronic_Circuit/links/5c3d7ebda6fdcc6b5ada233/Design-and-Implementation-of-Automotive-Sunlight-Curtain-for-Cars-Using-Digital-Electronic-Circuit.pdf
 14. Popa D., Duta A., Pitru A., **Tutunea D.**, Gherghina G., About the simulation environment for dental implant studies, in Scientific Buletin of the Politehnica University of Timisoara, Romania, Transactions of Hydrotechnics, Tom 58(72), Fasciolă suplimentară, 2013, ISSN 1224-6042, pp 137-140. (8 citări)
 - Vatu M., Vintilă D., Popa D., 3D Skull Virtual Model, Based on CT or MRI Images, Used for Dentistry Simulations, Applied Mechanics and Materials, 2018, Vol. 880, pp. 101-110. <https://www.scientific.net/AMM.880.101>
 - Petrovici I.L., Tenovici M.C., Vaduva R.C., Tarnita D.N., Vintila G., Popa D., About three-dimensional models of osteosynthesis systems, Journal of industrial design and engineering graphics, Vol. 14, No. 1, 2019, pp.159-162. <http://sorging.ro/jideg/index.php/jid/article/view/449>
 - Tenovici M.C., Petrovici I.L., Vaduva R.C., Tarnita D.N., Popa D., Oncescu A., The model of a prosthetic system for human knee joint, Journal of industrial design and engineering graphics, Vol. 14, No. 1, 2019, pp.179-182. <http://sorging.ro/jideg/index.php/jid/article/view/454>
 - Tudora A., Ontica V., Tarnita D.N., Popa D., Calin D.C., Oncescu A., Capitanescu B., Albulescu D., Virtual human hip joint obtained from ct images and fem test, Journal of industrial design and engineering graphics, Vol. 14, No. 1, 2019, pp.195-198. <http://sorging.ro/jideg/index.php/jid/article/view/457>
 - Vatu M., Vintilă D., Mercut R., Popescu S.M., Popa D., Petrovici I.L., Vintilă G., Pitru A., Three-dimensional modeling of the dental-maxillary system, Vol. 14, No. 1, 2019, pp.207-210. <http://www.sorging.ro/jideg/index.php/jid/article/view/460>
 - Vaduva R.C., Petrovici I.L., Tenovici M.C., Tarnita D.N., Tarnita D.N., Calin D.C., Rogoveanu O., Three-dimensional model of a hip prosthesis, Journal of industrial design and engineering graphics, Vol. 14, No. 1, 2019, pp.203-206 <http://www.sorging.ro/jideg/index.php/jid/article/view/459>
 - Ontica V., Tudora A., Tarnita D.N., Popa D., Gherghina G., Capitanescu B., Virtual test applied on a 3D model of vertebral column, Journal of industrial design and engineering graphics, Vol. 14, No. 1, 2019, pp.141-144. <http://sorging.ro/jideg/index.php/jid/article/view/445>
 - Maria Filoftea Mercuț, Daniela Dumitrescu, Ștefania Crăițoiu, Răzvan Mercuț, Alin Stefanescu Dima, Andreea Tănasie, Dragoș Laurențiu Popa, Three-Dimensional Model of the Human Eye Development based on Computer Tomograph Images, Current Health Sciences Journal, Vol. 46, No. 1, 2020, pp 31-38. <https://www.chsjournal.org/CHSJ/papers/CHSJ.46.01.05.pdf>
 15. Popa D.L., Duta A., **Tutunea D.**, Gherghina G., Buciu G., Calin D.C., Virtual Methods Applied to Human Bones and Joints Re-Construction Used for Orthopedic Systems, Applied Mechanics and Materials, Vol. 822 (2016) pp. 160-165. (6 citări)
 - Vaduva, Razvan Cristian, Ilaria Lorena Petrovici, Mihai Catalin Tenovici, Danut Nicolae Tarnita, Dragoș Laurențiu Popa, Otilia Rogoveanu, and Bogdan Capitanescu. "A Three Dimensional Virtual System Used to Analyze the Normal and Prosthetic Joint of the Hip." Advanced Engineering Forum 34 (October 2019): 165–74. <https://doi.org/10.4028/www.scientific.net/aef.34.165>

