

LISTA LUCRĂRILOR ELABORATE

I. TEZA DE DOCTORAT susținută la data de 23 Mai 2014, în domeniul inginerie industrială cu titlul - *Contribuții la optimizarea procesului de asamblare a aparatelor frigorifice. Studii de caz la SC ARCTIC Găești.*

II. CĂRȚI PUBLICATE (C)

Ca 1 – Ioana Cătălina Enache, Roxana Oana Chivu, Cîrțînă Liviu Marius, Conception des Produits Industriels, 223 pag, Editura Publishing House "KREDO-3M" LTD Gabrovo, Bulgaria, 2024, ISBN 978-619-7100-67-9.

Ca 2 – Ioana Cătălina Enache, Chivu O.R., Cîrțînă L.M. – Elements of Descriptive Geometry and Tehnical Drawing, Publisching House "KREDO-3M" LTD Gabrovo, 219 pag., Bulgaria, 2025, ISBN 978-619-7100-67-9.

Ca 3 – Ioana Cătălina Enache, Tehnici de Animație Volumul 1, Editura Bren, 162 pag, 2023-01-05, ISBN 978-606-610-297-1.

Ca 4 – Ioana Cătălina Enache, Tehnici de Animație Volumul 2, Editura Bren, 162 pag, 2023-01-05, ISBN 978-606-610-299-5.

Ca 5 – Ioana Cătălina Enache, Geometrie descriptivă, Editura Academică Brâncuși, Tîrgu Jiu, 2024, 203 pag., ISBN 978-630-340-020-4.

Ca 6 – Ioana Cătălina Enache, Desen Tehnic, Editura Academică Brâncuși, 211 pag, Tîrgu Jiu, 2024, ISBN 978-630-340-034-1.

III. ALTE MATERIALE PUBLICATE (I,D)

I 1 – Ioana Cătălina Enache, Nicolau Ana-Maria, Grafică Asistată de Calculator, Editura Bren, 203 pag, 2023-01-05, ISBN 978-606-610-300-8.

I 2 – Enache Ioana Cătălina, Optimizarea Proceselor Industriale, Editura Academica Brâncuși, Tîrgu Jiu, 2024, ISBN 978-630-340-020-4.

I 3 – Ana Maria Nicolau; Ioana Catalina Enache, Ecodesign Industrial, Printech, 204 pag., 2023-01-02, ISBN 978-606-23-1432-3.

I 4 – Ionel Simion; Elena Ionittă, Ioana Cătălina Enache, Desen Tehnic și Infografică Bren, 105 pag., 2023-05-28, ISBN 978-606-610-301-5

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

Ris 1 – Marta M-M, Chivu OR, Marian D, Enache I-C, Veja I, Pitic DE, Flueraș R, Popovici RA, Stana AH, Cojocariu C, Elisabeta V., Olaru I. Elemental Composition and Dentin Bioactivity at the Interface with AH Plus Bioceramic Sealer: An Energy-Dispersive X-Ray Spectroscopy Study. *Applied Sciences*. 2024; 14(24):11867. <https://doi.org/10.3390/app142411867>, [Web of Science] [WOS:001384123900001, IMPACT FACTOR 2,5].

