

## CURRICULUM VITAE

**First name:** Asta  
**Last name:** Tamulevičienė  
**Adress:** K. Baršausko 59, Kaunas  
**Phone:** 8 672 01920  
**E-mail:** [asta.tamuleviciene@ktu.lt](mailto:asta.tamuleviciene@ktu.lt)  
**Researcher ID** G-8347-2017 (ResearcherID), 0000-0003-4152-1382 (ORCID)



### Education

| <i>Year</i>    | <i>Institution</i>              | <i>Level of professional skills, scientific degree</i> |
|----------------|---------------------------------|--|
| 2002 – 2006 m. | Kaunas University of Technology | Bachelor degree in Materials Science                   |
| 2006–2008      | Kaunas University of Technology | Master degree in Materials Science                     |
| 2008-2012      | Kaunas University of Technology | PhD degree in Materials Engineering                    |

### Work experience

| <i>Year</i>     | <i>Institution</i>  | <i>Position held</i> |
|-----------------|---|----------------------|
| 2006 – 2007     | KTU Institute of Physical Electronics   | Laboratory assistant |
| 2007 – 2009     | KTU Institute of Physical Electronics   | Engineer             |
| 2010 – 2012     | KTU, Faculty of Design and Technologies (Scanning electron microscopy laboratory) | Senior engineer      |
| 2012 – 2013     | KTU, Faculty of Fundamental Sciences  | Invited lecturer     |
| 2009 – 2010     | KTU Institute of Physical Electronics   | Associate researcher |
| 2010 – 2014     | KTU Institute of Materials Science  | Associate researcher |
| 2013 – till now | KTU, Faculty of Mathematics and Natural Sciences                                  | Lecturer             |
| 2014 – till now | KTU Institute of Materials Science  | Researcher           |

**Scientific activities:** diamond like carbon nanocomposite films, Raman spectroscopy, IR spectroscopy, graphene, silver nanoparticles, plasmonics, electrochromic devices.

### Other experience

| <b>Preparation of periodic or single edition scientific literature</b>   |
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| » Guobienė, Asta; Andrulevičius, Mindaugas; Tamulevičius, Sigitas; Tamulevičius, Tomas; <b>Tamulevičienė, Asta</b> ; Prosyčėvas, Igoris; Navickas, Edvinas. Medžiagų mokslas : laboratoriniai darbai : mokomoji knyga. Kaunas : Dakra, 2013. 130 p. ISBN 9786094520211.<br>» Abakevičienė, Brigita; <...> <b>Tamulevičienė, Asta</b> ; <...>. 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. |
| <b>Participation in organizing and programme committes of international and national scientific events</b>   |
| » Year 2009 – 2011 and 2013 secretary of the conference – school “Advanced materials and technologies”;<br>» Year 2009 – 2016 member of the organizing committee of the conference – school “Advanced materials and technologies”.   |
| <b>Participation in international and national scientific projects</b>   |
| » COST MP0803 project “Plasmonic components and devices“ (2008-2012), participant;<br>» “Development of new spectroscopic methods and structures for optical sensors” (2010-2011, LMT), participant;<br>» “Nanostructured diamond-like carbon films for advanced optical metrology components (NanoDLC)” (2011-2013, MITA), participant;<br>» “Transnational network of public clean rooms and research facilities in nanotechnology making accessible innovation resources and services to SMEs in the BSR (Technet_Nano)” (2011-2013, INTERREG) participant;                             |