- Tenovici Mihai Catalin, Ilaria Lorena Petrovici, Razvan Cristian Vaduva, Danut Nicolae Tarnita, Dragoș Laurențiu Popa, Dana Albulescu, and Bogdan Capitanescu. "Three-Dimensional Virtual Model Used to Analyze a Normal and Prosthetic Human Joint." *Advanced Engineering Forum* 34 (October 2019): 159–64. <https://doi.org/10.4028/www.scientific.net/aef.34.159>
- Vatu, Mihaela, Daniela Vintilă, Dragos Laurentiu Popa, Rodica Mercuț, Sanda Mihaela Popescu, and Georgiana Vintila. "Determining Mechanical Causes That Produce Dental Wear Using Finite Element Method." *Applied Mechanics and Materials* 896 (February 2020): 15–22. <https://doi.org/10.4028/www.scientific.net/amm.896.15>
- Calin, Daniel Cosmin, Dragos Laurentiu Popa, and Alexandru Florian Grecu. "Virtual Experimental Analyses of the Normal and Arthrotic Hip." *Applied Mechanics and Materials* 896 (February 2020): 3–14. <https://doi.org/10.4028/www.scientific.net/amm.896.3>
- Popa D., Iliuta D., Petrovici I.L., A virtual approach to orthopedic systems based on implants and prostheses, *IOP Conf. Series: Materials Science and Engineering* 997 (2020) 012087, <https://iopscience.iop.org/article/10.1088/1757-899X/997/1/012087/pdf>
- Popa D., Calin D.C., Buciu G., Virtual and experimental device for hip revision prostheses testing, *IOP Conf. Series: Materials Science and Engineering* 997 (2020) 012086, <https://iopscience.iop.org/article/10.1088/1757-899X/997/1/012086/pdf>
- 16. Popa D, **Tutunea D.**, Gherghina G., Ciunel St. Methods used for the virtual human bones and joints reconstruction. normal and pathological human joints virtual simulations, *Journal of industrial design and engineering graphics* volume 10, june 2015 pp.49-54. **(1 citare)**
 - Vatu, Mihaela, Daniela Vintilă, and Dragos Laurentiu Popa. "3D Skull Virtual Model, Based on CT or MRI Images, Used for Dentistry Simulations." *Applied Mechanics and Materials* 880 (March 2018): 101–10. <https://doi.org/10.4028/www.scientific.net/amm.880.101>
- 17. Bica M., Cernăianu C., **Tutunea D.**, The thermogravimetric analysis of different blends of biodiesel of rapeseed and petrodiesel, *Bulletin of the Transilvania University of Brașov, Proceedings of the Internationally Attended National Conference On Thermodynamic*, 21 mai – 22 mai, 2009, Brașov, România, Vol.2(51) Series I, ISSN 2065-2119, Special Issue No.1, Vol.1, 2009, ISBN 978-973-598-521-9, Published by Transilvania University Press Brașov Romania, pag.463. **(1 citare)**
 - Sayyed Siraj, Renuka Kale, Swapnil Deshmukh, Effects of Thermal, Physical, and Chemical Properties of Biodiesel and Diesel Blends, *American Journal of Mechanical and Industrial Engineering* 2017; 2(1): 24-31. <http://www.sciencepublishinggroup.com/journal/paperinfo?journalid=248&doi=10.11648/j.ajmie.20170201.14>
- 18. **Tutunea D.** and Dumitru I., Analysis of performance and emissions of diesel engine using sunflower biodiesel, *IOP Conf. Series: Materials Science and Engineering*, IOP Publishing, Volume 252, 2017, DOI: 10.1088/1757-899X/252/1/012085, ISSN: 1757-8981, WOS:000419817200085. **(9 citări)**
 - N.A. Musa, G.M. Teran, S.A. Yaman, Comparative performance evaluation of a diesel engine run on diesel and biodiesel produced from coconut oil, *J. Appl. Sci. Environ. Manage.* Vol. 23 (4) 689-693 April 2019. <https://www.ajol.info/index.php/jasem/article/view/186433/175715>
 - Shaik Hussain, A Siva Kumar, A Aruna Kumari, Experimental Investigations on CI Engine using different Combustion Chambers and Biodiesel as Fuel, Volume 7, Issue 6, March 2019, Pages 226-230, <https://www.ijrte.org/wp-content/uploads/papers/v7i6/F2202037619.pdf>
 - Ravish Kushal, Performance Analysis of C.I. Engine Tertiary Blends of Mustard Oil, Kerosene Oil and Diesel as an Alternative Fuel, Emission and Various Loads, *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, Volume 7 Issue VI, June 2019, pp 797-804. <https://www.ijraset.com/files/serve.php?FID=23652>
 - Alrkaby, G. S. A., & Hassan, A. A.-K. M. (2020). Experimental Study on Performance and Emission Characteristic of Diesel Engine using Sunflower oil Biodiesel Blends. *Engineering and Technology Journal*, 38(8A), 1169-1177. <https://doi.org/10.30684/etj.v38i8A.385>
 - Abdul Malik, M. S. ., Mohd Jaafar, M. N., Mavalavan, N. ., Mohd Ismail, M. S. ., Rahim, M. R. ., & Said, M. (2021). Prestasi Pembakaran Biodiesel Berasaskan Minyak Bunga Matahari Ke Atas Pembakar Berbahan Api Cecair: Combustion Performance Sunflower Oil Biodiesel on Liquid Fuel Burner. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 82(2), 127-145. <https://www.akademibaru.com/submit/index.php/arfmts/article/view/3571>
 - S. Charan Kumar, Amit Kumar Thakur, J. Ronald Aseer & Gaurav Dwivedi (2021) Comprehensive Review on Effects of Exhaust Gas Recirculation on Nitrogen Oxide Emission in Various Biodiesel and Nano Additives Blends Fueled Compression Ignition Engine, *International Journal of Ambient Energy*, DOI: 10.1080/01430750.2021.2009367 <https://www.tandfonline.com/doi/abs/10.1080/01430750.2021.2009367?journalCode=taen20>
 - Yogi Pramudito, Dimaz Wirahadi, Nur Allif Faturrahman, Faqih Supriadi, Sylvia Ayu Bethari, Dimitri Rulianto, Setyo Widodo, Catur Y Respatiningsih, Lies Aisyah, Emi Yuliarita, Comparison Performance CI Engine of Using High-Speed Diesel Fuel-Biodiesel Blend (B30) and (B40) on Diesel Engine Dyno Test, *IOP Conf. Ser.: Earth Environ. Sci.* 1034 012058 <https://iopscience.iop.org/article/10.1088/1755-1315/1034/1/012058/pdf>
 - S. Charan Kumar, Amit Kumar Thakur, J. Ronald Aseer & Gaurav Dwivedi (2022) Comprehensive review on effects of exhaust gas recirculation on nitrogen oxide emission in various biodiesel and nano additives blends fuelled compression ignition engine, *International Journal of Ambient Energy*, 43:1, 6233-6249, <https://www.tandfonline.com.am.e-nformation.ro/doi/abs/10.1080/01430750.2021.2009367?journalCode=taen20>
 - Olawale Usman Dairo, O J Adeosun, B.G. Jahun, B.G. Jahun Danladi Drambi Usman, The influence of propyl gallate antioxidant on the performance and emission characteristics of a diesel engine fueled with blends of khaya senegalensis (Mahogany) biodiesel, *CIGR Journal*, Vol. 25 No. 3 (2023). <https://cigrjournal.org/index.php/Ejournal/article/view/8499>
- 19. Otat O.V., Otat V., **Tutunea D.**, Geonea I., Marinescu G., The Monitoring of the Submarine Effect in Frontal Collisions, at Different Impact Speeds and for the Driver's Out of Position Instances, *Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018)* **(1 citare)**
 - Thierheimer, Walter Wilhelm, Cătălin Alexandru, Alexandru Thierheimer, and Daniel Crauciuc. Performance of Diaphragm Elastic Elements in ABS, *Applied Mechanics and Materials* 896 (February 2020): pp 241–48. <https://doi.org/10.4028/www.scientific.net/amm.896.241>
- 20. **Tutunea D.**, Dumitru I., Experimental study on the effect of adding bioethanol in spark ignition engine, *Buletinul Științific al Universității din Pitești, seria Autovehicule Rutiere*, nr.27, 2017, pp. 82-88. **(1 citare)**

