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Eğitim Bilgileri

Post Doktora, University of Illinois at Urbana-Champaign, College Of Engineering, Materials Science And Engineering, Amerika Birleşik Devletleri 2012 - 2014

Doktora, University of Wisconsin-Madison, College Of Engineering, Chemical Engineering, Amerika Birleşik Devletleri 2006 - 2012

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri, Malzeme Bilimi Ve Mühendisliği, Türkiye 2004 - 2006

Lisans, İstanbul Teknik Üniversitesi, Kimya-Metalurji, Kimya Mühendisliği, Türkiye 2000 - 2004

Yaptığı Tezler

Doktora, Site-Specific Placement of DNA Molecules and Au Nanoparticles on Chemical Nanopatterns, University Of Wisconsin-Madison, College Of Engineering, Chemical Engineering, 2014

Yüksek Lisans, Preparation of Polyacrylamide-ClayNanocompositesbyRedoxPolymerization, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Malzeme Bilimi Mühendisliği, 2006

Araştırma Alanları

Teknik Bilimler, Metalurji ve Malzeme Mühendisliği, Malzeme Bilimi ve Mühendisliği, Polimerik Malzemeler, Nanomalzemeler, Yapı-Özellik İlişkisi , Temel Bilimler, Kimya, Fizikokimya, Arayüz Kimyası, Fonksiyonel Polimerler, Polimerik Filmler

Akademik Unvanlar / Görevler

Prof. Dr., Erciyes Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2021 - Devam Ediyor

Doç. Dr., Erciyes Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2016 - 2021

Yrd. Doç. Dr., Erciyes Üniversitesi, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2014 - 2016

Akademik İdari Deneyim

Erciyes Üniversitesi, 2015 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Advancements in reusable SERS substrates for trace analysis applications**
YAVUZ E., ŞAKİR M., ÖNSES M. S., Salem S., YILMAZ E.
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- II. **Coffee-Ring Mediated Thinning and Thickness-Dependent Dewetting Modes in Printed Polymer Droplets Coupled with Assembly of Quantum Dots for Anti-Counterfeiting**
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- III. **Unlocking the Potential of Bismuth-Based Materials in Supercapacitor Technology: A Comprehensive Review**
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- IV. **Flexible electrodes composed of flower-like MoS₂ and MXene for supercapacitor applications**
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- V. **Activation of epidermal growth factor receptors in triple-negative breast cancer cells by morphine; analysis through Raman spectroscopy and machine learning.**
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- VI. **Roughness-dependent hydrophobicity of polydimethylsiloxane grafted titanium thin films**
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- VII. **Ultradurable Embedded Physically Unclonable Functions**
Esidir A., PEKDEMİR S., KALAY M., ÖNSES M. S.
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- VIII. **Redox electrolyte mediated performance enhancement in aqueous zinc ion hybrid supercapacitors composed of spinel BaFe₂O₄ and cubic Cu₂O**
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- IX. **Photoluminescent and superhydrophobic nanocomposites of perovskite nanocrystals**
Karabel Ocal S., ÇELİK N., ÖNSES M. S., MUTLUGÜN E.
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- X. **Changes in chemical properties and microstructure of Pinus taeda and Eucalyptus bosistoana woods modified by contact charring**
TUNCER F. D., KARTAL S. N., SOYTÜRK E. E., Arango R. A., Ohno K. M., ÖNSES M. S., ÇELİK N., Ibanez C. M.
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- XI. **pH Tunable Patterning of Quantum Dots**
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- XII. **Addressable and stable physically unclonable functions based on cross-linked poly(2-vinylpyridine)**
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- XIII. **Inkjet Printing of Aqueous Silver Inks on Water-Soluble Fabrics for Transient Electronics Applications**
Gozutok Onses Z., KİREMİTLER N. B., Ozbasaran A., Huang X., ÖNSES M. S., Usta H.
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- XV. **TiO₂ and Ag NPs modified polyacrylonitrile NFs: Antimicrobial, self-cleaning and SERS**

sensing capabilities for protective clothing applications

Ceylan A., Karagoz S., Tekin S., Kayaci N., Pekdemir S., Salem S., Gokduman E. M., Demirci E., Sahmetlioglu E., Onses M. S., et al.

