

**LISTA DE LUCRĂRI**  
**Sl. dr. ing. Cernat Alexandru**

**I. TEZA DE DOCTORAT (T):**

**T1. Cernat Alexandru** „*Contribuții la studiul funcționării unui motor diesel la alimentarea cu motorina și gaz petrolier lichefiat*”, Universitatea Politehnica din București, 2010

**II. CĂRȚI PUBLICATE (C)**

**Ca - Cărți / cursuri (manuale) pentru uzul studenților, publicate în edituri recunoscute**

**Ca1. Alexandru Cernat**, Niculae Negurescu, Constantin Pană, Marcel Ginu Popa, Dinu Fuioreșcu, „*Supraalimentarea motoarelor cu ardere internă*”, Editura MatrixRom, București, 2019, ISBN 978-606-25-0537-0, 272 pag. – Ed. MatrixRom cod CNCSIS 39, Biblioteca Nationala a Romaniei\_Bibliografie Nat. CIP2020/01.

**Cb – Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor)**

**Cb1.** Constantin Pana, Niculae Negurescu, Marcel Ginu Popa, **Alexandru Cernat**, Dinu Fuioreșcu, „*Motoare cu ardere interna. Grupul piston*”, Editura MatrixRom, București, 2016, ISBN 978-606-25-0304-8, 396 pag. – Ed. MatrixRom cod CNCSIS 39, Biblioteca Nationala a Romaniei\_Bibliografie Nat. CIP2016/12.

**Cc- Cărți publicate în alte edituri**

Nu e cazul

**III. ALTE MATERIALE PUBLICATE (I, D)**

**I – Culegeri și îndrumare publicate (separate în edituri cu ISBN și în tipografiile locale/de instituții sau de uz intern)**

**I1. Alexandru Cernat**, Nikolaos Nutu, „*Indrumar de laborator pentru motoare cu ardere internă*”, editura Editura MatrixRom, București, 2021, ISBN 978-606-25-0668-1, 185 pag. – Ed. MatrixRom cod CNCSIS 39, Biblioteca Nationala a Romaniei\_Bibliografie Nat. CIP2021/08.

**D – Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc.**

**D1.** Capitolul 11 intitulat „*Solutions for Polluting Emissions Reduction in Internal Combustion Engines*”, (pp: 237-279, 43 pages), autori **Alexandru Cernat**, Constantin Pana, Niculae Negurescu, in cartea „*Innovative Renewable Waste Conversion Technologies*”, 464 pagini, Editori: Gheorghe Lazaroiu, Lucian Mihaescu, Editura: Springer International Publishing, 2021, ISBN 978-3-030-81430-4 (print Book), ISBN 978-3-030-81431-1 (eBook) <https://doi.org/10.1007/978-3-030-81431-1>

**D2.** Capitolul 9 intitulat „*Hydrogen Energy Use in Comfort and Transport*” (pages 223-238), autori Constantin Pana, Maria Alexandra Ivan, **Alexandru Cernat**, Niculae Negurescu, Cristian Nuțu, Teodora Madalina Nichita, Gabriel Ivan, in cartea *Hydrogen Fuel Cell Technology for Stationary Applications*, editori Gheorghe Badea (Technical University of Cluj-Napoca, Romania), Raluca-Andreea Felseghi (Ștefan cel Mare University of Suceava, Romania) and Ioan Așchilean (Technical University of Cluj-Napoca, Romania), Release Date: April, 2021, Pages: 332, DOI: 10.4018/978-1-7998-4945-2, ISBN13: 9781799849452|ISBN10: 1799849457, EISBN13: 9781799849469|ISBN13 Softcover: 9781799851301, available on : <https://www.igi-global.com/book/hydrogen-fuel-cell-technology-stationary/244626>

**D3.** Book “*The Automobile and the Environment*”, Cambridge Scholars Publishing, 2011, UK, Part II: Alternative Fuels, Constantin Pană, Niculae Negurescu, Marcel Ginu Popa and **Alexandru Cernat**, “*LPG: Ecological Fuel for Automotive Diesel Engine*”- ISBN (10): 1-4438-2972-2, ISBN (13): 978-1-4438-2972-4, Chapter Thirteen, pp. 161-180N.

**D4.** Pana C., Popa M.G., Negurescu N., A. Badea, **Al. Cernat**, D. Soare, “*Bioetanolul, o sansa pentru Romania*” – capitolul 2 (pp 98-138), Centrul de Cercetari pentru Materiale Macromoleculare si Membrane S. A. Centru de excelenta /2006- ISBN-10973-0-04382-5; ISBN-13978-973-004382-2

#### IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R, V)

**Ris - Reviste de specialitate de circulație internațională recunoscute (cotate/indexate ISI Thomson Reuters, sau indexate în alte Baze de Date Internaționale- BDI specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță):**

**Ris în ISI** Articole/studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters):

**Pentru Web of Science cu numar WOS:**

**Ris. 1. Alexandru Cernat**, Constantin Pana, Niculae Negurescu, Gheorghe Lazaroiu, Cristian Nutu, „*The Influence of Hydrogen on Vaporization, Mixture Formation and Combustion of Diesel Fuel at an Automotive Diesel Engines*”, Sustainability, volume 13, number 202, 2021, pp: 1-16, MDPI, doi:10.3390/su13010202, revista ISI cotata Q2 cu FI: 2,576, indexat Web Of Science, <https://www.mdpi.com/journal/sustainability>, **WOS:000606410000001**, indexat si in SCOPUS <https://www.scopus.com/authid/detail.uri?authorId=25229963900>, Număr de citări: 1 în ISI WOS, 1 în SCOPUS

**Ris. 2. Alexandru Cernat**, Constantin Pana, Nicolae Negurescu, Gheorghe Lazaroiu, Cristian Nutu, Fuioreescu Dinu, *Hydrogen-An Alternative Fuel for Automotive Diesel Engines Used in Transportation*, Sustainability, volume 12, number 9321, 2020, pp: 1-21, doi:10.3390/su12229321, revista ISI cotata Q2 cu FI: 2,576, MDPI, indexat Web Of Science, <https://www.mdpi.com/journal/sustainability>, **WOS:000595078500001**, indexat si in SCOPUS <https://www.scopus.com/authid/detail.uri?authorId=25229963900>, Număr de citări: 1 în ISI WOS, 1 în SCOPUS

