Nume Prenume: **BENIUGA Marius-Constantin**
Gradul didactic: **asistent doctor inginer**
Instituția unde este titular: Universitatea ”Ștefan cel Mare” din Suceava
Facultatea: Inginerie Mecanică, Autovehicule și Robotică
Departamentul: Mecanică și Tehnologii

LISTA
lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

A1. Teza de doctorat:

CERCETĂRI PRIVIND ATOMIZAREA COMBUSTIBILULUI LA SISTEMELE DE INJECŢIE MULTIPUNCT BENIUGA, conducător științific prof.univ.dr.ing. Ioan MIHAI, Universitatea „Ștefan cel Mare” din Suceava, 2018;

A2. Proiect de cercetare postdoctorală:

CONCEPEREA ȘI REALIZAREA UNUI SISTEM DE CONTROL A INJECTOARELOR SISTEMELOR COMMON RAIL ÎN VEDEREA STUDIERII PROCESULUI DE ATOMIZARE, conducător științific prof.univ.dr.ing. Ioan MIHAI, Universitatea „Ștefan cel Mare” din Suceava, 2020;

B. Cărți si capitole în cărți publicate în ultimii 10 anii

C Lucrări indexate ISI/BDI publicate în ultimii 10 anii

C1. **Beniuga Marius-Constantin***, Tamașag Ioan*, „Experimental study on the optimization of air flow for intake systems”, Journal TEHNOMUS New Technologies and Products in Machine Manufacturing Technologies ISSN/ISBN P-ISSN-1224-029X E-ISSN-2247-6016, pp. 101-106, 2023.

C2. Tamașag Ioan*, **Beniuga Marius-Constantin***, The use of reverse engineering for the elimination of stress concentrators in automotive parts - CASE STUDY - Journal TEHNOMUS New Technologies and Products in Machine Manufacturing Technologies ISSN/ISBN P - ISSN-1224-029X E - ISSN-2247-6016, pp. 107-112, 2023.

C3. Picus Claudiu-Marian, **Beniuga Marius-Constantin**, Cezar-Ion Adomnitei, „Studies on reducing emissions using preheating of exhaust gases in the isuzu 4jb1 diesel engine”, Journal TEHNOMUS New Technologies and Products in Machine Manufacturing Technologies ISSN/ISBN P - ISSN-1224-029X E - ISSN-2247-6016, pp. 83-88, 2023.

C4. Picus Claudiu-Marian, **Beniuga Marius-Constantin**, Ioan Mihai, „The necessity of fragmenting adblue droplets in scr systems”, Journal TEHNOMUS New Technologies and Products in Machine Manufacturing Technologies ISSN/ISBN P - ISSN-1224-029X E - ISSN-2247-6016, pp. 89-94, 2023.

C5. **Beniuga, M.**, „Atomization of fuel during operation of sie engines at low temperatures”, SPIE Proc. Volume 12493, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies XI, 1249325, doi.org/10.1117/12.2643285, 2022.

C6. **Beniuga Marius Constantin**, Ioan Mihai, " Variation of the sauter mean diameter depending on air speed at injection in SIE”, SPIE Proc. Volume 12493, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies XI; 1249324, doi.org/10.1117/12.2643282, 2022.

C7. **Beniuga Marius Constantin**, Robert-Adrian CHIȚAN, Ioan Mihai, „Atomized fuel jet and droplets in the envelope structure formed”, Journal TEHNOMUS New Technologies and Products in Machine Manufacturing Technologies ISSN/ISBN P - ISSN-1224-029X E - ISSN-2247-6016, pp. 66-69, 2022.

