



<b>Europass Curriculum Vitae</b>	
<b>Alina Vladescu</b>	
<b>Personal information</b>	
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Researcher ID	<a href="http://www.researcherid.com/rid/B-5605-2011">http://www.researcherid.com/rid/B-5605-2011</a>
Orcid ID	<a href="http://orcid.org/0000-0001-5770-4541">orcid.org/0000-0001-5770-4541</a>
Nationality	Romanian
Date of birth	December 17 <sup>th</sup> , 1977
Gender	female
<b>Work experience</b>	
Dates	<b>July 2016- present</b>
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	<i>National Research Tomsk Polytechnic University, Tomsk, Russia</i>
Type of business or sector	Higher Education/ Research and development
Dates	<b>December 2015- present</b>
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	<i>National Institute of Research and Development for Optoelectronics, INOE 2000 Magurele, Ilfov county, 409 Atomistilor St., PO BOX MG 05, 077125, Romania</i>
Type of business or sector	Research and development
Dates	<b>February 2015- present</b>
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	<i>University Politehnica of Bucharest, Material Science and Engineering Faculty, Spl. Independentei, no. 313, Bucharest, Romania</i>
Type of business or sector	Higher Education
Dates	<b>April 2013 - December 2015</b>
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	<b>May 2009 - April 2013</b>
Occupation or position held	Research Scientist III ( <b>CSIII</b> )
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	<b>May 2005 - May 2009</b>
Occupation or position held	Young scientific researcher ( <b>CS</b> )
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	<b>September 2002 - May 2005</b>
Occupation or position held	Research assistant ( <b>ACS</b> )
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
<b>Education and training</b>	
Dates	<b>2011</b>
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	<b>2002 - 2004</b>
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	<b>1997 - 2002</b>
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	<b>October 2002 – December 2002</b>
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	<b>September 2004</b>
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	<b>September 2005</b>
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	<b>June 2006</b>
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	<b>October 2006</b>
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	<b>June 2006 - June 2008</b>
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	<b>25 June 2009- 26 June 2009</b>
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	<b>4 February 2013 – 27 February 2013</b>
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											
<b>Personal skills and competences</b>												
Mother tongue(s)	Romanian											
Other language(s)	English, French											
Self-assessment	<b>Understanding</b>				<b>Speaking</b>				<b>Writing</b>			
European level (*)	Listening		Reading		Spoken interaction		Spoken production					
<b>English</b>	C 1	Proficient user	C 2	Proficient user	C 2	Proficient user	C 1	Proficient user	C 2	Proficient user		
<b>French</b>	B 1	Independent user	B 1	Independent user	A 1	Basic user	A 1	Basic user	A 1	Basic user		
(*) <a href="#">Common European Framework of Reference for Languages</a>												
Social skills and competences	highly sociable person, enjoys meeting new people, team work.											
Organisational skills and competences	<ul style="list-style-type: none"> <li><b>PROJECT LEADER IN ACADEMIC GRANTS: 4</b> international and 7 national projects</li> </ul> <p><u>International projects:</u></p> <ol style="list-style-type: none"> <li>M-ERA-Net no.171/01.07.2020 ISIDE: "<a href="#">Innovative Strategies for bioactive/antibacterial advanced prostheses</a>", UEFISCDI, 135.000 euro, 2020-2023 - <b>leader of partner P3 (INOE)</b>.</li> <li>ERA.Net RUS Plus– INNOVATION no. 68/2018 CoatDegraBac: "<a href="#">Biodegradable and non-biodegradable orthopedic implants with bactericidal coatings and controllable degradability</a>", UEFISCDI, 60.000 euro, 2018-2021 – <b>Coordinator of project</b>.</li> <li>Eranet RUS-PLUS No.44/09/03/2016 INTELBIOCOMP: "<a href="#">Fabrication and investigation of new hybrid scaffolds with the controlled porous hierarchy for bone tissue engineering</a>", UEFISCDI, 68.000 euro, 2016-2017 – <b>leader of partner P3 (INOE)</b>.</li> <li><a href="#">Bilateral Cooperation Romania-Turkey no.599/2013: „Bioactive coatings for functionalization of the medical implants”</a>, UEFISCDI, 4.000 euro, 2013-2014 – <b>Romanian coordinator</b>.