**Ris. 3. Alexandru CERNAT**, Constantin PANA, Nicolae NEGURESCU, Gheorghe LAZAROIU, Cristian NUTU, Dinu FUIORESCU, Marius TOMA, Adrian NICOLICI, „*Combustion of preheated raw animal fats-diesel fuel blends at diesel engine*”, Journal of Thermal Analysis and Calorimetry (2019 Impact Factor: 2.471), pp:1-7, Publisher Springer International Publishing, Received 12 August 2019, Accepted 25 October 2019, First Online 06 November 2019, DOI <https://doi.org/10.1007/s10973-019-08972-5>, Publisher Name Springer International Publishing, Print ISSN 1388-6150, Online ISSN 1588-2926, first on line 6 november 2019: <https://link.springer.com/article/10.1007/s10973-019-08972-5>, Web Of Science Accession Number **WOS 000494796900004**, categoria Q2-ISI galben, **PRINT EDITION: Cernat, A.**, Pana, C., Negurescu, N. *et al.* Combustion of preheated raw animal fats-diesel fuel blends at diesel engine. *Journal of Thermal Analysis and Calorimetry* **140**, pp. 2369–2375 (2020). <https://doi.org/10.1007/s10973-019-08972-5>, WOS:000494796900004, Impact factor of JTAC in 2021: 2.471, indexat si in SCOPUS <https://www.scopus.com/authid/detail.uri?authorId=25229963900>, Număr de citări: 6 în ISI WOS, 1 în BDI

**Ris.4. Alexandru CERNAT**, Constantin PANA, Nicolae NEGURESCU, Dinu FUIORESCU, Cristian NUTU, Ionel MIRICA, *Experimental Aspects of Hydrogen Use at Diesel Engine by Diesel Gas Method*, Thermal Science 2018, Volume 22, Issue 3, Printed Pages: 1191-1200, ISSN 0354-9836 (printed-edition), <https://doi.org/10.2298/TSCII70314138C>, indexat in bazele de date ISI, Web of Science, Thomson Reuters, FI: 1,541 (2018), 1.222 (2014), 0.939 (2015), 1.093 (2016), 1.541 (2018), **WOS 000437813000019**, Indexat si in BDI: CNKI Scholar: <http://scholar.cnki.net/webpress/brief.aspx?dbcode=SJTU>, [http://eng.scholar.cnki.net/result.aspx?q=SOURCE%3a\(Thermal+Science\)&t=Journal](http://eng.scholar.cnki.net/result.aspx?q=SOURCE%3a(Thermal+Science)&t=Journal), SCOPUS Databases <http://www.info.scopus.com/> or <http://www.scopus.com> or <http://www.scopus.com/scopus/source/sourceInfo.url?sourceId=6300153104>, EBSCO Database <https://journals.ebsco.com/>, the European Library <http://search.theeuropeanlibrary.org/portal/en/index.html>, [http://search.theeuropeanlibrary.org/portal/en/search/themes/journals/publisher/NBS/\('thermal science'\).query](http://search.theeuropeanlibrary.org/portal/en/search/themes/journals/publisher/NBS/('thermal science').query) si KoBSON (Serbian Consortium of Libraries), This Paper Appears First On-Line System: **Alexandru CERNAT**, Constantin PANA, Nicolae NEGURESCU, Dinu FUIORESCU, Cristian NUTU, Ionel MIRICA, *Experimental Aspects of Hydrogen Use at Diesel Engine by Diesel Gas Method*, ID ThSci2017.077, Thermal Science 2017 OnLine-First Issue 00, Pages: 138-138 <https://doi.org/10.2298/TSCII70314138C> PAPER SUBMITTED: 2017-03-14, PAPER REVISED: 2017-05-10, PAPER ACCEPTED: 2017-05-18, PUBLISHED ONLINE: 2017-06-04, DOI REFERENCE: <https://doi.org/10.2298/TSCII70314138C>, ISSN 2334-7163 (online edition), Număr de citări: 0 în ISI WOS, 0 în BDI

**Ris.5. Cernat A**, Pana C, Negurescu N, Nutu C, Mirica I, *EXPERIMENTAL INVESTIGATIONS OF THE HYDROGEN USE AT THE AUTOMOTIVE DIESEL ENGINE*, Romanian Journal of Automotive Engineering, volume no. 22, issue 4, December 2016, pp.153-160, Publisher SOC AUTOMOTIVE ENGINEERS ROMANIA, BUCURESTI, ROMANIA, ISSN 2457-5275 (for Online, English), ISSN: 1842-4074 (for Print, Online, Romanian language\_Ingineria Automobilului), ISI Accession Number: **WOS:000409239100008**

**Ris.6. Cernat Alexandru**, Pana Constantin, Negurescu Niculae, Nutu Cristian, *On Combustion of Diesel Fuel Drops at LPG Fuelling by Diesel-Gas Method*, *Procedia Technology*, Volume 22, 2016, Pages 705-712, ISSN 2212-0173, Editor: ELSEVIER, [doi:10.1016/j.protcy.2016.01.146](https://doi.org/10.1016/j.protcy.2016.01.146)., 9th International Conference Interdisciplinarity in Engineering, INTER-ENG 2015, 8-9 October 2015, Tirgu Mures, Romania, ISI, Web of Science, Thomson Reuters, WOS cu Accession Number: **WOS 000383949300098**., Număr de citări: 1 în ISI WOS, 0 în BDI

**Ris.7. Cernat Alexandru**, Pana Constantin, Negurescu Niculae, Nutu Cristian, *The Influence of LPG Fuelling on Diesel Engine Cycle Variability*, *Procedia Technology*, Volume 22, 2016, Pages 746-753, ISSN 2212-0173, Editor: ELSEVIER, [doi:10.1016/j.protcy.2016.01.034](https://doi.org/10.1016/j.protcy.2016.01.034). 9th International Conference Interdisciplinarity in Engineering, INTER-ENG 2015, 8-9 October 2015, Tirgu Mures, Romania, ISI, Web of Science, Thomson Reuters, **WOS 0003839499300104**, Număr de citări: 1 în ISI WOS, 0 în BDI

**Ris. 8. Cernat Alexandru**, Pana Constantin, Negurescu Niculae, Nutu Cristian, *On Vaporization of a Single Droplet of Diesel Fuel at LPG Fuelled Engine by Diesel Gas Method*, *Energy Procedia*, Vol. 74, 2015, pp. 1306-1313, Editor: ELSEVIER, ISSN 1876-6102, DOI: [10.1016/j.egypro.2015.07.777](https://doi.org/10.1016/j.egypro.2015.07.777), cotata ISI, Web of Science, Thomson Reuters, IF: 1.07, indexat in baza Web Of Science: **WOS:000360574400142**, Număr de citări: 1 în ISI WOS, 0 în BDI.

