

Lista de lucrări de laborator

1. Analiza constructiv-funcțională a sistemului de supralimentare a m.a.i.
2. Determinarea performanțelor de poluare ale motoarelor alimentate cu biocombustibili
3. Determinarea performanțelor de putere ale m.a.i.alimentate cu biocombustibili

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Semnatura,



Avizat

Director department ART

Conf. dr. ing. Adrian Todorescu



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Lista de lucrări științifice

Articole ISI:

1. Mariasiu, F., Burnete, N.V., Moldovanu, D., Varga, B.O., Iclodean, C., **Kocsis, L.**, "Effects of bioethanol ultrasonic generated aerosols application on diesel engine performances", *Thermal Science* (ISI Impact Factor 2014 1.222), 2015, ISSN: 0354-9836, DOI:10.2298/TSCII40703108M

Articole BDI:

1. **Kocsis, L.**, Gaspar, F., Kelemen, Zs., Analiza îmbunătățirii consumului de combustibil a unui m.a.i. prin dezactivare de cilindri, *Revista "Știința și Inginerie"*, Vol 31, ISSN 2067-7138, Sebes, 2017
2. Gaspar, F., **Kocsis, L.**, Chereches I.A., *Eficiența unui sistem termo solar în contextul economic actual. Caz particular*, *Revista "Știința și Inginerie"*, Vol 31, ISSN 2067-7138, Sebes, 2017
3. Marincas, C., Baldean, D.L., **Kocsis, L.**, Borzan Adela Ioana, *Contribuții la cercetarea experimentală a funcționalității modului electronic Diesel Control (EDC) în raport cu alimentarea de la motorul N47 de la automobilul BMW 320D (E90)*, *Revista "Știința și Inginerie"*, Vol 31, ISSN 2067-7138, Sebes, 2017
4. Toader G-V., Chereches I.A, **Kocsis, L.**, Gaspar, F., Borzan Adela Ioana, Contribuții la cercetarea experimentală a parametrilor sistemului de alimentare prin injecție de la motorul 3.0i al automobilului BMW X5, *Revista "Știința și Inginerie"*, Vol 31, ISSN 2067-7138, Sebes, 2017
5. Baldean DL., **Kocsis L.**, Gaspar F., *Research of Fuel Injection System Parameters for the Engine of BMW 320D*, *Revista "Știința și Inginerie"*, Vol 30, pp 353-360, ISSN 2067-7138, Sebes, 2016
6. **Kocsis, L.**, Moldovanu, D., Baldean, D.B., *The Influence of Exhaust Backpressure Upon the Turbocharger's boost pressure*, *Proceedings of the European Automotive Congress EAEC-ESFA 2015*, pp 367-374, DOI 10.1007/978-3-319-27276-4_34, ISBN 978-3-319-27275-7, Springer
7. Burnete, N., Moldovanu, D., Baldean DL., **Kocsis L.**, *Studies Regarding the Influence of Exhaust Backpressure on the Performances of a Compression Ignited Engine*, *Proceedings of the European Automotive Congress EAEC-ESFA 2015*, 141-149

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8. Lupa, L.V., Borzan, Adela-Ioana, Moldovanu, D., **Kocsis L.**, *Research applied to exhaust gas aftertreatment system in 1.6L ZSG Ford engine*, Proceedings of the European Automotive Congress EAEC-ESFA 2015, pag 367-374, Ed. Springer International Publishing, ISBN: 978-3-319-27275-7 (Print) 978-3-319-27276-4 (Online), DOI https://doi.org/10.1007/978-3-319-27276-4_44
9. Moldovanu, D., Baldean, D.- L., Gaspar, F., **Kocsis, L.**, Borzan Adela-Ioana, Burnete, N. – V., Crisan, M. – A., *Research review of the possibility and the conditions for increasing the energy efficiency in automotive engines by innovating and influencing the operational process*, Proceedings of the European Automotive Congress EAEC-ESFA 2015
10. **Kocsis, L.**, Burnete, N., *Experimental Research Made During a City Cycle on the Feasibility of Electrically Charged SI Engines*, Central European Journal of Engineering, Vol 4, Issue 2, pp 125-132, 2014, ISSN:1896-1541
11. **Kocsis, L.**, Póka, I., *Analiza posibilităților de îmbunătățire a parametrilor de performanță a unui MAS supraalimentat prin modificarea fazelor de distribuție*, Revista „Știința și Inginerie”, Vol 26, ISSN 2067-7138, Sebes, 2014
12. Moldovanu D., Burnete N., **Kocsis L.**, Băldean D.L., *Evaluation of Regulated and non-regulated Pollutant Emissions at Cold Start and During Warm-up for a Compression Ignited Tractor Engine that Works with Blends*, published in INMATEH Agricultural Engineering Special Issue 2013, ISSN 2068 - 4215
13. Baldean, D., Burnete, N., Moldovanu, D., **Kocsis, L.**, *Comparative investigation of opacity formation in combustion chamber of compression ignition engine running on Diesel fuel and B20 blend*, in INMATEH Agricultural Engineering, vol. 1, no. Special Issue 2013
14. **Kocsis, L.**, Burnete, N., *Influences of electrically assisted charging upon functional parameters of the SI engines*, published in *Research Journal of Agricultural Science*, ISSN 2066-1843, Vol 44, 2012.
15. Mariașiu, F., Moldovanu, D., **Kocsis, L.B.**, *CFD simulation of ultrasonic conditioning influences on biodiesel injection process*, *Research Journal of Agricultural Science*, 43 (1), 2011.
16. Barabás, I., Todorut, I.A., **Kocsis, L.**, Băldean, D.L. , *Automated Test Bench for Study of the Fuel Injection Process*, *Solid State Phenomena Volumes 166-167*, pp 39-44, DOI: 10.4028/www.scientific.net/SSP.166-167.39, 2010
17. Baldean, D., Burnete, N., Moldovanu, D., Borza, E., **Kocsis, L.**, *Research through simulation of the injection and combustion process – in a common rail diesel engine operated with biofuel*, in *Acta Technica Napocensis*, Scientific bulletin of Technical University of Cluj-Napoca, Cluj-Napoca, Romania, Series: Machines Construction Materials, nr. 52. ISSN 1224-9106, 2009.

