

## CURRICULUM VITAE

<b>1. Family Name:</b>	Avdiaj	
<b>2. First Name:</b>	Sefer	
<b>3. Nationality:</b>	Kosovar & Albanian	
<b>4. Date of Birth</b>	07.06.1976	
<b>5. Gender:</b>	M	
<b>6. Contact details:</b>		
	<i>Email:</i>	<a href="mailto:sefer.avdiaj@uni-pr.edu">sefer.avdiaj@uni-pr.edu</a> ,
	<i>Tel:</i>	+377 44 609 918
<b>7. Education Degree:</b>		
	<i>Institution:</i>	University of Prishtina, Faculty of Natural Sciences and Mathematics, Department of Physics
	<i>Degree Date:</i>	24/07/2001
	<i>Degree :</i>	Engineer of Physics
	<i>Institution:</i>	University of Tirana, Faculty of Natural Sciences, Department of Physics
	<i>Degree Date:</i>	02/07/2008
	<i>Degree/ Master :</i>	Master of science (Msc)
	<i>Institution:</i>	Jozef Stefan International Postgraduate School
	<i>Degree Date:</i>	29/03/2012
	<i>Degree / Doctorate :</i>	Doctor of science (PhD)
<b>8. Academic Degree:</b>	Associated Professor	
	<i>Institution:</i>	University of Prishtina. Department of Physics
	<i>Degree Date:</i>	09.10.2018
<b>9. Scientific Publications</b>		
<b>Scientific journal</b>		
	<i>Title of paper</i>	<i>Journal name</i> <i>Year / Volume / Pages / link</i>
	<b>1. S.Avdiaj, J.Setina, N.Syla: Modeling of the piezoelectric effect using the finite-element method (FEM)</b>	Materials and Technology (Materiali in Tehnologije)      2009 / 43 / /283 – 291 <a href="http://mit.imt.si/Revija/izvodi/mit096/avdiaj.pdf">http://mit.imt.si/Revija/izvodi/mit096/avdiaj.pdf</a>
	<b>2. S.Avdiaj, J.Setina: Numerical solving of Poisson equation in 3D by using finite difference method</b>	Journal of Engineering and Applied Sciences      2010 / 5 / 14-18 <a href="http://www.medwelljournals.com/abstract/?doi=jeasci.2010.14.18">http://www.medwelljournals.com/abstract/?doi=jeasci.2010.14.18</a>
	<b>3. S.Avdiaj, B.Setina-Batic, B.Erjavec, J.Setina: Oxygen diffusion in the non-</b>	Materials and Technology (Materiali in      2011 / 45 / 33-37 <a href="http://mit.imt.si/Revija/izvodi/mit11/avdiaj.pdf">http://mit.imt.si/Revija/izvodi/mit11/avdiaj.pdf</a>