**Ris. 9.** Nutu Cristian, Pana Constantin, Negurescu Niculae, **Cernat Alexandru**, Mirica Ionel, *IMPROVING DIESEL ENGINE OPERATION FOR A GREENER ENVIRONMENT USING HYDROGEN FUELLING*, Romanian Journal of Automotive Engineering, volume 26, no. 4, pp: 113-120, December 2020, Publisher SOC AUTOMOTIVE ENGINEERS ROMANIA, BUCURESTI, ROMANIA, ISSN 2457-5275 (for Online, English), ISSN: 1842-4074 (for Print, Online, Romanian language\_Ingineria Automobilului), also in *Ingineria Automobilului* nr. 57/decembrie 2020, pp.16-19, ISSN 1842-4074, cu titlu și rezumat în limba română („Îmbunătățirea funcționării motorului diesel pentru un mediu înconjurător mai curat folosind alimentarea cu hidrogen”), Available on: <http://siar.ro/wp-content/uploads/2021/01/rIA57.pdf>, **WOS:000609161100004**

**Ris. 10.** Adrian Nicolici, Constantin Pană, Niculae Negurescu, **Alexandru Cernat\*** and Cristian Nuțu, *Some aspects of cycle variability at the Diesel engine fuelled with animal fats*, *E3S Web of Conferences* **112**, 01014 (2019), volume 112, article number 01014, pp.1-8. DOI <https://doi.org/10.1051/e3sconf/201911201014>, 8<sup>th</sup> International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD 2019), eISSN: 2267-1242 of E3S Web of Conferences, **WOS:000619989000014**, indexat și în SCOPUS <https://www.scopus.com/authid/detail.uri?authorId=25229963900>

**Ris.11.** Nikolaos Cristian Nutu, Constantin Pana, Nicolae Negurescu, **Alexandru Cernat**, Dinu Fuiiorescu, Ionel Mirica, *A research on fuelling a truck diesel engine with hydrogen*, E3S Web of Conferences 112, Article No. 01011 (2019), pp.1-9, DOI: 10.1051/e3sconf/201911201011, <https://doi.org/10.1051/e3sconf/201911201011>, 8<sup>th</sup> International Conference on Thermal Equipment, Renewable Energy and Rural Development (TE-RE-RD 2019), eISSN: 2267-1242 of E3S Web of Conferences, **WOS 000619989000011**

**Ris.12.** Gheorghe Lazaroiu, Lucian Mihaescu, Gabriel Negreanu, Constantin Pana, Ionel Pisa, **Alexandru Cernat**, Dana-Alexandra Ciupageanu, *Experimental Investigations of Innovative Biomass Energy Harnessing Solutions*, Revista Energies 2018, volume 11, issue 12, 3469; <https://doi.org/10.3390/en11123469> (registering DOI), pp: 1-18, Received: 10 November 2018 / Revised: 4 December 2018 / Accepted: 9 December 2018 / Published: 11 December 2018, (This article belongs to the Section Sustainable Energy), Editor: Energies EISSN 1996-1073 Published by MDPI AG, Basel, Switzerland, categoria Q2, indexat ISI, Thomson Reuters, Web Of Science cu factor de impact FI: 2.676 (2018), 5-Year Impact Factor: 3.045 (2017), **WOS 000455358300230**, indexat si in bazele de date: AGORA (FAO), AGRIS - Agricultural Sciences and Technology (FAO), CAB Abstracts (CABI), Chemical Abstracts (ACS), Current Contents - Engineering, Computing & Technology (Clarivate Analytics), DOAJ - Directory of Open Access Journals, EconPapers (RePEc), Ei Compendex / Engineering Village (Elsevier), ETDE - Energy Technology Data Exchange (IEA), Genamics JournalSeek, HINARI (WHO), IDEAS (RePEc), Inspec (IET), Journal Citation Reports / Science Edition (Clarivate Analytics), Julkaisuforum Publication Forum (Federation of Finnish Learned Societies), LAPSE - Living Archive for Process Systems Engineering, Norwegian Register for Scientific Journals, Series and Publishers (NSD), RePEc, Science Citation Index Expanded - Web of Science (Clarivate Analytics), Scopus (Elsevier), Web of Science (Clarivate Analytics), CLOCKSS (Digital Archive), e-Helvetica (Swiss National Library Digital Archive), Academic OneFile (Gale/Cengage Learning), EBSCOhost (EBSCO Publishing), Energy & Power Source (EBSCO), Engineering Source (EBSCO), J-Gate (Informatics India), Materials Science & Engineering (ProQuest), ProQuest Central (ProQuest), Science In Context (Gale/Cengage Learning), WorldCat (OCLC)

**Ris.13.** Liviu Nemoianu, Constantin Pana, Nicolae Negurescu, **Alexandru Cernat**, Dinu Fuiiorescu, Cristian Nutu, *On LPG use at diesel engine: pollutant emissions level and cycle variability aspects*, IOP Conference Series Materials Science and Engineering proceedings Journal, volume 444, Automotives. Engine and Transmission. Road Safety, number:072002, DOI: 10.1088/1757-899X/444/7/072002, pp: 2-8, November 2018, ISSN 1757-8981 with abstracting and indexing in ISI Web of Science (Conference Proceedings Citation Index), Scopus, EI Compendex, **WOS 000467443600109**.

**Ris.14.** Cristian Nutu, Constantin Pana, Nicolae Negurescu, **Alexandru Cernat**, Dinu Fuiiorescu, Liviu Nemoianu, *An experimental approach of fuelling a passenger car diesel engine with LPG*, in IOP Conference Series: Materials Science and Engineering Journal, volume 444, Automotives. Engine and Transmission. Road Safety, (issue 7): number 072001, DOI: 10.1088/1757-899X/444/7/072001, pp: 2-9, November 2018, ISSN 1757-8981 - with abstracting and indexing in



ISI Web of Science (Conference Proceedings Citation Index), Scopus, EI Compindex, **WOS 000467443600108**.

**Ris.15.** Adrian Nicolici, Constantin Pana, Niculae Negurescu, **Alexandru Cernat**, Cristian Nutu, *The use of animal fats in the diesel fuelled engine*, IOP Conference Series: Materials Science and Engineering Journal, Volume 444, Automotives. Engine and Transmission. Road Safety, number 072003, doi:10.1088/1757-899X/444/7/072003, pp: 2-8, November 2018, ISSN 1757-8981 - with abstracting and indexing in ISI Web of Science (Conference Proceedings Citation Index), Scopus, EI Compindex, **WOS 000467443600110**.

