

LISTA LUCRARILOR PUBLICATE

I. TEZA DE DOCTORAT (T)

T. “Modelarea cu elemente finite a procesului de sudare în vederea determinării tensiunilor și deformațiilor remanente”, U.P.B., 2011

II. CĂRȚI PUBLICATE (C)

Ca 1. Baci, Fl., “Rezistența materialelor Suport de curs”, CD, ISBN 978-606-23-0744-8, Editura Printech, 2017

Ca 2. Amza, C. Gh., Baci, F., Radu, C., Tașcă, G. D., “Proiectare asistată de calculator. AutoCAD 2012 - Ediție revizuită și adăugită”, ISBN 978-606-23-0278-8, Editura Printech, 2014

Ca 3. Jiga, G., Vlăsceanu D., Baci, Fl., “Rezistența materialelor - Teste grilă pentru facultățile de profil nemecanic”, ISBN 978-973-718-681-2, Editura Printech, 2007

Ca 4. Jiga, G., Pastramă, S. D., Baci, Fl., ș.a., “Teste grilă de Rezistența materialelor”, ISBN 9975-63-241-8, Editura Tehnică INFO Chișinău, Republica Moldova, 2004

III. ARTICOLE / STUDII IN EXTENSO PUBLICATE

- în reviste de specialitate indexate

Ris 1. Drăghici, S., Părăușanu, I., **Baci, F.**, Petrescu, H. A, Hadăr, A., Pastramă, S.D., “A comparative experimental - numerical analysis on the vibration behaviour of a composite satellite subset”, Mat. Plast., **53**(4), 2016, pp. 585-589, [WOS:000395047100003](#), (FI 0,903)

Ris 2. Bolcu, D., Sava, M., Diniță, A., Mirițoiu, C. M., **Baci, F.**, “The influence of discontinuities on elastic and mechanical properties of composite materials reinforced with woven Carbon, Carbon-Kevlar and Kevlar”, Mat. Plast., **53**(1), 2016, pp. 23-28, [WOS:000373966500006](#), (FI 0,903)

Ris 3. Miculescu, M., Vlăsceanu, R., **Baci, F.**, Miculescu, F., “Study on the metal-ceramic bonding strength improvement by unconventional methods”, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Volume 78, Issue 1, 1 January 2016, pp. 193-200, [ISSN 14542331](#) (SCOPUS)

Ris 4. Vlădescu, A., Dinu, Braic, M., Vițelaru, C., Bălăceanu, M., Târcolea, M., Braic, V., **Baci, F.**, Cotrut, C. M., “The effect of TiSiN interlayers on the bond strength of ceramic to NiCr and CoCr alloys”, Ceramics International, **41**(6), pp. 8051-8058, doi:10.1016/j.ceramint.2015.03.01, [WOS:000354140300113](#), (FI 2,758)

Ris 5. Stănescu, M. M., Bolcu, D., Ciucă, I., Mirițoiu, C. M., **Baci, F.**, “Experimental determinations of stiffness and damping coefficient of the sandwich bars with core of polypropylene honeycomb reinforced with steel fabric”, Mat. Plast., **50**(3), pp. 179-182, Published: SEP 2013, [WOS:000324783500007](#), (FI 0,903)

Ris 6. Atanasiu, C., Pastramă, S. D., **Baciu, F.**, Vlăsceanu, D., “*Pure shearing tests of a prandtl-type material*”, UPB Scientific Bulletin, Series D: Mechanical Engineering; Volume 72, Issue 3, ISSN: 14542358, 2010, [Pages 49-58](#)(SCOPUS)

Ris 7. Stănescu, M. M., Bolcu, D., Pastramă, S.D., Ciucă, I., Manea, I., **Baciu, F.**, “*Determination of damping factor at the vibrations of composite bars reinforced with carbon and kevlar texture*”, Mat. Plast., **47**(4), pp. 492-496. Published: DEC 2010, [WOS: 000291134000020](#), (FI **0,903**)

