

Lista de lucrări

Conf.dr.ing. Stelian ȚĂRULESCU

1. Lucrări relevante pentru realizările profesionale proprii, în domeniile evaluării și reducerii poluării produse de sectorul transporturi, a traficului rutier și a mobilității urbane durabile

1. Țărulescu S., Tarulescu R., Soica A., Mathematical model of pollution compounds calculus in function of traffic capacity from urban areas, Proceedings of the 1st WSEAS International Conference on Multivariate Analysis and its Application in Science and Engineering (MAASE 08), Istanbul, Turcia, 27-30 mai 2008, ISSN: 1790-5117, ISBN: 978-960-6766-65-7, ISI Thomson Reuters.
2. Manea L., Manea A., Florea D., Țărulescu S., Road Traffic Noise Pollution Analysis for Cernavoda City, IOP Conference Series: Materials Science and Engineering, Volume 252, Conference 1, indexare ISI 2018.
3. Taus N., Țărulescu S., Idomir M., Taus R., Respiratory exposure to air pollutants, Journal of Environmental Protection and Ecology 9, No 1, 15-25 (2008), ISSN 1311-5065
4. Țărulescu S., Țărulescu R., Researches on Combustion Quality for a Single Cylinder Diesel Engine, The International Congress on Automotive and Transport Engineering CONAT 2016, <http://www.conat.ro/>.
5. Țărulescu, S., Tarulescu, R. (2017). Urban Transportation Solutions for the CO2 Emissions Reduction Contributions. In: Chiru, A., Ispas, N. (eds) CONAT 2016 International Congress of Automotive and Transport Engineering. CONAT 2016. Springer, Cham. https://doi.org/10.1007/978-3-319-45447-4_49
6. Țărulescu S., Țărulescu R., Șoica A., Leahu C. I., Smart Transportation CO2 Emission Reduction Strategies, IOP Conference Series: Materials Science and Engineering, Volume 252, Conference 1, indexare ISI 2018
7. Șoica A., Țărulescu S., "Impact phase in frontal vehicle-pedestrian collisions", : International Journal Of Automotive Technology Volume: 17 Issue: 3 Pages: 387-397 DOI: 10.1007/s12239-016-0040-y 2016, ISSN: 1229-9138
8. Florea, D., Covaciu, D., Timar, J., Țărulescu, S. (2019). Critical Evaluation of the Pedestrian Walking Distances on the Congested Urban Networks. In: Burnete, N., Varga, B. (eds) Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018). AMMA2018 2018. Proceedings in Automotive Engineering. Springer, Cham. https://doi.org/10.1007/978-3-319-94409-8_86
9. Țărulescu S., Bajdechi A., Raportul național de diagnoză privind calitatea serviciilor publice municipale, Transport public, realizat în colaborare cu Societatea Academică din România / Cetățeni activi pentru servicii publice de calitate la nivel local, București, 2022, <https://drive.google.com/file/d/1AMmii19vJqYLDilkETcZuu34GyoP3MkE/view>

2. Teza de doctorat

2009 - Studii și cercetări privind influența traficului rutier urban asupra emisiilor poluante - Domeniul Inginerie Mecanică, Seria G. Nr. 0001853, Ministerul Educației, Cercetării și Inovării, Universitatea Transilvania din Brasov, România
Conducător științific: **Prof.dr.ing. Corneliu COFARU**