**Ris.16.** Liviu Nemoianu, Constantin Pana, Niculae Negurescu, **Alexandru Cernat**, Dinu Fuioreescu, Cristian Nutu, *Study of the cycle variability at an automotive diesel engine fuelled with LPG*, MATEC Web of Conferences 112, 10006 (2017), 6 pages, DOI: <https://doi.org/10.1051/mateconf/201711210006> , published online 03 July 2017, Innovative Manufacturing Engineering & Energy International Conference – IManE&E 2017., **WOS:000579349600183**

**Ris.17.** Cristian Nutu, Constantin Pana, Niculae Negurescu, **Alexandru Cernat**, Ionel Mirica, *Experimental investigations of LPG use at the automotive diesel engine*, MATEC Web of Conferences 112, 10003 (2017), 6 pages, DOI: <https://doi.org/10.1051/mateconf/201711210003>, Innovative Manufacturing Engineering & Energy International Conference – IManE&E 2017, **WOS:000579349600180**.

**Ris. 18.** Nutu C, Pana C, Negurescu N, **Cernat A**, Mirica I, *LPG as a fuel for diesel engines – experimental investigations*, IOP Conference Series Materials Science and Engineering, volume 252, 2017, article number UNSP 012079 – ISI Proceedings of CAR 2017, DOI: 10.1088/1757-899X/252/1/012079, IOP Publishing LTD, England, ISSN 1757-8981, **WOS 000419817200079**

**Ris.19.** Gheorghe Lazaroiu, Constantin Pană, Lucian Mihaescu, **Alexandru Cernat**, Niculae Negurescu, Raluca Mocanu, Gabriel Negreanu, *Solutions for energy recovery of animal waste from leather industry*, Energy Conversion and Management, Volume 149, 2017, pp: 1085-1095, ISSN: 0196-8904, eISSN: 1879-2227, Elsevier, Available online 28 June 2017, <https://doi.org/10.1016/j.enconman.2017.06.042>, indexat ISI, WOS, Thomson Reuters, IF: 5.63 (2016), 5-Year Impact Factor: 5.472, categoria Q1, **WOS 000411537200088**, [http://cel.webofknowledge.com/InboundService.do?app=wos&product=CEL&Func=Frame&SrcApp=Publons&SrcAuth=Publons\\_CEL&locale=en-US&SID=E1jKIeVezUUMoTkidEu&customersID=Publons\\_CEL&smartRedirect=yes&mode=FullRecord&IsProductCode=Yes&Init=Yes&action=retrieve&UT=WOS%3A000411537200088](http://cel.webofknowledge.com/InboundService.do?app=wos&product=CEL&Func=Frame&SrcApp=Publons&SrcAuth=Publons_CEL&locale=en-US&SID=E1jKIeVezUUMoTkidEu&customersID=Publons_CEL&smartRedirect=yes&mode=FullRecord&IsProductCode=Yes&Init=Yes&action=retrieve&UT=WOS%3A000411537200088)

**Ris. 20.** Constantin Pana, Niculae Negurescu, **Alexandru Cernat**, Cristian Nutu, Ionel Mirica, Dinu Fuioreescu, “*Experimental Aspects of the Hydrogen Use at Diesel Engine*”, Procedia Engineering, Volume 181, 2017, Pages 649–657, <https://doi.org/10.1016/j.proeng.2017.02.446>, Elsevier, ISSN 1877-7058, ISI, Web of Science, Thomson Reuters, IF: 0.73 (2016), **WOS 000404612700091**

**Ris. 21.** I Mirica, C Pana, N Negurescu, **A Cernat**, C Nutu, *Experimental investigations of the hydrogen addition effects on diesel engine performance*, Publication date 2016/8, JournalIOP

Conference Series: Materials Science and Engineering Volume147, Issue1, Pages 012-121, Publisher IOP Publishing, 7th International Conference on Advanced Concepts in Mechanical Engineering IOP Publishing IOP Conf. Series: Materials Science and Engineering 147 (2016) 012121 doi:10.1088/1757-899X/147/1/012121, ISSN 1757-8981, IF: 0.32, Accession Number **WOS:000390720200121**.

**Ris.22.** Nikolaos Cristian NUȚU, Constantin PANĂ, Niculae NEGURESCU, Alexandru CERNAT, Ionel MIRICĂ, *EXPERIMENTAL INVESTIGATIONS ASPECTS OF THE FUELLING A TRUCK DIESEL ENGINE WITH LPG*, Romanian Journal of Automotive Engineering, volume no. 22, issue 3, 4th Series, pp. 105-110, September 2016, Publisher SOC AUTOMOTIVE ENGINEERS ROMANIA, BUCURESTI, ROMANIA, ISSN 2457-5275 (for Online, English), ISSN: 1842-4074 (for Print, Online, Romanian language\_Ingineria Automobilului), Accession Number: **WOS:000409238800004**, ISSN: 1842-4074

**Ris. 23.** I Mirica, C Pana, N Negurescu, Al Cernat, NC Nutu, *Dual fuel diesel engine operation using LPG*, Journal IOP Conference Series: Materials Science and Engineering, Volume 147, Number 1, 2016/8, 7th International Conference on Advanced Concepts in Mechanical Engineering IOP Publishing IOP Conf. Series: Materials Science and Engineering 147 (2016) 012122, doi:10.1088/1757-899X/147/1/012122, Factor de Impact: 0.32, indexat in baza Web Of Science cu numarul de acces **WOS:000390720200122**, ISSN 1757-8981

**Ris.24.** Obeid Zuhair, Cernat Alexandru, Pana Constantin, Negurescu Niculae, Nutu Cristian, *Influence of E20 Fuelling on Combustion Cycle Variability at Turbocharged Spark Ignition Engine*, Procedia Technology, Volume 22, 2016, Pages 762-766, ISSN 2212-0173, Editor: ELSEVIER, doi:10.1016/j.protcy.2016.01.036., 9th International Conference Interdisciplinarity in Engineering, INTER-ENG 2015, 8-9 October 2015, Tirgu Mures, Romania, ISI, Web of Science, Thomson Reuters, **WOS 0003839493000106**.