<i>evaporable getter St 707 during heat treatment</i>	Tehnologije)	
<b>4. S.Avdiaj, B.Erjavec:</b> <i>Outgassing of hydrogen from a stainless steel vacuum chamber</i>	Materials and Technology (Materiali in Tehnologije)	2012 / 46 / 161-167 <a href="http://mit.imt.si/Revija/izvodi/mit122/avdiaj.pdf">http://mit.imt.si/Revija/izvodi/mit122/avdiaj.pdf</a>
<b>5. F.Aliaj, N.Syla, S.Avdiaj, T.Dilo:</b> <i>The effect of bias voltage on the microstructure and mechanical properties of arc evaporated (Ti,Al)N hard coatings</i>	Bulletin of Materials Science –c. Indian Academy of Sciences	2013 / 36(3) / 429-435 <a href="https://link.springer.com/article/10.1007%2Fs12034-013-0479-7">https://link.springer.com/article/10.1007%2Fs12034-013-0479-7</a>
<b>6. S.Avdiaj, J.Setina, B.Erjavec:</b> <i>Measurement of conductance of a sapphire sealed variable leak valve</i>	Vacuum	2013 / 98 / 8-11 <a href="https://www.sciencedirect.com/science/article/pii/S0042207X12004289">https://www.sciencedirect.com/science/article/pii/S0042207X12004289</a>
<b>7. J.Setina, S.Avdiaj, B.Erjavec:</b> <i>Volume ratio measurements of vacuum vessels containing nonevaporable getters</i>	Vacuum	2013 / 92 / 20-25 <a href="https://www.sciencedirect.com/science/article/pii/S0042207X12004939">https://www.sciencedirect.com/science/article/pii/S0042207X12004939</a>
<b>8. F.Aliaj, N.Syla, T.Dilo S.Avdiaj:</b> <i>The Effect of Aluminium on the Microstructure and Mechanical Properties of Arc-evaporated Ti<sub>1-x</sub>Al<sub>x</sub>N Coating Deposited on Cemented Carbide Substrates</i>	Physica Macedonica	2012 / 43 / 113-119 <a href="http://dfrm.org/documents/physica-macedonica/t16.pdf">http://dfrm.org/documents/physica-macedonica/t16.pdf</a>
<b>9. S.Avdiaj, B.Erjavec, J.Setina:</b> <i>Volume determination of vacuum vessels by gas expansion method</i>	MAPAN Springer	2015 / 30(3) / 175-178 <a href="https://link.springer.com/article/10.1007%2Fs12647-015-0137-1">https://link.springer.com/article/10.1007%2Fs12647-015-0137-1</a>
<b>10. S.Avdiaj, J.Setina:</b> <i>Flowmeter for very low gas flows of inert gases</i>	Measurement - Elsevier	2017 / 111 / 384-388 <a href="https://www.sciencedirect.com/science/article/pii/S026322411730502X">https://www.sciencedirect.com/science/article/pii/S026322411730502X</a>
<b>11. S.Avdiaj, Y. Yang, K. Jousten, T. Rubin:</b> <i>Diffusion constant and solubility of Helium in ULE glass at 23<sup>0</sup>C</i>	The Journal of Chemical Physics	2018 / 148 / 116101-1,2 <a href="https://aip.scitation.org/doi/abs/10.1063/1.5019015?journalCode=jcp">https://aip.scitation.org/doi/abs/10.1063/1.5019015?journalCode=jcp</a>

#### Acknowledgments from scientific publications:

I was acknowledged for the contribution to this paper:

Authors: **K. Jousten, S. Putzke, J. Buthig:** Title: *Partial pressure measurements standard for characterizing partial pressure analysers and measuring outgassing rates*, Published in Journal of vacuum science and technology A, 2015 / 33 / 061603\_1-061603\_10. Link: <https://avs.scitation.org/doi/abs/10.1116/1.4935432>