3. Cărți de specialitate publicate în edituri recunoscute național

1. Chiru A., **Țârulescu S.** - Echipamente și proceduri destinate cercetării motoarelor cu ardere internă, Editura Universității Transilvania din Brașov, 2015, ISBN 978-606-19-0706-9.
2. **Țârulescu S.** - Instalații de comandă și control ale circulației, Editura Universității Transilvania din Brașov, 2016, ISBN 978-606-19-0788-5.
3. **Țârulescu S.** - Instalații de comandă și control a circulației, îndrumar de laborator, Editura Universității Transilvania din Brașov, 2016, ISBN 978-606-19-0766-3.
4. Țârulescu R., **Țârulescu S.**, Mijloace de transport ecologice - Autobuze electrice și troleibuze, Editura Universității Transilvania din Brașov, 2016, ISBN, 978-606-19-0803-5
5. **Țârulescu S.** - Metode numerice: Curs pentru Invatamant cu Frecventa Redusa editura: Reprografia Universitatii Transilvania din Brasov, 2009, ISBN 678-629-33-37-018-43.
6. Năstăsioiu M., Ispas N., **Țârulescu, S.**, Trușcă D., Calculul si construcția motoarelor cu ardere internă, Vol. II, Curs pentru Invatamant cu Frecventa Redusa editura: Reprografia Universitatii Transilvania din Brasov, 2011.
7. Șoica A., **Țârulescu S.**, Năstăsioiu M., Repararea Autovehiculelor, Curs pentru Invatamant cu Frecventa Redusa editura: Reprografia Universitatii Transilvania din Brasov, 2004.
8. Chiru A., **Țârulescu, S.**, Testarea și omologarea motoarelor cu ardere internă, Editura Matrix Rom, București, 2018.
9. **Țârulescu, S.**, Cofaru C., Ingineria si Legislatia Mediului, Curs pentru Învățământ cu Frecvență Redusă, Editura Universității Transilvania din Brașov, 2017.
10. **Țârulescu S.**, Țârulescu R, Țârulescu N., Metodica și aparatura pentru analiza datelor de trafic rutier, Editura GlobeEdit, 2020, ISBN: 978-613-9-41804-6.
11. Țârulescu R., **Țârulescu S.**, Ispas N., Sensors and control systems for vehicles, 2019, Reprografia Universitatii Transilvania din Brasov, ISBN 978-606-19-1127-1.
12. Țârulescu R., **Țârulescu S.**, Bazele sistemelor automate, 2019, Reprografia Universitatii Transilvania din Brasov, ISBN 978-606-19-1119-6.
13. Țârulescu R., Țârulescu S., Vehicle mechatronics, 2019, Reprografia Universitatii Transilvania din Brasov, ISBN 978-606-19-1128-8.
14. Manda A., **Țârulescu S.**, Petruț A., Ghidul pentru responsabilitate și implicare civică, realizat în colaborare cu Societatea Academică din România / Cetățeni activi pentru servicii publice de calitate la nivel local, București, 2021, ISBN 978-973-0-35399-0, chrome-extension://efaidnbmnmbpajpcpgclefndmkaj/http://www.romaniacurata.ro/servicii-publike-locale/wp-content/uploads/2021/10/Ghid-pentru-responsabilite-si-implicare-civica-2021-WEB_compressed_compressed.pdf.
15. **Țârulescu S.**, Bajdechi A., Raportul național de diagnoză privind calitatea serviciilor publice municipale, Transport public, realizat în colaborare cu Societatea Academică din România / Cetățeni activi pentru servicii publice de calitate la nivel local, București, 2022, <https://drive.google.com/file/d/1AMmii19vJqYLdilkETcZuu34GyoP3MkE/view>.

4. Articole în extenso, publicate în fluxul științific internațional principal

1. Taus N., **Țârulescu S.**, Idomir M., Taus R., Respiratory exposure to air pollutants, Journal of Environmental Protection and Ecology 9, No 1, 15-25 (2008), ISSN 1311-5065.
2. **Țârulescu S.**, Cofaru C., Road Junction Geometry Influence over the Vehicles Air Pollution, WSEAS, ADVANCES in PRODUCTION, AUTOMATION and TRANSPORTATION SYSTEMS, 2013, p.343-348.