**Ris. 25.** Zuhair Obeid, Alexandru Cernat, Constantin Pana, Niculae Negurescu, *Aspects of the Bioethanol Use at the Turbocharged SI Engine*, Thermal Science, 2015, Volumul 19, Numarul 6, pp. 1959-1966, DOI: 10.2298/TSCI1502121790, ISSN 0354-9836, cotata ISI, Web of Science, Thomson Reuters, IF: 1.222, indexat in baza Web Of Science **WOS:000367565400009**.

**Ris.26.** Constantin Pana, Niculae Negurescu, Marcel Ginu Popa, Alexandru Cernat, “*Ecologic Automotive Diesel Engine Achieved by LPG Fueling*”, Journal of Environmental Protection and Ecology, Vol. 13, No. 2, 2012, 6 pages, pp. 88–699, ISSN 1311-5065, Impact Factor (2009) = 0,169, Impact Factor (2010) = 0,178, Impact Factor (2011) = 0,102, Impact Factor (2012) = 0, 259, The Journal of Environmental Protection and Ecology (JEPE), **WOS: 000306252600031**, abstracting and indexing in: a) Thomson Reuters; Science Citation Index Expanded, Web of Science, **Science Citation Index (SCI): Impact Factor (2019) = 0.692**, 5-Year Impact Factor (2019) = 0.657, b) Elsevier BV; GEOBASE, Scopus, from 2008 - up today 2021, c) CABI, d) Ulrich database, e) Chemical Abstracts, f) Referativnii Jurnal ‘Khimiya’ and g) Scimago Journal & Country Rank (SJR): SJR (2019) = 0.263, H Index (2019) = 19, h) Google Scholar: h5-index (2019) = 12, h5-median (2019) = 16, *JEPE is*

*Abstracting & Indexing and in the following Databases:* CABI: Abstracts on Hygiene and Communicable Diseases (Online), AgBiotechNet, Agricultural Economics Database, Agricultural Engineering Abstracts (Online), Agroforestry Abstracts (Online), Animal Breeding Abstracts (Online), Animal Production Database, Animal Science Database, Biocontrol News and Information (Online), Biofuels Abstracts, Botanical Pesticides Abstracts, CAB Abstracts (Commonwealth Agricultural Bureaux), Crop Physiology Abstracts (Online), Crop Science Database, Dairy Science Abstracts (Online), Environmental Impact, Field Crop Abstracts (Online), Forest Products Abstracts (Online), Forest Science Database, Forestry Abstracts (Online), Global Health, Grasslands and Forage Abstract (Online), Helminthological Abstracts (Online), Horticultural Science Database, InfoTree, Irrigation and Drainage Abstract (Online), Leisure Tourism Database, Maize Abstracts (Online), Nutrition Abstracts and Reviews. Series A: Human and Experimental (Online), Nutrition Abstracts and Reviews. Series B: Livestock Feeds and Feeding (Online), Nutrition and Food Sciences Database, Ornamental Horticulture (Online), Parasitology Database, Pig News and Information (Online), Plant Breeding Abstracts (Online), Plant Genetic Resources Abstracts (Online), Plant Genetics and Breeding Database, Plant Growth Regulator Abstracts (Online), Plant Protection Database, Postharvest Abstracts, Potato Abstracts (Online), Poultry Abstracts (Online), Protozoological Abstracts (Online), Review of Agricultural Entomology (Online), Review of Aromatic and Medicinal Plants (Online), Review of Medical and Veterinary Entomology (Online), Review of Medical and Veterinary Mycology (Online), Review of Plant Pathology (Online), Rice Abstracts (Online), Rural Development Abstracts (Online), Seed Abstracts (Online), Soil Science Database, Soils and Fertilizers (Online), Soybean Abstracts (Online), Sugar Industry Abstracts (Online), TropAg & Rural, Tropical Diseases Bulletin (Online), Veterinary Science Database, VetMed Resource, Weed Abstracts (Online), Wheat, Barley and Triticale Abstracts (Online), World Agricultural Economics and Rural Sociology Abstracts (Online), Elsevier BV: GEOBASE, Scopus, 2008 – today 2021, Thomson Reuters: Science Citation Index Expanded, **Web of Science**, according to journal JEPE page At <http://www.jepe-journal.info/abstracting---indexing>

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**Rno - Articole/studii publicate în alte reviste de specialitate de circulație națională (Rno)**  
Nu e cazul

**Vis- Articole / studii publicate în volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate în bazele de date internaționale – BDI specifice domeniului, care fac un proces de selecție a publicațiilor pe baza unor criterii de performanță:**

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**Vis. 4.** Liviu Nemoianu, **Alexandru Cernat**, Constantin Pana, Nicolae Negurescu and Cristian Nutu, *Study of the Diesel Engine Cycle Variability at LPG Fuelling*, CONAT 2016, The International Congress of Automotive and Transport Engineering, CONAT 2016, 26-28 October 2016, Brasov, Romania, Proceedings of CONAT 2016 International Congress of Automotive and Transport Engineering, Volume 2, ISBN 978-3-319-45446-7, ISBN (eBook) 978-3-31945447-4, DOI 10.1007/978-3-319-45447-4, 898 pagini, pp. 371-378, SPRINGER, Switzerland, indexat in: ISI Conference Proceedings Citation Index - Science (CPCI-S), included in ISI, Web of Science cu numarul **WOS:000390821400041**, EI Engineering Index (Compendex and Inspec databases), ACM Digital Library, DBLP, Google Scholar, IO-Port, MathSciNet, Scopus, Zentralblatt MATH.

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**Vis.6.** S Rotaru, C Pana, N Negurescu, **Al Cernat**, D Fuiiorescu, Cr N Nutu, *Experimental investigations of an automotive diesel engine fuelled with natural gas in dual fuel mode*, **IOP Conference Series: Materials Science and Engineering**, 2020, 997(1), 012130, ACME code 6-22, Session ACME-06-01: Automotives. Engine and Transmission. Road Safety, papers at Paper/at/<http://www.mec.legacy.tuiasi.ro/acme2020/files/Conference%20Program%20Outline.pdf>, Indexing: The papers presented at the 6th edition (ACME2014) are indexed in Scopus and the last editions (ACME2016 and ACME2018) were indexed in both Web of Science (ISI Thomson) and Scopus. The ACME2020 Conference Proceedings will be published by IOP Conference Series: Materials Science and Engineering, an open-access proceedings journal, with abstracting and indexing in ISI Web of Science (Conference Proceedings Citation Index), Scopus, EI Compendex, among others (as a proceedings journal, an Impact Factor is not assigned), from <http://www.mec.legacy.tuiasi.ro/acme2020/files/ACME2020FirstCall.pdf>, indexat si in SCOPUS <https://www.scopus.com/authid/detail.uri?authorId=25229963900>

