Prof. MUSTAFA SERDAR ÖNSES

Personal Information

Office Phone: +90 352 207 6666 Extension: 32939
Office Phone: +90 352 207 6666 Extension: 13802
Email: onses@erciyes.edu.tr
Web: http://www.onseslab.com/

International Researcher IDs
ORCID: 0000-0001-6898-7700
ScopusID: 37110106300
Yoksis Researcher ID: 205330

Education Information

Post Doctorate, University of Illinois at Urbana-Champaign, College Of Engineering, Materials Science And Engineering, United States Of America 2012 - 2014
Doctorate, University of Wisconsin-Madison, College Of Engineering, Chemical Engineering, United States Of America 2006 - 2012
Postgraduate, Istanbul Technical University, Fen Bilimleri, Malzeme Bilimi Ve Mühendisliği, Turkey 2004 - 2006
Undergraduate, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, Turkey 2000 - 2004

Dissertations

Doctorate, Site-Specific Placement of DNA Molecules and Au Nanoparticles on Chemical Nanopatterns, University Of Wisconsin-Madison, College Of Engineering, Chemical Engineering, 2014
Postgraduate, Preparation of Polyacrylamide-ClayNanocompositesbyRedoxPolymerization, İstanbul Teknik Üniversitesi, Kimya-Metalurji Gakültesi, Malzeme Bilimi Mühendisliği, 2006

Research Areas

Technical Sciences, Metallurgical and Materials Engineering, Material science and engineering, Polymeric Materials, Nanomaterials, Structure-Property Relationship, Basic Sciences, Chemistry, Physical Chemistry, Interface Chemistry, Functional Polymers, Polymeric Films

Academic Titles / Tasks

Professor, Erciyes University, Mühendislik Fakültesi, Malzeme Bilimi ve Mühendisliği, 2021 - Continues
Associate Professor, Erciyes University, Mühendislik Fakültesi, Malzeme Bilimi ve Mühendisliği, 2016 - 2021
Assistant Professor, Erciyes University, Mühendislik Fakültesi, Malzeme Bilimi ve Mühendisliği, 2014 - 2016

Academic and Administrative Experience

Erciyes University, 2015 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

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, vol.175, 2024 (SCI-Expanded)

II. **Photoluminescent and superhydrophobic nanocomposites of perovskite nanocrystals**
Karabel Ocal S., ÇELİK N., ÖNSES M. S., MUTLUGÜN E.
Surfaces and Interfaces, vol.46, 2024 (SCI-Expanded)

III. **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, vol.82, no.1, pp.107-121, 2024 (SCI-Expanded)

IV. **pH Tunable Patterning of Quantum Dots**
Törün İ., Huang C., Kalay M., Shim M., Önses M. S.
SMALL, vol.20, no.2, 2024 (SCI-Expanded)

V. **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, vol.202, 2024 (SCI-Expanded)

VI. **pH Tunable Patterning of Quantum Dots (Small 2/2024)**
TÖRÜN İ., Huang C., KALAY M., Shim M., ÖNSES M. S.
SMALL, no.2, 2024 (SCI-Expanded)

VII. **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, vol.678, 2023 (SCI-Expanded)

VIII. **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.
ACS APPLIED MATERIALS & INTERFACES, vol.15, no.46, pp.54060-54072, 2023 (SCI-Expanded)

IX. **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.
BioResources, vol.18, no.4, pp.8614-8630, 2023 (SCI-Expanded)

X. **Polymer nanofilm mediated photo-assisted growth of gold nanostructures for sensing of drugs**
Kayaci N., Şakir M., Esidir A., Yılmaz E., Onses M. S.
THIN SOLID FILMS, vol.784, 2023 (SCI-Expanded)

XI. **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.
Journal of Energy Storage, vol.68, 2023 (SCI-Expanded)

XII. **Food-Grade Physically Unclonable Functions**
Esidir A., Kayaci N., KİREMİTLER N. B., Kalay M., Sahin F., SEZER G., Kaya M., ÖNSES M. S.
ACS Applied Materials and Interfaces, vol.15, no.35, pp.41373-41384, 2023 (SCI-Expanded)

XIII. **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.
Biosensors and Bioelectronics, vol.235, 2023 (SCI-Expanded)

XIV. **Mechanochemical Coupling of Alkylsilanes to Nanoparticles for Solvent-Free and Rapid Fabrication of Superhydrophobic Materials**
ÇELİK N., Sezen B., Sahin F., CEYLAN A., Ruzi M., ÖNSES M. S.
ACS Applied Nano Materials, vol.6, no.16, pp.14921-14930, 2023 (SCI-Expanded)

XV. **High energy density hybrid supercapacitors based on graphitic carbon nitride modified BiFeO3 and biomass-derived activated carbon**
Pecenek H., Dokan F. K., ÖNSES M. S., YILMAZ E., ŞAHMETLİOĞLU E.
JOURNAL OF ENERGY STORAGE, vol.64, 2023 (SCI-Expanded)