3. **Tarulescu S.**, Soica A., Emissions level approximation at cold start for spark ignition engine vehicles, *Applied Mechanics and Materials* Vol. 555 (2014) pp 375-384.
4. **Tarulescu S.**, Beles H., Soica A., Chioreanu N., Mitran T., Predict Air Pollution in Brasov City with Regression Models, *Applied Mechanics and Materials* Vol. 659 (2014) pp 617-622.
5. Chiorenu N., Mitran T., **Țârulescu S.**, Beles H., Soica A., Simulation of the Free Piston's Movement from the Single Regime Running Thermo-Hydraulic Generator, *Applied Mechanics and Materials* Vol. 659 (2014) pp 171-176.
6. Soica A., **Țârulescu S.**, Ispas N., An Theoretical Approach upon the Stiffness of Vehicle Resistance Structure Submitted to an Axial Impact, *Applied Mechanics and Materials* Vol. 659 (2014) pp 250-255.
7. Soica A., **Țârulescu S.**, "Analysis of the Deformation Mode and Determination of the Energy Dissipated by the Resistance Structure of the Vehicles", *Applied Mechanics and Materials*, Vol. 772, pp. 79-83, Jul. 2015.
8. I. Leahu, A. Chiru, **Țârulescu S.**, "A Modality to Optimize Common Functioning of a Pressure Wave Supercharger with an Internal Combustion Engine", *Applied Mechanics and Materials*, Vol. 772, pp. 350-354, Jul. 2015.
9. **Țârulescu S.**, Țârulescu R., Șoica A., Researches on combustion quality for a GDI experimental engine, *Scientific Research And Education In The Air Force-AFASES*, 2016, DOI: 10.19062/2247-3173.2016.18.1.52.
10. Șoica A., **Țârulescu S.**, "Impact phase in frontal vehicle-pedestrian collisions", : *International Journal Of Automotive Technology* Volume: 17 Issue: 3 Pages: 387-397 DOI: 10.1007/s12239-016-0040-y 2016, ISSN: 1229-9138.
11. Leahu C. I., **Țârulescu S.**, The influence of thermal regime on gasoline direct injection engine performance and emissions, *Materials Science and Engineering* 147 (2016) 012127 doi:10.1088/1757-899X/147/1/012127.
12. **Țârulescu S.**, Țârulescu R., Researches on Combustion Quality for a Single Cylinder Diesel Engine, *The International Congress on Automotive and Transport Engineering CONAT 2016*, <http://www.conat.ro/>.
13. **Țârulescu S.**, Țârulescu R., Urban Transportation Solutions for the CO2 Emissions Reduction Contributions, *The International Congress on Automotive and Transport Engineering CONAT 2016*, <http://www.conat.ro/>.
14. Țârulescu R., **Țârulescu S.**, Electronic Control Systems of E-SMART Vehicle, *The International Congress on Automotive and Transport Engineering CONAT 2016*, <http://www.conat.ro/>.
15. Țârulescu R., **Țârulescu S.**, Battery Management System of E-SMART Vehicle, *The International Congress on Automotive and Transport Engineering CONAT 2016*, <http://www.conat.ro/>.
16. Dogariu D.M., Chiru A., **Țârulescu S.**, Lazar M., Stancu V.M., Study on Mixture Formation at an Experimental Spark Ignition Engine, *The International Congress on Automotive and Transport Engineering CONAT 2016*, <http://www.conat.ro/>.
17. Dogariu D.M., Chiru A., **Țârulescu S.**, Lazar M., Aspects Concerning Modelling of Combustion for Compression Ignition Engine with Injection Management, *The International Congress on Automotive and Transport Engineering CONAT 2016*, <http://www.conat.ro/>.
18. Tolea B., **Țârulescu S.**, Trusca D.D., Toganel G., Radu A.I., The Assessment of the Head Injury of a Pedestrian in Comparison with a Cyclist, *The International Congress on Automotive and Transport Engineering CONAT 2016*, <http://www.conat.ro/>.
19. **Țârulescu S.**, Țârulescu R., Șoica A., Leahu C. I., Smart Transportation CO2 Emission Reduction Strategies, *IOP Conference Series: Materials Science and Engineering*, Volume 252, Conference 1, indexare ISI 2018.