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**Vi – Articole / studii publicate în volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate:**

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**Vi.2.** Nicolici, C Pana, N Negurescu, **A Cernat**, G Lazaroiu, L Mihaescu and C Nutu, „*Researches regarding the animal fats use at a truck diesel engine*”, The XXXI-st SIAR International Congress of Automotive and Transport Engineering "Automotive and Integrated Transport Systems" (AITS 2021), 28th-30th October 2021, Chisinau, Republic of Moldova, proceedings IOP Conference Series: Materials Science and Engineering, Volume 1220, paper ID 012001, pp: 1-8, doi:10.1088/1757-899X/1220/1/012001, Published under licence by IOP Publishing Ltd, The XXXI-st SIAR International Congress of Automotive and Transport Engineering "Automotive and Integrated Transport Systems" (AITS 2021), 28th-30th October 2021, Chisinau, Republic of Moldova, Citation A Nicolici *et al* 2022 IOP Conf. Ser.: Mater. Sci. Eng. 1220 012001, IOP Conference Series: Materials Science and Engineering, volume 1220, The XXXI-st SIAR International Congress of Automotive and Transport Engineering "Automotive and Integrated Transport Systems" (AITS 2021), 28<sup>th</sup>-30<sup>th</sup> October 2021, Chisinau, Republic of Moldova, Accepted papers received: 04 January 2022 Published online: 28 January 2022

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**Vi.7. Al. Cernat**, C. Pana, Gh. Lazaroiu, N. Negurescu, C. Nutu, A. Nicolici, „*The use of raw animal-fats-butanol-diesel fuel blends at diesel engine*”, The 7th International Conference of Thermal Equipment, Renewable Energy and Rural Development TE-RE-RD 2018, Drobeta Turnu Severin, Romania, 31 may-2 june 2018, with proceedings ISSN 2457-3302, ISSN-L 2457-3302, Editura POLITEHNICA PRESS, TE-RE-RD 2018, pp.101-104, ISSN 2359-7941, ISSN-L 2359-7941, Editura POLITEHNICA PRESS, <http://www.tererd.pub.ro/wp-content/uploads/2015/01/Proceedings-TE-RE-RD-2018-CD-ROM.pdf>

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**Vi.11.** Gheorghe Lazaroiu, Constantin PANA, Lucian Mihaescu, **Alexandru Cernat**, Niculae Negurescu, Gabriel Negreanu, *Energetic reevaluate aspects of the animal wastes from leather industry*, the 2 nd South East European Conference on Sustainable Development of Energy, Water and Enviromennt Systems, SEE SDEWES-June 15-18, Piran 2016, Slovenia, <http://www.piran2016.sdewes.org/schedule.php>

**Vi.12.** **Alexandru Cernat**, Gheorghe Lazaroiu, Constantin Pana, Niculae Negurescu, Ionel Mirica, *Experimental Investigations of the Automotive Diesel Engine Fuelled with Hydrogen*, Proceedings of the 2 nd South East European Conference on Sustainable Development of Energy, Water and Enviromennt Systems, SEE SDEWES-June 15-18, Piran 2016, Slovenia, <http://www.piran2016.sdewes.org/>, SDEWES.SEE2016-0128 Experimental Investigations of the Automotive Diesel Engine Fuelled with Hydrogen (*poster*) <http://www.sdewes.fsb.hr/piran2016/programme.php>, and <http://www.piran2016.sdewes.org/schedule.php>

**Vi.13.** Nicolici Adrian, Gheorghe Lazaroiu, Constantin Pana, Niculae Negurescu, **Alexandru Cernat**, Cristian Nutu, Raluca Mocanu, *ON ANIMAL FAT USE AT DIESEL ENGINE*, volumul conferinței TE RE RD 2016-12-26, 5th International Conference of Thermal Equipment, Renewable Energy and Rural Development, TE-RE-RD 2016, Golden Sands, Bulgaria, 2-4 iunie 2016, 507 pagini, pp. 483-488, Editura POLITEHNICA PRESSISSN ISSN 2359-7941, ISSN-L 2359-7941

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**Vi.15.** Alexandru Dobre, Constantin Pană, Nikolaos Cristian Nuțu, Niculae Negurescu, **Alexandru Cernat**, *The Influence of Butanol Use on the Diesel Engine's Performance*, Publication date 2016, Applied Mechanics and Materials, Chapter Engines and Fuels, Volume822, Pages183-189, PublisherTrans Tech Publications, Pages 183-189, DOI 10.4028/www.scientific.net/AMM.822.183 , online January 2016, International Congress Science and Management of Automotive and



Transportation Engineering SMAT 2014, Proceedings, 23-25 October 2014, Craiova,Romania, ISBN 978-606-14-0864-1, The most representative papers (around 50 papers) will be offered for reviewing and publishing by Trans Tech Publications in an ISI volume of "Applied Mechanics and Materials", <http://mecanica.ucv.ro/ViataAcademica/Conferinte/smat2014/Pages/papers.html>

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**Vi.16.** Obeid Zuhair H Obeid, Constantin Pana, Nicolae Negurescu, **Alexandru Cernat**, Iulius Bondoc, *Theoretical and Experimental Researches Regard the Use of Bioethanol at the Supercharged Spark Ignition Engine*, Publication date 2016 Conference, Applied Mechanics and Materials, Volume 822, Pages190-197, Publisher Trans Tech Publications, Theme Automotive and Transportation Engineering Chapter : Engines and Fuels , Pages 190-197 , DOI 10.4028/www.scientific.net/AMM.822.190, online January 2016, International Congress Science and Management of Automotive and Transportation Engineering SMAT 2014, Proceedings, 23-25 October 2014, Craiova,Romania, ISBN 978-606-14-0864-1, The most representative papers (around 50 papers) will be offered for reviewing and publishing by Trans Tech Publications in an ISI volume of "Applied Mechanics and Materials", <http://mecanica.ucv.ro/ViataAcademica/Conferinte/smat2014/Pages/papers.html>

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#### **Vn – Articole / studii publicate în volumele unor manifestări științifice naționale (Vn)**

**Vn.1.** Constantin PANA, Niculae NEGURESCU, Marcel Ginu POPA, **Alexandru CERNAT**, Dorin SOARE, *Sistem dual de alimentare cu combustibili alternativi pentru ecologizarea motoarelor diesel de automobil*, Vol. Programul de cercetare de excelenta 2005-2008, UPC AMTRANS, ISBN 978-973-0-06020-1, 4 pag. , nov.2008



**Vn.2.** Pană C., Negurescu N., Popa M.G., Racovitza Al., **Cernat, Al.**, Boboc, G., “*Modern concepts of using alternative fuels in diesel engines*” – vol. A III-a Conferinta nationala de echipament termomecanic clasic si nuclear si energetica urbana, ISBN 973-7982-07-2, Bucuresti, 2004, pp. 129-132, 4 pag.

