Lista de lucrări

NUMELE ŞI PRENUMELE: JAKAB-FARKAS László

A. Teza de doctorat.
CERCETĂRI PRIVIND OBȚINEREA ȘI CARACTERIZAREA STRATURILOR SUBȚIRI FUNCȚIONALE NANOSTRUCTURATE PE BAZĂ DE Ti-Al-Si-N;
Conducător Prof. Dr. ing. Ioan Vida-Simiti;
Instituția: Universitatea Tehnică din Cluj-Napoca;
Calificativ: Foarte bine;

C. Lucrări ştiinţifice publicate

C1. Lucrări ştiinţifice publicate în reviste cotate ISI

1. E. Domokos, B. Bíró-Janka, J. Bálint, K. Molnár, Cs. Fazakas, **L. Jakab-Farkas**, J. Domokos, Csi. Albert, Gy. Mara, A. Balog: Arbuscular Mycorrhizal Fungus Rhizophagus irregularis Influences Artemisia annua Plant Parameters and Artemisinin Content under Dierent Soil Types and Cultivation Methods. Microorganisms. (2020).
2. D. Feldiorean, D. Cristea, M. Tierean, C. Croitoru, C. Gabor, **L. Jakab-Farkas**, L. Cunha, N.P. Barradas, E. Alves, V. Craciun, A. Marin, C. Moura, J. Leme, M. Socol, D. Craciun, M. Cosnita, and D. Munteanu: *Deposition temperature influence on the wear behaviour of carbon-based coatings deposited on hardened steel*. Applied Surface Science.(2019).
3. E. Domokos, **L. Jakab-Farkas**, B. Darkó, B. Bíró-Janka, Gy. Mara, Cs. Albert and A. Balog: "Increase in Artemisia annua Plant Biomass Artemisinin Content and Guaiacol Peroxidase Activity Using the Arbuscular Mycorrhizal Fungus Rhizophagus irregularis", Frontiers in Plant Science, vol. 9, pp. 1-9, 2018
4. **L. Jakab-Farkas**, D. Biro, G. Strnad and I. Vida-Simiti: "Preparation and characterization of (Ti, Al, Si)N coatings developed by d.c. reactive magnetron sputtering", Journal of Optoelectronics and Advanced Materials, vol. 15, pp. 696-702, 2013
5. D Biro, **L. Jakab-Farkas**, G Strnad, V Bolos and I Vida-Simiti: "Effect of nitrogen concentration on microstructure and microhardness of nanostructured (Ti, Al, Si) N coatings developed by dc reactive magnetron sputtering", Journal of Optoelectronics and Advanced Materials, vol. 13, pp. 859, 2011

C2. Lucrări ştiinţifice publicate în reviste indexate în baze de date internaţionale (indicaţi şi baza de date).