- Ris 2** - Răduică F-F, Simion I, **Enache I-C**, Valter EN, Naddeo A. A Perspective on Rehabilitation Through Open-Source Low-Cost 3D-Printed Distal to the Wrist Joint Transitional Prosthetics: Towards Autonomous Hybrid Devices. *Machines*. 2024; 12(12):889. <https://doi.org/10.3390/machines12120889>, [Web of Science] [WOS:001385670200001, IMPACT FACTOR 2,1].
- Ris 3** - **Enache I-C**, Chivu OR, Raduică F-F. Eliminating Scraps in Refrigerator Door Sealing—A Six Sigma Case Study. *Processes*. 2024; 12(11):2460. <https://doi.org/10.3390/pr12112460>, [Web of Science] [WOS:001365857500001, IMPACT FACTOR 2,8].
- Ris 4** - Răduică, F., Simion, I., **Enache, I.C**, Chivu, O. (2024). Design Of Virtual Hand To Improve Proprioceptive Feedback For Upper-Limb Prosthetics Applications. *Acta Technica Napocensis - Series: APPLIED MATHEMATICS, MECHANICS, And ENGINEERING*, 67(2S). Retrieved from <https://atna-mam.utcluj.ro/index.php/Acta/article/view/2443>, [Web of Science] [WOS:001362561700028, IMPACT FACTOR 0,1].
- Ris 5** - **Enache, I. C.**, Cristina, I., Chivu, O. R., Mates, I., Ionita, E., & Geambasu, G. (2024). The Influence of 3D Printing Parameters on the Mechanical Behavior of PLA. *Materiale Plastice*, 61(1). [Web of Science] [WOS:001304198500003, IMPACT FACTOR 0,6].
- Ris 6** - Simion, I., Mihailescu, R., **Enache, I. C.**, & Ionita, E. (2023). Composite Material Testing for UAV Development. *Mater. Plast*, 60(3). [Web of Science] [WOS:001083326000001, , IMPACT FACTOR 0,6].
- Ris 7** - **Enache I-C**, Chivu OR, Rugescu A-M, Ionita E, Radu IV. Reducing the Scrap Rate on a Production Process Using Lean Six Sigma Methodology. *Processes*. 2023; 11(4):1295. <https://doi.org/10.3390/pr11041295>, [Web of Science] [WOS:000977736700001, IMPACT FACTOR 2,8].
- Ris 8** - Androniceanu A, **Enache I-C**, Valter E-N, Raduica F-F. Increasing Energy Efficiency Based on the Kaizen Approach. *Energies*. 2023; 16(4):1930. <https://doi.org/10.3390/en16041930>, [Web of Science] [WOS:000939179400001, IMPACT FACTOR 3].
- Ris 9** - **Ioana Catalina Enache**, Narcisa Valter, Florin-Felix Raduica, Oana Chivu, Integrating Artificial Intelligence Into The Photographic Design Process, *Journal Of Industrial Design and Engineering Graphics*, Vol 19, nr 1, pag 143-148, 2024. [Google Academic, ProQuest, EBSCO] [ISSN 2344-4681].
- Ris 10** - Florin-Felix Raduica, Ionel Simion, Ana Maria Mihaela Rugescu, **Ioana-Catalina Enache**, Elena Ionita, Aesthetic Appeal Of Robotic Limb Interactions And Effects On Design And Function, *Journal of Industrial Design and Engineering Graphics*, Vol 19, nr 1, pag 181-190, 2024. [Google Academic, ProQuest, EBSCO] [ISSN 2344-4681].
- Ris 11** - E Bulboacă, M Gheorghe, D Nitoi, **I.C. Enache**, C Borda, Ar Țăpârdea, Considerations Regarding The Application of the Digitalisation in the Field of OSH in Romania. *Fiability & Durability/Fiabilitate si Durabilitate*, vol 33, nr 1, 2024. [ISSN 1844-640X] [Google Academic].
- Ris 12** - D Silion, A Epureanu, An Tanase, **I.C Enache**, L Radu, Quality Control Methods And Industrial Applications. *Fiability & Durability/Fiabilitate si Durabilitate*, vol 33, nr 1, 2024. [Google Academic] [ISSN 1844-640X].
- Ris 13** - Nane Bianca, **Ioana Catalina Enache**, The Interior Design Of A Helicopter. Pilot's Position: Modelling And Control, *Journal Of Industrial Design And Engineering Graphics*, Vol 18, Nr. 2, Pag 23-26, 2023. [Google Academic, ProQuest, EBSCO] [ISSN 2344-4681].
- Ris 13** - AM Rugescu, C Babiș, SA Fica, A Dimitescu, OR Chivu, **IC Enache**, 3D printing of five tensile samples in lateral position C from PETG material, *Journal of Research & Innovation for Sustainable Society (JRISS)*, vol 5, nr 2, 2023. [Google Academic, ProQuest, EBSCO] [ISSN: 2668-0416].
- Ris 14** - C Babiș, SA Fica, A Dimitrescu, AM Rugescu, OR Chivu, **IC Enache**, FEM for the tensile specimens printed in horizontal position A and made of ABS+ material, *Journal of Research &*

