

Universitatea Tehnică din Cluj-Napoca
Facultatea Construcții de Mașini
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LISTA

lucrărilor științifice în domeniul disciplinelor din postul didactic

A – Teza de doctorat

„Cercetări teoretice și experimentale privind utilizarea tehnologiilor RP în fabricația de implanturi ortopedice personalizate”

Conducător științific: Prof.dr.ing. Petru Berce

Universitatea Tehnică din Cluj-Napoca

Susținere publică: septembrie 2011.

B – Cărți și capitole în cărți publicate în ultimii 10 ani

CĂRȚI

1. **D. Leordean**, N. Bâlc, *Proiectare industrială. Aplicații PTC Creo-Parametric*. Editura Alma Mater, Cluj-Napoca, ianuarie 2013, ISBN978-606-504-152-3, nr. pagini 195;
2. **D. Leordean**, *Proiectare Produselor. Aplicații*, Editura UTPRESS, Cluj-Napoca, octombrie 2018, ISBN978-606-737-323-3, nr. pagini 117.
3. **D. Leordean**, *Proiectarea Produselor I*, Suport de curs, ISBN968-606-737-364-6, Editura UTPRESS, 2019
4. **D. Leordean**, *Proiectarea Produselor II*, Suport de curs, ISBN968-606-737-365-3, Editura UTPRESS, 2019
5. Editori - N. Bâlc, **D. Leordean**, “**MTeM 2019, Research and Applications in Manufacturing Engineering, Cluj-Napoca, Romania**”, Editura **EDP Sciences, MATEC Web of Conferences**, Material science, Engineering and Chemistry, Vol. 299, octombrie 2019, ISBN 978-2-7598-9083-5, 460 pagini

CAPITOLE DE CARTE

6. P. Berce, N. Bâlc, **D. Leordean**, ș.a. – *Aplicațiile medicale ale tehnologiilor de fabricație prin adăugare de material*, Editura Academiei Române, decembrie 2015, București, Romania, ISBN 978-973-27-2591-7, nr. pagini 280.

C – Lucrări indexate ISI/BDI publicate în ultimii 10 ani

c1) Articole / studii publicate în reviste de specialitate de circulație internațională recunoscute (cotate ISI)