XVI. **Evaluation of wood treated with Paraloid B72® and boric acid: thermal behavior, water absorption and mold resistance**
SOYTÜRK E. E., KARTAL S. N., TERZİ E., ÖNSES M. S., Şarkdemir K., ÇELİK N.
European Journal of Wood and Wood Products, vol.81, no.4, pp.923-934, 2023 (SCI-Expanded)

XVII. **Graphene-Based Physically Unclonable Functions with Dual Source of Randomness**
Lee S., PEKDEMİR S., Kayaci N., Kalay M., ÖNSES M. S., Ye J.
ACS applied materials & interfaces, vol.15, no.28, pp.33878-33889, 2023 (SCI-Expanded)

XVIII. **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.
ADVANCED MATERIALS INTERFACES, vol.10, no.15, 2023 (SCI-Expanded)

XIX. **Silver nanoflowers with SERS activity and unclonable morphology**
ŞAKİR M., Torun N., Kayaci N., TÖRÜN İ., Kalay M., ÖNSES M. S.
MATERIALS TODAY CHEMISTRY, vol.29, 2023 (SCI-Expanded)

XX. **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.
ACS APPLIED MATERIALS & INTERFACES, vol.15, no.9, pp.11563-11574, 2023 (SCI-Expanded)

XXI. **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.
LANGMUIR, vol.39, no.9, pp.3194-3203, 2023 (SCI-Expanded)

XXII. **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.
SMALL, vol.19, no.6, 2023 (SCI-Expanded)

XXIII. **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.
EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS, vol.81, no.1, pp.89-98, 2023 (SCI-Expanded)

XXIV. **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.
International Journal of Smart and Nano Materials, vol.14, no.4, pp.391-405, 2023 (SCI-Expanded)

XXV. **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.
ACS OMEGA, vol.7, no.49, pp.44878-44891, 2022 (SCI-Expanded)

XXVI. **Hybrid electrodes composed of graphitic carbon nitride and zeolitic imidazolate framework-67 for supercapacitor applications**
Yetiman S., KILIÇ DOKAN F., ÖNSES M. S., Yilmaz E., ŞAHMETLİOĞLU E.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.15, pp.22730-22743, 2022 (SCI-Expanded)

XXVII. **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.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.280, 2022 (SCI-Expanded)

XXVIII. **Machine Learning-Assisted Pesticide Detection on a Flexible Surface-Enhanced Raman Scattering Substrate Prepared by Silver Nanoparticles**
Sahin F., ÇELİK N., Camdal A., ŞAKİR M., CEYLAN A., Ruzi M., ÖNSES M. S.

ACS APPLIED NANO MATERIALS, vol.5, no.9, pp.13112-13122, 2022 (SCI-Expanded)

XXIX. **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.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.913, 2022 (SCI-Expanded)

XXX. **Unclonable Features via Electrospraying of Bulk Polymers**
Esidir A., KİREMİTLER N. B., Kalay M., BAŞTÜRK A., ÖNSES M. S.
ACS APPLIED POLYMER MATERIALS, vol.4, no.8, pp.5952-5964, 2022 (SCI-Expanded)

XXXI. **One-step Green Fabrication of Antimicrobial Surfaces via In Situ Growth of Copper Oxide Nanoparticles**
Sahin F., ÇELİK N., CEYLAN A., Ruzi M., ÖNSES M. S.
ACS OMEGA, vol.7, no.30, pp.26504-26513, 2022 (SCI-Expanded)

XXXII. **Superhydrophobic coatings for food packaging applications: A review**
Ruzi M., ÇELİK N., ÖNSES M. S.
FOOD PACKAGING AND SHELF LIFE, vol.32, 2022 (SCI-Expanded)

XXXIII. **Transferrable SERS Barcodes**
Sahin F., Pekdemir S., Sakir M., Gozutok Z., Onses M. S.
ADVANCED MATERIALS INTERFACES, vol.9, no.17, 2022 (SCI-Expanded)

XXXIV. **Outstanding supercapacitor performance with intertwined flower-like NiO/ MnO2/CNT electrodes**
Pecenek H., KILIÇ DOKAN F., ÖNSES M. S., Yilmaz E., ŞAHMETLİOĞLU E.
MATERIALS RESEARCH BULLETIN, vol.149, 2022 (SCI-Expanded)

XXXV. **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, vol.5, no.5, pp.6029-6054, 2022 (SCI-Expanded)

XXXVI. **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.
Journal of Energy Storage, vol.49, 2022 (SCI-Expanded)

XXXVII. **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.
ACS APPLIED NANO MATERIALS, vol.5, no.5, pp.6201-6212, 2022 (SCI-Expanded)

XXXVIII. **Organic Light-Emitting Physically Unclonable Functions**
Kayaci N., Ozdemir R., Kalay M., KİREMİTLER N. B., USTA H., ÖNSES M. S.
ADVANCED FUNCTIONAL MATERIALS, vol.32, no.14, 2022 (SCI-Expanded)

XXXIX. **Antifouling superhydrophobic surfaces with bactericidal and SERS activity**
Sahin F., Çelik N., Ceylan A., Pekdemir S., Ruzi M., Önses M. S.
CHEMICAL ENGINEERING JOURNAL, vol.431, 2022 (SCI-Expanded)

