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Kişisel Bilgiler

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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

Yönetilen Tezler

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Jüri Üyelikleri

Akademik Kadroya Atama-Doçentlik, Akademik Kadroya Atama-Doçentlik, Orta Doğu Teknik Üniversitesi, Mart, 2022

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Solar-driven calcination of clays for sustainable zeolite production: CO2 capture performance at ambient conditions**
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- II. **Investigating antimicrobial behavior of thymol/Zn encapsulated hierarchically structured zeolite and thymol release kinetics**
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- III. **Tailoring titanosilicate molecular sieves by vanadium substitution for humidity sensing applications**
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- IV. **Solarization of the zeolite production: Calcination of kaolin as proof-of-concept**
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- V. **Enhanced antimicrobial activity of volatile thymol molecules encapsulated in hierarchical titanosilicates**

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- VI. **Development of three-enzyme lactose amperometric biosensor modified by nanosized poly (meta-phenylenediamine) film**
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- IX. **One pot fusion route for the synthesis of zeolite 4A using kaolin**
Kirdeciler S. K., Akata B.
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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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- XII. **New Mixed Conductivity Mechanisms in the Cold Plasma Device Based on Silver-Modified Zeolite Microporous Electronic Materials**
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- XV. **Ionic conductivity of microporous titanosilicate ETS-10 and ion-exchanged Mn⁺-ETS-10 (where, Mn⁺ = Li⁺, Na⁺, Mg²⁺, Zn²⁺, Ca²⁺) 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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- XIX. **Creatinine Deiminase Adsorption onto Silicalite-Modified pH-FET for Creation of New Creatinine-Sensitive Biosensor**

- Marchenko S. V., Soldatkin O. O., Kasap B. O., AKATA KURÇ B., Soldatkin A. P., Dzyadevych S. V.
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- XX. **Effects of pressure and electric field on the charge transport mechanisms in the silver-modified-zeolite porous microstructure**
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- XXI. **A Novel Conductometric Urea Biosensor with Improved Analytical Characteristic Based on Recombinant Urease Adsorbed on Nanoparticle of Silicalite**
Velychko T. P., Soldatkin O. O., Melnyk V. G., Marchenko S. V., Kirdeciler S. K., AKATA KURÇ B., Soldatkin A. P., El'skaya A. V., Dzyadevych S. V.
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- XXII. **Development of Silicalite/Glucose Oxidase-Based Biosensor and Its Application for Glucose Determination in Juices and Nectars**
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- XXV. **Nano- and micro-sized zeolites as a perspective material for potentiometric 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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- XXVII. **Photochromic behavior of silver nanoparticle incorporated titanosilicate ETS-10 films**
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- XXXI. **Direct evidence of advantage of using nanosized zeolite Beta for ISFET-based biosensor construction**
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- XXXII. **Application of Different Zeolites for Improvement of the Characteristics of a pH-FET Biosensor Based on Immobilized Urease**

- Soldatkin O. O., Kucherenko I. S., Shelyakina M. K., Soy E., Kirdeciler K., ÖZTÜRK S., Jaffrezic-Renault N., AKATA KURÇ B., Dzyadevych S. V., Soldatkin A. P.
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- XXXIII. **Investigation of characteristics of urea and butyrylcholine chloride biosensors based on ion-selective field-effect transistors modified by the incorporation of heat-treated zeolite Beta crystals**
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- XXXV. **Elaboration of Urease Adsorption on Silicalite for Biosensor Creation**
Kucherenko I. S., Soldatkin O. O., Kasap B. O., ÖZTÜRK S., AKATA KURÇ B., Soldatkin A. P., Dzyadevych S. V.
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- XL. **Oriented assembly and nanofabrication of zeolite A monolayers**
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- XLII. **Titanosilicate ETS-10 as a Lewis acid catalyst in the Meerwein-Ponndorf-Verley (MPV) reaction**
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- I. **Humidity Sensing Behavior of Microporous Titanosilicate and Vanadosilicate Thin Films**
Davoudnezhad R., Kuzkaya D., ÇAM İ., AKATA KURÇ B.

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- II. **FLY ASH TO ZEOLITE: EFFECT OF FLY ASH CHARACTERISTICS ON ZEOLITE 4A SYNTHESIS**
Akn Ş., Kirdeciler K. S., KAZANÇ ÖZERİNÇ F., AKATA KURÇ B.
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- III. **Humidity Sensors Based on microporous Titanosilicate Vanadosilicate Thin Films**
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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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- VIII. **Exhaled breath analysis with Sn doped ZnO sensors for the identification and characterization of asthma disease**
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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_{1-x}Cu_xO 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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- XVII. **Investigation of photocatalytic activities of vanadium silicate AM-6 thin films**
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- XVIII. **Fabrication of Zeolite modified Cu doped ZnO films and their response towards nitrogen monoxide**
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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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- XXIII. **Antimicrobial Paint Coating Containing Single and Binary Ion exchanged Zeolite A**
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- XXIV. **Zeolite type Titanosilicate ETS 10 Thin Films as a Humidity Sensor**
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- XXV. **Resist Free Zeolite Patterning with Electron Beam Lithography Zeolite Lithography**
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