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## L I S T A

### lucrărilor științifice în domeniul disciplinelor din postul didactic

#### A. Teza de doctorat

1. **Tera Melania**, Contribuții privind ambutisarea unor table bimetalice, Teză de doctorat, Domeniul Inginerie Industrială, Universitatea „Lucian Blaga” din Sibiu, 214 pag., conducător științific prof. univ. dr. ing. Octavian Bologa, 2012

#### B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Racz S.G., Breaz, R.E, **Tera, M.** Gîrjob C., Biriș, C., Chicea, A.L., Bologa, O. editori carte: Hooyar Attar, Damon Kent, Titanium Alloys for Biomedical Implants and Devices (capitol), ISBN 978-3-0365-0002-7 (Hbk), ISBN 978-3-0365-0003-4 (PDF), **2020**, link WorldCat: [https://www.worldcat.org/title/titanium-alloys-for-biomedical-implants-and-devices/oclc/1242408131&referer=brief\\_results](https://www.worldcat.org/title/titanium-alloys-for-biomedical-implants-and-devices/oclc/1242408131&referer=brief_results)
2. Bogdan, L., **Tera, M.**, *Automatizări*, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-1518-8, 216p, Sibiu, **2017**
3. Racz, S-G., **Tera, M.**, Chicea A. L., Mașini și sisteme de prelucrare: îndrumar de laborator, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-1290-3, 208p, Sibiu, **2016**
4. Breaz, R.-E., **Tera, M.**, Tehnici de programare manuală și asistată de calculator a echipamentelor CNC, , Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-1294-1, 203p, Sibiu, **2016**
5. **Tera, M.**, *Cercetări privind dezvoltarea unor tehnici de prelucrare prin deformare incrementală pe mașini cu comandă numerică în scopul implementării industriale*, Editura Universității "Lucian Blaga" din Sibiu, ISBN 978-606-12-116-9, Sibiu, **2015**, 227p
6. **Tera, M.**, Bogdan, L., Breaz, R., *Accionări și comenzi electrice. Îndrumar de laborator*, Editura Universității "Lucian Blaga" din Sibiu, Sibiu, **2010**, ISBN 978-606-12-0071-9

#### C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

##### C.I. Lucrări în reviste cotate Clarivate Analytics (ISI) cu factor de impact

1. **Tera, M.**, Breaz, R.-E., Racz, S.-G., Gîrjob, C., Processing strategies for single point incremental forming—a CAM approach, International Journal of Advanced Manufacturing Technology (2019), <https://doi.org/10.1007/s00170-018-03275-9>, jurnal cotate Clarivate Analytics, autor corespondent, **Q2 – zonă galbenă, (FI 2.633/2019)**
2. S.G. Racz, R.E Breaz, **M. Tera**, C. Gîrjob, C. Biriș, A.L. Chicea, O. Bologa, Incremental Forming of Titanium Ti6Al4V Alloy for Cranioplasty Plates—Decision-Making Process and Technological Approaches, Metals 2018, 8(8), 626; <https://doi.org/10.3390/met8080626>, jurnal cotate Clarivate Analytics, **Q1 – zonă roșie, (FI 2.259/2018)**, WOS:000443616400062
3. S.G. Racz, R.E. Breaz, O. Bologa, **M. Tera**, V.Ș. Oleksik, *Using an adaptive neuro-fuzzy inference system (ANFIS) to calculate the vertical force in single point incremental forming*, International Journal of Computers Communications & Control, jurnal cotate Clarivate Analytics, Volume: 14, Issue: 1, Pages: 63-77, DOI: 10.15837/ijccc.2019.1.3489 **Q3 – zona albă (FI 1.585/2018)**, WOS:000458616200005

##### C.II. Articole publicate în reviste de circulație internațională, specifice domeniului, cotate I.S.I. sau indexate în baze de date internaționale:

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4. Petru, C.D. **Tera, M.** Gîrjob, C.E. Biriş C.M., INDUSTRY 4.0 – HOW TO INTRODUCE ITS CONCEPTS INTO THE TRAINING OF MECHATRONICS ENGINEERS, 14th annual International Conference of Education, Research and Innovation, 8-9 November, **2021**, 9099-9103, 2021, ISBN: 978-84-09-34549-6, ISSN: 2340-1095, doi: 10.21125/iceri.2021.2094
  5. Breaz, R.E. Racz, S.G. **Tera, M.** Gîrjob, C.E. Biriş C.M., ONLINE TEACHING ACTIVITIES DUE TO COVID-19 - CASE STUDY FOR THE MECHATRONICS STUDY PROGRAMME, 14th annual International Conference of Education, Research and Innovation, 8-9 November, **2021**, 9125-9130, 2021, ISBN: 978-84-09-34549-6, ISSN: 2340-1095, doi: 10.21125/iceri.2021.2098
  6. Breaz, R.E., Racz, S.G., Girjob, C.E., **Tera, M.**, Study upon the kinematic simulation of the incremental forming carried-on using a serial industrial robot, IOP Conference Series: Materials Science and Engineering, Volume 1009, Issue 1, 15 January 2021, 5th International Conference on Computing and Solutions in Manufacturing Engineering, CoSME 2020; Brasov; Romania; 7-10 October **2020**, ISSN: 17578981, doi:10.1088/1757-899X/1009/1/012011, WOS
  7. Breaz, R.E., Racz, S.G., Girjob, C.E., **Tera, M.**, Study on the application of CAM techniques on CNC lathes with Y axis and driven tools, IOP Conference Series: Materials Science and Engineering, Volume 1009, Issue 1, 15 January 2021, 5th International Conference on Computing and Solutions in Manufacturing Engineering, CoSME 2020; Brasov; Romania; 7-10 October **2020**, ISSN: 17578981, doi: 10.1088/1757-899X/1009/1/012010, <http://www.cosme.ro/>, WOS
  8. Breaz, R.E., Racz, S.G., Girjob, C.E., **Tera, M.**, Biris, C., Using open source software CNC controllers and modular multi-axis mechanical structure as integrated teaching environment for CAD/CAM/CAE training, IOP Conference Series: Materials Science and Engineering, Volume 968, Issue 1, 10 November 2020, 6th International Conference on Advanced Manufacturing Engineering and Technologies, NEWTECH 2020; Galati; Romania; 9 - 11 September **2020**, ISSN: 17578981, doi: 10.1088/1757-899X/968/1/012024, <https://www.newtech2020.ugal.ro/>, WOS
  9. Crenganis, M., **Tera, M.**, Biris, C., Gîrjob, C., Dynamic Analysis of a 7 DOF Robot Using Fuzzy Logic for Inverse Kinematics Problem, , Procedia Computer Science Volume 162, ISSN: 1877-0509, pp. 298-306, <https://doi.org/10.1016/j.procs.2019.11.288>, <https://www.sciencedirect.com/science/article/pii/S1877050919320009>, 2019
  10. **Tera, M.**, Gîrjob, C.E., Biriş, C.M. Crenganiş, M., Modular fastening system and tool-holder working unit for incremental forming, Modern Technologies in Manufacturing (MTeM 2019), eISSN: 2261-236X, 05005 -6 p, <https://doi.org/10.1051/mateconf/201929905005>, <https://www.matec-conferences.org/>, 2019
  11. **Tera, M.**, Breaz, R.E., Raising the Interest of High School Graduates for Mechatronics and Robotics University Study, articol, 10th International Conference on Education and New Learning Technologies EDULEARN 2018, ISBN: 978-84-09-02709-5, ISSN: 2340-1117, 6380-6386, <https://doi.org/10.21125/edulearn.2018.1513>, <https://iated.org/edulearn18/>, **2018**
  12. Breaz, R.E., **Tera, M.**, Student Competitions, a Useful Tool for Enhancing Skills and Competences, articol, 10th International Conference on Education and New Learning Technologies EDULEARN 2018, ISBN: 978-84-09-02709-5, ISSN: 2340-1117, 6335-6340, <https://doi.org/10.21125/edulearn.2018.1505>, <https://iated.org/edulearn18/>, **2018**
  13. **Tera, M.**, Analysis of Geographic Origin of Engineering Students and Their Cultural and Adaptation Issues at Lucian Blaga University in Sibiu, articol, 11th annual International Conference on Education and New Learning Technologies ICERI 2018, ISBN: 978-84-09-05948-5, ISSN: 2340-1095, <http://dx.doi.org/10.21125/iceri.2018.2388>, <https://iated.org/edulearn18/>, **2018**