1. I Peter, AB Kacsó, L Jakab-Farkas: Tailoring TiO2 Nanotube Arrays via Anodization Voltage and Thermal Processing: A Parametric Design Roadmap for Customizable Biomedical Applications Pharmaceutics 18 (10), 1241
2. G Damó, L Jakab-Farkas, E Egyed-Faluvégi: Kúpos alkatrészek mérésére szolgáló berendezés MŰSZAKI TUDOMÁNYOS KÖZLEMÉNYEK (HU) 22, 23-26
3. N-A Coman, Lavinia Berta, Alexandra Nicolae-Maranciuc, Alexandru Nicolescu, Mihai Babotă, Adrian Man, Dan Chicea, Lenard Farczadi, **László Jakab-Farkas**, Corneliu Tanase: Green synthesis of platinum nanoparticles using aqueous bark extract of Quercus sp. for potential antioxidant and antimicrobial applications, BioResources, (2024)
4. Năstaca-Alina Coman, Alexandra Nicolae-Maranciuc, Lavinia Berța, Alexandru Nicolescu, Mihai Babotă, Adrian Man, Dan Chicea, Lenard Farczadi, **László Jakab-Farkas**, Barbara Silva, Jéssica Veiga-Matos, Corneliu Tanase: Green Synthesis of Metallic Nanoparticles from Quercus Bark Extracts: Characterization and Functional Properties, Antioxidants, (2023)
5. Zöld, Eszter Laczkó; Koreh, Beáta; **Jakab-Farkas, László**; Domokos, Erzsébet: Analysis of pollen in "handmade" honey samples from the central microregion of Romania by scanning electron microscopy, Planta Medica. (2023)
6. G Strnad, **L Jakab-Farkas**, FS Gobber, I Peter: Synthesis and Characterization of Nanostructured Oxide Layers on Ti-Nb-Zr-Ta and Ti-Nb-Zr-Fe Biomedical Alloys. Journal of Functional Biomaterials 14 (4), 180, 2023
7. **L. Jakab-Farkas**, A. Kelemen, A.-Zs. Fekete, G. Strnad, S. Papp, I. Vida-Simiti and D. Biró: "Some remarks on the ternary TiAlSiN thin films developed under specific conditions", Acta technica napocensis- Series: Applied Mathematics, Mechanics, and Engineering, vol. 61, pp. 131-136, 2018 (inclusă în baza de date: Thomson Reuters Emerging Sources Citation Index, Index Copernicus, OCLC WorldCat)
8. A. Zs. Fekete and **L. Jakab-Farkas**: "Development of a pressure measuring unit based on a thermal conductivity gauge and a low cost embedded solution for mid-range vacuum applications", Papers On Technical Science, vol. 9, pp. 79-82, 2018 (inclusă în baza de date: de GRUYTER in progress)
9. L. Kenéz, N. Kutasi, E. Filep, **L. Jakab-Farkas** and L. Ferencz: *"Anodic Plasma Nitriding in Hollow Cathode (HCAPN)"*, HTM Journal of Heat Treatment and Materials, vol. 73, pp. 96-105, 2018 (inclusă în baza de date: Thomson Reuters Emerging Sources Citation Index, SCOPUS, HANSER)
10. A. Zs. Fekete, A. Kelemen and **L. Jakab-Farkas**: *"Multilevel Distributed Embedded System for Control of the DC Magnetron Sputtering Process"*, Acta Universitatis Sapientiae-Electrical and Mechanical Engineering, vol. 9, pp. 43, 2017 (inclusă în baza de date: Baidu Scholar, CNKI Scholar, CNPIEC, EBSCO Discovery Service, Google Scholar, J-Gate, KESLI-NDSL, Naviga, Primo Central, ProQuest, ReadCube, Summon (Serials Solutions/ProQuest), TDNet, WanFang Data, WorldCat (OCLC))
11. A. Kelemen, D. Biró, A.-Zs. Fekete, **L. Jakab-Farkas** and R.R. Madarász: *"Macroscopic Thin Film Deposition Model for the Two-Reactive-Gas Sputtering Process"*, Acta Universitatis Sapientiae-Electrical and Mechanical Engineering, vol. 8, pp. 62, 2016 (inclusă în baza de date: Baidu Scholar, CNKI Scholar, CNPIEC, EBSCO Discovery Service, Google Scholar, J-Gate, KESLI-NDSL, Naviga, Primo Central, ProQuest, ReadCube, Summon (Serials Solutions/ProQuest), TDNet, WanFang Data, WorldCat (OCLC))
12. G. Strnad, **L. Jakab-Farkas** and D. Portan: *"Current-time dependence in self-organized TiO2 layers synthesis by electrochemical anodization"*, Academic Journal of Manufacturing Engineering, vol. 14, pp. 112-118, 2016 (inclusă în baza de date: SCOPUS, SCIENTIFIC.NET)
13. L. Kenéz, N. Kutasi, E. Filep, **L. Jakab-Farkas** and I.Á. Szőcs: *"Heat-Treatment of 16MnCr Steel in a Linear Non-Isotherm Plasma Reactor"*, Acta Universitatis Sapientiae-Electrical and

Mechanical Engineering, vol. 5, pp. 61-72, 2013 (inclusă în baza de date: Baidu Scholar, CNKI Scholar, CNPIEC, EBSCO Discovery Service, Google Scholar, J-Gate, KESLI-NDSL, Naviga, Primo Central, ProQuest, ReadCube, Summon (Serials Solutions/ProQuest), TDNet, WanFang Data, WorldCat (OCLC))