Ris 8. **Baciu, F.**, Vlăsceanu, D., Târcolea, M., Slăvescu, D., Târcolea, R. M., Cotruț, C. M., Bololoi, R., “*Behavior of mandible-implant interface under stress and temperature*”, European Cells and Materials, Volume 16, Issue SUPPL. 1, 2008, [Page 19](#) (SCOPUS)

- în volumele unor conferințe cu procedinds-uri indexate

Vis 1. **Baciu, F.**, Hadar, A., Sava, M., Stănescu, M. M., Bolcu, D., “*Calculation of the relative uniformity coefficient on the green composites reinforced with cotton and hemp fabric*”, International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, GREECE, SEP 23-29, 2015, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2015 (ICNAAM-2015), AIP Conference Proceedings, Vol. 1738, 2016, [DOI: 10.1063/1.4952322](#), [WOS:000380803300539](#)

Vis 2. Sava, M., Hadar, A., Parausanu, I., Petrescu, H. A., **Baciu, F.**, Stănescu, M. M., “*Analysis of discontinuities influence on the differences between static and dynamic elastic modulus of composite materials*”, International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, GREECE, SEP 23-29, 2015, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2015 (ICNAAM-2015), AIP Conference Proceedings, Vol. 1738, 2016, [DOI: 10.1063/1.4952321](#), [WOS:000380803300538](#)

Vis 3. Sava, M., Hadar, A., Parausanu, I., Petrescu, H. A., **Baciu, F.**, Stănescu, M. M., “*Validation of the numerical model of single-layer composites reinforced with carbon fiber and aramid*”, International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, GREECE, SEP 23-29, 2015, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2015 (ICNAAM-2015), AIP Conference Proceedings, Vol. 1738, 2016, [DOI: 10.1063/1.4952316](#), [WOS:000380803300533](#)

Vis 4. Taca, M., Constantinescu, D. M., **Baciu, F.**, Geantă, V., Daisa, D., Ștefănoiu, R., “*Influence of Technological Parameters on the Toughness Improvement of Microalloyed Steels*”, Materials Today: Proceedings Volume 3, Issue 4, 2016, pp. 1177-1182, [WOS: 0003730689000521](#)

Vis 5. **Baciu, F.**, Bratosin, C., Rusu-Casandra, A., “*A Three-dimensional Finite Element Analysis of Restored Deciduous Canine*”, 6th International Conference “Biomaterials, Tissue Engineering & Medical Devices”, Constanța, România, 17-20 septembrie 2014, BiomMedD 2014, Key Engineering Materials, Vol. 638 (2015), pp 123-129, [doi:10.4028/www.scientific.net/KEM.638.123](#) (SCOPUS)

Vis 6. Rusu-Casandra, A., **Baciu, F.**, Iliescu, N., Atanasiu, C., “*Stresses in a Bogie Frame of a Rail Carriage*”, Edited By Branko Katalinic, 25th DAAAM International Symposium on Intelligent Manufacturing and Automation, 2014, Procedia Engineering, Volume 100, 2015, pp. 482-487, doi:10.1016/j.proeng.2015.01.394, [WOS:000380551900060](#)

Vis 7. Cotruț, C.M., Târcolea, M., Vrânceanu, M. D., Gherghilescu, A. I., Ghiban, N., **Baciu, F.**, Ionescu, I. C., “*Stainless steel brackets: In vitro corrosion behaviour and mechanical debonding test*”, Solid State Phenomena, Volume 216, 2014, pp. 187-193, 5th International Conference on Advanced Materials and Structures, AMS 2013, Timișoara, România, 24 - 25

