

**Europass
Curriculum Vitae****Alina Vladescu****Personal information**

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Nationality Romanian

Date of birth December 17th, 1977

Gender female

Work experienceDates **July 2016- present**

Occupation or position held Associate Researcher

Main activities and responsibilities Experiment performance for the deposition and advanced surface characterization of thin films; elaboration of scientific papers; papers presentation in scientific events.

Name and address of employer *National Research Tomsk Polytechnic University, Tomsk, Russia*

Type of business or sector Higher Education/ Research and development

Dates **December 2015- present**

Occupation or position held Research Scientist I (CSI)

Main activities and responsibilities Experiment performance for the deposition and advanced surface characterization of thin films; elaboration of technical / scientific reports; elaboration of scientific papers; papers presentation in scientific events.

Name and address of employer *National Institute of Research and Development for Optoelectronics, INOE 2000 Magurele, Ilfov county, 409 Atomistilor St., PO BOX MG 05, 077125, Romania*

Type of business or sector Research and development

Dates **February 2015- present**

Occupation or position held Associate Professor

Main activities and responsibilities Didactic activities: laboratories and seminars for the following courses: Surface Engineering

Name and address of employer *University Politehnica of Bucharest, Material Science and Engineering Faculty, Spl. Independentei, no. 313, Bucharest, Romania*

Type of business or sector Higher Education

Dates **April 2013 - December 2015**

Occupation or position held Research Scientist II (CSII)

Main activities and responsibilities Experiment performance for the deposition and advanced surface characterization of thin films; elaboration of technical reports; elaboration of scientific papers; papers presentation in scientific events.

Name and address of employer	<i>National Institute of Research and Development for Optoelectronics, INOE 2000 Magurele, Ifov county, 409 Atomistilor St., PO BOX MG 05, 077125, Romania</i>
Type of business or sector	Research and development
Type of business or sector	Research and development
Dates	May 2009 - April 2013
Occupation or position held	Research Scientist III (CSIII)
Main activities and responsibilities	Deposition and advanced surface characterization of thin films; elaboration of technical / scientific reports; elaboration of scientific papers; papers presentation in scientific events.
Name and address of employer	<i>National Institute of Research and Development for Optoelectronics, INOE 2000 Magurele, Ifov county, 409 Atomistilor St., PO BOX MG 05, 077125, Romania</i>
Type of business or sector	Research and development
Type of business or sector	Research and development
Dates	May 2005 - May 2009
Occupation or position held	Young scientific researcher (CS)
Main activities and responsibilities	Vacuum technologies – reactive deposition methods of hard, anticorrosive and biocompatible thin films, advanced surface characterization of deposited thin films, elaboration of technical / scientific reports; elaboration of scientific papers
Name and address of employer	<i>National Institute of Research and Development for Optoelectronics, INOE 2000 Magurele, Ifov county, 409 Atomistilor St., PO BOX MG 05, 077125, Romania</i>
Type of business or sector	Research and development
Dates	September 2002 - May 2005
Occupation or position held	Research assistant (ACS)
Main activities and responsibilities	Experiment performance for the deposition and characterization of thin films; elaboration of technical / scientific reports; elaboration of scientific papers; papers presentation in scientific events.
Name and address of employer	<i>National Institute of Research and Development for Optoelectronics, INOE 2000 Magurele, Ifov county, 409 Atomistilor St., PO BOX MG 05, 077125, Romania</i>
Type of business or sector	Research and development
Education and training	
Dates	2011
Title of qualification awarded	PhD degree in Materials Science
Principal subjects/occupational skills covered	PhD thesis title: <i>Synthesis of the nanostructured biocompatible thin films deposited by the cathodic arc method</i>
Name and type of organisation providing education and training	Doctoral school of Materials Science, University Politehnica of Bucharest, Romania
Dates	2002 - 2004
Title of qualification awarded	Master degree
Principal subjects/occupational skills covered	Biomaterials
Name and type of organisation providing education and training	<i>The Department of Bioengineering and Biotechnology, University Politehnica of Bucharest, Romania</i>
Dates	1997 - 2002
Title of qualification awarded	Bachelor degree / engineer
Principal subjects/occupational skills covered	Materials Science and Physical Metallurgy
Name and type of organisation	<i>Materials Science and Engineering Faculty, University Politehnica of Bucharest, Romania</i>