- Jiménez-González, Emilio Leonardo, Molina-Redrobán, Rodrigo Daniel, Chica-Castro, Luis Antonio, Evaluation and simulation of spark plugs for the use of ethanol in gasoline in injection engines, *Dominio de las Ciencias*, ISSN 2477-8818, Vol. 5, N°. Extra 1, 2019 (Issue dedicated to: Especial: Noviembre 2019), pp 4-27. <https://dialnet.unirioja.es/servlet/articulo?codigo=7152622>
21. Grecu D.R., Biță M. G., **Tutunea D.**, Popescu A., Bică M., The importance of medicago sativa extract on the oxidative stability of biodiesel in the Journal of Environmental Protection and Ecology 13, No 2A, ISSN 1311-5065, pp 1061-1069, 2012, ISSN: 1311-5065, WOS:000310557400033. IF 0.259 (1 citare)
 - M. G. Dumitru, M. Nagi , M. E. Buculei , G. D. Picioarea , I. D. Hiticas And T. Stanciu, Use of skin and seed extract from lycopersicon esculentum for increasing biodiesel oxidation stability, *Bulgarian Journal of Agricultural Science*, 19 (No 6) 2013, 1445-1451, <http://agrojournal.org/19/06-41.pdf>
 22. Calbureanu Popescu M.X., Bica M., Calbureanu Popescu D.M., **Tutunea D.**, Transfer of mass through walls from energetically efficient innovative materials in order to achieve comfort conditions in passive houses, 5th International Scientific Conference SEA-CONF 2019, IOP Conf. Series: Journal of Physics: Conf. Series 1297 (2019) 012014. (1 citare)
 - Ivan Amaya-Ruiz , Carlos A. Fuentes-Perez, Gerardo J. Arista-Gonzalez, Maria T. Sanchez-Medrano, Elena F. Izquierdo Kulich, Edgardo J. Suarez-Dominguez, Estimation of the effect of the composition of the wall on the comfort of a building, *International Journal of Advanced Trends in Computer Science and Engineering*, Volume 9. No. 3, 2020. <http://www.warse.org/IJATCSE/static/pdf/file/ijatcse43932020.pdf>
 23. Gherghina, G., **Tutunea, D.**, Popa D., Evolution in technical drawing for mechanical products, *Journal of Industrial Design & Engineering Graphics* . May2017, Vol. 12 Issue 1, p105-110. 6p. (1 citare)
 - Gorgani, H Haghshenas; Pak, A Jahantigh, Adaptation of engineering graphics courses to modern design approaches using a hybrid data mining method based on qfd and fuzzy dematel, *Majallah-i Amuzih-i Muhandisi-i Iran*; Tehran Vol. 22, Iss. 86, (Summer 2020): 55. DOI:10.22047/ijee.2020.212668.1708 http://ijee.ias.ac.ir/m/article_106447.html?lang=en
 24. **Tutunea D.**, Bica M., Cernaianu C., Dima A., Correlation between physico-chemical properties of biodiesel blends and fossil diesel, *Revista Termotehnica*, Nr. 2/2013, pp. 67-70. (2 citări)
 - Sharun Mendonca, Thirumaleshwara Bhat, Ravikantha Prabhu and Rudolf Dsouza, Experimental Analysis of Influence of Injection Pressure on Compression Ignition Engine With Biodiesel and Nanoparticles Blend, *IOP Conf. Series: Materials Science and Engineering*, 1013 (2021) 012036, <https://iopscience.iop.org/article/10.1088/1757-899X/1013/1/012036/pdf>
 - Popoola A. D., Anguruwa G. T., Oluwadare A. O. and Riki J. T. B., Physico-Chemical Properties of Bio-Oil from the Pyrolysis of Pinus caribea (Morelet) Needles, Forests and Forest Products Journal 19:105-120, https://www.researchgate.net/publication/359730604_Physico-Chemical_Properties_of_Bio-Oil_from_the_Pyrolysis_of_Pinus_caribea_Morelet_Needles/references
 29. **Tutunea D.**, Study of the variation of kinematic viscosity and density of various biodiesel blends with temperature, *Revista de chimie*, 69, nr.7, Volume 2018, pp. 1645 – 1648. (2 citări)
 - Danuta Matei, Bogdan Doicin, Diana Cursaru, Dorin Stanica Ezeanu, Yield Optimization Using Artificial Neural Networks in Biodiesel Production from Soybean Oil, *Revista de Chimie* 71 (5), 2020, pp.132-140. <https://www.revistadechimie.ro/pdf/15%20MATEI%20DANUTA%205%2020.pdf>
 - Kurapati Rajagopal , Y. S. Reddy , Chitpepu Obula Reddy, Impact of various factors on the stability of biodiesel – a review, *Journal of Biotech Research*, 2022; 13:64-77, <http://www.btsjournals.com/assets/2022v13p64-77.pdf>
 30. **Tutunea D.**, Gherghina G., Dumitru I., Dima A., Evaluation of Thermistors Used for Temperature Measurement in Automotive Industry, *Applied Mechanics and Materials*, Vol. 880, pp. 157-162, 2018 <https://www.scientific.net/Paper/Preview/529514> (3 citări)
 - Mohammed H. Hadi , Abbas Hussain Issa, Atheer Alaa Sabri, Design and FPGA Implementation of Intelligent Fault Detection in Smart Wireless Sensor Networks, *Engineering and Technology Journal* Vol. 39, Part A (2021), No. 04, Pages 653-662. <http://engtechjournal.org/index.php/et/article/view/1951>
 - I Popa, G N Popa, C M Diniş and A Iagăr, Temperature-frequency converter made with astable multivibrator and thermistor, *Journal of Physics: Conference Series*, Volume 1781, International Conference on Applied Sciences (ICAS 2020) 20-22 May 2020, Hunedoara, Romania. <https://iopscience.iop.org/article/10.1088/1742-6596/1781/1/012045>
 - Kunal Gupta, Rishabh Singh, et al., Smart temperature measurement for pharmaceutical industry, *Journal of Information and Optimization Sciences*, 2022, <https://www.tandfonline.com/doi/abs/10.1080/02522667.2022.2046331>
 - Muhammad Zain Ul Abdin, Abdul Sami, Ali Asif, Farah Aziz, Performance Evaluation of Linearization Strategies for Directly Interfaced Thermistor, *Measurement Science and Technology*, Volume 34, Number 12, 2023. <https://iopscience.iop.org/article/10.1088/1361-6501/acf38e>
 - Milan Z. Bodic, Vladimir M. Rajs, Stanko O. Aleksic, Mirjana S. Damjanović, Milica G. Kisić, Thermally Coupled NTC Disk Thermistors for Power Applications, *IEEE Sensors Journal*, Volume: 24 Issue: 8, <https://ieeexplore.ieee.org/document/10472933/authors#authors>
 31. Gherghina G., **Tutunea D.**, Popa D., About digital mock-up for mechanical products, *Journal of industrial design and engineering graphics*, volume 10, june 2015 pp. 41-44. (1 citare)
 - Ana Rita V. Costa, Milton Borsato, Digital mock-up and voice of the customer in the context of physical product development, *International Journal of Agile Systems and Management* , Volume 14, Issue 1, 2021. <https://www.inderscienceonline.com/doi/pdf/10.1504/IJASM.2021.114906>
 32. **Tutunea D.** and Gruia A., Emissions and performance of a single cylinder diesel engine using walnut-diesel blends, *The 8th International Conference on Advanced Concepts in Mechanical Engineering*, IOP Conf. Series: Materials Science and Engineering, nr.444, 2018, doi:10.1088/1757-899X/444/8/082004, ISSN: 1757-8981 (1 citare)
 - Shanmugam Palanisamy, Pavithra Bharathi Subramaniya Bharathi, Vignesh Maharajan, and Mohamed Javith Mohamed Abdulla, Performance and emission characteristics of diesel with biodiesel, *AIP Conference Proceedings* 2387, 120001 (2021); <https://doi.org/10.1063/5.0069378>