Vis 8. Bratosin, C., **Baciu, F.**, Rusu-Casandra, A. “*Comparative Study of the Biomechanical Behavior of the Deciduous Molar-Restorative Material-Bone Assembly*”, Edited by: Katalinic, B; Conference: 24th DAAAM International Symposium on Intelligent Manufacturing and Automation Location: Univ Zadar, Zadar, CROATIA Date: OCT 23-26, 2013; Sponsor(s): DAAAM Int Assoc; Int Acad Engn; Vienna Univ Technol; Austrian Soc Engineers & Architects; Vienna Univ Appl Sci Technikum, DAAAM, Danube Rectors Conf; DAAAM, Rectors & Presidents Honor Comm; 24TH DAAAM INTERNATIONAL SYMPOSIUM ON INTELLIGENT MANUFACTURING AND AUTOMATION, 2013 Book Series: Procedia Engineering, Volume: 69, pp. 1251-1257, 2014, [WOS:000335859300165](https://doi.org/10.1016/j.proeng.2014.03.116); doi:10.1016/j.proeng.2014.03.116

Vis 9. Rusu-Casandra, A., **Baciu, F.**, Iliescu, N., Atanasiu, C., “*Stresses and strains in a torpedo pot for cast iron*”, Edited by: Katalinic, B; 23rd DAAAM International Symposium on Intelligent Manufacturing and Automation 2012; Zadar; Croatia; 24 - 27 October 2012 Sponsor(s): DAAAM Int Assoc; Int Acad Engn; Vienna Univ Technol; Austrian Soc Engineers & Architects; Vienna Univ Appl Sci Technikum; DAAAM, Danube Rectors Conf; DAAAM, Rectors & Presidents Honor Comm; 23rd DAAAM International Symposium on Intelligent Manufacturing and Automation 2012, Volume 1, 2012, pp. 437-440, Conference Paper (SCOPUS)

Vis 10. Rusu-Casandra, A., Iliescu, N., **Baciu, F.**, “*Comparative study of the stress state in plates assembled with screws*”, Edited by: Katalinic, 22nd International DAAAM Symposium "Intelligent Manufacturing and Automation: Power of Knowledge and Creativity"; Vienna; Austria; 23 - 26 November 2011; Sponsors: Denona D.D., Festo, HSTEC D.D., KHS GmbH, Kordun, MKW Kunststofftechnik GmbH; 22nd International DAAAM Symposium "Intelligent Manufacturing and Automation: Power of Knowledge and Creativity"; Vienna; Austria; 2011, pp. 487-488, Conference Paper (SCOPUS)

Vis 11. Rusu-Casandra, A., Iliescu, N., **Baciu, F.**, “*Numerical and experimental stress analysis of a crown-molar system*”, Edited by: Katalinic, 22nd International DAAAM Symposium "Intelligent Manufacturing and Automation: Power of Knowledge and Creativity"; Vienna; Austria; 23 - 26 November 2011; Sponsors: Denona D.D., Festo, HSTEC D.D., KHS GmbH, Kordun, MKW Kunststofftechnik GmbH; 22nd International DAAAM Symposium "Intelligent Manufacturing and Automation: Power of Knowledge and Creativity"; Vienna; Austria; 2011, pp. 489-490, Conference Paper (SCOPUS)

Vis 12. Rusu-Casandra, A., Iliescu, N., **Baciu, F.**, “*Stress analysis of a rolling slideway*”, Edited by: Katalinic, Annals of DAAAM for 2010 and 21st International DAAAM Symposium "Intelligent Manufacturing and Automation: Focus on Interdisciplinary Solutions"; Zadar; Croatia; 20 - 23 October 2010; Sponsors: Denona D.D., Festo, HSTEC D.D., KHS AG - Filling and Packing - Worldwide, Kordun, MKW Kunststofftechnik GmbH; 21st International DAAAM Symposium "Intelligent Manufacturing and Automation: Focus on Interdisciplinary Solutions"; Zadar; Croatia; 2010, pp. 673-674, Conference Paper (SCOPUS)

