

**LISTA PUBLICAȚIILOR REZULTATE ÎN URMA CERCETĂRII DOCTORALE,  
PUBLICATE SAU ACCEPTATE SPRE PUBLICARE, SUB AFILIERE UPT**

**Ing. Corneliu BIRTOK BĂNEASĂ student doctorand**

**1. Lucrări științifice publicate în reviste indexate Web of Science-WoS (ISI)**

**1.1. C Birtok Băneasă, A Budiul-Berghian, A Socalici, R Bucevschi, Simulation of thermal transfer through the polyamide intake manifold, Materiale plastice, IF 1,248 - (acceptată spre publicare).**

**2. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate Web of Science-WoS (ISI) Proceedings**

- ✓ **2.1. S Rațiu, C Birtok Băneasă, V Alexa, I Kiss, Functional performance testing of the universal super absorbing air filters FSU 70 "Air by Corneliu", international Conference on Applied Sciences ICAS2014, 02-04 oct, Hunedoara, Romania, IOP Conference Series: Materials Science and Engineering Volume 85, Article number 012028, 2015, *indexat ISI* (WOS:000357864400028; DOI: 10.1088/1757-899X/85/1/012028).**
- ✓ **2.2. C Birtok Băneasă, S Rațiu and T Heput, Calculation of Thermal Conductivity for New Materials Used in Intake Systems of Internal Combustion Engines, AIP Conference Proceedings ICNAAM 2016, 19-25 September, Rhodes, Greece, Mathematical Methods in Economics and Engineering, 1863, Article number 130008, 2017, *indexat ISI* (WOS:000410159800152; DOI: 10.1063/1.4992307).**
- ✓ **2.3. C Birtok Băneasă, S Rațiu, T Heput, Influence of intake air temperature on internal combustion engine operation, International Conference on Applied Sciences ICAS 2016, Hunedoara, Romania, IOP Conference Series: Materials Science and Engineering Volume 163(1), Article number 012039, 2017, *indexat ISI* (WOS:000399755300039; DOI: 10.1088/1757-899X/163/1/012039).**
- ✓ **2.4. C Birtok Băneasă, S Ratiu, V Alexa, A Josan, A Craciun, A Budiul, Reducing Emission by Using Spectral Filters for internal Combustion Engines, International Conference IIS 2016, Baia Mare, România, IOP Conference Series: Materials Science and Engineering, 200(1), Article number 012011, 2017, *indexat ISI* (WOS:000419288800011; DOI: 10.1088/1757-899X/200/1/012011).**
- ✓ **2.5. A Crăciun, C Pinca-Bretotean, C Birtok Băneasă, A Josan, Composites materials for friction and braking application, International Conference IIS 2016, Baia Mare, România, IOP Conference Series: Materials Science and Engineering, 200(1), Article number 012009, 2017, *indexat ISI* (WOS:000419288800009; DOI: 10.1088/1757-899X/200/1/012009).**
- 2.6. C Birtok Băneasă, S Rațiu, V Puțan and A Josan, Study of materials used for the thermal protection of the intake system for internal combustion engines, International Conference on Applied Sciences ICAS 2017, 10-12 mai, Hunedoara, Romania, IOP Conference Series: Materials Science and Engineering, 294 (1), Article number 012006, 2018, DOI: 10.1088/1757-899X/294/1/012006 - (în curs de indexare WoS; conferința anterioara ICAS 2016 indexată WoS)**
- 2.7. A Budiul Berghian, T Vasiu, C Birtok Băneasă, Determination of Maintainability for Dacia 1304, 1,9 D utility vehicle, International Conference on Applied Sciences ICAS 2017, 10-12 mai, Hunedoara, Romania, IOP Conference Series: Materials Science and Engineering, 294(1), Article number 012040, 2018, DOI: 10.1088/1757-899X/294/1/012040 - (în curs de indexare WoS; conferința anterioara ICAS 2016 indexată WoS)**
- 2.8. C Birtok Băneasă, S Rațiu, C Pinca-Bretotean, The dispersion of heat flow in the engine compartment. Case study: drift engines, The 10th International Symposium Machine and Industrial Design in Mechanical Engineering KOD 2018, 6-8 June 2018, Novi Sad, Serbia, IOP Conference Series: Materials Science and Engineering, vol. 393, Article number 012074, 2018, DOI: 10.1088/1757-899X/393/1/012074 - (în curs de indexare WoS; conferința anterioara KOD 2012 indexată WoS).**
- 2.9. C Pinca-Bretotean, A Josan, C Birtok Băneasă, Laboratory testing of brake pads made of organic materials intended for small and medium vehicles, The 10th International Symposium Machine and Industrial Design in Mechanical Engineering KOD 2018, 6-8 June 2018, Novi Sad, Serbia, IOP Conference Series: Materials Science and Engineering, vol. 393, Article number 012029, 2018, DOI: 10.1088/1757-899X/393/1/012029 - (în curs de indexare WoS; conferința anterioara KOD 2012 indexată WoS).**
- 2.10. C Birtok Băneasă, A Budiul Berghian, S A Rațiu, D M Stoica. "The Dispersion of the Heat Flow in the Engine Compartment. Case Study on Ford Fiesta 1.4i", International Conference on Advanced Materials and Structures AMS 2018, 28-31 martie Timișoara, Romania, IOP Conference Series: Materials Science and Engineering, 416(1), Article number 012095, 2018, DOI:10.1088/1757-899X/416/1/012095 - (în curs de indexare WoS; conferința anterioara AMS 2013 indexată WoS)**

