

## Prof. Dr. BURCU AKATA KURÇ

### Kişisel Bilgiler

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ScopusID: 17344894400

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### Eğitim Bilgileri

Doktora, Northeastern University, Kimya Mühendisliği Bölümü, Amerika Birleşik Devletleri 1998 - 2004

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Türkiye 1994 - 1998

### Yabancı Diller

İngilizce, C1 İleri

### Yaptığı Tezler

Doktora, Characterization of Acidity in Zeolite Beta, Northeastern University, Kimya Mühendisliği Bölümü, 2004

### Araştırma Alanları

Kimya Mühendisliği ve Teknolojisi , Metalurji ve Malzeme Mühendisliği

### Akademik İdari Deneyim

Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Mikro Ve Nanoteknoloji (YI) (Tezli), 2016 - Devam Ediyor

Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2012 - 2016

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## Jüri Üyelikleri

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- X. **Development of antibacterial powder coatings using single and binary ion-exchanged zeolite A prepared from local kaolin**  
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- XIV. **Zeolite A coated Zn1-XCuXO MOS sensors for NO gas detection**  
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- XV. **Ionic conductivity of microporous titanosilicate ETS-10 and ion-exchanged Mn<sup>+</sup>-ETS-10 (where, Mn<sup>+</sup> = Li<sup>+</sup>, Na<sup>+</sup>, Mg<sup>2+</sup>, Zn<sup>2+</sup>, Ca<sup>2+</sup>) thin films prepared by secondary growth method**  
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- XVI. **A Novel Amperometric Glutamate Biosensor Based on Glutamate Oxidase Adsorbed on Silicalite**  
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- XVII. **Biosensors Based on Nano-Gold/Zeolite-Modified Ion Selective Field-Effect Transistors for Creatinine Detection**  
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- XXI. **A Novel Conductometric Urea Biosensor with Improved Analytical Characteristic Based on Recombinant Urease Adsorbed on Nanoparticle of Silicalite**  
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- XXIII. **Nanosized zeolites as a perspective material for conductometric biosensors creation**  
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- XXVI. **Understanding the Effects of Ion-Exchange in Titanosilicate ETS-10: A Joint Theoretical and Experimental Study**  
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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. Humidity Sensing Behavior of Microporous Titanosilicate and Vanadosilicate Thin Films**  
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- II. **FLY ASH TO ZEOLITE: EFFECT OF FLY ASH CHARACTERISTICS ON ZEOLITE 4A SYNTHESIS**  
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- IV. **The Effect of Defects Created in Microporous Vanadosilicate AM-6 Thin Films in Photocatalysis**  
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- V. **The Effect of Defect Creation in Microporous Vanadosilicate AM-6 Thin Films on Their Photocatalytic Performances**  
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- VI. **Fly Ash to Zeolite: Effect of Ash Characteristics on Zeolite Synthesis**  
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- VII. **The Effect Of Microporous Vanadosilicate AM-6 Thin Films As Photocatalysts For The Degradation Of Methylene Blue**  
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- IX. **A Novel Amperometric Glutamate Biosensor Based on Glutamate Oxidase Adsorbed on Silicalite**  
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- X. **Biosensors Based on Nano-Gold/Zeolite-Modified Ion Selective Field-Effect Transistors for Creatinine Detection**  
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- XI. **Zn<sub>1-x</sub>Cu<sub>x</sub>O thin films for NO gas detection deposited by SILAR method**  
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- XV. **Understanding the effects of seed layer in the secondary growth of microporous vanadosilicate AM-6 films**  
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- XVI. **Humidity sensors developed based on ETS-10**  
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- XX. **Design of Zeolite Modified Electrodes and Their Influence on Biosensor Performance**  
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- XXI. **New multibiosensor device for diagnosis of diabetic nephropathy**  
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- XXII. **Development of a New Biosensor by Adsorption of Creatinine Deiminase on Monolayers of Micro- and Nanoscale Zeolites**  
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