14. A.- Zs. Fekete, **L. Jakab-Farkas**, S. Papp and T.Cs. Balogh: *"Dynamic Pressure Control in Reactive Sputtering Process"*, Acta Universitatis Sapientiae-Electrical and Mechanical Engineering, vol. 4, pp. 33-44, 2012 (inclusă în baza de date: Baidu Scholar, CNKI Scholar, CNPIEC, EBSCO Discovery Service, Google Scholar, J-Gate, KESLI-NDSL, Naviga, Primo Central, ProQuest, ReadCube, Summon (Serials Solutions/ProQuest), TDNet, WanFang Data, WorldCat (OCLC))
15. S. Papp, **L. Jakab-Farkas**, D. Biro and W. Szabo: *"Modeling and identification study of the variation of dynamic pressure in reactiv sputtering process"*, Scientific Bulletin of the Petru Maior University of Targu Mures, vol. 8 (XXV), pp. 58-61, 2011 (inclusă în baza de date: EBSCO, Index Copernicus, Ulrich's Periodicals Directory, Google Academic, Directory of Research Journals Indexing (DRJI), Directory of Open Access Journals (DOAJ), ProQuest Engineering Journals, ProQuest Illustrata: Technology, ProQuest SciTech Journals, ProQuest Technology Journals)
16. K. György, A. Kelemen, S. Papp and **L. Jakab-Farkas**: *"Theoretical Study of the Gradient Method to Find the Optimal Control for the Reactive Sputtering Process"*, Acta Universitatis Sapientiae-Electrical and Mechanical Engineering, vol. 3, pp. 2011 (inclusă în baza de date: Baidu Scholar, CNKI Scholar, CNPIEC, EBSCO Discovery Service, Google Scholar, J-Gate, KESLI-NDSL, Naviga, Primo Central, ProQuest, ReadCube, Summon (Serials Solutions/ProQuest), TDNet, WanFang Data, WorldCat (OCLC))
17. **L. Jakab-Farkas**, S. Papp, G. Strnad, Gy. Sáfrán, I. Vida-Simiti and D. Biro: *"Preparation and study of nanostructured TiAlSiN thin films"*, Scientific Bulletin of the Petru Maior University of Targu Mures, vol. 8 (XXV), pp. 200-205, 2011 (inclusă în baza de date: EBSCO, Index Copernicus, Ulrich's Periodicals Directory, Google Academic, Directory of Research Journals Indexing (DRJI), Directory of Open Access Journals (DOAJ), ProQuest Engineering Journals, ProQuest Illustrata: Technology, ProQuest SciTech Journals, ProQuest Technology Journals)
18. D. Biro, S. Papp and **L. Jakab-Farkas**: *"Microstructural Modification of (Ti1-xAlxSiy)N Thin Film Coatings as a Function of Nitrogen Concentration"*, Acta Universitatis Sapientiae-Electrical and Mechanical Engineering, vol. 2, pp. 2010 (inclusă în baza de date: Baidu Scholar, CNKI Scholar, CNPIEC, EBSCO Discovery Service, Google Scholar, J-Gate, KESLI-NDSL, Naviga, Primo Central, ProQuest, ReadCube, Summon (Serials Solutions/ProQuest), TDNet, WanFang Data, WorldCat (OCLC))
19. **L. Jakab-Farkas**, S. Papp and D. Biró: "Effect of n concentration on microstructure evolution of the nanostructured (Al, Ti, Si) n coatings prepared by D C. Reactive magnetron sputtering", Scientific Bulletin of the Petru Maior University of Targu Mures, vol. 6, pp. 173, 2009 (inclusă în baza de date: EBSCO, Index Copernicus, Ulrich's Periodicals Directory, Google Academic, Directory of Research Journals Indexing (DRJI), Directory of Open Access Journals (DOAJ), ProQuest Engineering Journals, ProQuest Illustrata: Technology, ProQuest SciTech Journals, ProQuest Technology Journals)

C3. Lucrări ştiinţifice publicate în reviste din străinătate (altele decât cele menţionate anterior).

C4. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS/CNCS (altele decât cele din baze de date internaţionale).