providing education and training	
Dates	October 2002 – December 2002
Principal subjects/occupational skills covered	Working abroad as a young researcher in field of electric arc spectroscopy in vacuum
Name and type of organisation providing education and training	University Orleans, Polytech Orleans, GREMI Laboratory (Groupe de Recherche sur l'Energétique des Milieux Ionisés), Orleans, France,
Dates	September 2004
Title of qualification awarded	Course participation diploma
Principal subjects/occupational skills covered	Fundamentals and Trends in Plasma Surface Processing
Name and type of organisation providing education and training	<i>PSE 2004 International PhD Tutorial, Garmisch-Partenkirchen, Germania</i>
Dates	September 2005
Title of qualification awarded	International Summer School on Vacuum participation diploma
Principal subjects/occupational skills covered	The VEIT 2005 International Summer School on Vacuum, Electron and Ion Technologies
Name and type of organisation providing education and training	<i>Institute of electronics Bulgarian academy of sciences and Institute of ion beam physics and materials research, Rossendorf Research Center Germany, Sunny Beach, Bulgaria</i>
Dates	June 2006
Title of qualification awarded	Course diploma
Principal subjects/occupational skills covered	LabVIEW program
Name and type of organisation providing education and training	<i>National Instruments from University Politehnica of Bucharest, Romania</i>
Dates	October 2006
Title of qualification awarded	Project Manager
Principal subjects/occupational skills covered	Project Management
Name and type of organisation providing education and training	<i>Center for the Improvement of Management Performance, Romania</i>
Dates	June 2006 - June 2008
Title of qualification awarded	English course diploma
Principal subjects/occupational skills covered	Intensive English Course
Name and type of organisation providing education and training	<i>British Council Romania</i>
Dates	25 June 2009- 26 June 2009
Title of qualification awarded	Course diploma
Principal subjects/occupational skills covered	Course in Scientific Word Processing
Name and type of organisation providing education and training	<i>University Politehnica of Bucharest, Romania</i>
Dates	4 February 2013 – 27 February 2013
Title of qualification awarded	Research stage
Principal subjects/occupational skills covered	Research stage on Corrosion behaviour of advanced Fe based alloys
Name and type of organisation	<i>Leibniz Institute for Solid and Materials Research Dresden (IFW Dresden),</i>

providing education and training	Germany											
Dates	8 April 2014											
Title of qualification awarded	Course diploma											
Principal subjects/occupational skills covered	"Writing great papers in international journals – An introduction for researchers" course sustained by Paul Trevorrow (Executive Journals Editor Wiley) and Marta Dyson (Account Manager for Central Europe Global Research Wiley)											
Name and type of organisation providing education and training	Anelis Plus and S.C. E-NFORMATION S.R.L, Romania											
Personal skills and competences												
Mother tongue(s)	Romanian											
Other language(s)	English, French											
Self-assessment	Understanding				Speaking				Writing			
European level (*)	Listening		Reading		Spoken interaction		Spoken production					
English	C 1	Proficient user	C 2	Proficient user	C 2	Proficient user	C 1	Proficient user	C 2	Proficient user		
French	B 1	Independent user	B 1	Independent user	A 1	Basic user	A 1	Basic user	A 1	Basic user		
(*) Common European Framework of Reference for Languages												
Social skills and competences	highly sociable person, enjoys meeting new people, team work.											
Organisational skills and competences	<ul style="list-style-type: none"> PROJECT LEADER IN ACADEMIC GRANTS: 4 international and 7 national projects <p><u>International projects:</u></p> <ol style="list-style-type: none"> M-ERA-Net no.171/01.07.2020 ISIDE: "Innovative Strategies for bioactive/antibacterial advanced prostheses", UEFISCDI, 135.000 euro, 2020-2023 - leader of partner P3 (INOE). ERA.Net RUS Plus– INNOVATION no. 68/2018 CoatDegraBac: "Biodegradable and non-biodegradable orthopedic implants with bactericidal coatings and controllable degradability", UEFISCDI, 60.000 euro, 2018-2021 – Coordinator of project. Eranet RUS-PLUS No.44/09/03/2016 INTELBIOCOMP: "Fabrication and investigation of new hybrid scaffolds with the controlled porous hierarchy for bone tissue engineering", UEFISCDI, 68.000 euro, 2016-2017 – leader of partner P3 (INOE). Bilateral Cooperation Romania-Turkey no.599/2013: „Bioactive coatings for functionalization of the medical implants”, UEFISCDI, 4.000 euro, 2013-2014 – Romanian coordinator. <p><u>National projects:</u></p> <ol style="list-style-type: none"> PN-III-P4-ID-PCE-2020-1264 – PCE95/2021 - <i>New generation of Biocompatible Thin Film Metallic Glasses</i>, UEFISCDI, 247 000 euro, 2021-2023- coordinator PCCDI60/2018 - <i>Obtaining and expertise of new biocompatible materials for medical applications (MedicalMetMat)</i>, UEFISCDI, 81.270 euro, 2018-2021 – leader of partner P7 (INOE); PN-III-P2-2.1-PED-2016-1854 - 171PED/03.01.2017 - <i>Novel multifunctional coatings with improved bioactive, anticorrosive and degradation features (DegraCoat)</i>, UEFISCDI, 64.400 euro, 2017-2018, – leader of partner P1 (INOE); PN-II-PT-PCCA-2013-4-1958: "Multifunctional coatings for load bearing implants made of a novel titanium-based alloy"(OSSEOPROMOTE), UEFISCDI, 246.000 euro, 2014-2017 – coordinator; PN-II-PT-PCCA-2013-4-2267: "Biodegradable Implant from Magnesium Alloys used in Foot &Ankle Surgery"(BIOMAGIA), UEFISCDI, 45.150 euro, 2014-2017 – leader of partner P1 (INOE); PN-II-PT-PCCA-2011-3.2-1240: "Biocompatible coatings for enhanced bond strength of ceramic to metal in dental restorations" (Coat4dent), UEFISCDI, 203.300 euro, 2012-2016, 											