XL. **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.
CERAMICS INTERNATIONAL, vol.48, no.5, pp.7253-7260, 2022 (SCI-Expanded)

XLI. **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.
CHEMICAL ENGINEERING JOURNAL, vol.426, 2021 (SCI-Expanded)

XLII. **Robust superhydrophobic fabrics by infusing structured polydimethylsiloxane films**
ÇELİK N., TÖRÜN İ., Ruzi M., ÖNSES M. S.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, no.41, 2021 (SCI-Expanded)

XLIII. **Mesoporous one-component gold microshells as 3d sers substrates**
Vikulina A. S., Stetsyura I. Y., ÖNSES M. S., YILMAZ E., Skirtach A. G., Volodkin D.
Biosensors, vol.11, no.10, 2021 (SCI-Expanded)

XLIV. **Blood repellent superhydrophobic surfaces constructed from nanoparticle-free and biocompatible materials**
ÇELİK N., Sahin F., Ruzi M., Yay M., ÜNAL E., ÖNSES M. S.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.205, 2021 (SCI-Expanded)

XLV. **Production of natural chitin film from pupal shell of moth: Fabrication of plasmonic surfaces for SERS-based sensing applications**
Chen Y., Pekdemir S., Bilican I., Koc-Bilican B., Cakmak B., Ali A., Zang L., Önses M. S., Kaya M.
CARBOHYDRATE POLYMERS, vol.262, 2021 (SCI-Expanded)

XLVI. **Ink-jet printing of particle-free silver inks on fabrics with a superhydrophobic protection layer for fabrication of robust electrochemical sensors**
İPEKCİ H. H., Gozutok Z., ÇELİK N., ÖNSES M. S., UZUNOĞLU A.
MICROCHEMICAL JOURNAL, vol.164, 2021 (SCI-Expanded)

XLVII. **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.
PROGRESS IN ORGANIC COATINGS, vol.153, 2021 (SCI-Expanded)

XLVIII. **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., ÖNSES M. S., et al.
CHEMICAL ENGINEERING JOURNAL, vol.407, 2021 (SCI-Expanded)

XLIX. **Rapid fabrication of high-performance transparent electrodes by electrospinning of reactive silver ink containing nanofibers**
KİREMİTLER N. B., Esidir A., Gozutok Z., ÖZDEMİR A. T., ÖNSES M. S.
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.95, pp.109-119, 2021 (SCI-Expanded)

L. **Physically Unclonable Surfaces via Dewetting of Polymer Thin Films**
Torun N., Törün İ., Şakir M., Kalay M., Önses M. S.
ACS APPLIED MATERIALS & INTERFACES, vol.13, no.9, pp.11247-11259, 2021 (SCI-Expanded)

LI. **SERS-active linear barcodes by microfluidic-assisted patterning**
PEKDEMİR S., Ipekci H. H., Serhatlioglu M., Elbuken C., ÖNSES M. S.
Journal of Colloid and Interface Science, vol.584, pp.11-18, 2021 (SCI-Expanded)

LII. **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.
ACS APPLIED MATERIALS & INTERFACES, vol.13, no.4, pp.5678-5690, 2021 (SCI-Expanded)

LIII. **Transferring the structure of paper for mechanically durable superhydrophobic surfaces**
TÖRÜN İ., ÇELİK N., Ruzi M., ÖNSES M. S.
SURFACE & COATINGS TECHNOLOGY, vol.405, 2021 (SCI-Expanded)

LIV. **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., ÖNSES M. S., YILMAZ E.
JOURNAL OF MOLECULAR STRUCTURE, vol.1223, 2021 (SCI-Expanded)

LV. **Chitosan Loses Innate Beneficial Properties after Being Dissolved in Acetic Acid: Supported by Detailed Molecular Modeling**
Bilican I., PEKDEMİR S., ÖNSES M. S., Akyuz L., Altuner E. M., Koc-Bilican B., Zang L., Mujtaba M., Mulerčikas P., Kaya M.
ACS SUSTAINABLE CHEMISTRY & ENGINEERING, vol.8, no.49, pp.18083-18093, 2020 (SCI-Expanded)

LVI. **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., ÖNSES M. S.

CHEMICAL ENGINEERING JOURNAL, vol.396, 2020 (SCI-Expanded)

LVII. **Chemical Funneling of Colloidal Gold Nanoparticles on Printed Arrays of End-Grafted Polymers for Plasmonic Applications**
Pekdemir S., Törun İ., Sakir M., Ruzi M., Rogers J. A., Onses M. S.
ACS NANO, vol.14, pp.8276-8286, 2020 (SCI-Expanded)

LVIII. **Usage of natural chitosan membrane obtained from insect corneal lenses as a drug carrier and its potential for point of care tests**
Ikl S., Ramanauskaite A., Bilican B. K., Mulercikas P., Cam D., ÖNSES M. S., TÖRÜN İ., Kazlauskaite S., Baublys V., AYDIN Ö., et al.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.112, 2020 (SCI-Expanded)

LIX. **Effect of fabric texture on the durability of fluorine-free superhydrophobic coatings**
ÇELİK N., Altindal S., Gozutok Z., Ruzi M., ÖNSES M. S.
JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH, vol.17, no.3, pp.785-796, 2020 (SCI-Expanded)