C5. Lucrări ştiinţifice publicate în reviste, altele decât cele menţionate anterior

C6. Lucrări ştiinţifice publicate în volumele manifestărilor ştiinţifice

1. G. Strnad, Z. German-Sallo, **L. Jakab-Farkas**, R. Cazacu and D. Portan: "Effect of potential ramp in the potentiodynamic stage of anodization on morphology of nanostructured TiO2 developed on Ti6Al4V alloy", in Proceedings of Procedia Manufacturing, vol. 22, pp. 19-26, 2018
2. A.-Zs. Fekete and **L. Jakab-Farkas**: "Development of a pressure measuring unit based on a thermal conductivity gauge and a low cost embedded solution for mid-range vacuum applications", in

Proceedings of the XXIIIth International Scientific Conference of Young Engineers, vol. 9, pp. 79-82, 2018

3. G. Strnad, D. Portan, **L. Jakab-Farkas**, C. Petrovan and O. Russu: *"Morphology of Nanostructured TiO2 Surfaces for Biomedical Implants Developed by Electrochemical Anodization"*, in Proceedings of Materials Science Forum, vol. 907, pp. 91-98, 2017
4. G. Strnad, Z. German-Sallo, **L. Jakab-Farkas**, C. Petrovan and D. Portan: *"Influence of electrical parameters on morphology of nanostructured TiO2 layers developed by electrochemical anodization"*, in Proceedings of MATEC Web Conf., vol. 112, pp. 1-6, 2017
5. G. Strnad, **L. Jakab-Farkas**, C. Petrovan and O.M. Russu: *"Influence of Surface Preparation on Morphology of Self-organized Nanotubular Oxide Layers Developed on Ti6Al4V Alloy"*, in Proceedings of Procedia Engineering, vol. 181, pp. 242-248, 2017
6. G. Strnad, R. Cazacu, P. Chetan, Z. German-Sallo and **L. Jakab-Farkas**: *"Optimized anodization setup for the growth of TiO2 nanotubes on flat surfaces of titanium based materials"*, in Proceedings of MATEC Web Conf., vol. 137, pp. 1-6, 2017
7. **L. Jakab-Farkas**, A. Kelemen, A.-Zs. Fekete, G. Strnad, S. Papp, I. Vida-Simiti and D. Biró: *"Some remarks on the ternary TiAlSiN thin films developed under specific conditions"*, in Proceedings of the 5th Internation Conference on Powder Metallurgy and Advanced Materials, pp. 131-136, 2017
8. A.-Zs. Fekete, **L. Jakab-Farkas** and S. Papp: *"Development of an Embedded System for Processing Mass Spectrometry Measurements"*, in Proceedings of The XVIth International Conference of Technical Sciences, vol. pp. 61-64, 2016
9. A.-Zs. Fekete and **L. Jakab-Farkas**: *"Development of an Embedded System for Accessing Mass Spectrometry Measurements through Ethernet Network"*, in Proceedings of The XXIth International Scientific Conference of Young Engineers, pp. 161-164, 2016
10. G Strnad, C Petrovan, O Russu and **L. Jakab-Farkas**: *"TiO2 nanostructured surfaces for biomedical applications developed by electrochemical anodization"*, in Proceedings of IOP Conference Series: Materials Science and Engineering, vol. 161, pp. 1-8, 2016
11. G. Strnad, N. Chirila and **L. Jakab-Farkas**: *"Effect of surface preparation and passivation treatment on surface topography of Ti6Al4V for dental implants"*, in Proceedings of Applied Mechanics and Materials, vol. 809, pp. 513-518, 2015
12. A.-Zs. Fekete and **L. Jakab-Farkas**: *"Development of an Embedded Partial Pressure Measuring System for use in Reactive Sputtering System"*, in Proceedings of The XVth International Conference of Technical Sciences, vol. pp. 87-90, 2015
13. N. Kutasi, L. Kenéz, E. Filep, I. Szöllösi and **L. Jakab-Farkas**: *"The Design of an Automated Plasma Diagnostic System – From Measurement to Signal Processing"*, in Proceedings of Macro 2015, vol. 1, pp. 49, 2015
14. D. Biro, **L. Jakab-Farkas**, A. Kelemen, S. Papp, M.F. Hasaneen, M. Menyhard, S. Gurban and P.B. Barna: *"Effect of Oxygen Doping on the Structure of TiN Surface Coatings"*, in Proceedings of the 5th International Conference on Recent Achievements in Mechatronics, Automation, Computer Sciences and Robotics 2015, vol. 1, pp. 315-324, 2015
15. G. Strnad, **L. Jakab-Farkas**: *"Improving the Accuracy of Low-load Vickers Microhardness Testing of Hard Thin Films"*, in Proceedings of Procedia Technology, vol. 12, pp. 289-294, 2014
16. G. Strnad, **L. Jakab-Farkas**, S. Papp, A.- Zs. Fekete, D. Biro and I. Vida-Simiti: *"Optimization of reactive sputtering technology for hard coatings deposition"*, in Proceedings of Applied Mechanics and Materials, vol. 657, pp. 246-250, 2014
17. S. Papp, A. Kelemen, **L. Jakab-Farkas**, I. Vida-Simiti and D. Biro: *"Multilayered nanocrystalline CrN/TiAlN/MoS 2 tribological thin film coatings: preparation and characterization"*, in Proceedings of IOP Conference Series: Materials Science and Engineering, vol. 47, pp. 12-16, 2013