	<p>– leader of partner P1 (INOE);</p> <p>7. PN-II-RU-TE-2011-3-0284; „<i>Bioactive and antimicrobial coatings for dental and orthopaedic implants biofunctionalization</i>” (BIOCOATING), UEFISCDI, 169.300 euro, 2011-2014 – coordinator;</p> <p>8. Grant TD no. 92: “<i>Improvement of the orthopaedic implants properties by synthesis of the mono and multilayered biocompatible thin films</i>”, CNCSIS, 18.000 euro, 2005-2007 – coordinator.</p> <p>Team member: international projects: 10 International RDI Projects; national projects: over 40 National CDI Projects (Ceres, Relansin, Biotehn, Matnantech, Core Program, Innovation, Partnership-CNMP) – details on http://recast.inoe.ro.</p> <p>I have organised some meetings of teams from international/national projects.</p> <p>During my PhD fellowship, I have organised a series of seminars on surface research methods, for the students of University Politehnica of Bucharest</p> <ul style="list-style-type: none"> • <u>SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS</u> <p>2015 – 10 Bachelor Students and 7 Master Student present University Politehnica of Bucharest, Faculty of Material Science and Engineering, Department of Metallic Materials Science, Physical Metallurgy, Romania</p> <p>2013-2020 Lidia R.Constantin PhD student at “Politehnica” University of Bucharest of prof.dr.eng. Mihai Cojocaru from 2013, for experimental part of her PhD thesis; co- authored paper with the PL in the field of L.R.Constantin thesis: <i>Arabian J Chem. 10 (2017) 1015</i>, doi: 10.1016/j.arabjc.2016.09.009; <i>Proc. I. Mech. Eng. H 233(2019)158</i>, doi: 10.1177/1350650118774132</p> <p>2013 – Mihaela Dinu PhD student at “Politehnica” University of Bucharest of 2016 prof.dr.eng. Mihai Cojocaru from 2013, for experimental part of her PhD thesis; one co- authored paper with the PL in the field of M.Dinu thesis: <i>Key Eng. Mat. 587 (2014) 275</i>, doi: http://www.scientific.net/KEM.587.275</p> <p>2011 – Anca Parau, PhD student at “Politehnica” University of Bucharest of 2012 prof.dr.eng. Simona Zamfir from 2009 to 2012, for experimental part of her PhD thesis; one co-authored paper with the PL in the field of A.Parau thesis: <i>Materialwiss. Werkst. 45 (2014) 91</i>, doi:10.1002/mawe.201400191</p> <ul style="list-style-type: none"> • <u>MEMBER IN SCIENTIFIC COMMITTEES OF INTERNATIONAL CONFERENCES</u> <p>2016 <i>Technical Program Committee</i> of 2016 Global Conference on Polymer and Composite Materials (PCM 2016), China</p> <p>2016 <i>International Technical Committee for the conference</i> “The 7th International Conference “Biomaterials, Tissue Engineering & Medical Devices” BIOMMEDD’2016”, Constanta, Romania</p> <p>2017 <i>Technical Program Committee</i> of The 4th Global Conference on Polymer and Composite Materials (PCM 2017), China</p> <p>2018 <i>Technical Program Committee</i> of The 5th Global Conference on Polymer and Composite Materials (PCM 2018), Kitakyushu, Japan</p> <p>2019 <i>Technical Program Committee</i> of The 6th Global Conference on Polymer and Composite Materials (PCM 2019), Bangkok, Thailand</p> <p>2019 <i>Technical Program Committee</i> of 2019 International Conference on Metals and Alloys (CMA 2019), Beijing, China</p> <p>2019 <i>Co-organizer of Symposium Immunomodulation of TERMIS European Chapter Meeting 2019, Rhodes, Greece</i></p> <p>2020 <i>Technical Program Committee</i> of The 7th Global Conference on Polymer and Composite Materials (PCM 2020), China, online</p> <ul style="list-style-type: none"> • <u>INSTITUTIONAL RESPONSIBILITIES</u> <p>2015–present Graduate Student Advisor, University Politehnica of Bucharest, Faculty</p>
