

CURRICULUM VITAE

1. **Name:** Sigitas
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3. **Date of birth:** 02.12.1955

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7. Education, scientific degrees

Doctor Habilitus (Materials Science), Kaunas University of Technology 1994 Ph.D., Vilnius University, 1984 (Thesis: "Physical aspects of ion beam interaction with solids") Engineer-physicist, Moscow Engineering Institute of Physics, Russia (former USSR) 1979
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8. Professional experience

Director of the Institute of Materials Science (since 2001) and Professor of the Physics Department, Kaunas University of Technology (KTU) (since 1996) - present, Member of the Lithuanian Academy of Sciences (since 2002) Associate Professor (KTU), 1987 --1996, Assistant Professor (KTU), 1979 - 1987

9. Field of Interests:

Condensed matter physics, thin films, vacuum and plasma technologies, optical measurements, surface and interface phenomena, micro and nanotechnologies, electronics, photonics, biomaterials, bio sensing.

10. Other

since 2000	Editor-in-Chief of "Materials Science (Medžiagotyra)"
since 2014	Member of Advisory Board of „Materials Research Express“ (IOPScience leidykla) Member of Editorial Board „American Journal of Nanomaterials“ (Science and Education Publishing) Member of Editorial Board „The Scientific World Journal“ (Hindawi Publishing)
since 2008	President of Lithuanian Materials Research Society (LtMRS)
	Participation in current and recently completed international research projects
2005-2006 .	NEXUS miniproject (together with the University of Southern Denmark) "Imprinting of ordered organic nanofibers",
2007-2008	NordForsk research project " Imprinted plasmonic active surfaces" (together with the University of Southern Denmark),
2008-2011	COST MP0604 project "Optical Micro-Manipulation by Nonlinear Nanophotonics"
2008-2012	COST MP0803 project „Plasmonic components and devices“,
2004-2007	FP6 programme „Nanoimprint lithography for novel 2 and 3 dimensional nanostructures“ (3D

	NANOPRINT) COOP-CT-2004-5112667.
2004-2006	FP6 programme „Micro and Nanotechnologies going to Eastern Europe through Networking“ Proposal No: 510470 (Programme – Integrating and strengthening the European Research Area, identifier: FP6-2003-ACC-SSA-GENERAL)
2010 – 2012	Technet_nano – Transnational network of public clean rooms and research facilities in nanotechnology making accessible innovation resources and services to SMEs in the BSR, Baltic State Region programme 2007-2013,
2014-2015	EU Strategy for the Baltic Sea Region, Power Electronics for Green Energy (led by University of Southern Denmark), EUSBSR Seed Money Facility (2014-2015)
2014-2015	EU Strategy for the Baltic Sea Region, Platform of Baltic Infrastructure for Research, Technology and Innovation, EUSBSR Seed Money Facility (2014-2015)
2014-2015	Modeling and design of nanocomposite thin film diffraction grating sensors. Project of 2011-2015 Lithuanian–Ukrainian Cooperation Programme of Research Council of Lithuania. (2014-2015)
2015-2017	Plasmonic and electronic properties of CVD deposited graphene layers, Programme of mutual cooperation between Lithuania and Belarus in the field of science and technology, Research Council of Lithuania (2015-2017)
2015-2017	Plasmonic properties of silver nanoparticles and self-assembled clusters, Project of Lithuanian–Japan Cooperation Programme of Research Council of Lithuania. (2015-2017)
2016-2017	Regular metal oxide nanowire arrays for gas sensing, Gilbert programme, Common project of Institut des Matériaux de Nantes Jean Rouxel (IMN), CNRS, France and Kaunas University of Technology (2016-2017)
2016-2018	Power Electronics for Green Energy Efficiency (led by Southern Denmark University) , INTEREG, Baltic Sea Region Programme, European Regional Development Fund.
	Supervision of PhD theses
2012m.	A.Tamulevičienė , “Amorphous carbon nanocomposites for optical applications”
2009 m.	T. Grinys, “Production of YSZ-NiO-Ni Ceramic coatings by vacuum plasma spray”
2009 m.	A. Giedraitis ,, Growth kinetics of evaporable barium getters
2008 m.	R. Jarimavičiūtė-Žvalionienė, “Production of silicon based optical structures by electrochemical etching”
2008 m.	B. Abakevičienė “Mechanical properties of polymers and metal deposited polymer structures: growth of metal layers on polymers”
2005 m.	A. Guobienė “Formation and analysis of periodic structures in polymers”
2004 m.	R. Kriūkienė, “Influence of temperature and chemical environment on microstructure and metrological characteristics of thermocouple alloys”
2004 m.	J. Puišo, “Kinetics of growth and properties of thin lead sulfide layers produced by successive ionic layer adsorption and reaction (SILAR)”
2001 m.	R. Dargis, “Influence of low vacuum plasma spray parameters on electro-physical properties of Ni-Al coatings”
2001 m.	A.Užupis, “Thermal modification of magnetron sputtered ITO layers”
1993 m.	K.Babilius, “Tribological properties of titanium nitride produced by arc discharge”
1990m.	J.Budinavičius, “Processes in the metal semiconductor system during simultaneous deposition and high energy irradiation”
	Publishing
List of publications (1984-2016) includes 200 articles (Hirsh index 16 in Web of Science, Clarivate Analytics), 8 textbooks, 1 special issue of Thin Solid Films (as invited guest editor), 3 LT patents.	
	Selected publications
1.	Yaremchuk, Iryna; Meškinis, Šarūnas; Fitio, V.; Bobitski, Yaroslav; Šlapikas, Kęstutis; Čiegis, Arvydas; Balevičius, Zigmantas; Selskis, Algirdas; Tamulevičius, Sigitas. Spectroellipsometric characterization and modeling of plasmonic diamond-like carbon nanocomposite films with embedded Ag nanoparticles // Nanoscale Research Letters . New York, NY: Springer. ISSN 1931-7573. 2015, vol. 10, iss. 1, Article no. 157, p. [1-7]. DOI: 10.1186/s11671-015-0854-y. [Science Citation Index Expanded (Web of Science); PubMed]. [IF (E): 2,779 (2014)]
2.	Tamulevičius, Tomas; Gražulevičiūtė, Ieva; Urbonas, Darius; Gabalis, Martynas; Petruškevičius, Raimondas;