20. Manea L., Manea A., Florea D., **Țârulescu S.**, Road Traffic Noise Pollution Analysis for Cernavoda City, IOP Conference Series: Materials Science and Engineering, Volume 252, Conference 1, indexare ISI 2018.
21. Țârulescu R., **Țârulescu S.**, Șoica A., Leahu C. I., Downforce variation dependence of angle of incidence modification for the rear wing of high speed vehicles, IOP Conference Series: Materials Science and Engineering, Volume 252, Conference 1, indexare ISI 2018.
22. Leahu, CI., Radu, S., **Țârulescu, S.**, Țârulescu, R. (2019). Usage of Electric Motors/Generators for Engines Supercharging in Order to Increase the Efficiency of Exhaust Gas Energy Recovery. In: Burnete, N., Varga, B. (eds) Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018). AMMA2018 2018. Proceedings in Automotive Engineering. Springer, Cham. https://doi.org/10.1007/978-3-319-94409-8_64.
23. Luca Motoc, D., Țârulescu, R., **Țârulescu, S.**, Șoica, A. (2019). Designing Hybrid BF/FF Epoxy Based Composites with Tailorable Dielectric Properties. In: Burnete, N., Varga, B. (eds) Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018). AMMA2018 2018. Proceedings in Automotive Engineering. Springer, Cham. https://doi.org/10.1007/978-3-319-94409-8_40.
24. Florea, D., Covaciu, D., Timar, J., **Țârulescu, S.** (2019). Critical Evaluation of the Pedestrian Walking Distances on the Congested Urban Networks. In: Burnete, N., Varga, B. (eds) Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018). AMMA2018 2018. Proceedings in Automotive Engineering. Springer, Cham. https://doi.org/10.1007/978-3-319-94409-8_86.
25. Țârulescu, R., **Țârulescu, S.**, Leahu, CI., Luca-Motoc, D. (2020). Marine Ship Equipped with Air Turbine – Electric Generator Aggregate. In: Dumitru, I., Covaciu, D., Racila, L., Rosca, A. (eds) The 30th SIAR International Congress of Automotive and Transport Engineering. SMAT 2019. Springer, Cham. https://doi.org/10.1007/978-3-030-32564-0_22.
26. **Țârulescu, S.**, Țârulescu, R., Leahu, CI. (2020). On-Board Measurement of Emissions from Spark Ignition Engine Vehicle for Urban Routes. In: Dumitru, I., Covaciu, D., Racila, L., Rosca, A. (eds) The 30th SIAR International Congress of Automotive and Transport Engineering. SMAT 2019. Springer, Cham. https://doi.org/10.1007/978-3-030-32564-0_29.
27. Chiru A., **Țârulescu, S.**, Testing and approval of internal combustion engines, Ingineria Autovehiculului, (50), pp.2-2, martie 2019.
28. Leahu, CI., **Țârulescu, S.**, Radu S., Steady state engine efficiency specific to series hybrid electric vehicles Ingineria Autovehiculului, (50), pp.19-22, martie 2019.

5. Publicații în extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

1. **Țârulescu S.**, Tarulescu R., The influence of the road traffic on noise pollution in urban areas, conferinta CAR2005, Pitesti, 2005, ISBN 973-690-450-4 .
2. **Țârulescu S.**, Tarulescu R., The interior and exterior noise analysis produced by the vehicles, conferinta CAR2005, Pitesti, 2005, ISBN 973-690-450-4.
3. Țârulescu R., **Țârulescu S.**, Contributions for the analytical determination of the wheel drive vehicles in horizontal increasing motion, Conferința TEHNONAV 2006, Constanța, 2006, ISBN 973-14-307-4, 978-973-614-307-6.
4. Țârulescu R., Benche V., **Țârulescu S.**, The hydraulic scheme elaboration for the hydrostatic traction of the vehicles, The XXXIst "Caius Iacob" Conference on Fluid Mechanics and its Technical Applications, October 19-21, 2006 Brasov, Editura Universității Transilvania din Brașov, ISBN – 10: 973-635-831-3, ISBN – 13: 978-973-635-831-9.