**2.11. C Birtok Băneasă, S Rațiu, V Puțan and L Zgripcea**, Experimental studies regarding the influence of the intake manifold material on the thermodynamics processes in the internal combustion engines, International Conference on Applied Sciences ICAS2018, 9-11 May 2018, Banja Luka, Bosnia – Herzegovina, IOP Conference Series: Materials Science and Engineering, 477, Article number 012006, 2019, DOI:10.1088/1757-899X/477/1/012006 - (în curs de indexare WoS; conferința anterioară ICAS 2016 indexată WoS)

**2.12. A Budiul Berghian, T Vasiu, C Birtok Băneasă**, Determination of Reliability for Dacia Solenza 1,9D, International Conference on Applied Sciences ICAS2018, 9-11 May 2018, Banja Luka, Bosnia – Herzegovina, IOP Conference Series: Materials Science and Engineering – 477, Article number 012044, 2019, DOI:10.1088/1757-899X/477/1/012044 - (în curs de indexare WoS; conferința anterioară ICAS 2016 indexată WoS)

**2.13. L Zgripcea, O Lupu, V Putan, C Birtok Băneasă**, Researches for improving mechanical characteristics of high strength weld, International Conference on Applied Sciences ICAS2018, 9-11 May 2018, Banja Luka, Bosnia – Herzegovina, IOP Conference Series: Materials Science and Engineering 477, Article number 012008, 2019, doi:10.1088/1757-899X/477/1/012008 - (în curs de indexare WoS; conferința anterioară ICAS 2016 indexată WoS)

### **3. Lucrări științifice publicate în reviste de specialitate indexate BDI**

**3.1. C Birtok Băneasă; T Hepuț, S Ratiu**, Advanced methods to reduce thermal losses in the intake system, Annals of the Faculty of Engineering Hunedoara - International Journal of Engineering, 14(3), pp.251-254, 2016, (EBSCO)

**3.2. C Birtok Băneasă, T Hepuț**, The flow heat dispersion in the engine compartment. Case study on BMW 4.4L V8, Annals of the Faculty of Engineering Hunedoara - International Journal of Engineering, 15(3), pp.115-119, 2017, indexat Google Scholar, (PROQUEST)

**3.3. C Birtok Băneasă**, The dispersion of the heat flow in the engine compartment. Case study fiat panda 1.2i, Annals of the Faculty of Engineering Hunedoara - International Journal of Engineering, 15(4), pp.215-219, 2017, indexat Google Scholar, (EBSCO)

**3.4. A Budiul Berghian, C Birtok Băneasă, M Topor**, Mathematical shaping of the suspension system of Macpherson type, Annals of the Faculty of Engineering Hunedoara - International Journal of Engineering, 16(4), pp.107-110, 2018, (EBSCO)

**3.5. C Birtok Băneasă, A Budiul Berghian, R Bucevschi**, Evaluation of the dynamic suspension for ford puma, Annals of the Faculty of Engineering Hunedoara - International Journal of Engineering, 16(4), pp.143-146, 2018, (EBSCO)

### **4. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate BDI**

**4.1. C Birtok Băneasă, S Rațiu, V Cioată, A Budiul-Berghian**, Thermodynamic Study of Airflow Through the Spark Ignition Engine Intake Manifold, The IVth International Congress of Automotive and Transport Engineering AMMA2018, 17-19 october 2018, Cluj-Napoca, România, Proceedings of the IVth International Congress of Automotive and Transport Engineering Volume Springer Nature America, Chapter 76, SpringerLink.

### **5. Lucrări științifice publicate în volumele unor manifestări științifice internaționale (Proceedings) din străinătate**

**5.1. -**

### **6. Lucrări științifice publicate în volumele unor manifestări științifice**

**6.1. -**

### **7. Premii**

**7.1. C Birtok Băneasă**, Salonul International Pro Invent Cluj-Napoca, 22-24.03.2017, Diplomă de excelență INMA.

**7.2. C Birtok Băneasă**, Filtru supraaspirant YXV, Salonul International Euroinvent Iasi, 25-27.05.2017, Medalie de aur.

**7.3. C Birtok Băneasă**, Filtru supraaspirant Inversat, Salonul International Euroinvent Iasi 25-27.05.2017, Diploma de onoare a Academiei de Stiinte a Moldovei.

- 7.4. **C Birtok Băneasă**, Deflector termic integrat, Salonul International Euroinvent Iasi 25-27.05.2017, Medalie de aur.
- 7.5. **C Birtok Băneasă**, Filtru supraaspirant Inversat, Salonul International Pro Invent Cluj-Napoca, 22-24.03.2017, Premiu special ARTA.
- 7.6. **C Birtok Băneasă**, Filtrul supraaspirant YXV, Salonul International Pro Invent Cluj-Napoca, 22-24.03.2017, Diplomă de excelență SIR.
- 7.7. **C Birtok Băneasă**, Deflector termic integrat, Salonul International de Inventica GENEVA-Elvetia 13-17.04.2016, Medalie de aur
- 7.8. **C Birtok Băneasă**, Deflector termic integrat, Salonul International de Inventica GENEVA-Elvetia 13-17.04.2016, Premiul special Science Park HONG KONG
- 7.9. **C Birtok Băneasă**, SDTA, Salonul Internațional de Invenții și Idei, Octombrie 2015, Iași, Medalie de aur
- 7.10. **C Birtok Băneasă**, Deflector termic integrat, Salonul International INNOVA – Brussels 18-22.11.2015, Premiul special din partea delegatiei Thaiandei

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