<b>Abstracts from the International and National Conferences</b>		
<i>Title of paper</i>	<i>Conference name</i>	<i>Year / Venue</i>
<b>1. S.Avdiaj:</b> Determination of the phase-shift using the Mach-Zehnder interferometer	Takimi i Dytë i Institutit Alb-Shkenca	2007/ Pristina, Kosovo
<b>2.S.Avdiaj, Naim Syl:</b> Modeling and simulation of piezoelectric sensor	Takimi i Tretë i Institutit Alb-Shkenca	2008 / Tirana, Albania
<b>3. S.Avdiaj, J.Setina, A. Jonuzaj:</b> Numerical solving of poisson equation in 3D by finite difference method (FDM)	17 <sup>th</sup> Conference on Materials and Technology	2009 / Portoroz, Slovenia
<b>4. S.Avdiaj, B.Setina-Batic, J.Setina:</b> Investigation of oxygen diffusion in St 707 non-evapoable getter material	17 <sup>th</sup> Conference on materials and technology	2009 / Portoroz, Slovenia
<b>5. S.Avdiaj, J.Setina:</b> Modeling of piezoelectric effect by finite element method (FEM)	16 <sup>th</sup> International Scientific Meeting on Vacuum Science and Technique	2009 / Bohinj, Slovenia
<b>6. S.Avdiaj, J.Setina, B.Erjavec:</b> Volume ratio measurements of vacuum vessels containing nonevaporable getters	13 <sup>th</sup> Joint Vacuum Conference	2010 / Štrbské Pleso High Tatras, Slovak Republic
<b>7. S.Avdiaj, J.Setina:</b> Extension of the range of primary vacuum-calibration methods using non-evaporable getters	18 <sup>th</sup> Conference on materials and technology	2010 / Portoroz, Slovenia
<b>8. J.Setina, M.Sefa, S.Avdiaj, B.Erjavec, D.Hudoklin:</b> Modeling of water vapor diffusion in elastomers with impact in humidity and vacuum measurements	Joint International Symposium on Temperature, Humidity, Moisture and Thermal Measurements in Industry and Science TEMPMEKO & ISHM	2010 / Portoroz, Slovenia
<b>9. S.Avdiaj, B.Setina-Batic, J.Setina:</b> Investigation of oxygen diffusion in St 707 non evaporable getter material. V: 14th European Conference on Composite Materials	14 <sup>th</sup> European conference on Composite materials	2010 / Budapest, Hungary
<b>10. S.Avdiaj, J.Setina:</b> Testing of non- evaporable getter pump for extremely high vacuum calibration chamber	19 <sup>th</sup> Conference on materials and technology	2011 / Portoroz, Slovenia
<b>11. S.Avdiaj, J.Setina:</b> Outgassing of hydrogen from stainless steel vacuum chamber	18 <sup>th</sup> International Scientific Meeting on Vacuum Science and Technique	2011 / Bohinj, Slovenia
<b>12. S.Avdiaj, J.Setina, B.Erjavec:</b> Measurement of conductance of a sapphire sealed variable leak valve	14 <sup>th</sup> Joint Vacuum Conference, 12 <sup>th</sup> European Vacuum Conference, 11 <sup>th</sup> Annual Meeting of the German Vacuum Society, 19 <sup>th</sup> Croatian-Slovenian Vacuum Meeting,	2012 / Dubrovnik, Croatia