1. Marcu, T., Nemes, O., Todea, M., **Leordean, D.**, Popa, C., *Characterization of hydroxyapatite coating on different pretreated Ti6Al7Nb alloy substrates*, STUDIA UBB CHEMIA, Volume: LVII, 4/2012, ISSN: 1224-7154, pp. 109-119, FRI: 0.136;
2. Marcu, T., Todea, M., Maines, L., **Leordean, D.**, Berce, P., Popa, C., *Metallurgical and mechanical characterisation of titanium based materials for endosseous applications obtained by selective laser melting*, POWDER METALLURGY Volume: 55, Issue: 4, Published: SEP 2012, ISSN: 0032-5899, pp. 309-314, FRI: 0.601;
3. Rotaru, H., Armencea, G., Spîrchez, D., Berce, C., Marcu, T., **Leordean, D.**, Kim, S.-G., Băciuț, M., *In vivo behavior of surface modified Ti6Al7Nb alloys used in selective laser melting for custom-made implants. A preliminary study*, ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY, Vol. 54 - Issue 3 SUPPL., 2013, ISSN 1220-0522, pp. 791-796, FRI: 0,723;
4. Marcu, T., Menapace, C., Girardini, L., **Leordean, D.**, Popa, C., *Selective Laser Melting of Ti6Al7Nb with hydroxyapatite addition*, RAPID PROTOTYPING JOURNAL, Volume: 20, Issue: 4, July 2014, ISSN: 1355-2546, DOI: 10.1108/RPJ-09-2012-0083, pp. 301-310, FRI: 2,031;
5. Saplontai, V., Saplontai, M., **Leordean, D.**, Moldovan, M., et al, *Electrochemical and structural investigation on Ti6Al7Nb alloy, coated with hydroxyapatite and titanium dioxide*, CHEMISTRY MAGAZINE, Bucharest, Volume: 2014, Issue: 10, October 2014, ISSN: 0034-7752, pp. 1249-1252, FRI: 0,810;
6. **Leordean, D.**, Dudescu, C., Marcu, T., Berce, P., Bâlc, N., *Customized implants with specific properties, made by selective laser melting*, RAPID PROTOTYPING JOURNAL, Volume: 21, Issue: 1, 2015, ISSN: 1355-2546, pp. 98-104, FRI: 2,031;
7. **Leordean, D.**, Radu, S.A., Fratila, D., Berce, P., *Studies on design of customized orthopedic endoprostheses of titanium alloy manufactured by SLM*, International Journal of ADVANCED MANUFACTURING TECHNOLOGY, Volume: 79, Issue: 5, 2015, ISSN: 0268-3768, DOI 10.1007/s00170-015-6873-0, pp. 905-920, FRI: 1,779;
8. Armencea, G., Berce, C., Rotaru, H., Bran, S., Stefan, V., **Leordean, D.**, Jula, C.-A., Gheban, D., Lazar, M., Baciut, G., Baciut, M., Campian, R. S., *Titanium alloys with hydroxyapatite or SiO₂+TiO₂ coatings used in bone reconstruction*, Optoelectronics and Advanced Materials – Rapid Communications (OAM – RC), Volume 9 ISS. 5-6, 2015, ISSN: Print: 1842-6573, pp. 865-868, FRI: 0,449;
9. Radu, S.A., **Leordean, D.**, Bâlc, N., Nemeș, O., *Resin type influence on moulded parts final dimension”, Studia Universitatis Babeș-Bolyai, Chemia, Jun2015, Vol. 60 Issue 2, Tom 2, ISSN 1224-7154, pp. 219-228, FRI: 0,191;*
10. Cojocar, I., Moldovan, M., Sarosi, C., **Leordean, D.**, Alb, C., *Morphological biodegradation and the cytotoxicity effect of some experimental biomaterials*, Revista de Materiale Plastice, September 2015, Vol. 3, ISSN 0025-5289, pp. 321-324, FRI: 0,824;
11. Ispas, A., Cosma, C., Crăciun, A., Constantiniuc, M., Lascu, L., **Leordean, D.**, Vilău, C., *Influence of Ti-Ceramic or Ti-Composite crown on stress distribution: finite element study and additive manufacturing*, Journal of Optoelectronics And Advanced Materials, Vol. 18 (9-10), 2016, ISSN: 1454 - 4164 pp. 904-912, FRI: 0,563.

c2) Studii publicate la conferințe indexate în baze de date internaționale de referință în domeniul (DBLP, ACM, IEEE, SCOPUS)¹

1. **D. Leordean**, T. Marcu, F. Prem, S. A. Radu, P. Berce, “*Porous metal structures from Ti alloys produced by SLM technology*”, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING, 2011, ISSN 1583-7904, pp. 10-15, [SCOPUS];
2. Mager, V., Saplontai, V., Saplontai, M., **Leordean, D.**, Bâlc, N., “*Research on infiltrating biocompatible fillers to produce composite implants*”, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING, Volume: 11, ISSUE 4/2013, ISSN 1583-7904, pp. 98-101, [SCOPUS];
3. Coman, A., Rodean, S., **Leordean, D.**, Patalita, C., “*Dimensional accuracy of the molds built on rapid prototyping under the influence of the investment casting heat processes*”, APPLIED MECHANICS AND MATERIALS, Volume: 371, Published: 2013 Trans Tech Publications, Switzerland, DOI: 10.4028, ISSN: 1662-7482, pp. 188-192, [SCOPUS];
4. Coman, A., Gegerhardt, A., Patalita, C., **Leordean, D.**, “*Industrial parts for investment casting built on the rapid prototyping systems*”, APPLIED MECHANICS AND MATERIALS, Volume: 371, Published: 2013 Trans Tech Publications, Switzerland, DOI: 10.4028, ISSN: 1662-7482, pp. 250-254, [SCOPUS];
5. Mager, V., Bâlc, N., **Leordean, D.**, Dudescu, C., Fockele, M., “*Research on producing complex metal parts with lattice structure, by selective laser melting*”, APPLIED MECHANICS AND MATERIALS, Volume: 371, Published: 2013 Trans Tech Publications, Switzerland, DOI: 10.4028 /www.scientific.net/AMM.371.280, ISSN: 1662-7482, pp. 280-284, [SCOPUS];
6. Cosma, C., Bâlc, N., **Leordean, D.**, Moldovan, M., Dudescu, C., Borzan, C., “*Customized medical applications of selective laser melting manufacturing*”, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING, Volume 13, Issue 1, 2015, ISSN 1583-7904, pp. 24-32, [SCOPUS];
7. Moldan, D., Vilău, C., Berce, P., **Leordean, D.**, “*Designing and testing of a tripod used for emergency situations*”, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING, Volume 13, Issue 1, 2015, ISSN 1583-7904, pp. 57-62, [SCOPUS];
8. Vilău, C., Bâlc, N., **Leordean, D.**, Cosma, C., “*Static analysis to redesign the gripper, using Creo Parametric software tools*”, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING, Volume 13, Issue 1, 2015, ISSN 1583-7904, pp. 77-827, [SCOPUS];
9. Vilău, C., Bâlc, N., **Leordean, D.**, “*Design and dynamic analysis of gripper for the Kuka KR6 robot*”, ACADEMIC JOURNAL OF MANUFACTURING ENGINEERING, Volume 13, Issue 2, 2015, ISSN 1583-7904, pp. 12-17, [SCOPUS];