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	<p>2015–present of Material Science and Engineering, Romania Responsible of the Functional Characterization of Materials Laboratory National Institute of Research and Development for Optoelectronics, Department of for Advanced Surface Processing and Analysis by Vacuum Technologies, Romania</p> <p>2012–present Member - Examination Commissions for Young Scientists (ACS, CS, CSIII), National Institute of Research and Development for Optoelectronics, Romania</p> <p>2016 President - Examination Commissions for Technicians, National Institute of Research and Development for Optoelectronics, Romania</p> <p>2017 – present Member of Scientific Council of INOE and responsible of Scientific Seminar of INOE</p>
Computer skills and competences	Microsoft Office, CorelDraw, Origin programs, Adobe (Illustrator, Reader), CorelDraw, MathCAD, LabView, Publisher and FrontPage (web design)
Other skills and competences: Certificates	Standard certificate in teaching and learning Scientific Word Processing
Additional information	
Professional Societies Membership	<p>2017– present: American Association for Science and Technology (AASCIT), USA</p> <p>2015 – present: European Thin Solid Films, Germany</p> <p>2015 – present Romanian Tribology Association, Romania</p> <p>2003 – present: Romanian Society for Biomaterials, Romania</p> <p>2010 – present: National Association of Dental Engineer, Romania</p>
Reviewer	<p>2009 – present: ISI journals: Applied Surface Science, Surface Coating & Technology, Materials, Science and Engineering B, Materials Characterization</p> <p>2012 – present: BDI journal: Key Engineering Materials</p> <p>2011: Proceeding of the 38th International Conference on Metallurgical Coatings and Thin Films'2011, California.</p>
Awards	<p>2007: Silver Medal at 35th International Exhibition of Inventions of Geneva, 18 – 22 April 2007 - patent application no. A/00671/28.07.2004 (patent no. 122099/2008), "<i>Biocompatible multilayer material for covering medical implants</i>".</p> <p>2006: Prize for the best poster at International Conference on Biomaterials & Medical Devices - BiomMedD'2006, 9 – 11 November 2006, Iasi, Romania</p> <p>2004: Prize for the best presentation at section of „Young Researchers involved in MATNANTECH Program”, 5th National Symposium of MATNANTECH Program, 27-31 October 2004, Sinaia, Romania</p> <p>2010: Travel Award BiomMedD'2010 (International Conference on Biomaterials & Medical Devices), 23 – 25 September 2010, Sinaia, Romania</p> <p>2018: Gold Medal at 46th International Exhibition of Inventions of Geneva, 11 – 15 April 2018 - patent application no. A/00865/19.11.2015 "<i>Nanostructured multicomponent thin layers based on zirconium carbide with silicon and transition metal addition, resistant to wear and corrosion</i>".</p> <p>2018: Gold medal at The 22nd International Exhibition of Inventions "INVENTICA 2018", 27-29 June 2018, Iasi, Romania with patent application no. A/00865/19.11.2015 "<i>Nanostructured multicomponent thin layers based on zirconium carbide with silicon and transition metal addition, resistant to wear and corrosion</i>".</p> <p>2018: Bronze medal at The International Exhibition of Inventions and Innovations „Traian Vuia” 2018, 13-15 June 2018, Timisoara, Romania with patent application no. A/00865/19.11.2015 "<i>Nanostructured multicomponent thin layers based on zirconium carbide with silicon and transition metal addition, resistant to wear and corrosion</i>".</p> <p>2018: Gold medal at The International Exhibition of Inventions and Innovations „Traian Vuia” 2018, 13-15 June 2018, Timisoara, Romania with patent application no. RO130253/2020 "<i>Thin layers meant to improve ceramic-to-metal adherence in prosthetic dental restoration</i>".</p> <p>2018: Gold medal at The 22nd International Exhibition of Inventions "INVENTICA 2018", 27-29 June 2018, Iasi, Romania, with patent application no. RO130253/2020 "<i>Thin layers meant to</i>".</p>