</li> </ol> <p><u>National projects:</u></p> <ol style="list-style-type: none"> <li>PN-III-P4-ID-PCE-2020-1264 – PCE95/2021 - <a href="#">New generation of Biocompatible Thin Film Metallic Glasses</a>, UEFISCDI, 247 000 euro, 2021-2023- <b>coordinator</b></li> <li>PCCDI60/2018 - <a href="#">Obtaining and expertise of new biocompatible materials for medical applications (MedicalMetMat)</a>, UEFISCDI, 81.270 euro, 2018-2021 – <b>leader of partner P7 (INOE)</b>;</li> <li>PN-III-P2-2.1-PED-2016-1854 - 171PED/03.01.2017 - <a href="#">Novel multifunctional coatings with improved bioactive, anticorrosive and degradation features (DegraCoat)</a>, UEFISCDI, 64.400 euro, 2017-2018, – <b>leader of partner P1 (INOE)</b>;</li> <li>PN-II-PT-PCCA-2013-4-1958: "<a href="#">Multifunctional coatings for load bearing implants made of a novel titanium-based alloy</a>"( OSSEOPROMOTE), UEFISCDI, 246.000 euro, 2014-2017 – <b>coordinator</b>;</li> <li>PN-II-PT-PCCA-2013-4-2267: "<a href="#">Biodegradable Implant from Magnesium Alloys used in Foot &amp;Ankle Surgery</a>"( BIOMAGIA), UEFISCDI, 45.150 euro, 2014-2017 – <b>leader of partner P1 (INOE)</b>;</li> <li>PN-II-PT-PCCA-2011-3.2-1240: "<a href="#">Biocompatible coatings for enhanced bond strength of ceramic to metal in dental restorations</a>" (Coat4dent), UEFISCDI, 203.300 euro, 2012-2016,</li> </ol>											

	<p>– <b>leader of partner P1 (INOE);</b></p> <p>7. <a href="#">PN-II-RU-TE-2011-3-0284</a> „<i>Bioactive and antimicrobial coatings for dental and orthopaedic implants biofunctionalization</i>” (BIOCOATING), UEFISCDI, 169.300 euro, 2011-2014 – <b>coordinator;</b></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 – <b>coordinator.</b></p> <p><b>Team member:</b> international projects: 10 International RDI Projects; national projects: over 40 National CDI Projects (Ceres, Relansin, Biotehn, Matnantech, Core Program, Innovation, Partnership-CNMP) – details on <a href="http://recast.inoe.ro">http://recast.inoe.ro</a>.</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"> <li>• <b><u>SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS</u></b></li> </ul> <p>2015 – <b>10 Bachelor Students and 7 Master Student</b> present University Politehnica of Bucharest, Faculty of Material Science and Engineering, Department of Metallic Materials Science, Physical Metallurgy, Romania</p> <p>2013-2020 <b>Lidia R.Constantin</b> PhD student at “Politehnica” University of Bucharest of prof.dr.eng. Mihai Cojocaru from 2013, for experimental part of her PhD thesis; <b>co- authored paper with the PL</b> in the field of <b>L.R.Constantin</b> thesis: <i>Arabian J Chem. 10 (2017) 1015</i>, doi: <a href="https://doi.org/10.1016/j.arabjc.2016.09.009">10.1016/j.arabjc.2016.09.009</a>; <i>Proc. I. Mech. Eng. H 233(2019)158</i>, doi: <a href="https://doi.org/10.1177/1350650118774132">10.1177/1350650118774132</a></p> <p>2013 – <b>Mihaela Dinu</b> PhD student at “Politehnica” University of Bucharest of 2016 prof.dr.eng. Mihai Cojocaru from 2013, for experimental part of her PhD thesis; <b>one co- authored paper with the PL</b> in the field of <b>M.Dinu</b> thesis: <i>Key Eng. Mat. 587 (2014) 275</i>, doi: <a href="http://www.scientific.net/KEM.587.275">http://www.scientific.net/KEM.587.275</a></p> <p>2011 – <b>Anca Parau</b>, 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; <b>one co-authored paper with the PL</b> in the field of <b>A.Parau</b> thesis: <i>Materialwiss. Werkst. 45 (2014) 91</i>, doi:<a href="https://doi.org/10.1002/mawe.201400191">10.1002/mawe.201400191</a></p> <ul style="list-style-type: none"> <li>• <b><u>MEMBER IN SCIENTIFIC COMMITTEES OF INTERNATIONAL CONFERENCES</u></b></li> </ul> <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 &amp; 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"> <li>• <b><u>INSTITUTIONAL RESPONSIBILITIES</u></b></li> </ul> <p>2015–present <b>Graduate Student Advisor</b>, University Politehnica of Bucharest, Faculty</p>
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	<p>2015–present of Material Science and Engineering, Romania <b>Responsible of the Functional Characterization of Materials Laboratory</b> National Institute of Research and Development for Optoelectronics, Department of for Advanced Surface Processing and Analysis by Vacuum Technologies, Romania</p> <p>2012–present <b>Member - Examination Commissions for Young Scientists (ACS, CS, CSIII)</b>, National Institute of Research and Development for Optoelectronics, Romania</p> <p>2016 <b>President - Examination Commissions for Technicians</b>, National Institute of Research and Development for Optoelectronics, Romania</p> <p>2017 – present <b>Member of Scientific Council of INOE and responsible of Scientific Seminar of INOE</b></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