<b>13. S.Avdiaj, J.Setina:</b> Extension of the range of primary vacuum-calibration methods with the use of nonevaporable getters	20 <sup>th</sup> Jubilee Conference on materials and technology (INVITED SPEAKER)	2012 / Portoroz, Slovenia
<b>14. S.Avdiaj, S.Skenderi, N.Syla, F.Aliaj:</b> Applications of getter pumps to maintain vacuum in sealed microelectromechanical systems	International Conference on Mechatronics Engineering and Robotics	2012 / Pristina, Kosovo
<b>15. N.Syla, F.Aliaj, S.Avdiaj:</b> Modeling the RC electric circuit with Finite Element Method	1 <sup>st</sup> International Eurasian Conference on Mathematical Sciences and Applications (IECMSA)	2012 / Pristina, Kosovo
<b>16. F.Aliaj, N.Syla, T.Dilo, S.Avdiaj:</b> The effect of aluminum on the microstructure and mechanical properties of arc-evaporated Ti <sub>1-x</sub> Al <sub>x</sub> N coatings deposited on cemented carbide substrates	IX Conference of the Society of Physicists of Macedonia	2012 / Ohrid, Macedonia
<b>17. S.Avdiaj, J.Setina, B.Erjavec:</b> Comparison of diffusion and recombination limited model of experimental results for outgassing of hydrogen from a stainless steel vacuum chamber	19 <sup>th</sup> International Vacuum Congress	September 9-13, 2013 / Paris, France <a href="https://secure.key4events.com/key4register/abstractexport.aspx?e=164">https://secure.key4events.com/key4register/abstractexport.aspx?e=164</a>
<b>18. S.Avdiaj, N.Syla, F.Aliaj:</b> Modeling of oxygen diffusion profile in St 707 non-evaporable getter material	15 <sup>th</sup> Joint Vacuum Conference	June 15-20, 2014 / Vienna, Austria <a href="http://www.iap.tuwien.ac.at/jvc15/media/pdfs/boa_jvc15_2014_06_11.pdf">http://www.iap.tuwien.ac.at/jvc15/media/pdfs/boa_jvc15_2014_06_11.pdf</a>
<b>19. S.Avdiaj, J.Setina, B.Erjavec:</b> Volume determination of vacuum vessels by gas expansion method	15 <sup>th</sup> Joint Vacuum Conference	June 15-20, 2014 / Vienna, Austria <a href="http://www.iap.tuwien.ac.at/jvc15/media/pdfs/boa_jvc15_2014_06_11.pdf">http://www.iap.tuwien.ac.at/jvc15/media/pdfs/boa_jvc15_2014_06_11.pdf</a>
<b>20. N. Syla, H.Oettel, G.Schreiber, F.Aliaj, S.Avdiaj:</b> Residual stresses in the precipitation layer of gas nitrided alloy steels	Thermam 2014 International Conference on Thermo-physical and Mechanical Properties of Advanced Materials,	June 12-15, 2014 / Izmir, Turkey
<b>21. S. Avdiaj, J. Setina, Bojan Erjavec.</b> Construction of flowmeter for very low gas flows of inert gases	IMEKO XXI World Congress	August 30, 2015 – September 4, 2015, Prague
<b>22. S. Avdiaj, F.Aliaj, N.Syla:</b> Modelling the oxygen diffusion profile in St 707 non evaporable getter material	Diffusion fundamentals	August 26-28, 2013 - Leipzig, Germany <a href="http://ul.qucosa.de/fileadmin/data/qucosa/documents/18370/diff_fund_20%282013%2982.pdf">http://ul.qucosa.de/fileadmin/data/qucosa/documents/18370/diff_fund_20%282013%2982.pdf</a>
<b>23. S.Avdiaj, J. Setina:</b> Uncertainty evaluations of Hydrogen outgassing from a	20 <sup>th</sup> International Vacuum Congress	August 21-26, 2016 – Busan, Korea <a href="http://www.ivc20.com/data/IVC-20_Final%20Program.pdf">http://www.ivc20.com/data/IVC-20_Final%20Program.pdf</a>

