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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. **Antimicrobial, anti-biofouling, antioxidant, and biocompatible fabrics with high durability via green growth of trimetallic nanoparticles**
DEMİREL ŞAHİN G., Sahin F., BARLAS F. B., ÖNSES M. S., ACAR S.
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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**
TÖRÜN İ., Huang C., KİREMİTLER N. B., KALAY M., Shim M., ÖNSES M. S.
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- III. **Advancements in reusable SERS substrates for trace analysis applications**
YAVUZ E., ŞAKİR M., ÖNSES M. S., Salem S., YILMAZ E.
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- IV. **Unlocking the Potential of Bismuth-Based Materials in Supercapacitor Technology: A Comprehensive Review**
Yetiman S., Peçenek H., Dokan F. K., SANDUVAÇ S., ÖNSES M. S., YILMAZ E., ŞAHMETLİOĞLU E.
ChemElectroChem, cilt.11, sa.14, 2024 (SCI-Expanded)
- V. **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.
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- VI. **Roughness-dependent hydrophobicity of polydimethylsiloxane grafted titanium thin films**
FOADI F., ÇELİK N., Esidir A., ÖNSES M. S.
Surface and Coatings Technology, cilt.483, 2024 (SCI-Expanded)
- VII. **Activation of epidermal growth factor receptors in triple-negative breast cancer cells by morphine; analysis through Raman spectroscopy and machine learning.**
Sezer G., Sahin F., Onses M. S., Cumaoglu A.
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- VIII. **Ultradurable Embedded Physically Unclonable Functions**
Esidir A., PEKDEMİR S., KALAY M., ÖNSES M. S.
ACS Applied Materials and Interfaces, cilt.16, sa.13, ss.16532-16543, 2024 (SCI-Expanded)
- IX. **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, cilt.12, sa.19, ss.6865-6880, 2024 (SCI-Expanded)
- X. **Photoluminescent and superhydrophobic nanocomposites of perovskite nanocrystals**
Karabel Ocal S., ÇELİK N., ÖNSES M. S., MUTLUGÜN E.
Surfaces and Interfaces, cilt.46, 2024 (SCI-Expanded)
- XI. **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.
European Journal of Wood and Wood Products, cilt.82, sa.1, ss.107-121, 2024 (SCI-Expanded)
- XII. **pH Tunable Patterning of Quantum Dots**
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- XIII. **Addressable and stable physically unclonable functions based on cross-linked poly(2-vinylpyridine)**
Kalay M., Esidir A., Ruzi M., KİREMİTLER N. B., ÖNSES M. S.
EUROPEAN POLYMER JOURNAL, cilt.202, 2024 (SCI-Expanded)
- XIV. **pH Tunable Patterning of Quantum Dots (Small 2/2024)**
TÖRÜN İ., Huang C., KALAY M., Shim M., ÖNSES M. S.
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- XV. **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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- XVI. **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.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, cilt.678, 2023 (SCI-Expanded)
- XVII. **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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- XVIII. **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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- XIX. **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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- XX. **Asymmetric and zinc-ion hybrid supercapacitors based on iron oxide and carbon dots**
Yetiman S., Kılıç Dokan F., ÖNSES M. S., Huang X., YILMAZ E., ŞAHMETLİOĞLU E.
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- XXI. **Food-Grade Physically Unclonable Functions**
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- XXII. **A flexible wearable device coupled with injectable Fe₃O₄ nanoparticles for capturing circulating tumor cells and triggering their deaths**
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- XXIII. **Mechanochemical Coupling of Alkylsilanes to Nanoparticles for Solvent-Free and Rapid Fabrication of Superhydrophobic Materials**
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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. **Evaluation of wood treated with Paraloid B72® and boric acid: thermal behavior, water absorption and mold resistance**
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- XXVI. **Graphene-Based Physically Unclonable Functions with Dual Source of Randomness**
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- XXVII. **Sustainable and Practical Superhydrophobic Surfaces via Mechanochemical Grafting**
ÇELİK N., Akay S., Sahin F., SEZER G., DAĞAŞAN BULUCU E., Ruzi M., Butt H., ÖNSES M. S.
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- XXVIII. **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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- XXIX. **Disintegration and Machine-Learning-Assisted Identification of Bacteria on Antimicrobial and**

Plasmonic Ag-Cu_XO Nanostructures

Sahin F., Camdal A., DEMİREL ŞAHİN G., CEYLAN A., Ruzi M., Onses M. S.