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- XVI. **Mechanochemical Activation of Silicone for Large-Scale Fabrication of Anti-Biofouling Liquid-like Surfaces**
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- XVII. **Polymer nanofilm mediated photo-assisted growth of gold nanostructures for sensing of drugs**
Kayaci N., Şakir M., Esidir A., Yılmaz E., Onses M. S.
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- XVIII. **Changes in the Physical and Mechanical Properties of Pinus taeda and Eucalyptus bosistoana Wood Modified by Contact Charring**
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- XIX. **Asymmetric and zinc-ion hybrid supercapacitors based on iron oxide and carbon dots**
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- XX. **Food-Grade Physically Unclonable Functions**
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- XXI. **A flexible wearable device coupled with injectable Fe₃O₄ nanoparticles for capturing circulating tumor cells and triggering their deaths**
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- XXII. **Mechanochemical Coupling of Alkylsilanes to Nanoparticles for Solvent-Free and Rapid Fabrication of Superhydrophobic Materials**
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- XXIII. **Evaluation of wood treated with Paraloid B72® and boric acid: thermal behavior, water absorption and mold resistance**
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- XXIV. **High energy density hybrid supercapacitors based on graphitic carbon nitride modified BiFeO₃ and biomass-derived activated carbon**
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- XXV. **Graphene-Based Physically Unclonable Functions with Dual Source of Randomness**
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- XXVI. **Sustainable and Practical Superhydrophobic Surfaces via Mechanochemical Grafting**
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- XXVII. **Silver nanoflowers with SERS activity and unclonable morphology**
ŞAKİR M., Torun N., Kayaci N., TÖRÜN İ., Kalay M., ÖNSES M. S.
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- XXVIII. **Disintegration and Machine-Learning-Assisted Identification of Bacteria on Antimicrobial and Plasmonic Ag-Cu_xO Nanostructures**
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- XXIX. **Self-Healing of Biocompatible Superhydrophobic Coatings: The Interplay of the Size and Loading of**

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- XXX. **Scalable Fabrication of MXene-PVDF Nanocomposite Triboelectric Fibers via Thermal Drawing**
Hasan M. M., Sadeque M. S. B., Albasar I., YILMAZ E., KILIÇ DOKAN F., Onses M. S., Ordu M.
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- XXXI. **Preliminary evaluation of polydimethylsiloxane and hydrophobic silica nanoparticles to improve water repellency and boron leachability in wood**
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- XXXII. **Instant formation of nanopores on flexible polymer membranes using intense pulsed light and nanoparticle templates**
Ren M., Li T., Huo W., Guo Y., Xia Z., Li Y., Niu J., ÖNSES M. S., Huang X.
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- XXXIII. **Rational Integration of ZIF-8 and BiPO₄ for Energy Storage and Environmental Applications**
Yetiman S., Karagoz S., KILIÇ DOKAN F., ÖNSES M. S., YILMAZ E., ŞAHMETLİOĞLU E.
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- XXXIV. **Hybrid electrodes composed of graphitic carbon nitride and zeolitic imidazolate framework-67 for supercapacitor applications**
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- XXXV. **Indomethacin prevents TGF-beta-induced epithelial-to-mesenchymal transition in pancreatic cancer cells; evidence by Raman spectroscopy**
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- XXXVI. **Machine Learning-Assisted Pesticide Detection on a Flexible Surface-Enhanced Raman Scattering Substrate Prepared by Silver Nanoparticles**
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- XXXVII. **Unclonable Features via Electro spraying of Bulk Polymers**
Esidir A., KİREMİTLER N. B., Kalay M., BAŞTÜRK A., ÖNSES M. S.
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- XXXVIII. **One-step Green Fabrication of Antimicrobial Surfaces via In Situ Growth of Copper Oxide Nanoparticles**
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- XXXIX. **Highly compressible binder-free sponge supercapacitor electrode based on flower-like NiO/MnO₂/CNT**
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- XL. **Superhydrophobic coatings for food packaging applications: A review**
Ruzi M., ÇELİK N., ÖNSES M. S.
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- XLI. **Transferrable SERS Barcodes**
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- XLII. **Nanostructures for the Prevention, Diagnosis, and Treatment of SARS-CoV-2: A Review**
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- XLIII. **Microwave-assisted fabrication of high-performance supercapacitors based on electrodes composed**