LX. **SERS-active hydrophobic substrates fabricated by surface growth of Cu nanostructures**
ŞAKİR M., YILMAZ E., ÖNSES M. S.
MICROCHEMICAL JOURNAL, vol.154, 2020 (SCI-Expanded)

LXI. **Low bandgap microsphere-like magnetic nanocomposite: An enhanced photocatalyst for degradation of organic contaminants and fabrication of SERS-active surfaces**
Salem S., ŞAKİR M., Sahin K., Korkmaz I., Yavuz E., SARP G., ÖNSES M. S., YILMAZ E.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.589, 2020 (SCI-Expanded)

LXII. **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.
CHEMICAL ENGINEERING JOURNAL, vol.380, 2020 (SCI-Expanded)

LXIII. **Writing chemical patterns using electrospun fibers as nanoscale inkpots for directed assembly of colloidal nanocrystals**
Kiremitter N. B., TÖRÜN İ., ALTINTAS Y., Patarroyo J., Demir H. V., Puntes V. F., Mutlugun E., ÖNSES M. S.
NANOSCALE, vol.12, no.2, pp.895-903, 2020 (SCI-Expanded)

LXIV. **Raman spectroscopy: A novel experimental approach to evaluating cisplatin induced tissue damage**
Yay A. H., Onses M. S., Sahmetlioglu E., Ceyhan A., Pekdemir S., Onder G. Ö., Sezer G., Sarica Z., Aydin F.
TALANTA, vol.207, 2020 (SCI-Expanded)

LXV. **Synthesis of Ag and TiO2 modified polycaprolactone electrospun nanofibers (PCL/TiO2-Ag NFs) as a multifunctional material for SERS, photocatalysis and antibacterial applications**
Karagoz S., KİREMİTLER N. B., ŞAKİR M., Salem S., ÖNSES M. S., Sahmetlioglu E., CEYLAN A., YILMAZ E.
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, vol.188, 2020 (SCI-Expanded)

LXVI. **Photocatalytic green fabrication of Au nanoparticles on ZnO nanorods modified membrane as flexible and photocatalytic active reusable SERS substrates**
ŞAKİR M., Salem S., Sanduvac S. T., Sahmetlioglu E., SARP G., ÖNSES M. S., YILMAZ E.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.585, 2020 (SCI-Expanded)

LXVII. **Superhydrophobic coatings made from biocompatible polydimethylsiloxane and natural wax**
Torun İ., Ruzi M., Er F., Onses M. S.
PROGRESS IN ORGANIC COATINGS, vol.136, 2019 (SCI-Expanded)

LXVIII. **One-step deposition of hydrophobic coatings on paper for printed-electronics applications**
Gozutok Z., Kinj O., Torun İ., ÖZDEMİR A. T., ÖNSES M. S.
CELLULOSE, vol.26, no.5, pp.3503-3512, 2019 (SCI-Expanded)

LXIX. **Solid substrates decorated with Ag nanostructures for the catalytic degradation of methyl orange**
ŞAKİR M., ÖNSES M. S.
RESULTS IN PHYSICS, vol.12, pp.1133-1141, 2019 (SCI-Expanded)

LXX. **Eco-Friendly Fabrication of Plasmonically Active Substrates Based on End-Grafted Poly(ethylene glycol) Layers**

Ocal S. K., Pekdemir S., Serhatlioglu M., Ipekcı H. H., Şahmetlioğlu E., Narin I., Duman F., Elbuken C., Demirel G., Önses M. S.
ACS SUSTAINABLE CHEMISTRY & ENGINEERING, vol.7, pp.4315-4324, 2019 (SCI-Expanded)

LXXI. **Plasmonic assemblies of gold nanorods on nanoscale patterns of poly (ethylene glycol): Application in surface-enhanced Raman spectroscopy**
Ocal S. K., Patarroyo J., Kiremitler N. B., Pekdemir S., Puntes V. F., Önses M. S.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.532, pp.449-455, 2018 (SCI-Expanded)

LXXII. **Water Impact Resistant and Antireflective Superhydrophobic Surfaces Fabricated by Spray Coating of Nanoparticles: Interface Engineering via End-Grafted Polymers**
TORUN İ., CELIK N., Hancer M., ES F., EMIR C., TURAN R., ÖNSES M. S.
MACROMOLECULES, vol.51, no.23, pp.10011-10020, 2018 (SCI-Expanded)

LXXIII. **FRET enabled light harvesting within quantum dot loaded nanofibers**
Altıntaş Y., KİREMİTLER N. B., GENÇ S., ÖNSES M. S., MUTLUGÜN E.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.51, no.6, 2018 (SCI-Expanded)

LXXIV. **Size and structure dependent ultrafast dynamics of plasmonic gold nanosphere heterostructures on poly (ethylene glycol) brushes**
Karatay A., Kucukoz B., Pekdemir S., Önses M. S., Elmali A.
OPTICAL MATERIALS, vol.73, pp.83-88, 2017 (SCI-Expanded)