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| <ul style="list-style-type: none"> <li>» COST MP1205 project “Advances in optofluidics: Integration of optical control and photonics with microfluidics“ (2012-2016), participant;</li> <li>» “Creation of new semiconductor materials and nanostructures for advanced technologies” (2012-2015, ESFA), participant;</li> <li>» “Extraordinary piezoresistance diamond like carbon nanocomposites and micro(nano-) structures” (2013-2015, LMT).</li> <li>» “Fundamental investigation of surface relief and molecular forces influence on the self-organization of nanoparticles and nanofibers (PARMO)” (2013-2015, ESFA) participant;</li> <li>» “Plasmonic nanostructures for solar cells with decreased spectrum losses (NIRSOLIS)“ (2013-2015, ESFA), participant;</li> <li>» “Regular 3D Structures for Optical Sensors (3DSens)” (2013-2015, LMT), participant;</li> <li>» “Creation of biological cardiostimulator involving foreign country scientists and scientific institutions (BIOKARDIOSTIM)” (2013-2015, ESFA), participant;</li> <li>» Lithuanian-Ukrainian Bilateral Cooperation project “Modeling and design of nanocomposite thin film diffraction grating sensors“ (2014-2015, LMT), participant;</li> <li>» “Bioactive fibres from biopolymers and natural bioactive materials“ (2015, KTU), participant;</li> <li>» „Adaptation of novel diffusion-driven organic field-effect transistors for studying of the charge transporting properties of ambipolar semiconductors“ (2016, KTU) head of the project;</li> <li>» Bipolar organic materials for flexible electrochromic devices (2017, KTU), participant;</li> <li>» Taiwan-Latvia-Lithuania cooperation project “2D nanostructures of noble metal nanoparticles for biosensor applications” (2018-2020), participant.</li> </ul> |
| <p><b>5 most important publications</b></p> <ul style="list-style-type: none"> <li>» <b>Šileikaitė, Asta</b>; et al. Investigation of silver nanoparticles formation kinetics during reduction of silver nitrate with sodium citrate //Materials science=Medžiagotyra 15 (1), 2009, p. 21-27.</li> <li>» Tamulevičius, Tomas; <b>Tamulevičienė, Asta</b>; et al.. Structuring of DLC:Ag nanocomposite thin films employing plasma chemical etching and ion sputtering // Nuclear instruments &amp; methods in physics research B: Beam interactions with materials and atoms., 341, 2014, p. 1-6.</li> <li>» Meškiniš, Š.; Čiegis, A.; Vasiliauskas, A.; <b>Tamulevičienė, A.</b>; Šlapikas, K.; Juškėnas, R.; Niaura, G.; Tamulevičius, S. Plasmonic properties of silver nanoparticles embedded in diamond like carbon films: Influence of structure and composition // Applied surface science 317, 2014, p. 1041-1046.</li> <li>» <b>Tamulevičienė, Asta</b>; et al. Multiwavelength Raman analysis of SiO<sub>x</sub> and N containing amorphous diamond like carbon films // Thin solid films. 581, 2015, p. 86-91.</li> <li>» Zakarienė, G.; Novoslavskij, A.; Meškiniš, Š.; Vasiliauskas, A.; <b>Tamulevičienė, A.</b>; Tamulevičius, S.; Alter, T.; Malakauskas, M. Diamond like carbon Ag nanocomposites as a control measure against Campylobacter jejuni and Listeria monocytogenes on food preparation surfaces // Diamond and related materials. 81, 2018, p. 118-126. DOI: 10.1016/j.diamond.2017.12.007.</li> </ul> <p><b>Total number of Web of Science indexed publications with IF: 18, h=9.</b></p>  |
| <p><b>Participation in studies process and methodological work</b></p> <ul style="list-style-type: none"> <li>» Giving lectures and lab works in course for Master students T155M111 Surface engineering and nanotechnologies;</li> <li>» Lab works in courses for bachelor students T150B118 Analysis methods of materials and T150B209 Sensors and technologies, T150B221 Micro- and nanotechnologies: applications and analysis methods;</li> <li>» Research mentor</li> </ul>  |
| <p><b>Training</b></p> <ul style="list-style-type: none"> <li>» Year 2011, November internship at Helmholtz-Zentrum Dresden-Rossendorf under FP7 SPIRIT transnational access;</li> <li>» Year 2013, May internship at Chemnitz University of Technology;</li> <li>» Year 2017, March „Basic training for improving excellence in didactics“, „Problem based learning“;</li> <li>» Year 2017, April „Application of Case Study in study process“.</li> </ul>  |
| <p><b>Expert activity</b></p> <p>From year 2015 Evaluator of H2020 projects; Year 2017 – Flag-Era expert.</p>  |
| <p><b>Participation in national and internationals associations and committees</b></p> <p>Since 2008 member of the Lithuanian Materials Research Society;<br/>Since 2017 member of Lithuanian Physics Society.</p>   |

**Awards**

- » Year 2006 awarded by Konstantinas Savickas name maecenas scholarship as the best Faculty student;
- » Year 2008 awarded by prof. Ignas Končius name maecenas scholarship as the best Faculty student;
- » Year 2008 selected as one of 100 best graduates of the technical universities;
- » Year 2009 awarded by Lithuanian Academy of Sciences in the students scientific work contest for the work written together with Tomas Tamulevičius: Formation of periodical structures and its use for optical sensors (supervisors dr. Mindaugas Andrulevičius, dr. Judita Puišo, dr. Igoris Prosyčėvas);
- » Year 2010 awarded as a best PhD student of Kaunas University of Technology of the year;
- » Year 2012 Graduate Student Award at the conference “E-MRS Spring Meeting 2012”.

**Language skills** (5 „Perfect“ till 1 „Poor“)

Lithuanian (native language)

| <b>Language</b> | <b>Reading</b> | <b>Speaking</b> | <b>Writing</b> |
|-----------------|----------------|-----------------|----------------|
| English         | 5              | 4               | 4              |
| Russian         | 4              | 3               | 3              |

March 10, 2018

Asta Tamulevičienė