- of cobalt oxide decorated with reduced graphene oxide and carbon dots**
Yetiman S., Pecenek H., KILIÇ DOKAN F., ÖNSES M. S., Yilmaz E., ŞAHMETLİOĞLU E.
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- XLIV. **Natural Wax-Stabilized Perovskite Nanocrystals as Pen-on-Paper Inks and Doughs**
Karabel Ocal S., KİREMİTLER N. B., YAZICI A. F., ÇELİK N., MUTLUGÜN E., ÖNSES M. S.
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- XLV. **Outstanding supercapacitor performance with intertwined flower-like NiO/ MnO₂/CNT electrodes**
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- XLVI. **Organic Light-Emitting Physically Unclonable Functions**
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- XLVII. **Effects of carbon nanomaterials and MXene addition on the performance of nitrogen doped MnO₂ based supercapacitors**
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- XLVIII. **Antifouling superhydrophobic surfaces with bactericidal and SERS activity**
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- XLIX. **From bio-waste to biomaterials: The eggshells of Chinese oak silkworm as templates for SERS-active surfaces**
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- L. **Robust superhydrophobic fabrics by infusing structured polydimethylsiloxane films**
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- LI. **Mesoporous one-component gold microshells as 3d sers substrates**
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- LII. **Blood repellent superhydrophobic surfaces constructed from nanoparticle-free and biocompatible materials**
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- LIII. **Production of natural chitin film from pupal shell of moth: Fabrication of plasmonic surfaces for SERS-based sensing applications**
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- LIV. **Ink-jet printing of particle-free silver inks on fabrics with a superhydrophobic protection layer for fabrication of robust electrochemical sensors**
İPEKÇİ H. H., Gozutok Z., ÇELİK N., ÖNSES M. S., UZUNOĞLU A.
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- LV. **Waxing the soot: Practical fabrication of all-organic superhydrophobic coatings from candle soot and carnauba wax**
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- LVI. **Physically Unclonable Surfaces via Dewetting of Polymer Thin Films**
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- LVII. **Rapid fabrication of high-performance transparent electrodes by electrospinning of reactive silver ink containing nanofibers**
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- LVIII. **Sponge-derived natural bioactive glass microspheres with self-assembled surface channel arrays opening into a hollow core for bone tissue and controlled drug release applications**
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- LIX. **SERS-active linear barcodes by microfluidic-assisted patterning**
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- LX. **Antibacterial, Antiviral, and Self-Cleaning Mats with Sensing Capabilities Based on Electrospun Nanofibers Decorated with ZnO Nanorods and Ag Nanoparticles for Protective Clothing Applications**
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- LXI. **Fabrication of superhydrophobic Ag@ZnO@Bi₂WO₆ membrane disc as flexible and photocatalytic active reusable SERS substrate**
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- LXII. **Transferring the structure of paper for mechanically durable superhydrophobic surfaces**
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- LXIII. **Chitosan Loses Innate Beneficial Properties after Being Dissolved in Acetic Acid: Supported by Detailed Molecular Modeling**
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- LXIV. **Fabrication of robust superhydrophobic surfaces by one-step spray coating: Evaporation driven self-assembly of wax and nanoparticles into hierarchical structures**
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- LXV. **Usage of natural chitosan membrane obtained from insect corneal lenses as a drug carrier and its potential for point of care tests**
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- LXVI. **Chemical Funneling of Colloidal Gold Nanoparticles on Printed Arrays of End-Grafted Polymers for Plasmonic Applications**
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- LXVII. **Effect of fabric texture on the durability of fluorine-free superhydrophobic coatings**
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- LXVIII. **SERS-active hydrophobic substrates fabricated by surface growth of Cu nanostructures**
ŞAKİR M., YILMAZ E., ÖNSES M. S.
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- LXIX. **Low bandgap microsphere-like magnetic nanocomposite: An enhanced photocatalyst for degradation of organic contaminants and fabrication of SERS-active surfaces**
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- LXX. **Multiplexed patterning of cesium lead halide perovskite nanocrystals by additive jet printing for**

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- LXXI. **Writing chemical patterns using electrospun fibers as nanoscale inkpots for directed assembly of colloidal nanocrystals**
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