LXXV. **Fabrication of Plasmonically Active Substrates Using Engineered Silver Nanostructures for SERS Applications**
Şakir M., Pekdemir S., Karatay A., Kucukoz B., Ipekcı H. H., Elmali A., Demirel G., Önses M. S.
ACS APPLIED MATERIALS & INTERFACES, vol.9, no.45, pp.39795-39803, 2017 (SCI-Expanded)

LXXVI. **Modulating the Kinetics of Nanoparticle Adsorption for Simple and High-Yield Fabrication of Plasmonic Heterostructures as SERS Substrates**
Pekdemir S., Karabel S., Kiremitler N. B., Liu X., Nealey P. F., Önses M. S.
CHEMPHYSCHEM, vol.18, pp.2114-2122, 2017 (SCI-Expanded)

LXXVII. **Robust superhydrophobicity on paper: Protection of spray-coated nanoparticles against mechanical wear by the microstructure of paper**
TORUN İ., ÖNSES M. S.
SURFACE & COATINGS TECHNOLOGY, vol.319, pp.301-308, 2017 (SCI-Expanded)

LXXVIII. **Assembly of Plasmonic Nanoparticles on Nanopatterns of Polymer Brushes Fabricated by Electrospin Nanolithography**
Kiremitler N. B., Pekdemir S., Patarroyo J., Karabel S., Torun İ., Puntes V. F., Önses M. S.
ACS MACRO LETTERS, vol.6, pp.603-608, 2017 (SCI-Expanded)

LXXIX. **Low temperature growth of graphene using inductively-coupled plasma chemical vapor deposition**
Pekdemir S., Önses M. S., Hancer M.
SURFACE & COATINGS TECHNOLOGY, vol.309, pp.814-819, 2017 (SCI-Expanded)

LXXX. **Ambient, rapid and facile deposition of polymer brushes for immobilization of plasmonic nanoparticles**
Yılmaz H., Pekdemir S., Ipekci H. H., Kiremitler N. B., Hancer M., Önses M. S.
APPLIED SURFACE SCIENCE, vol.385, pp.299-307, 2016 (SCI-Expanded)

LXXXI. **Superhydrophobic coatings with improved mechanical robustness based on polymer brushes**
Ipekci H. H., Arkaz H. H., ÖNSES M. S., Hancer M.
SURFACE & COATINGS TECHNOLOGY, vol.299, pp.162-168, 2016 (SCI-Expanded)

LXXXII. **Self-Assembled Nanoparticle Arrays on Chemical Nanopatterns Prepared Using Block Copolymer Lithography**
ÖNSES M. S., WAN L., Liu X., KİREMİTLER N. B., Yılmaz H., NEALEY P. F.
ACS MACRO LETTERS, vol.4, no.12, pp.1356-1361, 2015 (SCI-Expanded)

LXXXIII. **Mechanisms, Capabilities, and Applications of High-Resolution Electrohydrodynamic Jet Printing**
ÖNSES M. S., Sutanto E., Ferreira P. M., Alleyne A. G., Rogers J. A.
SMALL, vol.11, no.34, pp.4237-4266, 2015 (SCI-Expanded)

LXXXIV. **Inkjet Printing of Regenerated Silk Fibroin: From Printable Forms to Printable Functions**
Tao H., Marelli B., Yang M., An B., Onses M. S., Rogers J. A., Kaplan D. L., Omenetto F. G.
ADVANCED MATERIALS, vol.27, no.29, pp.4273-4279, 2015 (SCI-Expanded)

LXXXV. **Interplay of Surface Energy and Bulk Thermodynamic Forces in Ordered Block Copolymer Droplets**
Hur S., Onses M. S., Ramirez-Hernandez A., Nealey P. F., Rogers J. A., de Pablo J. J.
MACROMOLECULES, vol.48, no.13, pp.4717-4723, 2015 (SCI-Expanded)

LXXXVI. **High-Resolution Patterns of Quantum Dots Formed by Electrohydrodynamic Jet Printing for Light-Emitting Diodes**
KIM B. H., ÖNSES M. S., LIM J. B., NAM S., OH N., KIM H., YU K. J., LEE J. W., KIM J., KANG S., et al.
NANO LETTERS, vol.15, no.2, pp.969-973, 2015 (SCI-Expanded)

LXXXVII. **Fabrication of Nanopatterned Poly(ethylene glycol) Brushes by Molecular Transfer Printing from Poly(styrene-block-methyl methacrylate) Films to Generate Arrays of Au Nanoparticles**
Onses M. S.
LANGMUIR, vol.31, no.3, pp.1225-1230, 2015 (SCI-Expanded)

LXXXVIII. **Block Copolymer Assembly on Nanoscale Patterns of Polymer Brushes Formed by Electrohydrodynamic Jet Printing**
Onses M. S., Ramirez-Hernandez A., Hur S., Sutanto E., Williamson L., Alleyne A. G., Nealey P. F., de Pablo J. J., Rogers J. A.
ACS NANO, vol.8, no.7, pp.6606-6613, 2014 (SCI-Expanded)