5. Cofaru C., **Țârulescu S.**, ȚȚârulescu R., The influence of the road traffic composition and the meteorological conditions over the chemical pollution in urban areas, The 1st International Conference MOTOR VEHICLE AND TRANSPORTATION, MVT2006, Timișoara, 2006, ISBN – 10: 973-638-284-2, ISBN – 13: 978-973-638-284-0.
6. **Țârulescu S.**, Soica A., Tarulescu R., Measurement of traffic noise pollution in urban areas, ANNALS of the ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, Oradea, 2007, ISSN 1583-0691, CNCSIS „Clasa B+”.
7. Cofaru C., Florea D., **Țârulescu S.**, Researches about the influence of the increasing of urban traffic flows on air quality, 2-nd International Conference on Thermal Engines and Environmental Engineering MET IME 2007, Volume 1, University “DUNAREA DE JOS” of Galati, ISBN 978-973-1724-17-1.
8. ȚȚârulescu R., Benche V., **Țârulescu S.**, The turbo – gasodynamic recovery of the fluid energy for a road vehicle, A XVI – a Conferință de Termotehnică cu Participare Internațională, Universitatea “Petrol-Gaze” din Ploiești, 31 Mai – 1 Iunie 2007 Volumul 1, Termotehnica, Schimb de Caldura si Aplicatii, Editura Universitatii Petrol - Gaze din Ploiesti, ISSN 1843 – 1992.
9. **Țârulescu S.**, Benche V., Tarulescu R., A Possible Hydraulic Recovery/Conversion/Stockage Of The Energy Resulted From The Elastic Strain Of The Tyre Under The Vehicle Weight At The Uniform Horizontal Plane Movement, International Congress Automobile, Environment and Farm Machinery, AMMA2007, Cluj-Napoca, ISSN 1221-5872.
10. Cofaru C., Florea D., **Țârulescu S.**, The influence of the modified geometrical parameters of an intersection over the traffic flows, International Congress Automobile, Environment and Farm Machinery, AMMA2007, Cluj-Napoca, ISSN 1221-5872.
11. Cofaru C., Florea D., **Țârulescu S.**, Study about the traffic flows depending on populations’ mobility in urban areas, International Congress Automobile, Environment and Farm Machinery, AMMA2007, Cluj-Napoca, ISSN 1221-5872.
12. **Țârulescu S.**, Tarulescu R., Soica A., Mathematical model of pollution compounds calculus in function of traffic capacity from urban areas, Proceedings of the 1st WSEAS International Conference on Multivariate Analysis and its Application in Science and Engineering (MAASE 08), Istanbul, Turcia, 27-30 mai 2008, ISSN: 1790-5117, ISBN: 978-960-6766-65-7, ISI Thomson Reuters.
13. Cofaru, C., Florea, D., **Țârulescu S.**, ȚȚârulescu, R., Urban areas chemical pollution in function of the traffic flow size and composition, International congress Automotive, safety and environment, second edition, SMAT 2008, 23-25 Oct. 2008, Craiova, ISBN 978-606-510-253-8.
14. Cofaru, C., Florea, D., **Țârulescu S.**, Timar, J., ȚȚârulescu, R., The influence of the road transportation over the monoxide carbon pollution in urban areas, The first international conference Transportation and land use interaction TRANSLU’08, Bucharest, 2008, ISSN 1844-9050.
15. Cofaru, C., Florea, D., **Țârulescu S.**, ȚȚârulescu, R., Road traffic noise pollution monitoring in urban areas, The 33rd international conference on automotive engineering OFF –ROAD VEHICLES – ORV 2008, Bucharest, Romania, 2008, ISBN 978-973-640-149-7.
16. Șoica, A., Luca Motoc, D., Lache, S., **Țârulescu S.**, Aspects concerning of the vehicle-pedestrian impact at low velocities, DAAAM International Scientific Book 2008, Vol. 7, ISSN 1726-9687, ISBN 3-901509-69-0, Editor: B. Katalinic, hard cover, Publisher DAAAM International Vienna.
17. Trușcă, D., Șoica, A., Benea, B., **Țârulescu S.**, Computer Simulation and Experimental Research of the Vehicle Impact, Proceedings of the Proceedings of the 2nd WSEAS International Conference on Multivariate Analysis and its Application in Science and

Engineering (MAASE '09) Istanbul, Turkey, May 30 - June 1, 2009, ISSN: 1790-5117, ISBN: 978-960-474-083-3, ISI Thomson Reuters.

18. Cofaru, C., **Țârulescu S.**, Study Regarding Air Pollution Produced by Vehicles and a Prediction Model of Chemical Pollutants, Proceedings of the 2nd International Conference on ENVIRONMENTAL and GEOLOGICAL SCIENCE and ENGINEERING (EG '09), Braşov, 2009, ISSN: 1790-2769, ISBN: 978-960-474-119-9, ISI Thomson Reuters.

19. Truşcă, D., Şoica, A., Benea, B., **Țârulescu S.**, Computer Simulation And Experimental Research Of The Vehicle Impact, Wseas Transactions On Computers, ISSN 1109-2750, Issue 7, Volume 8, July 2009.

20. Şoica, A., Luca Motoc, D., **Țârulescu S.**, Influence of bumper design on pedestrian injuries, The 20 th International DAAAM Symposium, 25-28 nov 2009, Viena, ISSN 1726-9679.

21. **Țârulescu S.**, Țârulescu, R., Şoica, A., Aproximation of the carbon monoxide concentration resulting from the road traffic using experimental measurements, The 20 th International DAAAM Symposium, 25-28 nov 2009, Viena, ISSN 1726-9679.

22. Truşcă, D., Şoica, A., Toganel, G., **Țârulescu S.**, Aspects related to injuries caused by the vehicles impacts, The 8th International Conference of Fuel Economy, safety and Reliability of Motor Vehicles ESFA2009, 12-14 noiembrie Bucuresti, ISSN 2067-1083.