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- XXX. **Self-Healing of Biocompatible Superhydrophobic Coatings: The Interplay of the Size and Loading of Particles**
ÇELİK N., Sahin F., Ozel S. S., SEZER G., Gunaltay N., Ruzi M., ÖNSES M. S.
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- XXXI. **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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- XXXII. **Preliminary evaluation of polydimethylsiloxane and hydrophobic silica nanoparticles to improve water repellency and boron leachability in wood**
SOYTÜRK E. E., KARTAL S. N., ÖNSES M. S., ÇELİK N.
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- XXXIII. **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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- XXXIV. **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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- XXXV. **Hybrid electrodes composed of graphitic carbon nitride and zeolitic imidazolate framework-67 for supercapacitor applications**
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- XXXVI. **Indomethacin prevents TGF-beta-induced epithelial-to-mesenchymal transition in pancreatic cancer cells; evidence by Raman spectroscopy**
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- XXXVII. **Machine Learning-Assisted Pesticide Detection on a Flexible Surface-Enhanced Raman Scattering Substrate Prepared by Silver Nanoparticles**
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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**
Pecenek H., KILIÇ DOKAN F., Onses M. S., Yilmaz E., Sahmetlioglu E.
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- XL. **Unclonable Features via Electrospraying of Bulk Polymers**
Esidir A., KİREMİTLER N. B., Kalay M., BAŞTÜRK A., ÖNSES M. S.
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- XLI. **Transferrable SERS Barcodes**
Sahin F., Pekdemir S., Sakir M., Gozutok Z., Onses M. S.
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- XLII. **Superhydrophobic coatings for food packaging applications: A review**
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- XLIII. **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., Yılmaz E.
ACS APPLIED NANO MATERIALS, cilt.5, sa.5, ss.6029-6054, 2022 (SCI-Expanded)
- XLIV. **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., Yılmaz E., ŞAHMETLİOĞLU E.
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- XLV. **Outstanding supercapacitor performance with intertwined flower-like NiO/ MnO₂/CNT electrodes**
Pecenek H., KILIÇ DOKAN F., ÖNSES M. S., Yılmaz E., ŞAHMETLİOĞLU E.
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- XLVI. **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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- XLVII. **Organic Light-Emitting Physically Unclonable Functions**
Kayaci N., Ozdemir R., Kalay M., KİREMİTLER N. B., USTA H., ÖNSES M. S.
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- XLVIII. **Effects of carbon nanomaterials and MXene addition on the performance of nitrogen doped MnO₂ based supercapacitors**
Pecenek H., Yetiman S., KILIÇ DOKAN F., ÖNSES M. S., YILMAZ E., ŞAHMETLİOĞLU E.
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- XLIX. **Antifouling superhydrophobic surfaces with bactericidal and SERS activity**
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- L. **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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- LI. **Robust superhydrophobic fabrics by infusing structured polydimethylsiloxane films**
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- LII. **Mesoporous one-component gold microshells as 3d sers substrates**
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- LIII. **Blood repellent superhydrophobic surfaces constructed from nanoparticle-free and biocompatible materials**
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- LIV. **Production of natural chitin film from pupal shell of moth: Fabrication of plasmonic surfaces for SERS-based sensing applications**
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- LV. **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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- LVI. **Waxing the soot: Practical fabrication of all-organic superhydrophobic coatings from candle soot and carnauba wax**
ÇELİK N., KİREMİTLER N. B., Ruzi M., ÖNSES M. S.
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- LVII. **Physically Unclonable Surfaces via Dewetting of Polymer Thin Films**
Torun N., Törün İ., Şakir M., Kalay M., Önses M. S.

- ACS APPLIED MATERIALS & INTERFACES, cilt.13, sa.9, ss.11247-11259, 2021 (SCI-Expanded)
- LVIII. **Rapid fabrication of high-performance transparent electrodes by electrospinning of reactive silver ink containing nanofibers**
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- LIX. **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**
KAYA M., Bilican I., Mujtaba M., Sargin I., Haskoylu M. E., Oner E. T., Zheng K., Boccaccini A. R., CANSARAN DUMAN D., ÖNSESES M. S., et al.
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- LX. **SERS-active linear barcodes by microfluidic-assisted patterning**
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- LXI. **Antibacterial, Antiviral, and Self-Cleaning Mats with Sensing Capabilities Based on Electrospun Nanofibers Decorated with ZnO Nanorods and Ag Nanoparticles for Protective Clothing Applications**
Karagoz S., Burak Kiremitler N. B., Sarp G., Pekdemir S., Salem S., Goksu A., Serdar Onses M. S., Sözdutmaz İ., Sahmetlioglu E., Ozkara E. S., et al.
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- LXII. **Fabrication of superhydrophobic Ag@ZnO@Bi₂WO₆ membrane disc as flexible and photocatalytic active reusable SERS substrate**
Korkmaz I., ŞAKİR M., SARP G., Salem S., TÖRÜN İ., Volodkin D., Yavuz E., ÖNSESES M. S., YILMAZ E.
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- LXIII. **Transferring the structure of paper for mechanically durable superhydrophobic surfaces**
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- LXIV. **Chitosan Loses Innate Beneficial Properties after Being Dissolved in Acetic Acid: Supported by Detailed Molecular Modeling**
Bilican I., PEKDEMİR S., ÖNSESES M. S., Akyuz L., Altuner E. M., Koc-Bilican B., Zang L., Mujtaba M., Mulerčikas P., Kaya M.
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- LXV. **Fabrication of robust superhydrophobic surfaces by one-step spray coating: Evaporation driven self-assembly of wax and nanoparticles into hierarchical structures**
ÇELİK N., TÖRÜN İ., Ruzi M., Esidir A., ÖNSESES M. S.
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- LXVI. **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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- LXVII. **Chemical Funneling of Colloidal Gold Nanoparticles on Printed Arrays of End-Grafted Polymers for Plasmonic Applications**
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- LXVIII. **Effect of fabric texture on the durability of fluorine-free superhydrophobic coatings**
ÇELİK N., Altındal S., Gozutok Z., Ruzi M., ÖNSESES M. S.
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- LXIX. **SERS-active hydrophobic substrates fabricated by surface growth of Cu nanostructures**
ŞAKİR M., YILMAZ E., ÖNSESES M. S.
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- LXX. **Low bandgap microsphere-like magnetic nanocomposite: An enhanced photocatalyst for degradation**

of organic contaminants and fabrication of SERS-active surfaces

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- LXXI. **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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