

## **Prof. Dr. Hürriyet POLAT**

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### **EDUCATION**

Doctor of Philosophy : The Pennsylvania State University, USA, 1996  
Master of Science : The Pennsylvania State University, USA, 1992  
Bachelor of Science : Ege University, Turkey, 1983

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### **WORK EXPERIENCE**

2008 - present Professor  
İzmir Institute of Technology, Department of Chemistry

2001 - 2008 Associate Professor  
İzmir Institute of Technology, Department of Chemistry

1996 - 2001 Assistant Professor  
İzmir Institute of Technology, Department of Chemistry

1990 - 1996 Research Assistant  
The Pennsylvania State University, Faculty of Earth and Mineral  
Science - Mineral Processing

1985 - 1988 Research Assistant  
Ege University, Faculty of Agriculture

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### **RESEARCH EXPERIENCE**

- Characterization of surface wetting properties of different materials by AFM
  - Surfactant Adsorption by AFM
  - Controlled drug delivery using silica/carbon nano particles with custom-made morphology
  - Bio-polymers (chitin and chitosan) and their use in different applications such as heavy metal adsorption in water and oil emulsification
  - Characterization of Dental Ceramic Materials by AFM and SEM
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### **TEACHING**

- Physical Chemistry
  - Surfactant Science
  - Introduction to Colloid and Surface Science
  - Colloid Chemistry and Surface Science
  - Interfacial Phenomena
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