

**LISTA**  
**lucrărilor științifice**

**A. Lista a 10 lucrări științifice relevante:**

1. **Bere P.**, Berce P., Nemeș O., Phenomenological fracture model for biaxial fibre reinforced composit, **Composites Part B: Engineering An International Journal** Vol 43 (2012) 2237–2243, [www.journals.elsevier.com/composites-part-b](http://www.journals.elsevier.com/composites-part-b) ISI, **Q1**, IF 2,143
2. **P. Bere**, M Dudescu, C Neamțu, C Cocian, Design, Manufacturing and Test of CFRP Front Hood Concepts for a Light-Weight Vehicle **Polymers**, 13 (9), 1374, 2021/1, <https://doi.org/10.3390/polym13091374>, **Q1**, ISI IF 4,329
3. **P. Bere**, C Neamtu, R Udriou, Novel Method for the Manufacture of Complex CFRP Parts Using FDM-based Molds, **Polymers**, 2020, 12 (10), 2220, <https://doi.org/10.3390/polym12102220>, **Q1**, ISI IF 4,329,
4. **P. Bere**, M. C. Dudescu, N. Balc, P. Berce O. Nemes, A. M. Iurian, Design and analysis of carbon/epoxy composite bicycle handlebar, **Materiale Plastice**, 51, No. 2, 2014, 145-149, <http://www.revmaterialeplastice.ro>, ISI, IF 0.463
5. Sabău E., **Bere P.**, Moldovan M, Petean I., and Miron-Borzan C., Evaluation of Novel Ornamental Cladding Resistance, Comprised of GFRP Waste and Polyester Binder, within an Acid Environment, **Polymers**, 2021, 13(3), 448; doi:10.3390/polym13030448, **Q1**, ISI IF 4,329
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8. Moldovan (Lazar), M. , Bosca A, Rares C., Rotaru H., Prejmerean C, Prodan D., **P. Bere**, Cosma C, Festila D., Ghergie M., Bone Reaction to a Newly Developed Fiber-reinforced Composite Material for Craniofacial Implants, **MATERIALE PLASTICE** Journal, vol. 57(2), 2020, p.131-139, <https://doi.org/10.37358/Mat.Plast.196>, ISI IF 0,593
9. **P. Bere**, C. Neamțu, Design and manufacturing methodology for F1 nose car, International Conference on Production Research - Regional Conference Africa, Europe and the Middle East and 3rd International Conference on Quality and Innovation in Engineering and Management, **QIEM**, July 1-5, 2014, Cluj-Napoca, Romania, pp. 21-26, ISBN: 978-973-662-978-5 [ISI Proceedings]
10. Biruk-Urban, K., **Bere, P.**, Józwick, J., & Leleń, M. (2022). Experimental Study and Artificial Neural Network Simulation of Cutting Forces and Delamination Analysis in GFRP Drilling, **Materials**, 15(23), 8597, **Q1**, ISI IF 3,748

## **B – Teza de doctorat**

### **„Cercetări teoretice și experimentale privind fabricația și comportarea mecanică a tuburilor din materiale compozite polimerice”**

conducător științific : Prof.dr.ing. Horațiu Iancău

Universitatea Tehnică din Cluj-Napoca

Susținere publică: 02-07-2009.

## **C – Brevete obținute pentru întreaga activitate**

1. **Brevet de invenție nr. 128093/29-05-2015**, Procedeu de obținere a plăcilor din materiale compozite polimerice armate cu fibre, **Bere P.**, Berce P., Nemes O., Balc N.,
2. **Brevet de invenție nr.130062/28-02-2017**, Procedeu și material compozit pentru realizarea plăcilor sintetice ornamentale, Emilia Sabău, Nicolae Bâlc, **Paul Bere**,
3. **Brevet de Invenție nr. 133074/30.12.2021**, Compoziție de rășină de impregnare, material compozit și metodă de fabricație a implanturilor cranio-faciale, Rotar H. Băciuț G. Lazăr M. Prejmerean C. Moldovan M., Prodan D., Bâlc N. **Bere P.**