33. Dumitru M.G., **Tutunea D.**, Extraction and Determination of Physico-chemical Properties of Oil from Watermelon Seeds (*Citrullus lanatus* L.) to Use in Internal Combustion Engines, *Revista de chimie*, 68, nr.11, Volume 2017, pp. 2676 – 2681, ISSN: 0034-7752, WOS:000416751800043. **(1 citare)**
 - Sri Hartini, Sekar Nurani Saptaningtyas, Hartati Soetjipto, Identification of chemical composition and antibacterial potential of yellow watermelon seed oil (*Citrullus lanatus* L.), *AIP Conference Proceedings* 2542(1):020003, 2022
<https://aip.scitation.org/doi/pdf/10.1063/5.0103223>
34. Cernaianu A., Cernaianu C., Popescu D., **Tutunea D.**, Studies on the cooling systems for the production of electricity through Seebeck effect with TEG elements, *Proceedings of the 2018 International Conference an Applied and Theoretical Electricity – ICATE*, pp 1-6, ISBN 978-1-5386-3806-4, DOI:10.1109/ICATE.2018.8551444. **(1 citare)**
 - W. A. Febrianto and A. Rahadian Puntaran, "De-aerator Exhaust Waste Heat Recovery Using TEG," 2019 International Conference on Technologies and Policies in Electric Power & Energy, Yogyakarta, Indonesia, 2019, pp. 1-5, doi: 10.1109/IEEECONF48524.2019.9102586. <https://ieeexplore.ieee.org/document/9102586>
35. Dumitru (Bita), G., Mihaela Gabriela Grecu, R., **Tutunea, D.**, Popescu, A., Bica, Physico-chemical Changes in Biodiesel during the Storage, *Revista de Chimie*, pp 882 – 885, Nr.9, 2010, ISSN: 0034-7752, WOS:000284137400017. IF 0.693 **(1 citare)**.
 - Justine V. Gemida, Roniel A. Ardeña, Chiremy T. Pillones, Shelf life of Tomato (*Solanum lycopersicum*) in different post-harvest treatments, *International Research Journal of Science, Technology, Education and Management*, Volume 3, No. 2 2023.
<https://zenodo.org/records/8139508>
 - Vartika Singh, Sanjay Pathak, Kuldeep Pandey, Jagveer Singh, Effect of Low-Density Polyethylene on Shelf Life and Fruit Quality of Indian Gooseberry (*Emblca officinalis* Gaertn.), *International Journal of Plant & Soil Science*,
<https://journalijpss.com/index.php/IJPSS/article/view/3337>