23. **Țârulescu S.**, Cofaru, C., The Methodology of Chemical Pollutants Approximation Model, The 3rd International Conference on Urban Planning and Transportation (UPT '10), Corfu Island, Greece, July 22-24, 2010, ISBN: 978-960-474-204-2.

24. Şoica, A., Năstăsoiu, M., Ispas, N., **Țârulescu S.**, Mathematical model of human body head and thorax injury level simulation following the motor vehicle - pedestrians collisions, The 11th International Congress on Automotive and Transport Engineering CONAT 2010, Volume IV-Advanced Transport Systems and Road Traffic, ISSN 2069-0401, 2010.

25. Dima, D.S., Ruşitoru, F., Şoica, A., **Țârulescu S.**, Experimental Study of the Vehicle Pedestrian Collisions, The 11th International Congress on Automotive and Transport Engineering CONAT 2010, Volume IV-Advanced Transport Systems and Road Traffic, ISSN 2069-0401, 2010.

26. Truşcă, D., Şoica, A., **Țârulescu S.**, Plăiaşu, A., Influence of Various Anthropometric Constitution of Pedestrian in case of Vehicle Pedestrian Impact, The 11th International Congress on Automotive and Transport Engineering CONAT 2010, Volume IV-Advanced Transport Systems and Road Traffic, ISSN 2069-0401, 2010.

27. **Țârulescu S.**, Țârulescu, R., Road traffic chemical pollution modeling system, The 11th International Congress on Automotive and Transport Engineering CONAT 2010, Volume IV-Advanced Transport Systems and Road Traffic, ISSN 2069-0401, 2010.

28. **Țârulescu S.**, Țârulescu, R., Chemical pollution produced by the heavy vehicles in urban areas, The 11th International Congress on Automotive and Transport Engineering CONAT 2010, Volume IV-Advanced Transport Systems and Road Traffic, ISSN 2069-0401, 2010.

29. **Țârulescu S.**, Țârulescu, R., Chemical Pollution Produced by the Diesel Vehicles in Brasov City, The Automobile and the Environment: International Congress of Automotive and Transport Engineering CONAT, Cambridge Scholars Publishing, 2011, ISBN (10): 1-4438-2972-2, ISBN (13): 978-1-4438-2972-4.

30. **Țârulescu S.**, Țârulescu, R., A prediction model for urban air pollution in brasov city, CAR 2011 International Automotive Congress, Automotive Engineering and Environment, ISSN 1453 - 1100.

31. **Țârulescu S.**, Țârulescu, R., Pedestrian exposure to air pollution along a major road in brasov city center, CAR 2011 International Automotive Congress, Automotive Engineering and Environment, ISSN 1453 - 1100.

32. **Țârulescu S., Țârulescu, R.**, The Influence of Geometrical Parameters and Traffic Composition Over the Air Pollution in Urban Areas, ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, ISSN 1583 - 0691, Volume XI (XXI), CNCSIS "Clasa B+", 2012.
33. **Țârulescu S., Țârulescu, R.**, Approximation of Air Pollution in Central Area of Brasov, ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, ISSN 1583 - 0691, Volume XI (XXI), CNCSIS "Clasa B+", 2012.
34. Țârulescu, R., **Țârulescu S.**, Distance Measurements With Ultrasonic Sensor DT020-1, ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, ISSN 1583 - 0691, Volume XI (XXI), CNCSIS "Clasa B+", 2012.
35. Țârulescu, R., **Țârulescu S.**, Disturbing Factors Influence in Ultrasonic Sensor Detection, ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, ISSN 1583 - 0691, Volume XI (XXI), CNCSIS "Clasa B+", 2012.
36. **Țârulescu S., Cofacu, C.**, The Efficiency of Various Taken Measures to Reduce Urban Air Pollution, Modern Traffic and Transportation Engineering Research, 2012 Vol.1 No.1, 2012-07-04, ISSN: 2304-9405, World Academic Publishing (Queensway, HK).
37. **Țârulescu S., Cofacu, C., Popescu, M.**, Chemical Pollution Approximation Depending on Traffic Flows, 5th WSEAS International Conference on Environmental and Geological Science and Engineering (EG '12), Vienna, Austria, November 10-12, 2012, ISBN 978-1-61804-135-7.
38. **Țârulescu S.**, The influence of road characteristics and tires on vehicle noise, ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, ISSUE #1, JULY 2013, p.401 - p.404.
39. **Țârulescu S.**, The intersections geometry influence over the road traffic noise pollution, ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, ISSUE #1, JULY 2013, p.401 - p.404.
40. **Țârulescu S.**, Study of Noise Pollution for Brasov City, INTERNATIONAL CONGRESS AMMA 2013 - Automotive Motor Mobility Ambient 17-19 October 2013 CLUJ-NAPOCA.
41. Tarulescu R., **Țârulescu S.**, Olteanu C., Vehicle Pollution For Cold Engine Functioning, –IMT Oradea 2014, ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, ISSUE #1, 2014, p. 281-284.
42. **Țârulescu S., Cofaru C.**, The influence of the cold engine's operating regime on the exhaust emissions, 3RD International congress science and management of automotive and transportation engineering, Craiova, Romania, 2014.
43. **Țârulescu S., Șoica A., Țârulescu R.**, LPG, a solution for old vehicles pollution reduction, –IMT Oradea 2015, ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, ISSUE #1, 2015.
44. **Țârulescu S., Șoica A., Țârulescu R.**, Emissions level approximation at cold start for diesel vehicles, –IMT Oradea 2015, ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, ISSUE #1, 2015.
45. **Țârulescu S., Țârulescu S., Benche V.**, Dynamic characteristics of a translational mobile aggregate, –IMT Oradea 2015, ANNALS OF THE ORADEA UNIVERSITY, Fascicle of Management and Technological Engineering, ISSUE #1, 2015.
46. **Țârulescu S., Țârulescu R., Șoica A.**, Pollution level produced at engine start for a hybrid vehicle, European Automotive Congress, EAEC-ESFA'15 006B – FEP, November 25 - 27, 2015, ISSN 2067-1083, p 54-61.
47. **Țârulescu S., Țârulescu R., Leahu C.I.**, Optimizing Combustion in an Single Cylinder GDI SI Engine, Proceedings of the European Automotive Congress EAEC-ESFA 2015,