18. S. Papp, **L. Jakab-Farkas** and D. Biro: *"Langmuir probe measurements in a magnetron sputtering system"*, in Proceedings of The XVII-th International Scientific Conference of Young Engineers, pp. 267-270, 2012
19. S. Papp, K. György, A. Kelemen and **L. Jakab-Farkas**: *"Applying the Extended and Unscented Kalman Filters for Nonlinear State Estimation"*, in Proceedings of the 6th International Conference INTER-ENG 2012, Interdisciplinarity in Engineering, vol. 1, pp. 233-239, 2012
20. S. Papp, **L. Jakab-Farkas**, D. Biro and W. Szabo: *"Modeling and identification study of the variation of dynamic pressure in reactive sputtering process"*, in Proceedings of The International Conference Interdisciplinarity in Engineering INTER-ENG, vol. pp. 16, 2011
21. **L. Jakab-Farkas**, S. Papp, G. Strnad, Gy. Safran, I. Vida-Simiti and D. Biro: *"Preparation and Study of Nanostructured TiAlSiN Thin Films"*, in Proceedings of the 5th International Conference Interdisciplinarity in Engineering INTER-ENG, pp. 200, 2011
22. D. Biro, S. Papp and **L. Jakab-Farkas**: *"Microstructural Modification of (Ti1-xAlxSiy)N Thin Film Coatings as a Function of Nitrogen Concentration"*, in Proceedings of the 2nd Conference on Recent Achievements in Mechatronics, Automation, Computer Sciences and Robotics (MACRo2010), pp. 199-207, 2010
23. **L. Jakab-Farkas**, S. Papp and D. Biró: "Effect of n concentration on microstructure evolution of the nanostructured (Al, Ti, Si) n coatings prepared by D C. Reactive magnetron sputtering", in Proceedings of the 4th edition of the Interdisciplinarity in Engineering International Conference pp. 261, 2009

D. Traduceri de cărţi, capitole de cărţi, alte lucrări ştiinţifice

E. Editare, coordonare de volume
F. Brevete de invenții și alte titluri de proprietate

G. Contracte de cercetare (menţionaţi calitatea de director sau membru)

Nr. crt.	Denumirea Temei	Beneficiar	Perioada	Calitate
1.	Obţinerea şi cercetarea structurii microscopice prin procedurile TEM şi XTEM a straturilor subţiri, rezistente la uzură	Institutul Programelor de Cercetare al Fundaţiei Sapientia	2005-2006	Membru echipă
2.	Obţinerea şi investigarea microstructurală a straturilor subţiri tribologice de compoziţie TiAlSiN	Institutul Programelor de Cercetare al Fundaţiei Sapientia	2011	Membru echipă
3.	Influenta oxigenului asupra mecanismului de formare a structurii straturilor subtiri TiN	Academia din Ungaria 2010C00253CS	2013	Membru echipă
4.	Obţinerea şi caracterizarea prin microscopie electronică a straturilor TiOxNy realizate cu parametri predefiniţi în vederea elucidării mecanismului de tranziţie a texturii preferenţiale.	Academia din Ungaria 37/6865	2014-2015	Membru echipă
5.	Tehnologie optimizată de anodizare electrochimică pentru dezvoltarea acoperirilor nanostructurate pe bază de TiO2 pe suprafețele complexe ale implanturilor biomedicale	Unitatea Executivă pentru Finanțarea Învățământului Superior PN-III-P2-2.1-PED-2016-0142	2015-2017	Membru echipă

H. Creaţia artistică

H1 Participări la manifestaţii artistice internaţionale
H2. Participări la manifestaţii artistice naţionale
H3. Expoziţii, filme, spectacole, concerte, discuri de autor, opere internaţionale
H4. Expoziţii, filme, spectacole, concerte, discuri de autor, opere naţionale
H5. Produse cu drept de proprietate intelectuală în domeniul artistic