LXXXIX. **Nanometer Scale Alignment of Block-Copolymer Domains by Means of a Scanning Probe Tip**
Felts J. R., Onses M. S., Rogers J. A., King W. P.
ADVANCED MATERIALS, vol.26, no.19, pp.2999-3002, 2014 (SCI-Expanded)

XC. **Tunable Assembly of Gold Nanoparticles on Nanopatterned Poly(ethylene glycol) Brushes**
Onses M. S., Nealey P. F.
SMALL, vol.9, no.24, pp.4168-4174, 2013 (SCI-Expanded)

XCI. **Hierarchical patterns of three-dimensional block-copolymer films formed by electrohydrodynamic jet printing and self-assembly**
Onses M. S., Song C., Williamson L., Sutanto E., Ferreira P. M., Alleyne A. G., Nealey P. F., Ahn H., Rogers J. A.
NATURE NANOTECHNOLOGY, vol.8, no.9, pp.667-675, 2013 (SCI-Expanded)

XCII. **In situ metallization of patterned polymer brushes created by molecular transfer print and fill**
Thode C. J., Cook P. L., Jiang Y., Onses M. S., Ji S., Himpsel F. J., Nealey P. F.
NANOTECHNOLOGY, vol.24, no.15, 2013 (SCI-Expanded)

XCIII. **Control over Position, Orientation, and Spacing of Arrays of Gold Nanorods Using Chemically Nanopatterned Surfaces and Tailored Particle-Particle-Surface Interactions**
Nepal D., Onses M. S., Park K., Jespersen M., Thode C. J., Nealey P. F., Vaia R. A.
ACS NANO, vol.6, no.6, pp.5693-5701, 2012 (SCI-Expanded)

XCIV. **Highly Selective Immobilization of Au Nanoparticles onto Isolated and Dense Nanopatterns of Poly(2-viinyl pyridine) Brushes down to Single-Particle Resolution**
Onses M. S., Liu C., Thode C. J., Nealey P. F.
LANGMUIR, vol.28, no.18, pp.7299-7307, 2012 (SCI-Expanded)

XCV. **Localization of Multiple DNA Sequences on Nanopatterns**
Onses M. S., Pathak P., Liu C., Cerrina F., Nealey P. F.
ACS NANO, vol.5, no.10, pp.7899-7909, 2011 (SCI-Expanded)

XCVI. **Site-Specific Placement of Au Nanoparticles on Chemical Nanopatterns Prepared by Molecular Transfer Printing Using Block-Copolymer Films**
Onses M. S., Thode C. J., Liu C., Ji S., Cook P. L., Himpsel F. J., Nealey P. F.
ADVANCED FUNCTIONAL MATERIALS, vol.21, no.16, pp.3074-3082, 2011 (SCI-Expanded)

XCVII. **Fabrication of Lithographically Defined Chemically Patterned Polymer Brushes and Mats**
Liu C., Han E., Onses M. S., Thode C. J., Ji S., Gopalan P., Nealey P. F.
MACROMOLECULES, vol.44, no.7, pp.1876-1885, 2011 (SCI-Expanded)

XCVIII. **In situ synthesis and direct immobilization of ssDNA on electron beam patterned hydrogen**

silsesquioxane
Negrete O. D., ÖNSES M. S., Nealey P. F., Cerrina F.
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B, vol.27, no.6, pp.3082-3087, 2009 (SCI-Expanded)

Articles Published in Other Journals

I. **Fully transparent and superhydrophobic electrodes enabled by soft interfaces**
Törün İ., Çelik N., Kiremitler N. B., Huang X., Önses M. S.
SURFACES AND INTERFACES, vol.36, 2023 (Scopus)

II. **Solid-State Encapsulation and Color Tuning in Films of Cesium Lead Halide Perovskite Nanocrystals for White Light Generation**
Torun İ., ALTINTAS Y., YAZICI A. F., MUTLUGÜN E., ÖNSES M. S.
ACS APPLIED NANO MATERIALS, vol.2, no.3, pp.1185-1193, 2019 (ESCI)

III. **Electrohydrodynamic jet printing of micro-optical devices**
Sutanto E., Tan Y., ÖNSES M. S., Cunningham B. T., Alleyne A.
Manufacturing Letters, vol.2, no.1, pp.4-7, 2014 (Scopus)

IV. **The Use of Block Copolymers in Nanoscale Patterning**
Craig G. S. W., Thode C. J., ÖNSES M. S., Nealey P. F.
Material Matters, vol.6, pp.82-85, 2011 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Modification of Wood Treated With EtiDOT67 by Polydimethylsiloxane**
SOYTÜRK E. E., ÇELİK N., KARTAL S. N., ÖNSES M. S.
International Boron Sympposium BORON2022, Istanbul, Türkiye, İstanbul, Turkey, 5 - 07 October 2022, pp.1-10

II. **EtiDOT67 ile İşlem Gören Ahşabın Polidimetilsiloksan Modifikasyonu**
SOYTÜRK E. E., ÇELİK N., KARTAL S. N., ÖNSES M. S.
INTERNATIONAL BORON SYMPOSIUM, İstanbul, Turkey, 05 October 2022, pp.286-287