Vis 13. Rusu-Casandra, A., Iliescu, N., **Baciu, F.**; “*Combined study of stress state in two types of manipulator grippers*”, Edited by: Katalinic, Annals of DAAAM for 2010 and 21st International DAAAM Symposium "Intelligent Manufacturing and Automation: Focus on Interdisciplinary Solutions"; Zadar; Croatia; 20 - 23 October 2010; Sponsors: Denona D.D., Festo, HSTEC D.D., KHS AG - Filling and Packing - Worldwide, Kordun, MKW Kunststofftechnik GmbH, 21st International DAAAM Symposium "Intelligent Manufacturing and Automation: Focus on Interdisciplinary Solutions"; Zadar; Croatia; 2010, pp. 671-672, Conference Paper (SCOPUS)

Vis 14. Rusu-Casandra, A., Iliescu, N., **Baciu, F.**, “*Comparison of three-dimensional finite element and photoelastic results for a scroller shaft*”, Edited by: Katalinic, B; Conference: 20th International Danube-Adria-Association-for-Automation-and-Manufacturing Symposium

Location: Vienna, AUSTRIA Date: NOV 25-28, 2009; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Vienna Univ Technol; Univ Appl Sci Technikum Vienna; Austrian Soc Engineers & Architects; ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings, Volume: 20, pp. 575-576, Published: 2009, [WOS:000282335600288](#)

Vis 15. Rusu-Casandra, A., Iliescu, N., **Baciu, F.**, “*Combined study on mechanical behavior of scroller shafts*”, Edited by: Katalinic, B; Conference: 20th International Danube-Adria-Association-for-Automation-and-Manufacturing Symposium Location: Vienna, AUSTRIA Date: NOV 25-28, 2009; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Vienna Univ Technol; Univ Appl Sci Technikum Vienna; Austrian Soc Engineers & Architects; ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings, Volume: 20, pp. 279-280, Published: 2009, [WOS:000282335600140](#)

Vis 16. Gheorghiu, H., Dinu, G., **Baciu, F.**, “*The determination of the strain state in the bed of a press*”, Edited by: Katalinic, B; Conference: 20th International Danube-Adria-Association-for-Automation-and-Manufacturing Symposium Location: Vienna, AUSTRIA Date: NOV 25-28, 2009; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Vienna Univ Technol; Univ Appl Sci Technikum Vienna; Austrian Soc Engineers & Architects; ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings, Volume: 20, pp. 979-980, Published: 2009, [WOS:000282335600490](#)

Vis 17. Atanasiu, C., Vlăceanu, D., **Baciu, F.**, “*The experimental stress investigations in bars of the draw installation of pipes*”, Edited by: Katalinic, B; Conference: 20th International Danube-Adria-Association-for-Automation-and-Manufacturing Symposium Location: Vienna, AUSTRIA Date: NOV 25-28, 2009; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Vienna Univ Technol; Univ Appl Sci Technikum Vienna; Austrian Soc Engineers & Architects; ANNALS OF DAAAM FOR 2009 & PROCEEDINGS OF THE 20TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings, Volume: 20, pp. 901-902, Published: 2009, [WOS:000282335600451](#)

Vis 18. Pastramă, S. D., Iliescu, N., **Baciu, F.**, Gruionu, L., “*Experimental investigations on the mechanical behavior of a total knee prosthesis during walking*”, Editors: Eichlseder W; 26th Danubia-Adria Symposium on Advances in Experimental Mechanics; Montanuniversitat LeobenLeoben, Austria; 23 - 26 September 2009, pp. 175-176, Conference Paper (SCOPUS)

Vis 19. Atanasiu, C., **Baciu, F.**, Vlăceanu, D., “*The stress distribution in a filleted shell*”, Edited by: Daniel, M; Holy, S; Ruzicka, M; Conference: 25th Danubia-Adria Symposium on Advances in Experimental Mechanics Location: Ceske Budejovice, CZECH REPUBLIC Date: SEP 24-27, 2008, Sponsor(s): Czech Techn Univ Prague; Inst Technol & Business Ceske Budejovice; Czech Soc Mech; Czech Assoc Mech Engn; 25TH DANUBIA-ADRIA SYMPOSIUM ON ADVANCES IN EXPERIMENTAL MECHANICS, pp. 3-4, Published: 2008, [WOS:000292693200002](#)