	<p><i>improve ceramic-to-metal adherence in prosthetic dental restoration</i>".</p> <p>2018: Gold medal at The 22nd International Exhibition of Inventions "INVENTICA 2018", 27-29 June 2018, Iasi, Romania with patent application no. "Improvement of orthopedic implants bioactivity by doped hydroxyapatite coatings"</p> <p>2018: Gold medal at The International Exhibition of Inventions and Innovations „Traian Vuia” 2018, 13-15 June 2018, Timisoara, Romania with patent RO128758/2018 "Thin bio-active layers for coating orthopedic implants"</p> <p>2020: Diploma of Achievement – Medal Inventica 2020 at The 24th International Exhibition of Inventions - INVENTICA 2020, 29 -31 July 2020, Iasi, Romania, ONLINE for patent application no. A/00120/ 04.03.2020 "Nanostructured thin films used in industrial applications and/or medicine"</p> <p>2020: Gold Medal at International Exhibition for Inventions and Innovations „TRAIAN VUIA” Timișoara, edition VI, 13-15 October 2020, Timișoara, Romania, ONLINE for patent application no. A/00120/ 04.03.2020 "Nanostructured thin films used in industrial applications and/or medicine"</p> <p>2020: Gold Medal at Scientific Researcher, Innovation and Inventions Exhibition - PRO INVENT, Edition XVIII, 18-20 November 2020, Cluj-Napoca, Romania, ONLINE for patent application no. A/00120/ 04.03.2020 "Nanostructured thin films used in industrial applications and/or medicine"</p> <p>2020: Gold Medal at Scientific Researcher, Innovation and Inventions Exhibition - PRO INVENT, Edition XVIII, 18-20 November 2020, Cluj-Napoca, Romania, ONLINE for patent application no. A/00700/31.10.2019 "Bioactive materials based on hydroxyapatite with antibacterial abilities"</p> <p>2020: Gold Medal at International Exhibition for Inventions and Innovations„TRAIAN VUIA”, edition VI, 13-15 October 2020, Timișoara, Romania, ONLINE for patent application no. A/00700/31.10.2019 "Bioactive materials based on hydroxyapatite with antibacterial abilities"</p>
Book Editor	2015: C.M Cotrut, <i>Biofunctionalization of the metallic medical devices surfaces</i> , Ed. Tehnopress, Iasi, pp. 1-268, ISBN 978-606-687-183-9; Eds. A.Vladescu, M.Braic
Journal Guest Editor	2019– present: Coatings , MDPI (ISSN 2079-6412; CODEN: COATED) 2020: Science and Engineering of Composite Materials , WALTER De Gruyter, England (ISSN: 0334-181x) 2017: Composite Interfaces vol.24 (3), 2017, Taylor & Francis Ltd, England 2016– present: Frontiers in Materials , Switzerland
Editorial Board ISI journal	2016– present: Journal of Coating Science and Technology ISSN (online): 2369-3355
Expert evaluator European project calls	2016 National Science Centre, Poland 2015 M-ERA.NET program call 2015, Austria
Total number of citations (without self-citations) and the Hirsch Index	According to the THOMSON REUTERS, until August 2021, the total number of citations (without self-citations) = 1348, Hirsch index = 23
Results of research scientific activities	4 chapter books, international publishing houses 2 books, national publishing houses 126 papers published in ISI journals 14 papers published in BDI journals 17 granted patents, 6 pending patents 219 communications at international/national conferences
Annexes	Annex 1: List of selected papers/patents/book