III. **Evaluation of mold resistance and thermal characteristics of wood modified with boron and Paraloid B72® copolymer**
SOYTÜRK E. E., KARTAL S. N., ÇELİK N., ÖNSES M. S.
18th Annual Meeting of the Northern European Network for Wood Science and Engineering, WSE2022, Göttingen, Germany, Göttingen, Germany, 20 September 2022, pp.121-123

IV. **Development and Application of New Non-toxic and High Performance Supercapacitor cell:La2O3 @CuO**
yetiman s., Şahin f., CEYLAN A., ÖNSES M. S., YILMAZ E., KILIÇ DOKAN F., ŞAHMETLİOĞLU E.
Nanoscience and Nanotechnolohy Conference (NANOTR-16), Turkey, 5 - 08 September 2022

V. **Anti-biofouling, blood-repellent and biocompatible coatings for medical equipment interfaces**
Sahin F., ÇELİK N., ÜNAL E., SEZER G., CEYLAN A., ÖNSES M. S.
2022 Medical Technologies Congress, TIPTEKNO 2022, Antalya, Turkey, 31 October - 02 November 2022

VI. **Highly durable antibacterial surface through in- situ grown copper nanoparticles for biomedical applications**
Sahin F., Sahin G. D., CEYLAN A., ÖNSES M. S.
2022 Medical Technologies Congress, TIPTEKNO 2022, Antalya, Turkey, 31 October - 02 November 2022

VII. **Bakterisidal aktiviteye sahip biyokirlenme önleyici süperhidrofobik yüzeylerin geliştirilmesi**
Şahin F., Çelik N., Ceylan A., Pekdemir S., Ruzi M., Önses M. S.
9. BUHASDER Kongresi, Antalya, Turkey, 24 - 28 November 2021

VIII. **Nanopartikül İçermeyen Biyouyumlu Malzemelerle Yapılmış Kan İtici Süperhidrofobik Yüzeyler**
ÇELİK N., ŞAHİN F., Ruzi M., YAY M., ÜNAL E., ÖNSES M. S.

XIV ULUSAL KAN MERKEZLERİ VE TRANSFÜZYON TIBBI KONGRESİ, Antalya, Turkey, 03 November 2021

IX. **Detection of Cryptosporidium parvum Oocysts via Surface Enhanced Raman Scattering(SERS)**
YILMAZ Ü. G., PEKDEMİR S., ŞAKİR M., ÖNSES M. S., ŞİMŞEK E., YILDIRIM A., AYDIN Ö.
15th Nanoscience andNanotechnology Conference of Turkey (NANOTR-15), Antalya, Turkey, 3 - 06 November 2019, pp.174

X. **A New Electrospun Material for Photocatalytic, SERS and Antibacterial Applications**
KARAGÖZ S., KİREMİTLER N. B., ŞAKİR M., SALEM S., ÖNSES M. S., ŞAHMETLİOĞLU E., CEYLAN A., YILMAZ E.
6th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2019), Turkey, 16 October 2019

XI. **Directed Assembly of Colloid Nanocrystals by Unique Uses of Electrospun Nanofibers and Their Electronic, Optoelectronic, Plasmonic Applications**
KİREMİTLER N. B., ÖNSES M. S.
Nanotechnology and Nanomaterials (Nano-2019), Lviv, Ukraine, 27 - 30 August 2019

XII. **The relationship of surface roughness and wettability of 316L stainless steel implants with plastic deformation mechanisms**
Cicek S., Karaca A., Torun İ., ÖNSES M. S., UZER B.
1st International Conference on Materials, Mimicking, Manufacturing from and for Bio Application (BioM&M), Milan, Italy, 27 - 29 June 2018, vol.7, pp.389-393

XIII. **Raman Spectroscopy: A Novel Experimental Approach to Evaluating Cisplatin Induced Tissue Damage**
YAY A. H., ŞAHMETLİOĞLU E., ceyhan a., PEKDEMİR S., ÖNDER G. Ö., SEZER G., SOYER SARICA Z., ÖNSES M. S.
International Congress on Biological and Medical Sciences 2018, 31 October - 03 November 2018

XIV. **Arrays of Multi-Color Emitting Cesium Lead Halide Perovskite Nanocrystals and Efficient White Light Generation by Tailored Anion Exchange Reactions and Electrohydrodynamic Jet Printing**
MUTLUGÜN E., TÖRÜN İ., ÖNSES M. S.
Light, Energy and the Environment 2018 (E2, FTS, HISE, SOLAR, SSL), Singapore, Singapore, 5 - 08 November 2018

XV. **Fabrication and Versatile Use of Spatially Defined Electrospun Nanofibers for Nanopatterning of Functional Materials for Nanolitographic and Nanoplasmonic Applications**
Kiremitler N. B., Önses M. S.
Nanotechnologies and Nanomaterials NANO-2018, Kyyiv, Ukraine, 27 August - 30 September 2018, pp.20

XVI. **Assemblies of Plasmonic Nanoparticles on Patterns of End-grafted Poly(ethylene Glycol) Layers Fabricated by Electrohydrodynamic Jet Printing", 14th NANOSCIENCE AND NANOTECHNOLOGY CONFERENCE**
PEKDEMİR S., KİREMİTLER N. B., TÖRÜN İ., ÖNSES M. S.
NANOTR14, İzmir, Turkey, 22 - 25 September 2018