C8. Robert-Adrian CHIȚAN, **Marius Constantin BENIUGA,** "Design and crashworthiness analysis for a rally vehicle roll cage", Journal TEHNOMUS New Technologies and Products in Machine Manufacturing Technologies ISSN/ISBN P - ISSN-1224-029X E - ISSN-2247-6016, pp. 58-65, 2022.
C9. **Marius Beniuga**, "Distribution of droplets in an atomized combustible jet depending on the surface of the atomized jet of fuel", SPIE Proc. Volume 11718, Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies X; 1171812 doi.org/10.1117/12.2571159, 2020.
C10. **Marius Beniuga**, Ioan Mihai, Rusu-Manolache Cozmin-Ioan, „The modification of vaporization times and the evolution analyze of diameters of fuel drops depending about gaseous ambient temperature", SPIE Proc. Volume 11718, Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies X; 1171813 doi.org/10.1117/12.2571160, 2020.
C11. **Beniuga Marius Constantin**, Mihai Ioan, „Liquid fuel jet shape analysis using a high wear injector tested at low pressure", Journal TEHNOMUS New Technologies and Products in Machine Manufacturing Technologies ISSN/ISBN P - ISSN-1224-029X E - ISSN-2247-6016, pp. 91-94, 2019.
C12. **Beniuga, M**., Mihai, I., „Analysis atomized gasoline jets with different pressure on different times injection", Journal TEHNOMUS New Technologies and Products in Machine Manufacturing Technologies ISSN/ISBN P - ISSN-1224-029X E - ISSN-2247-6016, pp. 222-227, 2017.
C13. **Beniuga, M**., Mihai, I., "Study heat transfer liquid droplets injected into non-isothermal and isothermal jets case", Journal TEHNOMUS New Technologies and Products in Machine Manufacturing Technologies ISSN/ISBN P-ISSN-1224-029X, E-ISSN-2247-6016, pp. 228-233, 2017.
C14. Cornel Suciu, **Marius Beniuga**, „Optical investigation of electromagnetic fuel atomizers" SPIE Proc. Volume 10010, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VIII; 1001014 doi.org/10.1117/12.2243347, 2016.
C15**. Beniuga, M**., Mihai, I., „Studies concerning the effect of large droplets creation during fuel atomization", Proc. SPIE 10010, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VIII, 100101N , doi: 10.1117/12.2243005, pp. 10010N-1÷10010N-7, 2016.
C16. **Beniuga, M**., Mihai, I., „Influence of spray nozzle shape upon atomization process", Proc. SPIE 10010, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VIII, 100101L, doi:10.1117/12.2243130, pp. 10010l-1÷10010-8, 2016.
C17. **Beniuga, M.**, Mihai, I., „Correlation models for pulverized fuel jet angle to internal combustion engines", Journa TEHNOMUS - New Technologies and Products in Machines Manufacturing Technologies, ISSN/ISBN P - ISSN-1224-029X E - ISSN-2247-6016, 2015.
C18. **Beniuga, M.**, Mihai, I., „Study on length of the undisturbed liquid jet in the atomization procese", Journal TEHNOMUS - New Technologies and Products in Machines Manufacturing Technologies, ISSN/ISBN P - ISSN-1224-029X E - ISSN-2247-6016, 2015.
C19. Silviu Sprinceana, Ioan Mihai, **Marius Beniuga**, Cornel Suciu, „Heat transfer intensification by increasing vapor flow rate in flat heat pipes", SPIE Proc. Volume 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII; 92581P, doi.org/10.1117/12.2070417, 2015.
C20. Florin Andronic, Ioan Mihai, Cornel Suciu, **Marius Beniuga**, „Frequency analysis of a semi-active suspension with magneto-rheological dampers", SPIE Proc. Volume 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII; 925822, doi.org/10.1117/12.2070339, 2015.

C21. **Beniuga, M.**, Mihai, I., Suciu, C., Sprinceană, S., "Atomization of liquid droplets in multipoint injection", Proc. SPIE 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII, 92581R, doi:10.1117/12.2070428, pp. 92581R -1÷92581R -6., 2015.
C22. **Beniuga, M**., Mihai, I., Suciu, C., Sprinceană, S., "Friction coefficient influence upon fluid jet atomization", SPIE 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII, Proc. 92582Q, doi: 10.1117/12.2070430, pp. 92582Q -1÷92582Q -6., 2015.
C23. Silviu Sprinceana, Ioan Mihai, **Marius Beniuga**, Cornel Suciu, „Capillary layer structure effect upon heat transfer in flat heat pipes", SPIE Proc. Volume 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII; 92581Q, doi.org/10.1117/12.2070423, 2015.
C24. Florin Andronic, Ioan Mihai, Cornel Suciu, **Marius Beniuga** „Applications of magneto-rheologic fluids in semi-active suspension systems", SPIE Proc. Volume 9258, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies VII; 925823, doi.org/10.1117/12.2070345, 2015

D Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți

E. Brevete obținute în întreaga activitate

Data: Semnătura:

24.09.2025