LIST OF PAPERS/PATENTS/BOOK**BOOKS:**

1. **Alina Vladescu**, M. Badea, S.C. Padmanabhan, G. Paraschiv, L. Floroian, L. Gaman, M.A. Morris, J.L. Marty, C.M. Cotrut, Nanomaterials for medical application and their antimicrobial advantages, Materials for biomedical engineering, Bioactive Materials for Antimicrobial, Anticancer, and Gene Therapy, Editor: A.M. Holban, A. Grumezescu, Elsevier, 2019, pp. 409-430, ISBN: 9780128184356, doi: 10.1016/B978-0-12-818435-6.00015-3.
2. M. Dinu, S. Franchi, V. Pruna, C.M. Cotrut, V. Secchi, M. Santi, I. Titorencu, C. Battocchio, G. Iucci, **Alina Vladescu**, Chapter 2.4: Ti-Nb-Zr system and its surface biofunctionalization for biomedical applications, In Titanium in Medical and Dental Applications, **Woodhead Publishing Series in Biomaterials-Elsevier**, Eds. Francis H. Froes, Ma Qian, 2018, pp. 175-200 (ISBN 978-0-12-812456-7). **Corresponding Author**
3. R.Surmenev, **Alina Vladescu**, M.Surmeneva, A.Ivanova, M.Braic, I. Grubova, C.M.Cotrut, Chapter 12: Radio Frequency Magnetron Sputter Deposition As A Tool For Surface Modification Of Medical Implants, In Modern Technologies for Creating the Thin-film Systems and Coatings, N.Nikitenkov, A.M.Ali Hashhash, **Eds. InTech**, Croatia 2017, pp. 213-248, ISBN 978-953-51-5056-5; DOI: 10.5772/66396. **Corresponding Author**
4. **Alina Vladescu**, M.A.Surmeneva, C.M.Cotrut, R.A.Surmenev, I.V.Antoniac, Bioceramic Coatings for Metallic Implants in Handbook of Bioceramics and Biocomposites, **Springer International Publishing**, 2015, pp 1-31, DOI: 10.1007/978-3-319-09230-0_31-1.
5. C.M.Cotrut, **Alina Vladescu**, S.Ciucu, D.M.Vranceanu, Surface engineering – guidance for laboratory lessons used for students, Ed.Tehnopress, Iasi, Romania 2015, pp.1-65 (ISBN 978-606-687-191-4) – Romanian language.
6. **Alina Vladescu**, Straturi subtiri nanostructurate din nitru ale unor metale de tranzitie, in structuri mono si multistrat, Ed.Tehnopress Iasi, Romania, 2014, pp. 3-309, ISBN 978-606-687-152-5 – Romanian language. **Corresponding Author**

