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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

AKATA KURÇ B., Synthesis and characterization of microporous titano/vanadosilicate zeotype films for humidity sensing applications, Doktora, R.DAVOUDNEZHAD(Öğrenci), 2022

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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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- VIII. **Microporous vanadosilicate films with tailorable V4+/V5+ ratio to achieve enhanced visible-light photocatalysis**
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- IX. **One pot fusion route for the synthesis of zeolite 4A using kaolin**
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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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- XI. **The effect of microporous vanadosilicate AM-6 thin films as photocatalysts for the degradation of methylene blue**
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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**
Soldatkina O. V., Soldatkin O. O., Kasap B. O., Kucherenko D. Y., Kucherenko I. S., AKATA KURÇ B., Dzyadevych S. V.
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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**
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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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- XXIV. **Application of silicalite-modified electrode for the development of sucrose biosensor with improved characteristics**
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- XXV. **Nano- and microsized 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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- XXIX. **Urease-based ISFET biosensor for arginine determination**
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- XXX. **Study of zeolite influence on analytical characteristics of urea biosensor based on ion-selective field-effect transistors**
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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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- 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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- XXXVI. **Influence of Composition of Zeolite/Enzyme Nanobiocomposites on Analytical Characteristics of Urea Biosensor Based on Ion-Selective Field-Effect Transistors**
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- XXXIX. **Preparation and microstructural characterization of oriented titanosilicate ETS-10 thin films on indium tin oxide surfaces**
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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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- XLIII. **Synthesis of antibacterial zeolite-polyurethane composites**
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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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- 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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- 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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- XII. **Effect of microporous vanadosilicate AM-6 thin films as photocatalysts for the degradation of methylene blue**
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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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- 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**
İsler M., AKATA KURÇ B.
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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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