Articole publicate în volumele unor conferințe indexate în baze de date

1. **Kocsis, L.**, Balcau, Monica, Cazila, Aurica, *Study of some Tribological Aspects of the Charging System of an IC Engine*, Proceedings of CONAT 2016 International Automotive Congress, ISSN: 2069-0401, pp 217-223

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2. **Kocsis, L.**, Prevedel, K., Burnete, N., Moldovanu, D., *Improving transient response of SI turbocharged engines*, paper No. 20111299 held at CAR2011 International Conference, Pitești, 2011.
3. Varga, B.O., Burnete, N., Rus, I., Vlad, N., **Kocsis, L.**, *Automatic Gearbox Optimizing Process Developed in AVL CRUISE*, Proceedings of the Fuel Economy, Safety and Reliability of Motor Vehicles (ESFA), cod lucrare ESFA 09/E09G102, 2009

Articole publicate în volumele unor conferințe neindexate

1. **Kocsis, L.**, Burnete, N., *Simulating transient performance of turbocharged engines*, SICOM International Conference, Cluj Napoca, 2012.
2. **Kocsis, L.**, Burnete, N., *Performance increase of turbocharged SI engines using an electrical charger unit – perspectives through simulation*, Sesiunea de comunicări științifice a studenților Facultății de Mecanică, ediția VIII, Cluj Napoca, 2012.
3. Baldean D.L., Moldovanu, D., Varga, B., Borza, E., **Kocsis, L.**, *Study of Diesel Fuel Injection System using Advanced Methods*, CONAT 2010, 11th International Congress, 27-29 October 2010, Brasov, Romania, Vol. V, Section 2, Advanced Vehicles and Environment, ISSN 2069-0401, Transilvania University Press
4. Moldovanu, D., **Kocsis, L.**, Baldean, D., *Studies of the influence parameters on the performance of the engine using AVL BOOST*, CONAT 2010, 11th International Congress, 27-29 October 2010, Brasov, Romania, Vol. V, Section 4, Advanced Engineering Methods, pag 179-182, ISSN 2069-0401, Transilvania University Press.
5. Barabás, I., Todoruț, A., **Kocsis, L.**, Ignat, A.D., *Rapid Fuel Properties Estimation Through Chemometric Modeling of NIR Spectra*, CONAT 2010, 11th International Congress, 27-29 October 2010, Brasov, Romania, Section 2, ISSN 2069-0401
6. **Kocsis, L.**, Burnete, N., Costea, A., *Redesigning the Combustion Chamber of a SI Engine in Order to have Optimal Combustion Process Using Alcohols*, CONAT 2010, 11th International Congress, 27-29 October 2010, Brasov, Romania, Section 1, ISSN 2069-0401
7. Barabas, I., Todorut, A., **Kocsis, L.**, *Comparative road performance test results of biodiesel-diesel-ethanol fuel blends*, Proceedings of the 18th International OGET Conference Published by EMT, 22nd-25th April 2010, pp. 52, Baia Mare, Romania, ISSN 2068-1267

Data:10.01.2018

Semnătura



Lista contractelor de cercetare

Nr.crt	Detalii proiect
1	Studii ale unui motor cu aprindere prin comprimare cu injectie directa de motorina si etanol, Proiect intern de cercetare-dezvoltare-inovare al Universitatii Tehnice din Cluj-Napoca, competitia 2017-2018, cod 16672/12.07.2017, director de contract Burnete Nicolae Vlad
2	Cresterea eficientei energetice a bioalcooilor prin procedeu inovativ de fumigare, Proiect intern de cercetare-dezvoltare-inovare al Universitatii Tehnice din Cluj-Napoca, competitia 2015-2016, Cod C.I.11/1.2./2015, director de contract Baldean Doru
3	Posibilitati de dezvoltare a unor lubrifianti biodegradabili pe baza de nanomateriale – NANOLUB, Proiect intern de cercetare-dezvoltare-inovare al Universitatii Tehnice din Cluj-Napoca, competitia 2014-2015, cod C.I.27126/2014, director de proiect Moldovanu Dan
4	Contract cu TVA nr. 17 din 26.02.2013, director de contract Varga Bogdan Ovidiu
5	Cercetari privind substituirea partiala a motorinei destinata motoarelor diesel prin amestecuri de biodiesel-motorina-bietanol. Programul: IDEI, Planul National de Cercetare, Dezvoltare si Inovare - PN II, Tipul proiectului: Proiecte de cercetare exploratorie, Cod proiect: ID_1098, Nr. Contract: 88/01.10.2007, director de proiect Barabas Istvan

Data: 10.01.2018

Semnătura