ISI JOURNALS

1. Evaluation of surface modification techniques on the ability of apatite formation and corrosion behavior in synthetic body fluid: an in vitro study, C.M. Cotrut, I.C. Ionescu, E. Ungureanu, A. Berbecaru, R.I. Zamfir, **Alina Vladescu**, D.M. Vranceanu, Surfaces and Interfaces 22 (2021) 1-12
2. Spin coating immobilisation of C-N-TiO₂ co-doped nano catalyst on glass and application for photocatalysis or as electron transporting layer for perovskite solar cells, E.S.M. Mouele, S. Ngqoloda, S. Pescetelli, A. Di Carlo, M. Dinu, **Alina Vladescu**, A.C. Parau, A. Agresti, M. Braic, C.J. Arendse, L.F. Petrik, Coatings 10 (2020) 1-24
3. Anticorrosion coated stainless steel as durable support for C-N-TiO₂ photo catalyst layer, E.S.M. Mouele, M. Dinu, A.C. Parau, **Alina Vladescu**, M.T.Z. Myint, H.H. Kyaw, J. Sabahi, M. Al-Abri, S. Dobretsov, M.A.A. Belushi, R. Al-Mamari, M. Braic, L.F. Petrik, Materials 13 (2020) 1-27
4. Tribological properties of alloyed TiSi-stainless steel carbide coatings deposited by reactive cathodic arc method, M Braic, **Alina Vladescu**, A. Parau, C.I. Pruncu, V. Braic, Wear 460-461 (2020) 1-10 **Corresponding Author**
5. Effect of calcination time on the physicochemical properties and photocatalytic performance of carbon and nitrogen co-doped TiO₂ nanoparticles, E.S.M. Mouele, M. Dinu, F. Cummings, O.O. Fatoba, M.T.Z. Myint, H.H. Kyaw, A.C. Parau, **Alina Vladescu**, M.G. Francesconi, S. Pescetelli, A. Di Carlo, A. Agresti, M. Al-Abri, S. Dobretsov, M. Braic, L.F. Petrik, Catalysts 10 (2020) 1-27
6. Magnesium doped hydroxyapatite-based coatings obtained by pulsed galvanostatic electrochemical deposition with adjustable electrochemical behavior, D.M. Vranceanu, I.C. Ionescu, E. Ungureanu, M.O. Cojocaru, **Alina Vladescu**, C.M. Cotrut, Coatings 10 (2020) 1-15 **Corresponding Author**
7. Hydroxyapatite surfaces functionalized with a self-assembling peptide: XPS, RAIRS and NEXAFS study, V. Secchi, S. Franchi, M. Dettin, A. Zamuner, K. Beranova, **Alina Vladescu**, C. Battocchio, V. Graziani, L. Tortora, G. Iucci, Nanomaterials 10 (2020) 1-14
8. Improvement of CoCr alloy characteristics by Ti-based carbonitride coatings used in orthopedic applications, M. Dinu, I. Pana, P. Scripca, I.G. Sandu, C. Vitelaru, **Alina Vladescu**, Coatings, 10 (2020) 1-17 **Corresponding Author**

9. In vitro corrosion and tribocorrosion performance of biocompatible carbide coatings, I. Pana, **Alina Vladescu**, L.R. Constantin, I.G. Sandu, M. Dinu, C.M. Cotrut, *Coatings* 10 (2020) 1-16
10. A strategy for alleviating micro arcing during HiPIMS deposition of DLC coatings, C. Vitelaru, A.C. Parau, L.R. Constantin, A.E. Kiss, **Alina Vladescu**, A. Sobetskii, T. Kubart, *Materials*, 13 (2020) 1-13
11. Extraordinary optical transmission through titanium nitride-coated microsphere lattice, A.M. Gherman, **Alina Vladescu**, A.E. Kiss, C. Farcau, *Photonics and Nanostructures - Fundamentals and Applications*, 38 (2020) 1-6
12. Characterization of electron beam deposited Nb2O5 coatings for biomedical applications, M. Dinu, L. Braic, S.C. Padmanabhan, M.A. Morris, I. Titorencu, V. Pruna, A. Parau, N. Romanchikova, L.F. Petrik, **Alina Vladescu**, *Journal of the Mechanical Behavior of Biomedical Materials*, 103 (2020) 1-13
13. In vitro activity assays of sputtered HAp coatings with SiC addition in various simulated biological fluids, **Alina Vladescu**, A. Parau, I. Pana, C.M. Cotrut, L.R. Constantin, V. Braic, D.M. Vranceanu, *Coatings*, 9 (2019) 1-17
14. Investigation of cast and annealed Ti25Nb10Zr alloy as material for orthopedic devices, R. Bolmaro, A.C. Parau, V. Pruna, M.A. Surmeneva, L.R. Constantin, M. Avalos, C.M. Cotrut, R. Tutuianu, M. Braic, D.V. Cojocaru, I. Dan, S. Croitoru, R.A. Surmenev, **Alina Vladescu**, *Journal of Material Research and Technology*, 8 (2019) 3399-3414 **Corresponding Author**
15. The effect of hybrid coatings based on hydrogel, biopolymer and inorganic component on the corrosion behavior of titanium bone implants, M. Saveleva, **Alina Vladescu**, C.M. Cotrut, L. Van der Meeren, M. Surmeneva, R. Surmenev, B. Parakhonskiy, A. Skirtach, *Journal of Materials Chemistry B*, 7 (2019) 7, 6778-6788
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