	Tamulevičius, Sigitas. Numerical and experimental analysis of optical response of sub-wavelength period structure in carbonaceous film for refractive index sensing // Optics Express . Washington, DC: Optical Society of America. ISSN 1094-4087. 2014, vol. 22, iss. 22, p. 27462-27475. DOI: 10.1364/OE.22.027462. [Science Citation Index Expanded (Web of Science)]. [0,289]. [IF (E): 3,488 (2014)]
3.	Juknius, Tadas; Tamulevičius, Tomas; Gražulevičiūtė, Ieva; Klimienė, Irena; Matusėvičius, Algimantas Petras; Tamulevičius, Sigitas. In-situ measurements of bacteria resistance to antimicrobial agents employing leaky mode sub-wavelength diffraction grating // Sensors and Actuators B: Chemical . Lausanne: Elsevier. ISSN 0925-4005. 2014, Vol. 204, p. 799-806. DOI: 10.1016/j.snb.2014.08.049. [Science Citation Index Expanded (Web of Science); Science Direct]. [IF (E): 4,097 (2014)]
4.	Tamulevičius, Sigitas; Meškiniš, Šarūnas; Šlapikas, Kęstutis; Vasiliauskas, Andrius; Gudaitis, Rimantas; Andrulėvičius, Mindaugas; Tamulevičienė, Asta; Niaura, Gediminas. Piezoresistive properties of amorphous carbon based nanocomposite thin films deposited by plasma assisted methods // Thin Solid Films . Lausanne: Elsevier Science. ISSN 0040-6090. 2013, vol. 538, p. 78-84. DOI: 10.1016/j.tsf.2012.11.122. [Science Citation Index Expanded (Web of Science); Science Direct]. [IF (E): 1,867 (2013)]
5.	Tamulevičius, Tomas; Šepėrys, Rimas; Andrulėvičius, Mindaugas; Kopustinskas, Vitoldas; Meškiniš, Šarūnas; Tamulevičius, Sigitas; Mikalayeva, Valėrya; Daugelavičius, Rimantas. Application of holographic sub-wavelength diffraction gratings for monitoring of kinetics of bioprocesses // Applied Surface Science . Amsterdam: Elsevier. ISSN 0169-4332. 2012, Vol. 258, iss. 23, p. 9292-9296. [Science Citation Index Expanded (Web of Science); COMPENDEX; INSPEC; Science Direct]. [IF (E): 2,112 (2012)]
	Invited lectures
2001 m.	Optical characterization of mechanical properties of thin films and structures, NATO Advanced Study Institute on Synthesis, Functional Properties & Applications of Nanostructures, Crete, Greece, 29 June - 9 July 2001;
2003 m.	Mechanical properties of nanostructured thin films, International Workshop on "Processing and Characterisation of Nanomaterials", Warsaw, Poland, May 7-9, 2003;
2006 m.	Research in Lithuania Towards-Production and Uses of Sensors and Actuators, Physics of Sensors and Detection Systems, 6th -7th December 2006, Joint Research Centre, Ispra , Italy
2007 m.	Diamond Like Carbon Films: Growth And Characterization, NATO Advanced Study Institute on Functionalized Nanoscale Materials, Devices, And Systems For Chem.-Bio Sensors, Photonics, and Energy Generation and Storage, June 4-15, 2007, Sinaia, Romania;
2009 m.	Tendencies in advanced materials, The 5th International Conference Mechatronic Systems and Materials (MSM 2009) 22 - 25 October, 2009, Vilnius, Lithuania
2009m.	Quantitate optical evaluation of microstructures used in optically variable devices, Security printing and alternative solutions in Central/Eastern Europe and Russia/CIS, The 9th International Conference, 27-29 January, Vilnius, Lithuania
2010 m.	Micro- and nanotechnologies - experience in Lithuania and main collaboration guideline, "East link 2010: the way to knowledge economy", 20-21 October, 2010 Klaipėda, Lithuania
2012 m.	Piezorezistive properties of diamond like carbon films deposited by plasma assisted methods, European Materials Research Society Spring Meeting, Strasbourg, France, May 14- 18, 2012
2012	The NATO Science and for Peace and Security Programme, "Sensing and Detection for Safety, Security, and Sustainability" "Novel applications of amorphous carbon as functional material for optical biosensors and piezoresistive gauges", Yerevan , Armenia, 29 Sept - 01 Oct 2012
2013	Materials science in Lithuania: status, challenges and perspectives, 13th Baltic Conference on Intellectual Co-operation: European Research Area and Small Countries" , Estonian Academy of Sciences, Kohtu St. 6, Tallinn, Estonia, 28-29 January 2013
2014	SME activities in Lithuania: microtechnologies and clean room applications, Technet_nano Thematic workshop, Energy efficiency through smart microcomponents, Sønderborg, Denmark, , 17th January, 2014
2014	Diamond like carbon based nanocomposite thin films as a functional material for optical applications, Nanotechnology: Research and development, Lithuanian Academy of Sciences. Gedimino Ave. 3, Vilnius, Lithuania, 15 - 16 May, 2014

