

## **Prof. Dr. Şerife H. YALÇIN**

Room : A-313  
Phone : +90 (232) 750 7624  
Fax : +90 (232) 750 7509  
E-mail : serifeyalcin@iyte.edu.tr  
Web site : <http://web.iyte.edu.tr/~serifeyalcin/>

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### **EDUCATION**

Doctor of Philosophy : Middle East Technical University, Turkey, 1995  
Master of Science : Middle East Technical University, Turkey, 1989  
Bachelor of Science : Middle East Technical University, Turkey, 1986

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### **WORK EXPERIENCE**

2013 - present Professor  
İzmir Institute of Technology, Department of Chemistry

2006 - 2013 Associate Professor  
İzmir Institute of Technology, Department of Chemistry

2005 - 2006 Assistant Professor  
İzmir Institute of Technology, Department of Chemistry

2002 - 2004 Postdoctoral Research Associate  
University of Alberta, Electrical and Computer Engineering

1998 - 2000 Assistant Professor  
Abant İzzet Baysal University, Department of Chemistry

1996 - 1998 Postdoctoral Research Associate  
University of Alberta, Public Health Sciences

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### **RESEARCH EXPERIENCE**

- Development of sample introduction systems for Laser- Induced Breakdown Spectroscopic Analysis of liquids: nebulization(pneumatic/ultrasonic), chemical hydride generation.
  - LIBS as a surface analysis technique: 2-D analysis of ion-implanted surfaces by LIBS
  - LIBS in characterization of archeological samples.
  - Biological applications of LIBS: identification of phosphorylated proteins before MS analysis.
  - LIBS at low pressures.
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### **TEACHING**

- General Chemistry I-II
- Instrumental Analysis

- Spectrochemical Analysis
  - Fundamentals and Applications of Laser Induced Breakdown Spectroscopy, LIBS
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