Citări în publicații necotate

1. Dumitru M.G., **Tutunea D.**, Extraction and Determination of Physico-chemical Properties of Oil from Watermelon Seeds (*Citrullus lanatus* L.) to Use in Internal Combustion Engines, *Revista de chimie*, 68, nr.11, Volume 2017, pp. 2676 – 2681, ISSN: 0034-7752, WOS:000416751800043.
 - Baleriola Muñoz, L. (2018). Morfogénesis in vitro en cultivares del género *Citrullus*.
<https://riunet.upv.es/bitstream/handle/10251/107015/BALERIOLA%20-%20Morfog%20a9nesis%20in%20vitro%20en%20cultivares%20del%20g%20c%20a9nero%20Citrullus.pdf?sequence=1&isAllowed=y>
 - Leidys Begambre Vergara, Estudio monográfico sobre el uso y aplicaciones del aceite y la semilla de sandía (*Citrullus lanatus*) 2020
2. **Tutunea D.**, Dumitru I., Experimental study on the effect of adding bioethanol in spark ignition engine, *Buletinul Științific al Universității din Pitești, seria Autovehicule Rutiere*, nr.27, 2017, pp. 82-88.
 - Martínez Gómez, Javier Toledo Zeas, Henry Rodrigo, Selección de material alternativo para la Punta de eje trasero de Automóviles Chevrolet SPARK, utilizando métodos multicriterio y simulación de esfuerzos-deformación para optimizar el material,
<http://repositorio.uisek.edu.ec/handle/123456789/3302>
 - Milton Ushina, Caracterización de las emisiones en ruta derivados de combustible alternativo a base de aceite quemado en la ciudad de Quito, Facultad de Arquitectura e Ingeniería, Universidad Internacional SEK,
<http://repositorio.uisek.edu.ec/bitstream/123456789/3637/1/USHBIODIESEL%2077777.pdf>
3. **Tutunea D.** and Dumitru I., Analysis of performance and emissions of diesel engine using sunflower biodiesel, *IOP Conf. Series: Materials Science and Engineering*, IOP Publishing, Volume 252, 2017, DOI: 10.1088/1757-899X/252/1/012085, ISSN: 1757-8981, WOS:000419817200085.
 - Kristian Čelina, The impact of the addition of waste cooking oil in diesel fuel on engine characteristics and emission of exhaust gases, 2019-09-25, Hrvatska, <https://zir.nsk.hr/islandora/object/agr%3A1543>
4. Lungu, M., Lungu, R., **Tutunea, D.** Control of Aircraft Landing using the Dynamic Inversion and the H-inf Control. *Proceedings of the 17th International Carpathian Control Conference (ICCC 2016)*, Tatranská Lomnica, Slovak Republic, May 29 - June 1, 2016, ISBN:978-1-4673-8606-7, pp. 461-466.
 - Pereira Goncalo Collares, Lateral Model Predictive Control for Autonomous Heavy-Duty Vehicles: Sensor, Actuator, and Reference Uncertainties, Licentiate thesis, monograph, Stockholm, Sweden: KTH Royal Institute of Technology, 2020. , p. 221. <https://www.diva-portal.org/smash/get/diva2:1458993/FULLTEXT01.pdf>
5. **Tutunea D.**, Dumitru I., Racila L., Otat O.V., Matei L., Geonea I., Characterization of sunflower oil biodiesel as alternative for diesel fuel, *Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018)*, pp 172-180, Springer
 - Marko Sofijanic, Chicken Manure for Biofuels and Biobased Chemicals, A Bachelor Research Project,
https://fse.studenttheses.ub.rug.nl/22851/1/MarkoSofijanic_s3360458_Bachelor%20Thesis.pdf

Proiecte de cercetare-dezvoltare-inovare-Granturi CNCSIS

1. Bică, M., **Tutunea D.** și colab., Monitorizarea eficienței sistemului de racire la transformatoarele de mare putere, Program Parteneriate În Domenii Prioritare PN II, Finanțare: ANCS-CNMP Buget de Stat - Ministerul Educației Cercetării și Tineretului, Programul Parteneriate În Domenii Prioritare, Categoria de proiect: PC ; Contract de finanțare pentru executie proiecte: nr.21070/14.09.2007. Subcontract de finanțare pentru executie proiecte nr: 21- 070/14.09.2007. Subcontractor: Universitatea din Craiova, Facultatea de Mecanică, Responsabil partener Bica Marin, 2008-2011. Valoare proiect UCV 31.845 lei. **Membru în echipa de cercetare.**
http://www.icmet.ro/seerd_res_prog_r.htm
2. Dezvoltarea unei baze de date cu reprezentari de suprafete si corpuri complexe utilizand grafica ingineriasca. Aplicatii in arta si tehnica. Perioada: 03.10.2007 – 01.10.2010 Finanțare Buget de Stat Proiect de Cercetare Exploratorie PN-II-2007 Directorul de grant:

Conf. dr. ing. Ștefan Țălu. Perioada: 3.10.2007 – 1.10.2009. Buget total: 165.450 lei (curs mediu euro/leu 4,2373), valoare Euro = 39.046. **Membru în echipa de cercetare.** http://uefiscdi.gov.ro/userfiles/file/COMISIA_7/TALU%20STEFAN.pdf

- Număr contract 89/01.10.2015, Arhitecturi moderne pentru controlul aterizării aeronavelor, director grant Mihai Lungu, Program Resurse Umane Tinere Echipa de cercetare 2014, PN-II-RU-TE-2014-4-0849. Valoare totala proiect 521695 lei. **Membru în echipa de cercetare.** Sume încasate 22380 lei.
http://uefiscdi.gov.ro/userfiles/file/PN%20II_RU_TE%202014/REZULTATE%20FINALE_PROIECTE%20ACCEPTATE%20LA%20FINANTARE/RUTE_2014_Lista%20proiecte%20acceptate%20la%20finantare_St%20ingineresti.pdf
- Număr contract 232 PED/12.09.2017 Neural network based hardware platform for sub-orbital and orbital space vehicles. Program PN III – 2017-2018. Proiect experimental demonstrativ. Director de proiect: Prof. dr. ing. Lungu Romulus. Valoare contract: 475.000 Ron. Sursa de finantare: UEFISCDI (Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării). **Membru în echipa de cercetare.** Sume încasate 22800 lei.
http://elth.ucv.ro/site/mlungu.ro/PROIECT_EXPERIMENTAL_DEMONSTRATIV-52
- Numar contract 174/20.07.2017, Micro LAuncher based on DEtonation Engine (MILADEE), Microlansator bazat pe motor detonabil (acronim COMASS) 2017-2018, Programul de Cercetare-Dezvoltare-Inovare pentru Tehnologie Spatiala si Cercetare Avansata – STAR, Director proiect Porumbel Ionut, Partener 3 Univesitatea din Craiova, Responsabil P3 Conf.dr.ing. Tudose Alexandru. Valoare proiect 86.737 lei. **Membru în echipa de cercetare.** Sume încasate 2250 lei.
https://star.rosa.ro/downloads/C3_2016/STAR_C3_2016_CDI_ListaPunctaje_final.pdf

Proiecte de cercetare interne

- Perspective și oportunități de optimizare a costului calității în cadrul industriei constructoare de mașini, director proiect Brabete Valeriu Daniel, Competiție internă de granturi 2013-2014, Universitatea din Craiova, nr. 4C/ 27.01.2014, grant intern de cercetare interdisciplinară, în valoare totală de 24.000 lei. **Membru în echipa de cercetare.**

Propuneri de proiecte

- Propunere proiect Competiția tinere echipe 2014 Evaluarea posibilităților de folosire a biocombustibililor la temperaturi scăzute bazate pe utilizarea unor sisteme de preîncălzire a biodieselului, PN-II-RU-TE-2014-4-0633, Punctaj = 73 puncte.
http://uefiscdi.gov.ro/userfiles/file/PN%20II_RU_TE%202014/REZULTATE%20FINALE/Stiintele%20ingineresti_Rezultate%20finale.pdf
- Propunere proiect Competiția Proiect experimental demonstrativ 2016, Evaluarea posibilităților de folosire a biocombustibililor la temperaturi scăzute bazate pe utilizarea unor sisteme de preîncălzire a biodieselului, PN-III-P2-2.1-PED-2016-0223. Punctaj = 86 puncte. <https://uefiscdi.ro/resource-8203?&wtok=42d2db786713fb53643dddab8849d96d717b879f&wtoks=XY1dDslqEITvss+2siBCt3cwJp7AFGqQ1v5QRWO8u7Q+GH3ayc58M0dS9AwkCeLkwmCilYyKDeeCIYEEQXAGktoggbGpW3/t6MA68ZRt9HXlifoXkM51pkOLYTq8QMPLybLyeQCj5dlVkgTjx9RWBf9kf1klxrrlmUi9Alr+fUeUAIHgp1Uu1O6PQUbwG0y0S6zSbWduTY278ZTfrW1C5Vx+c3ZmB/HyVVdA+XrDQ==&wchk=338777bf7f36c55ae8a7b26cc50b869ce52443df>
- Propunere proiect Competiția Tinere echipe 2016, Sisteme de preîncălzire pentru utilizarea biodieselului în condiții de iarnă, PN-III-P1-1.1-TE-2016-0365. Punctaj = 75,5 puncte.
<https://uefiscdi.ro/resource-87500?&wtok=e106d98c37fec373ad21aff611d6f89b49d7f621&wtoks=XY1BDolwEEXvMmvBzhSEDncwJp7A0GJqQZSi1RjvboGF0dX8TN778AFvzznDGF0rYfKMiQVESIVeZYM3mqIKUOG0m0aLJxxj3a4UiMwuEsgZVYc+nk9NTLBoRtFLSch8na6xJApWLPqvQwImoCCQevLebdfy0JQSaXly9ml6vezlsRclkpavPZ2v45KBh+wbgbzLwbU9frW2vSfjmN9NYX2ub3q0J6WEYbd23UL0/&wchk=676c45a5a5a0748a2438080427ff4ecd8d5ac58d>
- Propunere proiect Competiția Proiect experimental demonstrativ 2019, Evaluarea posibilităților de folosire a biocombustibililor la temperaturi scăzute bazate pe utilizarea unor sisteme de preîncălzire a biodieselului, PN-III-P2-2.1-PED-2019-0373. Punctaj 88 puncte.
<https://uefiscdi.gov.ro/resource-826555?&wtok=&wtoks=XY1BDolwEEXv0rVgp6W0DHcwJp6AtIXUQGsoiGi8u4WN0dX8TN77v8ESXxE5kugMqSMWkOLUrs3zGsvVz3PINYNHCFavLAPIi4uGVT9MLZiExLvtuQCLmF1KVNJLVDLtkGSCGTG3Pz5cuSSMsUUFWo3kvr9HBI4AAc+F4rdv05wBF8gum3cXuuykNwcy9zcPY5bNtXdtG5Xdn17wZJ6dDT+r3Bw==&wchk=a8e5856673575123b462c5c7909fa8d88fc74ba1>

