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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 Gakültesi, 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. **Flexible electrodes composed of flower-like MoS₂ and MXene for supercapacitor applications**
Hayat H. P., Dokan F. K., ÖNSES M. S., YILMAZ E., Duran A., ŞAHMETLİOĞLU E.
Materials Research Bulletin, cilt.175, 2024 (SCI-Expanded)
- II. **Roughness-dependent hydrophobicity of polydimethylsiloxane grafted titanium thin films**
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- III. **Ultradurable Embedded Physically Unclonable Functions**
Esidir A., PEKDEMİR S., KALAY M., ÖNSES M. S.
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- IV. **Redox electrolyte mediated performance enhancement in aqueous zinc ion hybrid supercapacitors composed of spinel BaFe₂O₄ and cubic Cu₂O**
Yetiman S., KILIÇ DOKAN F., ÖNSES M. S., Yilmaz E., ÖZDEMİR A. T., ŞAHMETLİOĞLU E.
JOURNAL OF MATERIALS CHEMISTRY C, 2024 (SCI-Expanded)
- V. **Photoluminescent and superhydrophobic nanocomposites of perovskite nanocrystals**
Karabel Ocal S., ÇELİK N., ÖNSES M. S., MUTLUGÜN E.
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- VI. **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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- VII. **pH Tunable Patterning of Quantum Dots**
Törün İ., Huang C., Kalay M., Shim M., Önses M. S.
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- VIII. **Addressable and stable physically unclonable functions based on cross-linked poly(2-vinylpyridine)**
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- IX. **pH Tunable Patterning of Quantum Dots (Small 2/2024)**
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- X. **TiO₂ and Ag NPs modified polyacrylonitrile NFs: Antimicrobial, self-cleaning and SERS sensing capabilities for protective clothing applications**
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- XI. **Mechanochemical Activation of Silicone for Large-Scale Fabrication of Anti-Biofouling Liquid-like Surfaces**
Çelik N., Sahin F., Ruzi M., Ceylan A., Butt H., Önses M. S.
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- XII. **Changes in the Physical and Mechanical Properties of Pinus taeda and Eucalyptus bosistoana Wood Modified by Contact Charring**
Ibanez C. M., KARTAL S. N., SOYTÜRK E. E., KURUL F., ŞEKER S., ÖNSES M. S., ÇELİK N., Temiz A. B.
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- XIII. **Polymer nanofilm mediated photo-assisted growth of gold nanostructures for sensing of drugs**
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- XIV. **Asymmetric and zinc-ion hybrid supercapacitors based on iron oxide and carbon dots**
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- XV. **Food-Grade Physically Unclonable Functions**

- Esidir A., Kayaci N., KİREMİTLER N. B., Kalay M., Sahin F., SEZER G., Kaya M., ÖNSES M. S.
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- XVI. **A flexible wearable device coupled with injectable Fe3O4 nanoparticles for capturing circulating tumor cells and triggering their deaths**
Li Y., Liu X., Zhang Y., Wu Z., Ling W., Zhang X., Zhou M., ÖNSES M. S., Zhou P., Mao S., et al.
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- XVII. **Mechanochemical Coupling of Alkylsilanes to Nanoparticles for Solvent-Free and Rapid Fabrication of Superhydrophobic Materials**
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- XVIII. **High energy density hybrid supercapacitors based on graphitic carbon nitride modified BiFeO₃ and biomass-derived activated carbon**
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- XIX. **Evaluation of wood treated with Paraloid B72® and boric acid: thermal behavior, water absorption and mold resistance**
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- XX. **Graphene-Based Physically Unclonable Functions with Dual Source of Randomness**
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- XXI. **Sustainable and Practical Superhydrophobic Surfaces via Mechanochemical Grafting**
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- XXII. **Silver nanoflowers with SERS activity and unclonable morphology**
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- XXIII. **Disintegration and Machine-Learning-Assisted Identification of Bacteria on Antimicrobial and Plasmonic Ag-Cu_XO Nanostructures**
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- XXIV. **Self-Healing of Biocompatible Superhydrophobic Coatings: The Interplay of the Size and Loading of Particles**
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- XXV. **Scalable Fabrication of MXene-PVDF Nanocomposite Triboelectric Fibers via Thermal Drawing**
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- XXVI. **Preliminary evaluation of polydimethylsiloxane and hydrophobic silica nanoparticles to improve water repellency and boron leachability in wood**
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- XXVII. **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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- XXVIII. **Rational Integration of ZIF-8 and BiPO₄ for Energy Storage and Environmental Applications**
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- XXIX. **Hybrid electrodes composed of graphitic carbon nitride and zeolitic imidazolate framework-67 for supercapacitor applications**