## V. BREVETE DE INVENȚIE / INOVAȚII (B, A)

**B** – Brevete de invenție

Nu e cazul

**A** – Inovații și alte creații

Nu e cazul

## VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P, F)

**P** - Proiecte de cercetare-dezvoltare- inovare obținute prin competiție, pe bază de contract/grant, în țară / străinătate (Pn-naționale, Pi-internaționale):

### Pn - naționale:

**Pn.1.** Membru în echipa de lucru în proiectul de cercetare:, P1-Dezvoltarea sistemului national de CD, Proiecte complexe realizate in consortii CDI(PCCDI)- PN-III-P1-1.2-PCCDI-2017-0404, nr. 31PCDDI/2018, UEFISCDI, durata 2018-2022, Proiect nr.1: „ Influenta cresterii ponderii surselor regenerative de energie asupra evolutiei mediului si climei” parte a grantului „HOLISTICA IMPACTULUI SURSELOR REGENERABILE DE ENERGIE ASUPRA MEDIULUI ȘI CLIMEI”, P1-Dezvoltarea sistemului national de CD, proiecte complexe realizate in consortii CDI (PCCDI)- PN-III-P1-1.2-PCCDI-2017-0404 / 31PCDDI/2018, perioada 2017-2018, - membru in echipa de lucru, responsabil contract UPB prof. dr. ing. Lăzăroiu Gheorghe

**Pn.2.** Membru în echipa de lucru în proiectul de cercetare: P1-Dezvoltarea sistemului national de CD, Proiecte complexe realizate in consortii CDI(PCCDI)- PN-III-P1-1.2-PCCDI-2017-0404, nr. 31PCDDI/2018, UEFISCDI, durata 2018-2021, Proiect nr. 3 „Dinamica raportului dintre energia termica si electrica produsa din biomasa”, contract finantare pentru executie proiecte complexe” CDI nr. 31PCDDI/2018, proiect nr. PN-III-P1-1.2-PCCDI-2017-0404/31PCDDI/2018, parte a grant „HOLISTICA IMPACTULUI SURSELOR REGENERABILE DE ENERGIE ASUPRA MEDIULUI ȘI CLIMEI” P1-Dezvoltarea sistemului national de CD, proiecte complexe realizate in consortii CDI (PCCDI)- PN-III-P1-1.2-PCCDI-2017-0404 / 31PCDDI/2018, perioada 2018-2021, responsabil contract UPB prof. dr. ing. Lăzăroiu Gheorghe

**Pn.3.** Membru în echipa de lucru în proiectul de cercetare:, P1-Dezvoltarea sistemului national de CD, Proiecte complexe realizate in consortii CDI(PCCDI)- PN-III-P1-1.2-PCCDI-2017-0404, nr. 31PCDDI/2018, UEFISCDI, durata 2018-2022, Proiect nr. 4 „Solutii de stocare pe termen lung pentru o energie sustenabila din punct de vedere ecologic”, contract finantare pentru executie proiecte complexe CDI nr. 31PCDDI/2018, proiect nr. PN-III-P1-1.2-PCCDI-2017-0404/31PCDDI/2018, parte a grant „HOLISTICA IMPACTULUI SURSELOR REGENERABILE

DE ENERGIE ASUPRA MEDIULUI ȘI CLIMEI' P1-Dezvoltarea sistemului national de CD, proiecte complexe realizate in consortii CDI (PCCDI)- PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, perioada 2018-2021, responsabil contract UPB prof. dr. ing. Lăzăroiu Gheorghe

**Pn.4.** Membru în echipa de lucru în proiectul de cercetare: P1-Dezvoltarea sistemului national de CD, Proiecte complexe realizate în consortii CDI(PCCDI)- PN-III-P1-1.2-PCCDI-2017-0404, numar 31PCDDI/2018, UEFISCDI, durata 2019-2021, Proiect nr. 5 „*Transformari ale sistemului energetic prin maximizarea productiei de energie din surse regenerabile-verificarea pe baza unei instalatii pilot*”, contract finantare pentru executie proiecte complexe CDI nr. 31PCDDI/2018, proiect nr. PN-III-P1-1.2-PCCDI-2017-0404/31PCCDI/2018, parte a grant „HOLISTICA IMPACTULUI SURSELOR REGENERABILE DE ENERGIE ASUPRA MEDIULUI ȘI CLIMEI'” P1-Dezvoltarea sistemului national de CD, proiecte complexe realizate în consortii CDI (PCCDI)- PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, perioada 2017-2018, responsabil contract UPB prof. dr. ing. Lăzăroiu Gheorghe

**Pn.5.** Director de proiect în proiectul de cercetare: Grant intern de cercetare „*Cercetari experimentale privind utilizarea hidrogenului la motorul diesel*”, Contract nr. 38/26.09.2016, nr. înregistrare: 16945/21.09.2016, perioada 2016-2017, finantare: 22000 lei (4856 euro) din venituri proprii ale Universității Politehnica din București – director de proiect sl.dr.ing. Cernat Alexandru

**Pn.6.** Membru în echipa de lucru în proiectul de cercetare: Grant Intern de Cercetare „*Cercetari experimentale privind alimentarea motoarelor cu aprindere prin comprimare de automobil cu GPL*”, Contract nr. 62/2017, perioada 2017-2018, finantare: venituri proprii ale Universității Politehnica din București – director de proiect sl.dr.ing.Nuțu Cristian

**Pn.7.** Membru în echipa de lucru în proiectul de cercetare: Grant Intern de Cercetare „*Cercetari asupra filtrelor de aer*”, contract nr. TR 27-17-06 /2017, perioada 2017-2018, finantare: venituri proprii ale Universității Politehnica din București – director de proiect sl.dr.ing.Toma Marius