Springer Cham Heidelberg New York Dordrecht London, ISBN 978-3-319-27275-7 ISBN 978-3-319-27276-4 (eBook), DOI 10.1007/978-3-319-27276-4, Library of Congress Control Number: 2015955888 p. 395-404.

48. Tarulescu, R. **Țârulescu S.**, Measurement Methods for the Path Deviation of Mobile Robots Determination of linear and angular deviation, Proceedings of the 2015 7th international conference on electronics, computers and artificial intelligence (ECAI) Book Series: International Conference on Electronics Computers and Artificial Intelligence Pages: P91-P94, 2015, ISSN: 2378-7147.

49. **Țârulescu S.**, Țârulescu Radu, Șoica Adrian, Energetic optimization of the cooling system for internal combustion engines, 4th Central and Eastern European Committee for Thermal Analysis and Calorimetry (CEEC-TAC4), Chișinău, Moldova, 2017.

50. **Țârulescu S.**, Țârulescu Radu, Șoica Adrian, Motoc Dana Luca, Analytical contributions to the definition of a wind traction for marine ships, 4th Central and Eastern European Committee for Thermal Analysis and Calorimetry (CEEC-TAC4), Chișinău, Moldova, 2017.

51. **Țârulescu S.**, Țârulescu Radu, Leahu Cristian Ioan, Carbon Dioxide Control Technologies for Diesel Engines, University of Pitesti Scientific Bulletin Series: AUTOMOTIVE series, year XXIV, no. 28, DOI <https://doi.org/10.26825/bup.ar.2018.009>, 2017.

52. **Țârulescu S.**, Țârulescu R., Leahu C.I., Șoica A., Aramă C., Reducing Carbon Emissions from Vehicles by Using Catalytic Solutions, The International Congress of Automotive and Transport Engineering, AMMA 2018, <http://www.amma2018.ro/index.php/amma/2018/paper/view/119>.

53. **Țârulescu S.**, Țârulescu R., Leahu C.I., Șoica A., Aramă C., 119 Reducing diesel emissions by using a catalytic solution, The International Congress of Automotive and Transport Engineering, AMMA 2018, <http://www.amma2018.ro/index.php/amma/2018/paper/view/>

54. Costiuc I., Chiru A., Costiuc L., **Țârulescu S.**, Leahu C.I., Emission investigation of modified pressure wave supercharger working on internal combustion engine, 12 European Symposium on Thermal analysis and Colorimetry, ESTAC12, August 2018. link:<http://estac12.org/estac12/welcome.html>

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Conf.dr.ing. Stelian ȚÂRULESCU