<b>Additional information</b>	
<b>Professional Societies Membership</b>	<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>
<b>Reviewer</b>	<p>2009 – present: ISI journals: Applied Surface Science, Surface Coating &amp; Technology, Materials, Science and Engineering B, Materials Characterization</p> <p>2012 – present: BDI journal: Key Engineering Materials</p> <p>2011: Proceeding of the 38<sup>th</sup> International Conference on Metallurgical Coatings and Thin Films'2011, California.</p>
<b>Awards</b>	<p>2007: <b>Silver Medal</b> at 35<sup>th</sup> 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: <b>Prize for the best poster</b> at International Conference on Biomaterials &amp; Medical Devices - BiomMedD'2006, 9 – 11 November 2006, Iasi, Romania</p> <p>2004: <b>Prize for the best presentation</b> at section of „Young Researchers involved in MATNANTECH Program”, 5<sup>th</sup> National Symposium of MATNANTECH Program, 27-31 October 2004, Sinaia, Romania</p> <p>2010: <b>Travel Award</b> BiomMedD'2010 (International Conference on Biomaterials &amp; Medical Devices), 23 – 25 September 2010, Sinaia, Romania</p> <p>2018: <b>Gold Medal</b> at 46<sup>th</sup> 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: <b>Gold medal</b> 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: <b>Bronze medal</b> 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: <b>Gold medal</b> 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: <b>Gold medal</b> 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: <b>Gold medal</b> 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: <b>Gold medal</b> 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: <b>Diploma of Achievement</b> – 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: <b>Gold Medal</b> 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: <b>Gold Medal</b> 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: <b>Gold Medal</b> 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: <b>Gold Medal</b> 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>
<b>Book Editor</b>	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
<b>Journal Guest Editor</b>	2019– present: <b>Coatings</b> , MDPI (ISSN 2079-6412; CODEN: COATED) 2020: <b>Science and Engineering of Composite Materials</b> , WALTER De Gruyter, England (ISSN: 0334-181x) 2017: <b>Composite Interfaces</b> vol.24 (3), 2017, Taylor & Francis Ltd, England 2016– present: <b>Frontiers in Materials</b> , Switzerland
<b>Editorial Board ISI journal</b>	2016– present: <b>Journal of Coating Science and Technology</b> ISSN (online): 2369-3355
<b>Expert evaluator European project calls</b>	2016 National Science Centre, Poland 2015 M-ERA.NET program call 2015, Austria
<b>Total number of citations (without self-citations) and the Hirsch Index</b>	According to the THOMSON REUTERS, until August 2021, the <b>total number of citations (without self-citations) = 1348, Hirsch index = 23</b>
<b>Results of research scientific activities</b>	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
<b>Annexes</b>	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.Ciuca, 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 nitruiri 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. Synthesis and Investigation of Antibacterial Activity of Thin Films Based on TiO<sub>2</sub>-Ag and SiO<sub>2</sub>-Ag with Potential Applications in Medical Environment, C.S.. Adochite, C. Vitelaru, A.C. Parau, A.E. Kiss, I. Pana, **Alina Vladescu**, S. Costinas, M. Moga, R. Muntean, M. Badea, M. Idomir, Nanomaterials, 12 (2022) 1-11
2. Degradation of Sulfamethoxazole by Double Cylindrical Dielectric Barrier Discharge System combined with Ti/C-N-TiO<sub>2</sub> supported Nanocatalyst, E.S.M. Mouele, T.Z.M. Myo, H.H. Kyaw, J.O. Tijani, M. Dinu, A.C. Parau, I. Pana, Y.E. Ouardi, J. Al-Sabahi, M. Al-Belushi, E. Sosnin, V. Tarasenko, C. Zhang, T. Shao, T.V. Iordache, S. Teodor, K. Laatikainen, **Alina Vladescu**, M. Al-Abri, A. Sarbu, M. Braic, V. Braic, S. Dobretsov, L.F. Petrik, Journal of Hazardous Materials Advances, 5 (2022) 1-16
3. Silver-Containing Thin Films on Transparent Polymer Foils for Antimicrobial Applications, C. Vitelaru, A.C. Parau, A.E. Kiss, I. Pana, M. Dinu, L.R. Constantin, **Alina Vladescu**, L.E. Tonofrei, C.S. Adochite, S. Costinas, L. Rogozea, M. Badea, M.E. Idomir, Coatings, 12 (2022) 1-14
4. SiC- and Ag-SiC-Doped Hydroxyapatite Coatings Grown Using Magnetron Sputtering on Ti Alloy for Biomedical Application, I. Pana, V. Braic, **Alina Vladescu**, R. Ion, A.C. Parau, N.C. Zoita, M. Dinu, A.E. Kiss, A. Cimpean, M. Braic, Coatings, 12 (2022) 1-24
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DATE: March 2022