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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

Yönetilen Tezler

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TURAN R., AKATA KURÇ B., Thickness determination of thin films by energy dispersive x-ray spectroscopy, Yüksek Lisans, S.CANLI(Öğrenci), 2010

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AKATA KURÇ B., Synthesis of Zeolite Beta for Composite Membranes, Yüksek Lisans, N.GÜR(Öğrenci), 2006

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. **Investigating antimicrobial behavior of thymol/Zn encapsulated hierarchically structured zeolite and thymol release kinetics**
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- II. **Tailoring titanosilicate molecular sieves by vanadium substitution for humidity sensing applications**
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- III. **Solarization of the zeolite production: Calcination of kaolin as proof-of-concept**
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- V. **Development of three-enzyme lactose amperometric biosensor modified by nanosized poly (meta-phenylenediamine) film**

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- VI. **Critical analysis of zeolite 4A synthesis through one-pot fusion hydrothermal treatment approach for class F fly ash**
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- IX. **Development of antibacterial powder coatings using single and binary ion-exchanged zeolite A prepared from local kaolin**
İŞLER BİNAY M., KİRDECİLER S. K., AKATA KURÇ B.
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- X. **The effect of microporous vanadosilicate AM-6 thin films as photocatalysts for the degradation of methylene blue**
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- XI. **New Mixed Conductivity Mechanisms in the Cold Plasma Device Based on Silver-Modified Zeolite Microporous Electronic Materials**
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- XII. **Low level NO gas sensing properties of Cu doped ZnO thin films prepared by SILAR method**
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- XIV. **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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- XV. **A Novel Amperometric Glutamate Biosensor Based on Glutamate Oxidase Adsorbed on Silicalite**
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- XVI. **Biosensors Based on Nano-Gold/Zeolite-Modified Ion Selective Field-Effect Transistors for Creatinine Detection**
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- XIX. **Effects of pressure and electric field on the charge transport mechanisms in the silver-modified-zeolite porous microstructure**

- Koc S. O., Koseoglu K., Galioglu S., AKATA KURÇ B., SALAMOV B.
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- XX. **A Novel Conductometric Urea Biosensor with Improved Analytical Characteristic Based on Recombinant Urease Adsorbed on Nanoparticle of Silicalite**
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- XXI. **Development of Silicalite/Glucose Oxidase-Based Biosensor and Its Application for Glucose Determination in Juices and Nectars**
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- XXII. **Nanosized zeolites as a perspective material for conductometric biosensors creation**
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- XXV. **Understanding the Effects of Ion-Exchange in Titanosilicate ETS-10: A Joint Theoretical and Experimental Study**
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- XXVI. **Photochromic behavior of silver nanoparticle incorporated titanosilicate ETS-10 films**
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- XXVII. **Application of enzyme/zeolite sensor for urea analysis in serum**
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- XXVIII. **Urease-based ISFET biosensor for arginine determination**
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- XXIX. **Study of zeolite influence on analytical characteristics of urea biosensor based on ion-selective field-effect transistors**
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- XXX. **Direct evidence of advantage of using nanosized zeolite Beta for ISFET-based biosensor construction**
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- XXXI. **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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- XXXII. **Investigation of characteristics of urea and butyrylcholine chloride biosensors based on ion-**

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- XXXIV. **Elaboration of Urease Adsorption on Silicalite for Biosensor Creation**
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- XXXV. **Influence of Composition of Zeolite/Enzyme Nanobiocomposites on Analytical Characteristics of Urea Biosensor Based on Ion-Selective Field-Effect Transistors**
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- XXXVI. **Conductometric enzyme biosensors based on natural zeolite clinoptilolite for urea determination**
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- XXXVIII. **Preparation and microstructural characterization of oriented titanosilicate ETS-10 thin films on indium tin oxide surfaces**
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- XXXIX. **Oriented assembly and nanofabrication of zeolite A monolayers**
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- XLI. **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**
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- II. **FLY ASH TO ZEOLITE: EFFECT OF FLY ASH CHARACTERISTICSON 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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- 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**
Ozansoy B., Dzyadevych S., AKATA KURÇ B.
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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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- XXIII. **Antimicrobial Paint Coating Containing Single and Binary Ion exchanged Zeolite A**
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- XXIV. **Zeolite 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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- XXVI. **Secondary Growth of Microporous Vanadosilicate AM 6 Films**
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Metrikler

Yayın: 73

Atıf (WoS): 475

Atıf (Scopus): 656

H-İndeks (WoS): 13

H-İndeks (Scopus): 16

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