

PUBLIKAȚII/PUBLICATIONS

2007

TODORUȚ, A., BARABÁS, I., ...: *Analytical evaluation of the air excess coefficient as function of experimentally measured exhaust gas composition in the D 2402.200 engine using sunflower oil based fuels*. În: International Congress Automotive, Environment and Farm Machinery AMMA 2007, Cluj-Napoca 11–13 Octombrie 2007. Paper Identification Number: AMMA 2007615.

Buletinul Științific al U.T.C-N., *Acta Technica Napocensis*, Section: *Applied Mathematics and Mechanics*, nr. 50, 2007, Vol. IV, pg. 439–442, Editura U.T. PRES, ISSN 1221–5872.

http://www.atna-mam.utcluj.ro/pdf/2007no50vol_V_cuprins_si_rezumat.pdf

TODORUȚ, A., BARABÁS, I., ...: *Comparative evaluation of the alternative fueled D 2402.000 diesel engine with sunflower oil based and diesel fuel theoretically and experimentally determined main parameters*. În: International Congress Automotive, Environment and Farm Machinery AMMA 2007, Cluj-Napoca 11–13 Octombrie 2007. Paper Identification Number: AMMA-2007523. Buletinul Științific al U.T.C-N., *Acta Technica Napocensis*, Section: *Applied Mathematics and Mechanics*, nr. 50, 2007, Vol. V, pg. 325–328, Editura U.T. PRES, ISSN 1221–5872.

http://www.atna-mam.utcluj.ro/pdf/2007no50vol_V_cuprins_si_rezumat.pdf

BARABÁS, I., ..., TODORUȚ, A.: *Researches aiming partial substitution of diesel fuels for diesel engine with biodiesel–diesel–bioethanol mixtures*. În: International Congress Automotive, Environment and Farm Machinery AMMA 2007, Cluj-Napoca 11–13 Octombrie 2007. Paper Identification Number: AMMA 2007528. Buletinul Științific al U.T.C-N., *Acta Technica Napocensis*, Section: *Applied Mathematics and Mechanics*, nr. 50, 2007, Vol. V, pg. 349–352, Editura U.T. PRES, ISSN 1221–5872.

http://www.atna-mam.utcluj.ro/pdf/2007no50vol_V_cuprins_si_rezumat.pdf

TODORUȚ, A., ..., BARABÁS, I., ...: *The numerical evaluation of diesel engine exhaust gas when fueled by sunflower-based oil compared to diesel fuel*. Cluj-Napoca, Buletinul Științific al U.T.C-N., *Acta Technica Napocensis*, Section: *Machines Construction. Materials*, nr. 50, 2007, pg. 63–70, Editura U.T. PRES, ISSN 1224–9106.

<http://www.atna-mam.utcluj.ro/>

2008

BARABÁS, I., TODORUȚ: *Possibilities of using biodiesel - diesel - bioethanol blends as fuel for internal combustion engines*. În: 16th International Conference in Mechanical Engineering (OGET), Brașov, May 1-4, 2008, (Technical Review, Special Issue, p. 42-45), ISSN 1454-0746.

http://www.emt.ro/hu/tevekenysegeink/kiadvanyok_periodikak/muszaki_szemle.php

BARABÁS, I., TODORUȚ, A., SUCIU, F., BĂLDEAN, D.: *Viscosity of Biodiesel-Diesel-Bioethanol Blends*. În: microCAD 2008, International Scientific Conference, 20–21 March 2008, University of Miskolc, Hungary. Section C: Non-Conventional Energy Resources - Research and Utilization, pg. 77–82. Kiadja a Miskolci Egyetem Innovációs es Technológia Transzfer Centruma; Nyomdászám: ME. Tu–174/2008. ISBN 978–963–661–812–4 Ö; ISBN 978–963–661–814–8.

<http://www.uni-miskolc.hu/~microcad/>

2009

BARABÁS, I., TODORUȚ, A.: *Key fuel properties of biodiesel-diesel-bioethanol blends* (SAE 2009-01-1810), SAE Powertrains, Fuels and Lubricants Meeting, June 2009.

<HTTP://WWW.SAE.ORG/TECHNICAL/PAPERS/2009-01-1810>

BARABÁS, I., TODORUT, A., BALDEAN, D., SUCIU. F.: *Experimental study on the spray characteristics for diesel fuel and biodiesel-diesel fuel-bioethanol blends* (EAEC 2009-02-009). *Indexat in baza de date internationala*: International Federation of Automotive Engineering Societies.

www.sat1.fi/galleria/tiedostot/jasenille/Kiertokirje_409_liite_2.pdf

[HTTP://WWW.SAITS.BTS.SK/FP01.HTML](http://www.SAITS.BTS.SK/FP01.HTML)

BARABÁS, I., TODORUT, A., BALDEAN, D., SUCIU. F.: *Key fuel properties of biodiesel-diesel-bioethanol blends which influence the spray process* (EAEC 2009-02-013). *Indexat in baza de date internationala*: International Federation of Automotive Engineering Societies.