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- Ris 16** - Bogdan Ivan, Oana Roxana Chivu, Marilena Gheorghe, Dan Nitoi, Alin Țăpîrdea, Demetrius Dubic, **Ioana Cătălina Enache**, Studies on geotextiles and their use in municipal waste disposal construction, Journal of Research & Innovation for Sustainable Society (JRISS), vol 5, nr 2, 2023. *[Google Academic, ProQuest, EBSCO] [ISSN: 2668-0416]*.
- Ris 17** - **Ioana Catalina Enache**, Oana Roxana Chivu, Catana Roxana-Teodora, Raduica Florin Felix, An analysis of the environmentally friendly furniture used in airports, Journal of Research & Innovation for Sustainable Society (JRISS), vol 5, nr 2, 2023. *[Google Academic, ProQuest, EBSCO] [ISSN: 2668-0416]*.
- Ris 18** - Costinel Bulboacă, Marilena Gheorghe, Oana Roxana Chivu, Eugenia Bulboacă, Dan Nitoi, Pasare Villi, Marinela Marinescu, Larisa Butu, Doru-Costin Darabont, **Ioana-Cătălina Enache**, Claudia Borda, Considerations of the Working Environment within the Method for Assessing Occupational Risks: Mevar in Construction, Preprints, 2023. *[Google Academic][DOI:10.20944/preprints202304.0865.v2]*.
- Ris 19** - Eugenia Bulboacă, Oana Roxana Chivu, Costinel Bulboacă, Anda Crângureanu, Claudia Borda, Dan Nitoi, Marilena Gheorghe, Pasare Villi, **Ioana Cătălina Enache**, Anamaria Feier, Contributions Regarding The Influence Of Risks On Natural Persons And Of The Risk Assessment System In The Field Of Health And Safety At Work In The Framework Of Detergent, Fiability & Durability/Fiabilitate si Durabilitate, nr. 1, 2023. *[Google Academic] [ISSN 1844-640X]*.
- Ris 20** - Vergilică Haralambie, Oana Roxana Chivu, Claudia Borda, Dan Nitoi, Marilena Gheorghe, Villi Pasare, Marinela Marinescu, Larisa Butu, **Ioana-Cătălina Enache**, Noise A Favorite Factor In The Industrial Work Environment. Fiability & Durability/Fiabilitate si Durabilitate, nr. 1, 2023. *[Google Academic] [ISSN 1844-640X]*.
- Ris 21** - **Ioana Cătălina Enache**, Alina Trifu, Oana Chivu , Daniel Onuț Badea, Claudia Borda , Dan Nitoi , Cornelia Luchian, Daniel Onuț Badea, Emissions of noxes in the case of welding in shielding gases: a systematic literature review, Journal of Research and Innovation for Sustainable Society (JRISS), vol 5, nr 1, pag 5-12, 2023. *[Google Academic, ProQuest, EBSCO] [ISSN: 2668-0416]*.
- Ris 22** - Eduard Smidu, Oana Roxana Chivu, Doru Costin Darabont, Marilena Gheorghe, Dan Nițoi, Constantin Radu, Silviu Dumitrescu, **Ioana Cătălina Enache**, Considerations on Prevention and Protections Measures Against Occupational Risks, Journal of Research & Innovation for Sustainable Society (JRISS), vol 5, nr 1, 2023. *[Google Academic, ProQuest, EBSCO] [ISSN: 2668-0416]*.
- Ris 23** - Narcisa Valter, Duca Mioara, **Ioana-Cătălina Enache**, Issues Related To The Design Of Control Devices And Range Limit Restrictions-Case Study, Journal of Industrial Design and Engineering Graphics, vol 17, nr 2, pag 33-36, 2022. *[Google Academic, ProQuest, EBSCO] [ISSN 2344-4681]*.
- Ris 24** - Narcisa Valter, Mioara Duca, **Ioana-Cătălina Enache**, The Application Of Target Value Theory To Achieve Industrial Excellence Objectives, Journal Of Industrial Design And Engineering Graphics, Vol 16, Nr 2, pag 27-30, 2021. *[Google Academic, ProQuest, EBSCO] [ISSN 2344-4681]*.