III. RECUNOAȘTEREA

I. Premii, distincţii.

J. Citări

la C1.1

1. A. Flavio: Study of the growth, artemisinin production and leaf volatilome of some micropropagated Artemisia annua clones inoculated or not with beneficial soil microorganisms. Phd thesis, Universita del Piemonte Orientale

la C1.2

1. X Li, L He, Y Li, Q Yang:Diamond deposition on iron and steel substrates: A review, Micromachines, 2020
2. S.A. Afolalu, S. Oladipupo, M.E. Bose, A.A. Abioye, S.B. Adejuyigbe, O.O. Ajayi and S.O. Ongbali: Agro waste A sustainable source for steel reinforcement-review, Journal of Physics: Conference Series, 2019
3. DI Lebedev: Elemental Distribution of Gas-Thermal Coatings with W and Ta Modifiers - Materials Science Forum, 2020
4. A.W. Zia, M. Birkett: Deposition of diamond-like carbon coatings: Conventional to non-conventional approaches for emerging markets - Ceramics International, 2021
5. C.D.Boeira, L.M.Leidens, A.F.Michels, R. Serra, M. Evaristo, F. Fernandes, A.Cavaleiro, C.A.Figueroa: Influence of base pressure prior to deposition on the adhesion behaviour of carbon thin films on steel - Applied Surface Science Advances, 2020 - Elsevier
6. R.T. Brzhanov, G. Bulekbayeva: Rolling of a weld pad on a flat surface. One-dimensional problem - IOP Conference Series: Materials Science and Engineering, 2020 - iopscience.iop.orgla C1.3

la C1.3

1. Takacs, T., Cseresnyes, I., Kovacs, R., Paradi, I., Kelemen, B., Szili-Kovacs, T. and Fuzy, A.: “Symbiotic Effectivity of Dual and Tripartite Associations on Soybean (Glycine max L. Merr.) Cultivars Inoculated With Bradyrhizobium japonicum and AM Fungi”. Frontiers in Plant Science. 9: 14.(2018).
2. O. Peterfi, E. Domokos: “Mutualistic and Endophyc microorganisms of Artemisia Annua: Description, role and use” Acta Biologica Marisiensis 5-21, 2018

la C1.3

3. Jokanovic, V., Holovic, B., Nenadovic, M., Petkoska, A. T., Mitric, M., Jokanovic, B. and Nasov, I.: Ultra-High and Near-Zero Refractive Indices of Magnetron Sputtered Thin-Film Metamaterials Based on TixOy. Advances in Materials Science and Engineering: 9.(2016)
4. Ravi, N., Markandeya, R. and Joshi, S. V.: Effect of nitrogen pressure on mechanical properties of nc-TiAlN/ a-Si3N4 nanocomposite coatings deposited by cathodic arc PVD process. Materials Today-Proceedings. 3: 3002-3011.(2016)
5. Das, P., Anwar, S., Bajpai, S. and Anwar, S.: Structural and mechanical evolution of TiAlSiN nanocomposite coating under influence of Si3N4 power. Surface & Coatings Technology. 307: 676-682.(2016).

la C1.4

1. Jakab-Farkas, L., Kelemen, A., Fekete, A.-Zs., Strnad, G., Papp, S., Vida-Simiti, I. and Biró, D.: *Some remarks on the ternary TiAlSiN thin films developed under specific conditions*. Acta technica napocensis- Series: Applied Mathematics, Mechanics, and Engineering. 61: 131-136.(2018).
2. Papp, S., Kelemen, A., Jakab-Farkas, L., Vida-Simiti, I. and Biro, D.: *Multilayered nanocrystalline CrN/TiAlN/MoS 2 tribological thin film coatings: preparation and characterization*. IOP Conference Series: Materials Science and Engineering. 47: 12-16.(2013).