## **D – Cărți și capitole în cărți publicate:**

### **CĂRȚI**

1. Advanced Industrial Engineering, New Tendencies In Material Engineering, Bielsko-Biala University 2017, ISBN 978-83-947909-2-9, Wydawnictwo, Fundacji Centrum Nowych Technologii, **Paul BERE** Cap. 1 Composite Materials 38 pag., Cap. 4 Advanced composite materials and applications 34 pag. Total 71 pag
2. **Paul BERE**, Marin GUȚU Fabricația materialelor compozite. Materiale, Metode, Aplicații, Editura Tehnică UTM, Universitatea Tehnică a Moldovei 328 p, Chișinău 2018, ISBN 978-9975-45-538-1.
3. Product Lifecycle Management: Terminology and Applications, edited by Razvan Udrioiu, **Paul Bere**, IntechOpen, 2018, DOI: 10.5772/intechopen.81686, ISBN 978-1-78984-542-6, nr. pagini-10, Introductory Chapter: Product Lifecycle Management-Terminology,
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5. Claudiu Florea, **Paul Bere**, Fabricația pieselor din materiale compozite prin procedeul de transfer in matriță, Editura,UTPRESS, Cluj-Napoca. 2017, ISBN, 978-606-737-229-8, nr pagini 256.
6. **Paul Bere**, Rusu A., Dezvoltare Durabilă, Editura,UTPRESS, Cluj-Napoca. 2016, ISBN, 978-606-737-212-0, nr pagini.170.
7. **Paul Bere**, Hancu L., ș.a. Materiale compozite cu matrice polimerică. Lucrări de laborator Editura,UTPRESS, Cluj-Napoca. 2015, ISBN, 978-606-737-115-4, nr pagini 190.
8. **Paul Bere** Rusu A., Dezvoltare Durabilă. Aplicații seminar, Editura,UTPRESS, Cluj-Napoca. 2017, ISBN, 978-606-737-255-7, nr pagini 124
9. Hancu L., Iancu H., **Paul Bere** ș.a., Fabricația pieselor din materiale plastice. Lucrări de laborator, Editura,UTPRESS, Cluj-Napoca. 2016, ISBN, 978-606-737-207-6.

**E – 1 Articole în reviste cotate ISI Thomson Reuters și în volume indexate ISI  
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- | Nr. | Titlu  |
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| 1.  | A.P. Chirita A, <b>P Bere</b> , R I Rădoi, L. Dumitrescu, Aspects Regarding the Use of 3D Printing Technology and Composite Materials for Testing and Manufacturing Vertical Axis Wind Turbines., <i>Materiale Plastice Journal</i> ,56 (4), 2019, <a href="https://doi.org/10.37358/Mat.Plast.196">https://doi.org/10.37358/Mat.Plast.196</a> , ISI IF 1,517  |
| 2.  | Biruk-Urban K., Józwik J., <b>Bere P.</b> , Cutting Forces, and 3D Surface Analysis of CFRP Milling, <i>Advances in Science and Technology</i> , 2022, 16 (2), 206-215 ISI   |
| 3.  | <b>P Bere</b> , R Ciobanu, O Ciobanu, M Guțu, Design and Manufacturing Method of GFRP Blades for Vertical Axis Wind Turbine, <i>IOP Conference Series: Materials Science and Engineering</i> 1190 (1), 012022, ISI   |
| 4.  | R.A. Ghinea, <b>P. Bere</b> , Neamțu Călin, Improving the design of a wind turbine blade, 2014 Design And Manufacturing Methodology For F1 Nose Car, <i>International Conference On Production Research - Regional Conference Africa, Europe And The Middle East And 3rd International Conference On Quality And Innovation In Engineering And Management</i> , July 1-5, 2014, Cluj-Napoca, Romania, pp. 21-26, ISBN: 978-973-662-978-5 [ISI Proceedings] |
| 5.  | Ceclan V, <b>Bere P.</b> , Borzan M., Grozav S., Borzan C., Development of environmental technology for carbon fibre reinforced materials recycling, <i>Materiale Plastice</i> , 50, No. 2/ 2013, pag. 79-83, ISSN 0025-5289 ISI, IF 0,463   |
| 6.  | Arghir G <b>Bere P.</b> , Utilisation of composite materials in the model aircraft construction, <i>Jurnal Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, and Engineering</i> , Vol 60 Nr. 1, 2017/3/15, <a href="https://atna-mam.utcluj.ro">https://atna-mam.utcluj.ro</a> , ISI   |
| 7.  | Neamțu C., Popescu, S., <b>Bere P.</b> , Comes, R., Innovative mechanical structure for hospital bed folding using a single actuator. <i>Acta Technica Napocensis - Series: Applied Mathematics, Mechanics, And Engineering</i> , 2016, Vol. 59, Iss. 4, ISSN 1221 – 5872, ISI   |
| 8.  | Mocean F, Achimaș G, <b>Bere P</b> , Achimaș S., The mechanical characteristics of composite materials used for the rehabilitation of canals by means of lining, <i>Jurnal Acta Technica Napocensis - Series: Applied Mathematics, Mechanics, And Engineering</i> , 2016, Vol. 58, Iss. 4, ISSN 1221 – 5872, ISI   |
| 9.  | <b>Bere, P.</b> , Krolczyk, J.B., Determination of mechanical properties of carbon/epoxy plates by tensile stress test, 2017 E3S Web of Conferences, 19, 03018 (2017) DOI: 10.1051/e3sconf/20171903018, <a href="https://doi.org/10.1051/e3sconf/20171903018">https://doi.org/10.1051/e3sconf/20171903018</a> , ISI Proceedings  |
| 10. | <b>Bere, P</b> ; Nemes, O, Sabau, E., Dudescu, C., Design and Analysis of Carbon/Epoxy Composite Tubular Parts”, <i>Interdisciplinary Research in Engineering: Steps Towards Breakthrough Innovation for Sustainable Development book series: advanced engineering forum Vol: 8-9, Pages: 207-214 DOI: 10.4028/www.scientific.net/AEF.8-9.207</i> 2013, ISI Proceedings  |
| 11. | <b>Bere P</b> , Neamtu C, Dudescu C, Comes R, Solcan S, Carbon epoxy front hood for an electrical city vehicle, 13th International Conference on Modern Technologies in Manufacturing, MTeM - AMaTUC 2017, <a href="https://www.scopus.com">https://www.scopus.com</a> , [ISI Proceedings]   |
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  15. Neamtu C., **Bere P.**, Methods for Checking the Symmetry of the Formula One Car Nose, Innovative Manufacturing Engineering Conference, IManE 2014; Chisinau; Moldova; 29 – 30 May, Applied Mechanics and Materials, Volume 657, 2014, Pages 785-789, ISSN: 16609336, ISBN: 978-303835275-4, DOI:10.4028/www.scientific.net/AMM.657.785 [ISI Proceedings]
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40. E Sabău, C Vilău, **P Bere**, A Popescu, Finite element simulation of delamination process in composite materials, MATEC Web of Conferences Journal, Modern Technologies in Manufacturing (MTeM 2019) vol 299, p. 06005, 2019, <https://doi.org/10.1051/mateconf/201929906005>, ISI [WOS]