stainless steel vacuum chamber		
<b>24. S.Avdiaj, A. Zeqiraj:</b> Uncertainty evaluations of Hydrogen outgassing from a stainless steel vacuum chamber	The volume ratio measurements of static expansion system applied to Kosovo medium vacuum standard	August 21-26, 2016 – Busan, Korea <a href="http://www.ivc20.com/data/IVC-20_Final%20Program.pdf">http://www.ivc20.com/data/IVC-20_Final%20Program.pdf</a>
<b>25. S.Avdiaj, J. Setina:</b> Extension of the range of primary vacuum calibration methods with the use of nonevaporable getters	IX Conference of the Society of Physicists of Macedonia	September 22-25, 2016 – Ohrid, Macedonia
<b>26. Sefer Avdiaj:</b> Comparison of sensitivity measurements with different modes in QMS	Workshop on "Towards more reliable partial pressure and outgassing rate measurements"	January 30 - February 1, 2017 - Berlin, <a href="https://www.ptb.de/emrp/ws1-sip01-presentations.html">https://www.ptb.de/emrp/ws1-sip01-presentations.html</a>
<b>27. Janez Setina, Sefer Avdiaj, Bojan Erjavec:</b> Calibration of extractor gauges down to 10 <sup>-12</sup> mbar	3 <sup>rd</sup> Workshop on the Operation of Large Vacuum systems	June 11-14, 2011 - Oak Ridge, Tennessee, USA, <a href="https://public.ornl.gov/sns/workshop/olav2011/presentations/Setina%20Janez%20-%20OLAV_III_Setina.pdf">https://public.ornl.gov/sns/workshop/olav2011/presentations/Setina%20Janez%20-%20OLAV_III_Setina.pdf</a>
<b>28. S.Avdiaj, K.Jousten</b> Measurement of sensitivity and minimum detectable partial pressure with different modes of QMS according to ISO TS 20175	24 <sup>th</sup> International Scientific Meeting on Vacuum Science and Technique	May 18-19, 2017, Zadar, Croatia
<b>29. S.Avdiaj, J. Hendricks, J. Ricker:</b> The quantum Pascal: Measuring pressure and vacuum with light	12 <sup>th</sup> Conference of the Society of Physicists of Macedonia – CSPM 2018	September 27-30, 2018, Oher, Macedonia
<b>30. S.Avdiaj, J. Setina:</b> Extension of the range of primary vacuum calibration methods with the use of non-evaporable getters.	9 <sup>th</sup> Vacuum Symposium, Vacuum Expo 2018	October 10-11, 2018, Coventry, UK
<b>31. S.Avdiaj, J. Hendricks, J. Ricker:</b> Determination of viarial coefficients used for optical pressure standard – FLOC	21 <sup>st</sup> International Vacuum Congress	July 1-5, 2019, Malmo, Sweden.
<b>32. S.Avdiaj, J. Hendricks, J. Ricker.</b>	26 <sup>th</sup> International Scientific Meeting on Vacuum Science and Technique"	May 16-17, Krk, Croatia
<b>33. S.Avdiaj: Research group in the field of nanophysics: Department of Physics-University of Prishtina.</b>	1 <sup>st</sup> workshop of NanoAlb	January 23, Academy of Sciences, Tirana, Albania
<b>Other publications</b>		
<i>Title of Book</i>	<i>Journal name</i>	<i>Year / Volume / Pages</i>
<i>Experimental Methods Author: Less Kirkup</i>	Translated form English language to Albanian language	2014
<i>International system of Units (based on fundamental constant)</i>	In Albanian Language	2019/ 1 / 106
<b>Scientific projects</b>	Role in the project	Supporter

<i>Volume determination of vacuum vessels by gas expansion method</i>	Leader	Ministry of Education, Science and Technology of Republic of Kosovo
<i>Exposure to radioactive gas radon in environments schools of Kosovo</i>	Member	Ministry of Education, Science and Technology of Republic of Kosovo
<i>Donation of experimental devices</i>	Leader	Uppsala University - Sweden
<i>18SIB04 QuantumPascal</i>	Member	Euramet
Zhvillimi i metrologjisë primare në Kosovë – Matja e koeficientit të ngjeshmërisë së gazeve inerte dhe azotit	Leader	Ministry of Education, Science and Technology of Republic of Kosovo
<b>10. Work experience record:</b>		
<i>Dates:</i>	<b>September 2000 – November 2003</b>	
<i>Location:</i>	Malisheve	
<i>Name of the Institution:</i>	Gymnasium “Abdyl Frasheri”	
<i>Position:</i>	Teacher of Physics	
<i>Description:</i>	I gave the lectures on physics subjects mostly in the field of modern physics	
<i>Dates:</i>	<b>July 2003 - February 2009</b>	
<i>Location:</i>	Prishtina	
<i>Name of the Institution:</i>	University of Prishtina, Faculty of Electrical Engineering and Computing	
<i>Position:</i>	Teaching assistant	
<i>Description:</i>	I have held numerical and experimental exercises for students of the first year from general physics: Physics 1 and Physics 2	
<i>Dates:</i>	<b>November 2004 – May 2006</b>	
<i>Location:</i>	Pristina	
<i>Name of the Institution:</i>	Ministry of Trade and Industry – Department of Metrology	
<i>Position:</i>	Metrologist of Electrical Measurements	
<i>Description:</i>	Verification and declaration of conformity procedures for electrical energy meters	
<i>Dates:</i>	<b>February 2009 – January 2012</b>	
<i>Location:</i>	Ljubljana – Škofja Loka (Slovenia)	
<i>Name of the Institution:</i>	Institute of Metals and Technology – Lotric Company	
<i>Position:</i>	Young Researcher (IMT) & Head of Research group at Lotric Company	
<i>Description:</i>	Research work related to my PhD (IMT) Research work in metrology field (uncertainty calculations for different measurements and calibrations – Lotric Company)	