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- Ris 26** - F Raduica, **I.C Enache**, I Simion, Effective ways of managing Websites for academic institutions, International Journal of Social Sciences, vol 4, nr 3, pag 206-214, 2019. *[Google Academic][ISSN: 2456-2653]*.
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- Ris 29** - Ana-Maria Avramescu, Elena-Cristina Jugănar, Laura Ivascu, **Ioana-Cătălina Enache**, Product Eco-Design For The Household Appliance: Mini Sandwich Maker. Journal of Industrial Design & Engineering Graphics, vol. 9, nr. 1, 2014. *[Google Academic, ProQuest, EBSCO] [ISSN 2344-4681]*.
- Ris 30** - **Ioana Catalina Enache**, Ionel Simion, Florina Chiscop, Marius Adrian Chiscop, Injection process improvement using Six Sigma, UPB Sci. Bull, vol 7, nr 1, pag 161-170, 2014. *[Google Academic][ISSN 1454-2358]*.
- Ris 31** - Ana-Maria Avramescu, Ionel Simion, **Ioana-Catalina Enache**, Creating Realistic Images in a 3D Scene Using Illuminations and Renderings to Create an Animation, Scientific Bulletin of the "Politehnica" University of Timisoara, Romania, vol 58, nr 72, pag 95-100, 2013. *[Google Academic][ISSN 1583-3380]*.
- Ris 32** - **Ioana-Cătălina Dobre (Enache)**, Ionel Simion, Florina Chiscop, Determination And Elimination The Material Flux Concentrator For An Assembly Line-Case Study. Academic Journal of Manufacturing Engineering, vol 10, nr 4, 2012. *[Google Academic][ISSN 2601-3045]*
- Vis 1** - Feier Anamaria, Brinduşoiu Mihai, Niţoi Dan, Oana Roxana Chivu, Demetrius Dubic, Alin Țăpirdea, **Catalina Enache**,. (2024). Optimization of a Dissimilar Joint Using Additive Manufacturing. Macromolecular Symposia. 10.1002/masy.202300196, *[Web of Science] [WOS:001253176800045]*.
- Vis 2** - Razvan Mihailescu, Ionel Simion, **Catalina Ioana Enache**, Oana Roxana Chivu, Dan Nitoi, Development of a Prototype Drone through Carbon Fiber Composite Structures and Additive Manufacturing Techniques, Macromolecular Symposia. 2024, 10.1002/masy.202300196. *[Web of Science] [WOS:001253176800013]*.
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- Vis 8** - Alexandru Cana, Adrian Moise, Andrei Iacob, Stefan Țepure, **Ioana Catalina Enache**, Claudia Borda, Increased Safety In Car Repair Shops, Annals of Constantin Brancusi University of Targu-Jiu. Engineering Series/Analele Universității Constantin Brâncuși din Târgu-Jiu. Seria Inginerie, nr. 4, 2024. *[Google Academic, EBSCO][ISSN 1842-4856]*.
- Vis 9** - A Epureanu, D Sillion, O Chivu, D Nitoi, **Ioana Catalina Enache**, N Merloi, Quality Management Strategies In Researchdevelopment Projects In The Automotive. Annals of Constantin Brancusi University of Targu-Jiu. Engineering Series/Analele Universității Constantin Brâncuși din Târgu-Jiu. Seria Inginerie, Nr. 4, 2024 *[Google Academic, EBSCO][ISSN 1842-4856]*.
- Vis 10** - Tamara Leonte, Liviu Cîrțână, Alexandru Cana, Adrian Moise, Stefan Țepure, **Catalina Ioana Enache**, Comparative Analysis Of Instrumental Methods For Identifying Xenobiotics For Soil Pollution Reduction. Annals Ofconstantin Brancusi University of Targu-Jiu. Engineering Series/Analele Universității Constantin Brâncuși Din Târgu-Jiu. Seria Inginerie, Nr.4, 2024. *[Google Academic, EBSCO][ISSN 1842-4856]*.