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- XXX. **Indomethacin prevents TGF-beta-induced epithelial-to-mesenchymal transition in pancreatic cancer cells; evidence by Raman spectroscopy**
SEZER G., ÖNSES M. S., ŞAKİR M., Sahin F., camdal A., SEZER Z., İNAL A., Ciftci Z.
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- XXXI. **Machine Learning-Assisted Pesticide Detection on a Flexible Surface-Enhanced Raman Scattering Substrate Prepared by Silver Nanoparticles**
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- XXXII. **Unclonable Features via Electrospraying of Bulk Polymers**
Esimir A., KİREMİTLER N. B., Kalay M., BAŞTÜRK A., ÖNSES M. S.
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- XXXIII. **One-step Green Fabrication of Antimicrobial Surfaces via In Situ Growth of Copper Oxide Nanoparticles**
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- XXXIV. **Highly compressible binder-free sponge supercapacitor electrode based on flower-like NiO/MnO₂/CNT**
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- XXXV. **Superhydrophobic coatings for food packaging applications: A review**
Ruzi M., ÇELİK N., ÖNSES M. S.
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- XXXVI. **Transferrable SERS Barcodes**
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- XXXVII. **Microwave-assisted fabrication of high-performance supercapacitors based on electrodes composed of cobalt oxide decorated with reduced graphene oxide and carbon dots**
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- XXXVIII. **Outstanding supercapacitor performance with intertwined flower-like NiO/ MnO₂/CNT electrodes**
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- XXXIX. **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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- XL. **Nanostructures for the Prevention, Diagnosis, and Treatment of SARS-CoV-2: A Review**
Kiremitler N. B., Kemerli M. Z., Kayaci N., Karagoz S., Pekdemir S., Sarp G., Sanduvaç S., Önses M. S., Yilmaz E.
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- XLI. **Organic Light-Emitting Physically Unclonable Functions**
Kayaci N., Ozdemir R., Kalay M., KİREMİTLER N. B., USTA H., ÖNSES M. S.
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- XLII. **Effects of carbon nanomaterials and MXene addition on the performance of nitrogen doped MnO₂ based supercapacitors**
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- XLIII. **Antifouling superhydrophobic surfaces with bactericidal and SERS activity**
Sahin F., Çelik N., Ceylan A., Pekdemir S., Ruzi M., Önses M. S.
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- XLIV. From bio-waste to biomaterials: The eggshells of Chinese oak silkworm as templates for SERS-active surfaces**
Zang L., Chen Y., Koc-Bilican B., Bilican I., ŞAKİR M., Wait J., Çolak A., Karaduman T., CEYLAN A., Ali A., et al.
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- XLV. Robust superhydrophobic fabrics by infusing structured polydimethylsiloxane films**
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- XLVI. Mesoporous one-component gold microshells as 3d sers substrates**
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- XLVII. Blood repellent superhydrophobic surfaces constructed from nanoparticle-free and biocompatible materials**
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- XLVIII. Production of natural chitin film from pupal shell of moth: Fabrication of plasmonic surfaces for SERS-based sensing applications**
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- XLIX. Ink-jet printing of particle-free silver inks on fabrics with a superhydrophobic protection layer for fabrication of robust electrochemical sensors**
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- L. Waxing the soot: Practical fabrication of all-organic superhydrophobic coatings from candle soot and carnauba wax**
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- LI. Physically Unclonable Surfaces via Dewetting of Polymer Thin Films**
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- LII. 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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- LIII. Rapid fabrication of high-performance transparent electrodes by electrospinning of reactive silver ink containing nanofibers**
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- LIV. SERS-active linear barcodes by microfluidic-assisted patterning**
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- LV. 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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- LVI. Transferring the structure of paper for mechanically durable superhydrophobic surfaces**
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- LVII. Fabrication of superhydrophobic Ag@ZnO@Bi₂W₀6 membrane disc as flexible and photocatalytic active reusable SERS substrate**

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- LVIII. **Chitosan Loses Innate Beneficial Properties after Being Dissolved in Acetic Acid: Supported by Detailed Molecular Modeling**
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- LIX. **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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- LX. **Chemical Funneling of Colloidal Gold Nanoparticles on Printed Arrays of End-Grafted Polymers for Plasmonic Applications**
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- LXI. **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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- LXII. **Effect of fabric texture on the durability of fluorine-free superhydrophobic coatings**
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- LXIII. **SERS-active hydrophobic substrates fabricated by surface growth of Cu nanostructures**
ŞAKİR M., YILMAZ E., ÖNSES M. S.
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- LXIV. **Low bandgap microsphere-like magnetic nanocomposite: An enhanced photocatalyst for degradation of organic contaminants and fabrication of SERS-active surfaces**
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- LXV. **Multiplexed patterning of cesium lead halide perovskite nanocrystals by additive jet printing for efficient white light generation**
ALTINTAS Y., Torun İ., YAZICI A. F., Beskazak E., Erdem T., Onses M. S., MUTLUGÜN E.
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- LXVI. **Writing chemical patterns using electrospun fibers as nanoscale inkpots for directed assembly of colloidal nanocrystals**
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- LXVII. **Synthesis of Ag and TiO₂ modified polycaprolactone electrospun nanofibers (PCL/TiO₂-Ag NFs) as a multifunctional material for SERS, photocatalysis and antibacterial applications**
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- LXVIII. **Raman spectroscopy: A novel experimental approach to evaluating cisplatin induced tissue damage**
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- LXIX. **Photocatalytic green fabrication of Au nanoparticles on ZnO nanorods modified membrane as flexible and photocatalytic active reusable SERS substrates**
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- LXX. **Superhydrophobic coatings made from biocompatible polydimethylsiloxane and natural wax**

- Torun İ., Ruzi M., Er F., Onses M. S.
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- LXXI. **Solid substrates decorated with Ag nanostructures for the catalytic degradation of methyl orange**
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