<i>Dates:</i>	<b>October 2011 – October 2013</b>
<i>Location:</i>	Prishtina
<i>Name of the Institution:</i>	University of Prishtina, Faculty of Mathematics and Natural Sciences
<i>Position:</i>	Teaching Assistant
<i>Description:</i>	I am giving numerical and experimental exercises for students of the first year from general physics
<i>Dates:</i>	<b>October 2013 - continues</b>
<i>Location:</i>	Pristina
<i>Name of the Institution:</i>	University of Pristina, Faculty of Mathematics and Natural Sciences
<i>Position:</i>	Assistant Professor (Docent) –
<i>Description:</i>	Lectures in General Physics, Metrology, Experimental Methods in Physics, An Introduction to Nanoscience, Physics (for math students)
<b>11. Education and training:</b>	
<i>Dates:</i>	23.02.2005 - 03.03.2005
<i>Title of qualification awarded:</i>	Certified metrologist of electrical measurements
<i>Principal subjects/occupational skills covered:</i>	Verification and declaration of conformity procedures for electrical energy meters
<i>Name and type of institution providing education and training:</i>	Metrology Institute of the Republic of Slovenia
<i>Level of national and international classification:</i>	International
<i>Dates:</i>	04.06.2008 – 10.06.2008
<i>Title of qualification awarded:</i>	Certified
<i>Principal subjects/occupational skills covered:</i>	Contemporary Teaching in Higher Education
<i>Name and type of institution providing education and training:</i>	Friberg-Alexander-Universitat, Erlangen-Nurnberg & University of Prishtina
<i>Level of national and international classification:</i>	International
<i>Dates:</i>	15.12.2017 – 16.12.2017

<i>Title of qualification awarded:</i>	Certified
<i>Principal subjects/occupational skills covered:</i>	Teaching in Higher Education (Mesimdhenia ne Arsimin e Larte)
<i>Name and type of institution providing education and training:</i>	University of Prishtina, Center for Teaching Excellence
<i>Level of national and international classification:</i>	National
<b><i>Awards and Membership:</i></b>	
<i>Member</i>	European Society for Composite Materials (ESCM)
<i>Member</i>	German Vacuum Society (DVG)
<i>European Union</i>	European Social Fund. Framework of the Operational Programme for Human Resources Development for the period 2007-2013
<i>University of Prishtina</i>	Scholarships for one year
<i>Municipality of Malisheva</i>	Three years scholarship
<i>Ministry of Education, Science and Technology of Republic of Kosovo</i>	Mobility grant to participate in the “20 <sup>th</sup> Jubilee Conference on Materials and Technology” organized by Institute of Metals and Technology of Slovenia.
<i>Ministry of Education, Science and Technology of Republic of Kosovo</i>	Three weeks <b>mobility grant</b> to study “Gas Flow in the micro and vacuum systems” in IUSTI Laboratory, Aix University of Marseille, France.
<i>DAAD Scholarship</i>	Scholarship from German Academic Service -DAAD to perform a research in the field of vacuum metrology at Physikalische-Technische Bundesanstalt – PTB
<i>Fulbright scholarship</i>	Six months scholarship form Fulbright as a Fulbright Scholar to perform research in the field of pressure and vacuum metrology at National Institute of Standards and Technology – NIST