- Vis 11** - C Babiș, A Dimitrescu, SA Fica, C Stochioiu, D Vlăsceanu, F Baci, OR Chivu, **IC Enache**, Determining the mechanical characteristics of some tensile specimens, depending on the material and the printing position, IOP Conference Series: Materials Science and Engineering, vol. 1303, nr 1, 2024. *[Google Academic] [DOI 10.1088/1757-899X/1303/1/012031]*.
- Vis 12** - C Babiș, A Dimitrescu, AM Rugescu, OR Chivu, **CI Enache**, Comparison between gas flame welding and shielded gas welding in case of aluminium alloys, IOP Conference Series: Materials Science and Engineering, vol. 1303, nr 1, 2024. *[Google Academic] [DOI 10.1088/1757-899X/1303/1/012031]*.
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- Vis 14** - Bogdan Ivan, Oana Roxana Chivu, Marilena Gheorghe, **Ioana Cătălina Enache**, Dan Nitoi, Alin Țăpirdea, Demetrius Dubic, Theoretical Research On Methods Of Construction Of Urban Landfills To Improve The Quality Of Environmental Components, Annals OfConstantin Brancusi, University of Targu-Jiu. Engineering Series/Analele Universității Constantin Brâncuși Din Târgu-Jiu. Seria Inginerie, Nr. 4, 2023. *[Google Academic, EBSCO][ISSN 1842-4856]*.
- Vis 15** - **Ioana Cătălina Enache**, Oana Roxana Chivu, Petre Georgiana, Raduica Felix, Study On The Ecological Solutions For Sustainable Aviation. Annals OfConstantin Brancusi, University of Targu-Jiu. Engineering Series/Analele Universității Constantin Brâncuși Din Târgu-Jiu. Seria Inginerie, Nr. 4, 2023. *[Google Academic, EBSCO][ISSN 1842-4856]*.
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- Vis 17** - Ana Maria Mihaela Rugescu, Ionel Simion, F Răduică, **Ioana Cătălina Enache**, How to access aesthetics for an educational project in aerospace engineering, EDULEARN21 Proceedings, pag. 8188-8194, 2021. *[Google Academic][ISBN: 978-84-09-31267-2]*.
- Vis 18** - Florin-Felix Răduică, **Ioana Cătălina Enache**, Ionel Simion, Ana Maria Nicolau, Enhancing Educational Efforts By Implementing A Studentcentered Website For An Engineering Department.Elearning. eLSE 2020, Vol 1, 2020. . *[Google Academic][DOI: 10.12753/2066-026X-20-075]*.
- Vis 19** - Florina Chiscop, **Ioana Catalina Enache**, Cicerone Laurentiu Popa, Tiberiu Gabriel Dobrescu, Costel Emil Cotet, Modelling, Simulation And Optimization Of A Chest Freezer Manufacturing Architecture, Annals of DAAAM & Proceedings, vol 30, 2019. *[Google Academic] [ISBN 978-3-902734-22-8]*.

Florina CHISCOP, **Ioana Catalina Enache**, Study For Zero Breakdow, Proceedings in Manufacturing Systems, vol 8, nr 4, 2013. *[Google Academic] [ISSN 2343-7472]*

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

Pn 1 – Director - Influența etapei de prototipare în procesul de producție, nr. 123, din 17.01.2023, 4,9725 lei.

Pn 2 – Director - Studii de caz " Designul identității grafic-vizuale a noului site E-dermashop pentru EXPERT COSMETICS S.R.L", nr. 7, din 17.01.2023, 25 228 lei.

Pn 3 – Membru - „Designul identității grafic-vizuale” pentru S.C. INDAR TECH S.R.L.

Pn 4 – Membru - Soluții - 2024 - 12 - Reducerea emisiilor poluante și a consumului de combustibil la motoarele Diesel care echipează navele din dotarea Forțelor Navale Române, în valoare de 19.000.000 lei,