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  15. **Tera, M.**, *Balancing Theoretical Knowledge and Practical Skills in Teaching CNC Programming to Mechanical and Manufacturing Engineers*, 10th annual International Conference of Education, Research and Innovation, Seville, Spain, 16-18 November, 2017, ISBN: 978-84-697-6957-7, ISSN: 2340-1095, pp8167-8172, <https://iased.org/iceri/>, **2017**
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  17. **Tera, M.** Breaz, R.E. Racz, G.S. Girjob, C., Chicea, A.L., *Is engineering a male specific profession and how this issue is addressed at Lucian Blaga university of Sibiu*, 10th International Technology, Education and Development Conference, 7-9 March, 2016, Valencia, Spain, ISBN: 978-84-608-5617-7, ISSN: 2340-1079, pp1907-1915, <https://library.iased.org/view/TERA2016ISE>, <https://iased.org/inted2016/>, martie, **2016**
  18. Breaz, R.E. Racz, G.S., **Tera, M.** Bologa, O.C. Biriş, C. *Making Mechatronics Study Programme at "Lucian Blaga" University of Sibiu Available For International Students*, 10th International Technology, Education and Development Conference, 7-9 March, 2016, Valencia, Spain, ISBN: 978-84-608-5617-7, ISSN: 2340-1079, pp1536-1543, <https://library.iased.org/view/BREAZ2016MAK>, **2016**
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  20. **Tera, M.**, *The competences required for manufacturing engineers to manage the industrial implementation of the incremental forming process*, 9th International Technology, Education and Development Conference, INTED2015, 2-4 martie, 2015, Madrid, Spania, pp. 5006-5013, ISBN: 978-84-606-5763-7, ISSN: 2340-1079, Volumul conferinței este indexat ISI Conference Proceedings Citation Index, **2015**
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**C.III. Articole publicate în reviste din țară, specifice domeniului, recunoscute de CNCSIS (Publicații BDI și publicații ERIH PLUS):**

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37. **Tera, M.**, Biriș, C.M., Comparison between deep-drawing and incremental forming processes from an environmental point of view, 9th International Conference on Advanced Manufacturing Technologies (ICAMaT 2018) / volum înaintat spre publicare în revista Applied Mechanics and Materials, **2018**, Index Copernicus, UlrichsWeb, ProQuest
38. R.E Breaz, **M. Tera**, V.A. Ciubotariu, V. Cohal, C. Maier, G. Plăiașu, Single point incremental forming - comparison between technological equipment by an overall processing time point of view, 27th International Conference on Manufacturing Systems, ICMaS 2018, București, Nov. 15-6, 2018, publicată în revista Proceedings in Manufacturing Systems, 13(3), pp. 121-126, **2018** (Ulrich's Database, Index Copernicus, Research Bible)
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**D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)**

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#### E. Brevete obținute în întreaga activitate

1. Sistem modular flexibil de fixare a semifabricatelor pentru procedeul de deformare incrementală / Cerere de brevet a 2019 00712 /Autori: RACZ Sever-Gabriel, BREAZ Radu-Eugen, OLEKSIK Valentin Ștefan, PASCU Adrian Marius, POPP Ilie Octavian, GÎRJOB Claudia Emilia, TERA Melania, CHICEA Anca Lucia, BIRIȘ Cristina Maria, CRENGANIȘ Mihai

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**Semnătura:**