Proiecte POSDRU

- „FII INDEPENDENT AUTORIZANDU-TE”, Contract nr. POSDRU/92/3.1/S/62083, Programul Operațional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013 Axa Prioritară 3 „Creșterea adaptabilității lucrătorilor și a întreprinderilor”, Domeniul major de intervenție 3.1: „Promovarea culturii antreprenoriale” Perioada de derulare a proiectului: 15 Noiembrie 2010 – 14 Noiembrie 2013 **Expert pe termen lung.** <http://id62083.acepro.ro/Stiri.php>, Valoare totala proiect 8705819, valoare eligibila 8287629. Din care asistenta financiara nerambursabila 8121876, contributie proprie 165753.
- Contract de cercetare postdoctorală nr.61968/UCV/20 din 24.04.2010, depus, evaluat și selectat în cadrul competiției de burse postdoctorale aferentă proiectului „Parteneriatul universitar în cercetare – un pas înainte spre o școală postdoctorală a viitorului”, ID 61968. Titlu proiect „Cercetări privind utilizarea combustibililor alternativi în motoarele diesel pentru reducerea poluării”. **Director proiect.** Valoare finanțare: 144000 RON http://cis01.central.ucv.ro/cercetarepostdoctorala-posdru/lista_rezultate_finale_cu_punctaj.pdf
- „Acces la o pregătire de calitate în inginerie”, proiect POSDRU, ID 140639, Programul Operațional Sectorial Dezvoltarea Resurselor Umane 2007 – 2013, DOMENIUL MAJOR DE INTERVENȚIE 1.2. „Calitate în învățământul superior”, **Expert pe termen lung**, 30.05.2014-16.11.2015 <http://www.aptema.ro/index.php/posdru-id-140639>

4. „Studenti azi! Profesionalist mâine! – îmbunătățirea procesului de inserție pe piața muncii a studenților din domeniile tehnic/economic/medical veterinar”, ID 139928, Axa prioritara 2. „Corelarea învățării pe tot parcursul vieții cu piața muncii”, Domeniul major de intervenție 2.1. „Tranziția de la școală la viața activă”, **Expert pe termen scurt**, 01.03.2015-31.05.2015. <http://www.proiectimpuls.ro/>
5. Numar contract POCU/90/6.13/6.14/107075, Proiect: Facilitarea integrării studenților pe piața muncii prin consiliere și participare la programe de învățare la locul de muncă, **Lector**, 13.04.2019 – 12.06.2019. Sume încasate 1657 lei. <http://www.mrc.ro/noutati/anun-demarare-proiect-facilitarea-integrarii-studenilor-pe-piaa-muncii-prin-consiliere-i-participare-la-programe-de-invatare-la-locul-de-munca>

