

Surname: Yalcinkaya

First Name: Fatma

Academic Degree: Ph.D., MSc.

Position: Research Assist. Prof.



Research focus: Functional nanofibers, Free surface electrospinning system, Wastewater treatment, Microfilters, Oil separation, Surface modification of nanofibrous membranes, Hydrophilic membranes, Hydrophobic membranes, Membrane distillation, HEPA filters.

Current Position: Researcher¹/Assistant Professor² in Technical University of Liberec,

¹Centre for Nanomaterials, Advanced Technology and Innovation,

²Institute of Mechatronics and Computer Engineering, Faculty of Mechatronics

Web of Science Researcher ID: A-2141-2014

H-index (WoS): 12

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EDUCATION

Research visit (2016, 2018) Wroclaw University of Science and Technology, Department of Polymer and Carbonaceous Materials. **Topic:** Preparation of plasma modified nanofibrous composite membranes for the separation of oil-water emulsion.

Ph.D. (2011-2014) Technical University of Liberec, Textile Faculty- Nonwoven Dept. /Czech Republic

Master (2007-2010) Kahramanmaraş Sutcu Imam University Textile Eng. Department

Degree: 95.8/100

2009 (4.5 months) Technical University of Liberec (Czech Republic)-Erasmus Program Nonwoven Dept.

Undergraduate

2002-2007 Gaziantep University Textile Eng. Department

Degree: 78.3/100

2006 (6 months) Akademia Techniczna-Humanistyczna (Poland)-Erasmus program Textile Eng. Department

Other Languages: English (Good at reading, writing and speaking), Czech (Beginner), Polish (Beginner)

Master Thesis: “Comparison of Needle and Needleless Electrospun Nanofibers and Effect of System Parameters on Electrospun Nanofibers”, August 2010 Kahramanmaraş.

Ph.D. Thesis: “New Methods in the Study of Roller Electrospinning Mechanism”, 11 November 2014, Liberec

WORK EXPERIENCES

- 1. Production and quality control engineer** in Adil Hali Iplik San. Ltd. Sti. (01.07.2007-01.01.2009).
 - Adil Hali, Iplik San. Ltd. Sti is producing textured yarn from FOY and twisted cotton yarn for the warp yarn of carpets.
- 2. Research assistant** in Kahramanmaraş Sutcu Imam University (01.02.2009-10.08.2010)
 - The Department of Textile Engineering is one of the newest department in Kahramanmaraş Sutcu Imam University. As a research assistant, the responsibilities are giving the laboratory training and lectures for bachelor students, searching the developed technologies, working on research projects, studying the literature.
- 3. Research student** in Bilkent University-National Nanotechnology Research Center (15.09.2010-01.01.2011).
 - As a research student, I attended the many Ph.D. classes related to polymer chemistry, prepared functional nanofibrous materials for biomedical application.
- 4. Researcher** in Technical University of Liberec, Centre of Nanomaterials, Advanced Technology and Innovation (01.08.2014-30.11.2014)
 - During the last month of Ph.D. study, I had a chance to work on a project for functional nanofiber/nanoparticle covered hybrid yarns and fabric produced from these yarns.
- 5. Senior Researcher & Project Manager**, Nafigate Corporation a.s. (01.12.2014- 31.10.2015)
 - Nanofibers for cosmetic: Research and development of the products, application of nanofibers for acne and facemask, production of nanofibrous layer in industrial scale
 - Nanofibers for air filtration: Research and development of the products according to demand of customers, air filtration products for Chinese Market
 - Nanofibers for wastewater treatment: Research and development according to demand of customers. Two product was developed, one for Marina and second for domestic wastewater.
 - Nanofibers for desalination (FO): Research and development according to demand of customer, qualified nanofiber layer were produced for the basement of FO membranes for the company in Singapore.
- 6. Researcher** in Technical University of Liberec, Centre of Nanomaterials, Advanced Technology and Innovation (01.11.2015-present)
 - Assistant Professor** in Technical University of Liberec, Faculty of Mechatronics (01.09.2016-present)
 - Research and development, preparation of projects with industrial partners and supported grants. The main topic is, nanofibrous composite materials for air, wastewater and membrane distillation.
 - **Research visit** to Wrocław Technology University, Department of chemistry (2016)
 - **Research visit** to Wrocław Technology University, Department of chemistry (2018)

Lectures:

1. Textile Technology
2. Theory of nonwovens
3. Textile engineering
4. Nanocomposite membranes