

## Prof.Dr.Ebru MENŞUR

She completed her two doctoral degrees in 2006 in Materials Science and Engineering and in 2008 in the Department of Physics. Her area of expertise is piezoelectric/ferroelectric ceramic materials. In 2004, she continued her studies on thin films in the UK with a Marie Curie research fellowship. She was awarded the Young Scientist Award (TÜBA-GEBİP) by the Turkish Academy of Sciences in 2013. Since 2012, she has been the co-founder and general manager of ENS Piezo Devices Ltd., working on the production of sensor materials and devices, particularly underwater sonars. Prof. Menşur has more than 60 scientific papers (SCI), presentations, and invited speaker talks, and she has been continuing her academic work as a faculty member at Gebze Technical University since 2017.

### EDUCATION

|      |        |                                                                                   |
|------|--------|-----------------------------------------------------------------------------------|
| 2006 | D.Eng. | Nara Institute of Science & Technology, Grad. School of Materials Science, Japan. |
| 2008 | Ph.D.  | Kocaeli University, Department of Physics                                         |
| 2002 | M.Sc.  | Kocaeli University, Department of Physics                                         |
| 1999 | B.Sc.  | Kocaeli University, Department of Physics                                         |

### WORK & RESEARCH EXPERIENCE

|                   |                     |                                           |
|-------------------|---------------------|-------------------------------------------|
| 09/2019 – Present | Department Chair    | Gebze Technical University                |
| 09/2018 – Present | Professor           | Gebze Technical University                |
| 05/2012 – Present | General Manager     | ENS Piezoaygıtlar Ltd.Şti.                |
| 04/2017 – 09/2018 | Associate Professor | Gebze Technical University                |
| 10/2009 – 02/2013 | Dr. Lecturer        | Maltepe University                        |
| 03/2008 – 09/2009 | TÜBA-Postdoctoral   | Sabancı University                        |
| 11/2004 – 09/2006 | Assistant           | Nara Institute of Science. & Tech., Japan |
| 07/2004 – 11/2004 | Visiting Researcher | Salford University, England               |
| 01/2000 – 02/2008 | Assistant           | Kocaeli University                        |

### RESEARCH AREAS

- Solid-state physics and applied physics
- Electrical, optical, and optoelectronic properties and characterization of solids
- Thin film production by RF/DC Magnetron Sputtering and sol-gel methods
- Production and applications of ferroelectric, semiconductor, and transparent conductive oxide (TCO) thin films
- Lead-based/lead-free piezoelectric and ferroelectric ceramic materials in various forms
- Nanofibers and electrospinning
- Ceramic fiber/polymer composite materials
- Textured ceramics

### R&D PROJECTS (LAST 5 YEARS)

1. "Determination of Electrocaloric and Elastocaloric Properties of Flexible Polymer/Ferroelectric Composites with Various Connectivity," Project Manager, American Air Force Office of Scientific Research (AFOSR), Grant #FA9550-18-1-0450, 2023-ongoing.
2. "Investigation of the Effect of Crystallographic Anisotropy and Defects on the Electrocaloric Response of Stress-free Relaxor Ferroelectric Plates by Experimental and Analytical Techniques," Project Manager, American Air Force Office of Scientific Research (AFOSR), Grant #FA9550-18-1-0450, completed.
3. "Fabrication of Piezoelectric Ceramic Hollow Fibers with Low Sintering Temperature, Design of Devices, and Their Applications," Project Manager, TÜBİTAK-COST Project, Project #112M791, completed.