Proiecte cu mediul economic

1. Numar contract 77C/14.11.2014, "Studies for traffic data surveys-plans of urban mobility for the poles of development from Romania-Municipality of Craiova", Partener PTV Transport Consult GmbH, Karlsruhe, Germania, 2014, director contract Racila Laurentiu, internațional, Suma: 5.000 €, **Membru în echipă**. Durata 4 luni.
2. Numar contract 4C/25.01.2017, "Studiu preliminar asupra stadiului curent al nodurilor intermodale și capacității acestora de a dezvolta rețeaua TEN-T în partea română a zonei transfrontaliere România-Bulgaria", Beneficiar Fundația GIEED, Valoare contract 202300 lei, director contract Dumitru Ilie, internațional, **Membru în echipă**. Durata 1 an. Sume încasate 5070 lei.
3. Numar contract 17C/19.12.2016, "Studiul privind fluxul de călători în municipiul Craiova" Beneficiar Municipiul Craiova – Valoare 81360 lei. Director contract Rosca Adrian Sorin – Universitatea din Craiova. **Membru în echipă**. Durata 4 luni. Sume încasate 1400 lei.
4. Numar contract nr. 3C /22.06.2015, "Origin-destination surveys on the main arterials in the city – urban mobility plans for the Craiova growth pole", – Beneficiar PTV Transport Consult GmbH- Germany), internațional, director contract Dumitru Ilie Valoare UCV 9672 euro. **Membru în echipă**. Durata 4 luni. Sume încasate 288 lei.
5. Numar contract 2415/19.04.2018, "Servicii de analiza și sistematizare a spațiilor de parcare și de trafic rutier" beneficiar Spitalul Județean de Urgență Slatina. Valoare UCV 24990 lei. **Director de proiect**. Durata 1 lună. Sume încasate 4180 lei.
6. Numar contract 3C/02.04.2018, "Studiu de oportunitate în vederea delegării serviciului de transport public local de persoane cu autobuze și tramvaie, efectuat prin curse regulate în municipiul Craiova" beneficiar Primăria Municipiului Craiova, director contract Matei Lucian, Valoare UCV 10710 lei. **Membru în echipă**. Durata 2 luni. Sume încasate 900 lei.
7. Număr contract 34/24.06.2019 "Elaborare Studiu de Trafic" încheiat între Direcția Administrarea Străzilor Si Iluminatului Public Slatina și Universitatea din Craiova prin INCESA – Hub de Cercetare în Științe Aplicate. Valoare UCV 129.999 lei (109243 lei fara TVA). Director contract: Rotea Claudia Cristina. **Responsabil Științific**. Durata 5 luni.
8. Contract nr. 24C/14.12.2022, beneficiar: Direcția de Administrarea Străzilor și Iluminatului Public a Municipiului Slatina, titlu: Studiu de trafic pe strada Ionașcu, T. Vladimirescu și zonele adiacente, durata de finanțare: 10 luni, valoare proiect UCV: 98.770 lei, director proiect: Șl.dr.ing. Stanciu-Oțăt Oana-Victoria. **Membru în echipă**.
9. Contract nr. 11c/26.07.2023 "Cercetări privind validarea științifică a rezultatelor noului program românesc de proiectare asistată de calculator în domeniul ingineriei civile, FEMCAS, acronim Validare: FEMCAS", încheiat între S.C. Fluid Struct S.R.L. și Universitatea din Craiova, durata 5 luni, valoare proiect UCV: 50100 lei, director proiect: Șl.dr.ing. Ionescu Adriana. **Membru în echipă**.
10. Studiu de oportunitate pentru delegarea serviciului de transport public local la nivel metropolitan, efectuat prin curse regulate pe raza unităților administrativ-teritoriale membre ale Asociației de Dezvoltare Intercomunitară Asociația Metropolitană de T, director proiect Racila Laurentiu, Valoare proiect UCV 49980.00. **Membru în echipă**.

Proiecte cu finanțare externă

1. Amfiteatrul Studenției program Rose 2017-2019 încheiat între Ministerul Educației Naționale și Universitatea din Craiova. Valoare contract 530886,04 RON. Sursa de finanțare Ministerul Educației naționale prin Unitatea de Management al Proiectelor cu finanțare externă. Contract nr. 10/SGU/PV/I din 06.07.2017. **Director de grant**.
2. Student azi, inginer mâine, program Rose 2020-2023 încheiat între Ministerul Educației Naționale și Universitatea din Craiova. Valoare contract 697841 RON. Sursa de finanțare Ministerul Educației naționale prin Unitatea de Management al Proiectelor cu finanțare externă. Contract nr. 254/SGU/NC/II din 25.11.2019. Director de grant Geonea Ionut. **Tutore Elevi**.
3. VIITOR STUDENT (VIISTUD), program Rose 2020-2023 încheiat între Ministerul Educației Naționale și Universitatea din Craiova. Valoare contract 617329,77 RON. Sursa de finanțare Ministerul Educației naționale prin Unitatea de Management al Proiectelor cu finanțare externă. Contract nr. 303/SGU/PV/III/18.06.2020. Director de grant Ionescu Adriana. **Asistent proiect**.

Organizator de manifestări științifice internaționale și/sau naționale

1. Science and Management of Automobiles and Tractors, SMAT 2008, Craiova
2. Conferința națională de termotehnica cu participare internațională NACOT, Craiova, 2011
3. International Conference of Mechanical Engineering, ICOME 2013, Craiova
4. 3rd International Congress Science And Management Of Automotive And Transportation Engineering, SMAT 2014
5. International Conference of Mechanical Engineering, ICOME 2015, Craiova
6. International Conference of Mechanical Engineering, ICOME 2017, Craiova
7. 4rd International Congress Science And Management Of Automotive And Transportation Engineering, SMAT 2019

Premii

1. Premiul II la International U.A.B.- B.En.A Conference, "Management and sustainable protection of environment, Alba Iulia, 6-7 mai, 2009 pentru lucrarea The Importance of Medicago sativa Extract on the Oxidative Stability of Biodiesel autori, D. R. Grecu, M. G. Bită , D. Tutunea, A. Popescu, M. Bica.
2. Articole Aplicații PN2-Resurse umane- Premiarea rezultatelor cercetării:
Mihaela Gabriela Biță, Doinița Ramona Grecu , Dragos Tutunea, Alexandru Popescu , Marin Bica, Role of the Extract Obtained from Seeds of Vitis Vinifera on the Oxidative Stability of Biodiesel , Revista de Chimie, București Vol. 60, Nr. 10, 2009, p. 1090-1093, Nr.crt. listă 283, Cod CNCIS 295, Sesiunea de premiere etapa II, 2009.
https://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/REST_REZULTATE_CUMULATE_ETAPA_II.pdf
3. Gala cercetării științifice ediția a III-a, Premiarea Rezultatelor Cercetării sesiunea 2018, premiant Științe Inginerești
https://www.ucv.ro/pdf/media/stiri/2018/11/brosura_8.pdf
4. Gala cercetării științifice ediția a IV-a, Premiarea Rezultatelor Cercetării sesiunea 2019, premiant Științe Inginerești
<https://www.ucv.ro/pdf/media/stiri/2019/11/BrosuraGalaCercetarii2019.pdf>

Craiova,
Oct. 2025

Prof. univ. dr. ing. Tutunea Dragoș