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**E2) 2 Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale:**

1. **P Bere**, R Rozsos, C Dudescu, C Neamtu, Manufacturing method for bicycle saddle from carbon/epoxy composite materials, The Romanian Journal of Technical Sciences. Applied Mechanics. 64 (2), 97-111, ISSN: 2601-5811, <https://academiaromana.ro/RJTS-AM.htm>
2. Neamtu C., **Bere P.**, Dobocan C., Ghinea R., Solcan S., Mold Design For Polystyrene Plastic Anchor, Applied Mechanics And Materials, Vol. 808, pp. 143-148, Nov. 2015 ISBN 978-3-03835-653-0 [EBSCO]
3. **Bere P**, Experimental research regarding vacuum bag technology for obtaining Carbon/epoxy composites, Academic Journal of Manufacturing Engineering, vol. 12, ISSUE 1/2014 pag 86-90, [SCOPUS]
4. **Bere P**, Popescu A, Hancu L, Experimental Research Regarding the Tensile Strength of Some Reinforced Composite Materials, Applied Mechanics & Materials, 2015/6/12, vol 808, p131-136. 6p. [EBSCO]
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9. **Bere P.**, Sabau E., Hancu L., Popescu A., Rapid manufacturing method for obtaining bent tubular parts made of carbon/epoxy, Academic Journal of Manufacturing

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- 2 **Bere P.**; Berce, P.; Nemes, O.; Sabau, E.; Cordos, N.; Popescu, A., Carbon/epoxy composite bent tubes with variable section manufacturing method, 13th-International Scientific Conference Automation In Production Planning And Manufacturing 02. – 04. May 2012 Žilina – Turčianske Teplice, Slovak Republic, ISBN 978-80-89276-35-6. pag. 26-31
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- 5 Nemeş, O., Iancău, H., **Bere, P**, Stress analysis in adhesive joints, The 6th International MTeM Conference, 2-4 October 2003, Cluj-Napoca, ISBN 973-656-490-8, pp. 329-330,
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Semnătura