www.sat1.fi/galleria/tiedostot/jasenille/Kiertokirje_409_liite_2.pdf

[HTTP://WWW.SAITS.BTS.SK/FP01.HTML](http://www.SAITS.BTS.SK/FP01.HTML)

BARABÁS, I.: *The fuel fitting to internal combustion engine*, In: 16th International Conference in Mechanical Engineering (OGET), Gheorgheni, 23-26 Apr., 2009, (Technical Review, Special Issue, p. 44-47), ISSN 1454-0746.

http://www.emt.ro/hu/tevekenysegeink/kiadvanyok_periodikak/muszaki_szemle.php

BARABÁS, I., TODORUT, A., BALDEAN, D.: *Evaluarea calității uleiului de ungere în cazul utilizării amestecurilor de motorină-biodiesel-etanol la alimentarea motoarelor cu aprindere prin compresie*. Ingineria Automobilului, editat de SIAR, Nr. 13.

http://ingineria-automobilului.ro/images/Ingineria_13.pdf

BARABÁS, I., TODORUT, A.: *Possibilities of recycling used cooking oil by converting to biofuels for powering compression ignition engines*. In: microCAD 2009, International Scientific Conference, 19-20 March 2009. University of Miskolc, Hungary. ISBN 978-963-661-812-4 Ö; ISBN 978-963-661-814-8.

<http://www.uni-miskolc.hu/~microcad/>

2010

BARABÁS, I., TODORUT, A., BALDEAN, D., *Performance and emission characteristics of an CI engine fueled with diesel-biodiesel-bioethanol blends*. În: Fuel the science and technology of Fuel and Energy, Volume 89, pg. 3827-3832, 2010 - Fuel 89 (2010) 3827-3832, Published by Elsevier Ltd., ISSN 0016-2361, Journal: JFUE, Article Number: 4861. Impact Factor: 3.179.

<http://dx.doi.org/10.1016/j.fuel.2010.07.011>.

BARABÁS, I., TODORUT, A., *Chassis Dynamometer and Road Test Performances of Biodiesel-diesel Fuel-Bioethanol Blend*. În: SAE 2010, Powertrains Fuels & Lubricants Meeting. Paper No. 2010-01-2139. ISSN 0148-7191, doi: 10.4271/2010-01-2139. Technical Session: Alternative and Advanced Fuels,

Session Code: FFL215, October 25, 2010, <http://www.sae.org/calendar/techsess/182214.pdf>.

<http://www.sae.org/technical/papers/2010-01-2139>.

BARABÁS, I., TODORUT, I.A., KOCSIS, L.B., BALDEAN, D.L., *Automated Test Bench for Study of the Fuel Injection Process*. În: the 5th International Conference: Robotics 2010, Cluj-Napoca, Romania, 23-25 September 2010. Solid State Phenomena Vols. 166-167 (2010) pg. 39-44, ISSN: 1012-0394

(<http://www.ttp.net/1012-0394.html>), ISBN / ISBN-13: 3-908451-88-4 / 978-3-908451-88-4, Phenom

Publisher: Trans Tech Publications Ltd, Switzerland, doi:10.4028/www.scientific.net/SSP.166-167.39.

Indexed by Elsevier: SCOPUS www.scopus.com and Ei Compendex (CPX) - www.ei.org/, Cambridge Scientific Abstracts (CSA) - www.csa.com, Chemical Abstracts (CA) - www.cas.org, Google and Google Scholar - google.com, ISI (ISTP, CPCI, Web of Science) - www.isinet.com, Institution of Electrical Engineers (IEE) - www.iee.org etc.

BARABÁS, I., TODORUT, A., KOCSIS, L., IGNAT, A.D., *Rapid fuel properties estimation through chemometric modeling of nir spectra*. În: International Congress on Automotive and Transport

Engineering, CONAT 2010, Braşov, The XIth Edition, 27–29 October, Volume III of VI, pg. 153-160, ISSN 2069-0401, Paper Identification Number: CONAT20102032.

BARABÁS, I., TODORUȚ, A., KOCSIS, L.: *Comparative road performance test results of biodiesel-diesel fuel-ethanol blends*. In: 18th International Conference in Mechanical Engineering (OGET), Baia Mare, April 22-25, 2010, pg. 11-16. Editor Hungarian Technical Scientific Society of Transylvania, ISSN 2068-1267. http://www.emt.ro/hu/tevekenysegeink/kiadvanyok_periodikak/muszaki_szemle.php

BARABÁS, I., TODORUȚ, A., KOCSIS, L.: *Research on diesel fuel-biodiesel-ethanol blends*. In: 18th International Conference in Mechanical Engineering (OGET), Baia Mare, April 22-25, 2010, pg. 52-55. Editor Hungarian Technical Scientific Society of Transylvania, ISSN 2068-1267. (Presented at the OGET plenary session). http://www.emt.ro/hu/tevekenysegeink/kiadvanyok_periodikak/muszaki_szemle.php