

CURRICULUM VITAE

1. **First name:** Tomas
2. **Family name:** Tamulevičius
3. **Work address:** K. Baršausko g. 59 (A219) LT-51423 Kaunas Lithuania
4. **Phone:** +370 662 26308
5. **E-mail:** tomas.tamulevicius@ktu.lt
6. **Education**

Institution	Year	Level of professional skills, scientific degree
Kaunas University of Technology, Faculty of Fundamental Science	2006	Bachelor in Material sciences
Kaunas University of Technology, Faculty of Fundamental Science	2008	Master in Materials Science, specialization functional materials
Kaunas University of Technology, Institute of Materials Science	2012	Ph. D. degree in Physics

7. Work experience

Date	Employer
2006 – 2007	Laboratory assistant at Institute of Physical Electronics of Kaunas University of Technology.
2007 – 2009	Engineer at Institute of Physical Electronics of Kaunas University of Technology
Since 2008	Engineer at Kaunas University of Technology Faculty of Design and Technologies, SEM/EDS laboratory.
2009 – 2014	Associate researcher at Institute of Materials Science of Kaunas University of Technology
2012 – 2013	Invited lecturer at Physics department of Kaunas University of Technology
Since 2013	Lecturer at Physics department of Kaunas University of Technology
Since 2014	Researcher at Institute of Materials Science of Kaunas University of Technology

8. **Main activities:** Formation of micro and nanostructures for optical applications employing different lithography techniques including periodic one and two dimensional structures patterned with holographic lithography, surface ablation with ultra-short laser pulses, contact lithography and dry etching. Modeling of optical responds of such structures as well as practical applications for laser beam splitters, refractive index sensors, acoustic microscope calibration blocks, templates for capillary force assisted deposition of well-organized micro and nano particle arrays. Visualization of surface and elemental analysis with scanning electron microscopy. Thin film optical characterization with spectroscopic ellipsometry and ultra-fast pump-probe spectroscopy.

9. Other experiences

<ul style="list-style-type: none"> • Organizing committee member (year 2008-2016) annual international conference school „Advanced materials and technologies “. • Organizing committee member (year 2013-2016) of annual Kazimieras Baršauskas physics contest for pupils 	
Project activity (five key projects)	
2016	Project of interdisciplinary research in priority areas “Calibration of 3D acoustic

	microscope visualization employing buried lithographic microstructures“ PP35/161, financed by KTU R&D and Innovation Fund. <i>Project leader</i>
2015	Project of interdisciplinary research in priority areas “Research and developments in creation of spatial resolution calibration block for acoustic microscope (MicroSound)“, PP41/1502 financed by KTU R&D and Innovation Fund. <i>Project leader</i>
2014	Joint project of KTU and LSMU “Applications of Nanocomposite Films for Innovative Antimicrobial Coatings and Optical Biosensors (NanoBioSensor)“ PP34/144. <i>Project leader</i>
2015-2017	Lithuania-Japan bilateral cooperation project “Plasmonic properties of silver nanoparticles and self-assembled clusters (PLAS)“, No. LJB-15-007. Finance by Research council of Lithuania. <i>Principal project implementer</i> .
2013-2015	Project implemented under Human Resource Development Action Programme 2007-2013 “Fundamental investigation of surface relief and molecular forces influence on the self-organization of nanoparticles and nanofibers (PARMO)“, No. VP1-3.1-ŠMM-10-V-02-028. <i>Principal project implementer</i>
Preparation of scientists	
PhD supervisor of Aušrinė Jurkevičiūtė. Preliminary title of the thesis „ Plasmonic structures for high sensitivity sensor applications” 2015 – 2019 m.	
<i>Student’s book chapters</i>	
<ul style="list-style-type: none"> • Guobienė, M. Andrulėvičius, S. Tamulevičius, <u>T. Tamulevičius</u>, A. Tamulevičienė, I. Prosyčėvas, E. Navickas. Medžiagu mokslas : laboratoriniai darbai : mokomoji knyga. Kaunas : Dakra, 2013. 130 p. ISBN 9786094520211. • B. Abakevičienė, D. Adlienė, G. A. Adlys, V. A. Ambrasas, M. Andrulėvičius, L. Augulis, J. Bartašius, R. P. Brazdžiūnas, K. Bočkutė S. Civinskas, J. Čyviene J. Dudonis, A. Galdikas, T. Giedrys, A. Grigonis, A. Iljinas, L. Jakevičius, S. L. Jarmalavičiūtė B. Jasiulionis, S. Joneliūnas, A. Jotautis, G. Laukaitis, L. Giedrius, S. Mičkevicius, V. Minialga, B. Mockaitienė, T. Moskaliovienė, R. Naujokaitis, I. Požela, J. Puišo, L. Puodžiukynas, Č. Radvilavičius, A. Repčienė, D. Rutkūnienė, Ž. Rutkunienė, V. Stankus, V. Sukackas, A. Tamašauskas, A. Tamulevičienė, <u>T. Tamulevičius</u>, S. Tamulevičius, V. Vaidelys, D. Virbukas, P. P. Žvirblis, R. Plaipaitė-Nalivaiko, S. Mockevičienė, V. Adomonis, R. Žostautienė G. Kairaitis, A. Pocienė, A. Petraitienė, V. Vinčiunaite, L. Vigricaitė, B. G. Urbonavičius, M. Sriubas, M. Černauskas, N. Vaičiunaitė, V. Virbickas, D. Bareišienė, R. Cibulskytė, K. Gruodė. Respublikinių prof. Kazimiero Baršausko fizikos konkursų moksleiviams uždaviniai ir jų sprendimai (1996-2014) : mokomoji knyga / Kauno technologijos universitetas. Fizikos katedra. Kaunas : Technologija, 2015. 312 p. ISBN 9786090211854. 	
Scientific activity (five key publications)	
<ul style="list-style-type: none"> • D. Peckus, <u>T. Tamulevičius</u>, Š. Meškiniš, A. Tamulevičienė, O. Ulčinas, V. Gulbinas, S. Tamulevičius // Linear and Nonlinear Absorption Properties of Diamond Like Carbon Doped with Cu Nanoparticles // <i>Plasmonics</i> (2016) doi:10.1007/s11468-016-0227-0 • <u>T. Tamulevičius</u>, I. Gražulevičiūtė, D. Urbonas, M. Gabalis, R. Petruškevičius, S. Tamulevičius // Numerical and experimental analysis of optical response of sub-wavelength period structure in carbonaceous film for refractive index sensing // <i>Optics Express</i> 22 (22) p 27462-27475 (2014) 10.1364/OE.22.027462 • T. Juknius, <u>T. Tamulevičius</u>, I. Gražulevičiūtė, I. Klimienė, A. P. Matusėvičius, S. Tamulevičius // In-situ measurements of bacteria resistance to antimicrobial agents employing leaky mode sub-wavelength diffraction grating // <i>Sensors and Actuators B: Chemical</i> 204 p 799-806 (2014) doi:10.1016/j.snb.2014.08.049 • <u>T. Tamulevičius</u>, I. Gražulevičiūtė, A. Jurkevičiūtė, S. Tamulevičius //The Calculation, Fabrication and Verification of Diffraction Grating Based on Laser Beam Splitters Employing a White Light Scatterometry Technique // <i>Optics and Lasers in Engineering</i> 51 (10) p 1185-1191 (2013) doi:10.1016/j.optlaseng.2013.04.001 	