2014	Plasma Deposition of Diamond Like Carbon Based Nanocomposites for Optical and Electrical Applications, 3rd Global Conference on Materials Science and Engineering (CMSE 2014), Oct. 20-23, 2014, Shanghai, the Economic center of China, China (key note speaker)
2015	Diamond like carbon based silver nanocomposites – short review of the technology and novel applications, International Conference Nanomeeting – 2015, Physics, Chemistry and Applications of Nanostructures, Minsk, Belarus, 26 – 29 May 2015
2015	Diamond like carbon nanocomposites for optical and electrical applications, 7th International Conference on Nanotechnologies and Advanced Materials- EuroNanoForum 2015 (ENF 2015), Riga, Latvia, 10-12 June 2015 (key note speaker)
2015	Laser based microfabrication techniques, The 4th Global Conference on Materials Science and Engineering (CMSE2015) Macau, August 3-6, 2015
2015	Reactive magnetron sputtering deposition and applications of diamond like carbon based nanocomposites, FM&NT-2015, Functional Materials and Nanotechnologies, Vilnius, October 5th - 8th, 2015
2016	Size/concentration effects on plasmon relaxation dynamics in diamond-like carbon:Cu/Ag nanocomposites, E-MRS 2016 Spring Meeting, Lille (France), May 2 - 6, 2016
2016	Optical properties of noble nanoparticles based structures, Invited lecture at the Department of Theoretical Chemistry, Royal Institute of Technology, Stockholm, Sweden, September 13, 2016
2016	Optical properties of noble nanoparticle based structures, The 5th International Conference on Materials Science and Engineering (CMSE2016), November 8th-11st, 2016, Taichung, Taiwan
	Visits and fellowships
1990 – 1991	Swedish Institute Fellowship, Department of Solid State Electronics, Royal Institute of Technology, Stockholm, Sweden.
1993	Recipient of Soros Foundation Research Grant, Awarded by American Physical Society
1994	Research Scholar, Fulbright Scholarship, Department of Physics, Massachusetts Institute of Technology, 1994, USA
1996	Tempus Individual Mobility Grant (Phare program), Faculty of Sciences, Poitiers University (France)) 1996.
1999 – 2009	Socrates Individual Mobility Grant, Faculty of Sciences, Poitiers University, Poitiers university, France 1999, 2000, 2001, 2002, 2009 m.
	Expert
2001 – 2015 .	FP5 programme (2001), FP6 (2003., 2004, 2005, 2006), FP7 (2010, 2011, 2012, 2013.), Horizon2020 (2014, 2015, 2016)
2009 – 2015	Eurostars, Eureka
2010-2012.	Representative member of Lithuania in EU FP7 committee “Nanoscience, nanotechnologies, materials and novel production technologies“
	Awards
2000	Laureate of the National Award for Science for 2000.
1997	Research Scholar, Fulbright Scholarship certificate, USA
2003	Honorable mention of Lithuanian Ministry of Education and Science
2010	Honorable mention of the President of European Materials Research Society.
2016	Adjunct Professor of Southern Denmark University

11. Language fluency

Lithuanian- mother tongue

	Reading	Speaking	Writing
English	5	5	5
Russian	5	4	5
Polish	4	3	3
French	4	3	3