3. Sobol, V., Andreev, A. A., Mygushchenko, R. P., Stolbovoy, V. A., Postelnyk, A. A., Meylekhov, A. A., Dolomanov, A. V. and Rebrova, Y. M.: *THE EFFECT OF THE SUBSTRATE POTENTIAL DURING DEPOSITION ON THE STRUCTURE AND PROPERTIES OF THE BINANOLAYER MULTIPERIOD COMPOSITES (TiAlSi)N/MeN (Me - Zr, Nb, Cr, Mo).* Problems of Atomic Science and Technology: 173-180.(2018).
4. Hasaneen, M. F., Biro, D., Szekely, L., Nemes-Incze, R. and Barna, P. B.*: Substructure in the columnar crystals of the Ti0.45O0.20N0.35 oxynitride thin film.* Vacuum. 86: 2105-2108.(2012).
5. Sobol, OV, Andreev, AA, Mygushchenko, RP, Stolbovoy, VA, Postelnyk, AA, Meylekhov, AA, Dolomanov, AV and Rebrova, Ye M: The effect of the substrate potential during deposition on the structure and properties of the binanolayer multiperiod composites (TiAlSi) N/MeN (Me–Zr, Nb, Cr, Mo). Вопросы атомной науки и техники.(2018)
6. Jakab-Farkas, Laszlo, Papp, Sandor, Strnad, Gabriela, Safran, Gyorgy, Vida-Simiti, Ioan and Biro, Dominic: Preparation and Study of Nanostructured TiAlSiN Thin Films. The International Conference Interdisciplinarity in Engineering INTER-ENG, Editura Universitatii" Petru Maior" din Tirgu Mures: 200.(2011).

la C2.5

1. Madarász, Róbert Rossi, András Kelemen, and Albert-Zsombor Fekete. "Plasma ignition and current control considerations for magnetron sputtering power supplies." *2018 International IEEE Conference and Workshop in Óbuda on Electrical and Power Engineering (CANDO-EPE)*. IEEE, 2018.

la C2.6

1. Strnad, Gabriela, et al. "Effect of phosphate/fluoride electrolytes on mass and dimensional stability of anodization bath manufactured by FDM." *MATEC Web of Conferences*. Vol. 137. EDP Sciences, 2017.
2. Strnad, Gabriela, et al. "Optimized anodization setup for the growth of TiO2 nanotubes on flat surfaces of titanium based materials." *MATEC Web of Conferences*. Vol. 137. EDP Sciences, 2017.

la C6.3

1. Strnad, G., Cazacu, R., Chetan, P., Florea, A. S. G., & Peti, F. (2017). Effect of phosphate/fluoride electrolytes on mass and dimensional stability of anodization bath manufactured by FDM. In MATEC Web of Conferences (Vol. 137, p. 02012). EDP Sciences.

la C6.4

1. Strnad, G., Cazacu, R., Chetan, P., Florea, A. S. G., & Peti, F. (2017). Effect of phosphate/fluoride electrolytes on mass and dimensional stability of anodization bath manufactured by FDM. In MATEC Web of Conferences (Vol. 137, p. 02012). EDP Sciences.

la C6.5

1. Strnad, G., Cazacu, R., Chetan, P., German-Sallo, Z. and Jakab-Farkas, L.: *Optimized anodization setup for the growth of TiO2 nanotubes on flat surfaces of titanium based materials*. MATEC Web Conf. 137: 1-6.(2017).
2. Strnad, G., Cazacu, R., Chetan, P., Florea, A. S. G. and Peti, F.: *Effect of phosphate/fluoride electrolytes on mass and dimensional stability of anodization bath manufactured by FDM*. Modern Technologies in Manufacturing. N. Balc. Cedex A, E D P Sciences. 137.(2017).

la C6.10

1. Strnad, G., Cazacu, R., Chetan, P., Florea, A. S. G. and Peti, F.: Effect of phosphate/fluoride electrolytes on mass and dimensional stability of anodization bath manufactured by FDM. Modern Technologies in Manufacturing. N. Balc. Cedex A, E D P Sciences. 137.(2017).

la C6.11

1. Strnad, Gabriela, et al. "Contact angle measurement on medical implant titanium based biomaterials." *Procedia Technology* 22 (2016): 946-953.

la C6.15

1. Malau, Viktor and Arifudin, Latif: Vickers Microhardness Dependence Load and Determining of Tensile Strength of HQ 705 Steel from Microhardness Curves. Applied Mechanics and Materials, Trans Tech Publ. 842: 43-52.(2016)
2. Parmar, Ronaksinh: Characterization Of Fracture Toughness In Amorphous Diamond Like Carbon Thin Films And Coatings.(2015)
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K. Alte realizări semnificative.

Iunie 2007 - stagiu de pregătire în domeniul tehnologiei de vid, Gesellschaft für Schwerionenforschung mbH (GSI), Ultra High Vacuum Department. – 2 sapt.

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Data,
09.10.2025

Semnătura,