**Pn.8.** Membru în echipa de lucru în proiectul de cercetare: PN-PT-PCCA-2013-4-1017, Competitie 2013, „*Tăbăcărie verde - Modalitati de valorificare energetica a deseurilor biodegradabile*”, PN-PT-PCCA-2013-4-1017, Competitie 2013, Contr.73/2013EN06-12-02, perioada 2014-2018 – director de proiect sl.dr.ing. Mocanu Raluca Cătălina, responsabil contract UPB prof. dr. ing. Lăzăroiu Gheorghe

**Pn.9.** Membru în echipa de lucru în Programul Operațional Sectorial Dezvoltarea Resurselor Umane 2007-2013, POSDRU ID134398, durata 2014-2015, cu tema de cercetare:„*Imbunatatirea performantelor energetice si de poluare ale motoarelor diesel prin alimentarea cu combustibili alternativi (GPL, hidrogen, etanol)*”, coordonator temă de cercetare prof. dr. ing. Constantin Pană, responsabil nucleu cercetare postdoctorală: prof. dr. ing. Adrian Babea, program KNOWLEDGE – Dezvoltarea resurselor umane din cercetarea doctorală și postdoctorală motor al societății bazate pe cunoaștere, Sectoral Operational Programme Human Resources Development 2007-2013 of the Ministry of European Funds through the Financial Agreement POSDRU/159/1.5/S/134398, 2014-2015

**Pn.10.** Membru în echipa de lucru în proiectul de cercetare: „*Purificarea avansată a bioetanolului în vederea creșterii eficienței energetice a motoarelor cu ardere internă*”, nr. 22-115/2008, CNMP, Parteneriate în domenii prioritare, Programul P4, durata 2008-2011- responsabil contract UPB prof. dr. ing. Popa Marcel Ginu

**Pn.11.** Membru în echipa de lucru în proiectul de cercetare: „*Elaborarea unui sistem electrocatalitic membranat pentru generare, separarea și purificarea hidrogenului în diferite medii aplicabil la motoare termice*”, contract nr. 21078/2007, CNMP, Parteneriate în domenii prioritare, Programul P4, durata 2007-2010 - responsabil contract UPB prof. dr. ing. Negurescu Niculae

**Pn.12.** Membru în echipa de lucru în proiectul de cercetare: Proiect CEEEX/2006: „*Sistem dual de alimentare cu combustibili alternativi pentru ecologizarea motoarelor diesel de automobil-DGPL*”, contract nr. X2C10, proiect CEEEX/2006 cod MEC CEEEX-M1-C2-3879, durata 2006-2008 –director de proiect prof.dr.ing. Pană Constantin

**Pn.13.** Membru în echipa de lucru în proiectul de cercetare grant CNCSIS: „*Ecologizarea motorului cu aprindere prin scanteie alimentat cu etanol și benzină*”, grant CNCSIS 367, durata 2005-2007, a. Tema 47/2007, cod CNCSIS; b. Tema 59 /2006, cod CNCSIS; c. Tema 37 /2005, cod CNCSIS –director de proiect prof.dr.ing. Pană Constantin

**Pn.14.** Membru în echipa de lucru în proiectul de cercetare: “*Cercetări privind alimentarea integrală cu hidrogen a unui motor cu aprindere prin scanteie*”, grant CNCSIS, durata 2006-2008; a. Tema 44 /2007, cod CNCSIS 27; b. Tema 19 /2006, cod CNCSIS 27; c. Tema35 /2008, cod CNCSIS 27 –director de proiect prof.dr.ing. Negurescu Niculae

**Pn.15.** Membru în echipa de lucru în proiectul de cercetare CEEEX: „*Bioetanol obținut prin metode neconvenționale din surse regenerabile utilizat ca adaos în combustibili*”, contract nr. 613/2005, proiect CEEEX/2005, durata 2005-2007- responsabil contract UPB prof. dr. ing. Badea Adrian

**Pn.16.** Membru în echipa de lucru în proiectul de cercetare CEEEX: „*Cercetări privind utilizarea uleiurilor vegetale ca sursă regenerabilă de energie în vederea reducerii consumului de combustibili fosili*”, Contract nr. 183 /20.07.2006, Programul CEEEX/2006, durata 2006-2008- director de proiect prof. dr. ing. Oprea Ion

**Pn.17.** Membru în echipa de lucru în proiectul de cercetare AMTRANS: „*Motor de automobil alimentat cu benzină și adaos de hidrogen în vederea reducerii nivelului de emisii poluante*”, contract AMTRANS nr.7C17, durata 2004-2006, Programul National Cercetare Dezvoltare - director contract prof. dr. ing. Pană Constantin

**Pn.18.** Membru în echipa de lucru în proiectul de cercetare AMTRANS: „*Echipment modern de injecție de mare fiabilitate prin aplicarea tehnologiilor de acoperiri fluoropolimerice pentru utilizarea DME la motorul diesel în vederea reducerii nivelului de emisii poluante*”, contract AMTRANS nr. 7C16, durata 2004-2006, Programul National Cercetare Dezvoltare - responsabil de proiect UPB prof. dr. ing. Negurescu Niculae

**Pn.19.** Membru în echipa de lucru în proiectul de cercetare: „*Motor diesel ecologic alimentat cu combustibili alternativi lichefiati prin injectie*”, contract Relansin, nr. 24-03-01, durata 2003-2005, Programul National Cercetare Dezvoltare - responsabil contract UPB prof. dr. ing. Pană Constantin

**Pn.20.** Membru în echipa de lucru în proiectul de cercetare: „*Motor diesel ecologic alimentat cu combustibili obtinuti din uleiuri vegetale*”, contract RELANSIN, nr. 1947/2004, durata 2004-2006, Programul National Cercetare Dezvoltare

#### **Pi - internaționale:**

**Pi.1.** Membru în echipa de lucru în proiectul de dezvoltare U.P.B.-AVL List GmbH, „*Training program for engineering staff members of the companies Dacia, Renault and RTR (Renault Tech Centre Romania)*”, contract ME 18-07-03 U.P.B. – AVL GmbH Graz, instructor formator in cadrul Programului de instruire a angajaților companiilor Dacia, Renault și RTR (Renault Technologie Roumanie), parteneri Universitatea Politehnica București – AVL List GmbH Austria – Uzina Dacia Renault- Colibași, durata 2007-2008 - coordonator UPB: Direcția Managementul Activităților de Cercetare Științifică

#### **F - Alte lucrări de cercetare-dezvoltare:**

Nu e cazul

#### **VII.COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE (E)**

**E** – Lucrări prezentate la diferite seminarii / expoziții, conferințe, etc.

Nu e cazul

**sl. dr. ing. Cernat Alexandru**

**Data 6. 05. 2022**