¹ indexate în:

[IEEE] - IEEE Xplore (<http://ieeexplore.ieee.org/Xplore/guesthome.jsp>)

[ACM] - ACM portal (<http://portal.acm.org>)

[DBLP] - (<http://www.informatik.uni-trier.de>)

[SCOPUS] - (<http://www.scopus.com>)

D – Brevete obținute/depuse pentru întreaga activitate

1. **D. Leordean**, N. Bâlc, ș.a., **Betätigungsvorrichtung** – European patent, nr. EP2433750B1, owner DE-STA-CO company, Industrial Engineering domain, announced 28.03.2012;
2. **D. Leordean**, N. Bâlc, ș.a., **Actuating Device** – patent SUA, nr. US9199358B2, owner DE-STA-CO company, Industrial Engineering domain, Published date 01.12.2015;
3. **D. Leordean**, S.A. Radu, S. Cosma, ș.a., **Process of Manufacturing Customized Multi-Structure Medical Implants by Additive Manufacturing Technologies**, owner TUCN, Industrial Engineering domain, OSIM nr. **RO132908A2**, Published date 29.11.2018

E – Contracte de cercetare (2012-prezent)

1. “Research regarding customized implants manufacturing by using AM technology from composite materials reinforced with metallic structures - AMCIR”, national project TE, financed by Romanian Government, no. 37 / 2015, **Director**, budget 125.000Euro (www.amcir.utcluj.ro);
2. “Brainstorming/Development power clamp”, international project no. 1971/30.06.2011 financed by the DE-STA-CO Germany company, **Coordinator**, budget 7000Euro;
3. “Finite element, dynamic and kinematic analyses”, international project no. 8897 / 12.04.2012 financed by the DE-STA-CO Germany company, **Coordinator**, budget 2500Euro;
4. IDEI COMPLEXE – PCCE project, nr. 5/2010, ”New biocompatible materials for customized implants manufactured by SLS and SLM technologies (BIOMAPIN)”, **Coordinator**, budget 6.790.297RON (www.biomapim.utcluj.ro);
5. “Reinforcing additive manufacturing research cooperation/AdM-ERA”, international project FP7, financed by EU, nr. 295016 / 01.10.2012, **Partner**, total budget 496.634Euro where about 72.000Euro to TUCN (<http://fp7-admera.org>);
6. H2020 – Grant agreement No. 691787, AMaTUC – Boosting the scientific excellence and innovation capacity in additive manufacturing of the Technical University of Cluj-Napoca, (<https://www.amatuc.com/>);
7. H2020 – Grant agreement No 778068, “Directional Composites through Manufacturing Innovation” (DiCoMI), **Partner**, (<http://www.dicomi.eu/>).

Data
23.04.2020

Semnătura

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