Vis 20. Dinu, G., Atanasiu, C., **Baciu, F.**, et al., “*Study of deformations in ram-boring spindle*”, Edited by: Katalinic, B; Conference: 19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Trnava, SLOVAKIA Date: OCT 22-25, 2008, ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings, pp. 379-380, Published: 2008, [WOS:000262860100189](#)

Vis 21. Dinu, G., **Baciu, F.**, Vlăceanu, D., et al., “*Study the strength and stiffness of a boring and milling machine bed*”, Edited by: Katalinic, B; Conference: 19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Trnava, SLOVAKIA Date: OCT 22-25, 2008, ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings, pp. 381-382, Published: 2008, [WOS:000262860100190](#)

Vis 22. Nicodim, M., Vlăsceanu, D., **Baciu, F.**, “*Design of a safety mechanism for machine tools*”, Edited by: Katalinc, B; Conference: 19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Trnava, SLOVAKIA Date: OCT 22-25, 2008, ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings, pp. 973-974, Published: 2008, [WOS:000262860100486](#)

Vis 23. Vlăsceanu, D., Cotruț, C., Târcolea, M., **Baciu, F.**, Nicodim, M., “*Investigation of the hard films deposited by pvd-magnetron sputtering on the cutting tools*”, Edited by: Katalinc, B; Conference: 19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Trnava, SLOVAKIA Date: OCT 22-25, 2008; ANNALS OF DAAAM FOR 2008 & PROCEEDINGS OF THE 19TH INTERNATIONAL DAAAM SYMPOSIUM Book Series: Annals of DAAAM and Proceedings, pp. 1487-1488, Published: 2008, [WOS:000262860100743](#)

Vis 24. Jiga, G., Vlăsceanu, D., **Baciu, F.**, “*Analysis of a roll over protective structure using the finite element method*”, Edited by: Katalinic, B; Conference: 18th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Zadar, CROATIA Date: OCT 24-27, 2007; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Univ Zadar; Vienna Univ Technol; Univ Appl Sci Technikum; Austrian Sco Engineers & Architects; ANNALS OF DAAAM FOR 2007 & PROCEEDINGS OF THE 18TH INTERNATIONAL DAAAM SYMPOSIUM: INTELLIGENT MANUFACTURING & AUTOMATION: FOCUS ON CREATIVITY, RESPONSIBILITY, AND ETHICS OF ENGINEERS, pp. 359-360, Published: 2007, [WOS:000252067400180](#)

Vis 25. Filipoiu, I. D., Căruțasu, N. L., Radu, Gh., **Baciu, F.**, “*The tension state - Deformations in the metallic structure of a multifunctional backpack*”, Edited by: Katalinic, B; Conference: 18th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing Location: Zadar, CROATIA Date: OCT 24-27, 2007; Sponsor(s): Danube Adria Assoc Automat & Mfg Int Vienna; Univ Zadar; Vienna Univ Technol; Univ Appl Sci Technikum; Austrian Sco Engineers & Architects; ANNALS OF DAAAM FOR 2007 & PROCEEDINGS OF THE 18TH INTERNATIONAL DAAAM SYMPOSIUM: INTELLIGENT MANUFACTURING & AUTOMATION: FOCUS ON CREATIVITY, RESPONSIBILITY, AND ETHICS OF ENGINEERS, pp. 279-280, Published: 2007, [WOS:000252067400140](#)

IV. PREMII ȘI RECUNOAȘTERE INTERNAȚIONALĂ

FESTO Young Researchers and Scientists Support Scholarship, The 19th international DAAM Symposium “*Make harmony between tehnology and nature, and your mind will fly vree as a bird*”, 22-25 Octombrie 2007, Trnava, Slovakia

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Semnătura