<ul style="list-style-type: none"> M. J. K. Klein, C. Kuemin, <u>T. Tamulevičius</u>, M. Manning, H. Wolf // Note: A microfluidic chip setup for capillarity-assisted particle assembly // <i>Review of Scientific Instruments</i> 83, 086109 (2012) doi:10.1063/1.4749846
<p>Participation in study process</p> <ul style="list-style-type: none"> T150B118 Materials Analysis Methods (lab works); T150B210 Phenomena of Modern Optics and Nanophotonics (lectures, practical tasks, lab works); T155M111 Surface Engineering and Nanotechnology (lectures, practical tasks, lab works); T152M001 Materials Science (lectures, lab works); Supervisor of bachelor and master practices, research projects and final degree project.
<p>Invited lectures</p> <ul style="list-style-type: none"> May 12, 2014 -15. 5-th international conference „Radiation Interaction With Materials: Fundamentals and Applications 2014“, Kaunas, Lithuania. Title “Diffraction Grating Based Optical Biosensors” March 7, 2015 Seminar for teachers „School and university - 2015 International year of light and light based technologies “ (20 – th national physics prof. K. Baršauskas contests for pupils) Kaunas Lithuania. Title „Modern Optics and Photonics“
<p>Training?</p> <ul style="list-style-type: none"> July 1, 2011 – September 30 internship at IBM Research - Zurich (Switzerland)
<p>Evaluator</p> <ul style="list-style-type: none"> Horizon 2020 evaluator
<p>Membership in national and international associations, commissions and committees</p> <ul style="list-style-type: none"> European Materials Research Association (E-MRS) 2010-2015 Lithuanian Materials Research Association (Lt-MRS) since 2008
<p>Awards</p> <ul style="list-style-type: none"> Year 2005 awarded by prof. Ignas Končius name maecenas scholarship as the best Faculty student; Year 2006 awarded by Petras Vileišis sculptural portrait and premium by Lithuanian Confederation of Industrialists; Year 2006 awarded by citation of Lithuanian Academy of Sciences in the students scientific work contest for the work: Optical Evaluation of Geometrical Parameters of Micro-Relief Structures (Material Engineering); Year 2008 second place in the Universities students (masters) and their scientific advisers encouragement competition for the master thesis “Formation Methods and New Application Fields of Periodical Structures”; Year 2008 awarded by Lithuanian Academy of Sciences in the students scientific work contest for the work written together with Asta Šileikaitė: “Formation of periodical structures and its use for optical sensors” (Material Engineering); Third place in the KTU contest of the best PhD student of the year 2010; Grant from Lithuanian Academy of Sciences for research of young scientist year 2013 – 2014; KTU young scientist contest winner for 2014; Graduate Student Award of the international conference „E-MRS 2012 Spring Meeting“, Strasbourg, France; Best poster presentations in international and national conferences: “Advanced Materials and Technologies” 2006, 2010, Palanga Lithuania; „Medžiagų inžinerija’2007, 2009, 2010“, Kaunas, Lithuania. Award for best interdisciplinary KTU project of 2015.

10. Language skills (5 „excellent“, 1 „poor“)

Mother tongue Lithuanian

Language	Reading	Speaking	Writing
English	5	5	5
German	2	1	1

(Date)

(Name, Family name, Signature)