XVII. **Assemblies of Plasmonic Nanoparticles on Patterns of End-grafted Poly(ethylene Glycol) Layers Fabricated by Electrohydrodynamic Jet Printing**
Pekdemir S., Kiremitler N. B., Törün İ., Önses M. S.
14th NANOSCIENCE AND NANOTECHNOLOGY CONFERENCE (NANOTR-14), İzmir, Turkey, 22 - 25 September 2018

XVIII. **Polydopamine mediated growth of Ag nanostructureson ZnO thin films**
PEKDEMİR S., KURU M., ÖNSES M. S.
Science and Applications of Thin Films, Conference Exhibition (SATF 2018), İzmir, Turkey, 17 - 21 September 2018

XIX. **Electrospinnanolitography (ESPNL): Versatileand Novel Use of Electrospun Nanofibers forNanolitography Applications**
Kiremitler N. B., Önses M. S.
VII. Polymer Science & Technology Congress with International Participitation, Eskişehir, Turkey, 9 - 12 September 2018, pp.102

XX. **FABRICATION AND CHARACTERIZATION OF END GRAFTED POLYMER LAYERS AS A PLATFORM FOR HETEROGENEOUS PLASMONIC STRUCTURES**
PEKDEMİR S., canpolat ö., ÖNSES M. S.
ULUSLARARASI KATILIMLI VII. POLİMER BİLİM VE TEKNOLOJİ KONGRESİ, 9 - 12 September 2018

XXI. **Self-cleaning and highly transparent coatings based on endgrafted polymers for photovoltaic applications**
Törün İ., Celik N., Hancer M., Es F., Emir C., Turan R., Önses M. S.
PVCON 2018, Ankara, Turkey, 4 - 06 July 2018

XXII. **Understanding the Influence of Plastic Deformation Mechanisms on Implant Surface Properties**
TÖRÜN İ., ÖNSES M. S.
The First International Conference on Materials, Mimicking, Manufacturing from and for Bio Application, Milan, Italy, 26 - 28 June 2018

XXIII. **Fabrication and applications of spatially defined nanopatterns of functional materials generating by electrospun nanofibers**
KİREMİTLER N. B., ÖNSES M. S.
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC), Nevşehir, Turkey, 11 October 2017 - 13 January 2018, pp.598

XXIV. **A novel method for nanopatterning of functional materials by electrospinnanolitography (ESPNL)**
KİREMİTLER N. B., ÖNSES M. S.
NANOTR13, 22 - 25 October 2017

XXV. **Reinventing Electrospinning for Nanolitography Applications**
KİREMİTLER N. B., PEKDEMİR S., ÖNSES M. S.
NANOTR13, 22 - 25 October 2017

XXVI. **SERS Activity of Ag Nanostructures**
ŞAKİR M., DEMİREL G., ÖNSES M. S.
NANOTR-13, Antalya, Turkey, 22 - 25 October 2017, pp.125

XXVII. **The Effect of Substrate Hydrophobicity on the Resolution of the Chemical Patterns Fabricated by Electrospinning**
TÖRÜN İ., KİREMİTLER N. B., ÖNSES M. S.
13th NANOSCIENCE AND NANOTECHNOLOGY CONFERENCE (NANOTR13), Antalya, Turkey, 22 - 25 October 2017

XXVIII. **Understanding The Interaction Between Polyethylene Glycol Grafts And Metallic Nanoparticles**
karabel s., patarroya j., PEKDEMİR S., PUNTES V. F., ÖNSES M. S.
NANOTR-13, Antalya, Turkey, 22 - 25 October 2017

XXIX. **An Eco-Friendly Approach for Grafting and Patterning of Poly(ethylene glycol) Brushes for Plasmonic Applications**
PEKDEMİR S., İPEKCİ H. H., karabel s., serhatlıoğlu m., ELBÜKEN Ç., ÖNSES M. S.
NANOTR-13, Antalya, Turkey, 22 - 25 October 2017

XXX. **Reinventing Electrospinning for Nanolithography Applications**
KİREMİTLER N. B., PEKDEMİR S., ÖNSES M. S.
NANOTR-13, Antalya, Turkey, 22 - 25 October 2017

XXXI. **SERS applications of Au-Ag Core-Shell Structures grown via Poly(dopamine)**
PEKDEMİR S., GENÇ A., ÖNSES M. S.
14th Confocal Raman Imaging Symposium, Ulm, Germany, 25 - 27 September 2017

XXXII. **Hierarchical and three-dimensional patterns via combined block-copolymer and soft lithography**
İPEKCİ H. H., Serhatlıoğlu M., Asif A., Karabel S., Elbüken Ç., ÖNSES M. S.
MNE2017, Braga, Portugal, 18 - 22 September 2017, pp.204

XXXIII. **Fabrication of polymer brush nanoribbons (PBNRs) by electrospinnanolitography (ESPNL)**
KİREMİTLER N. B., PEKDEMİR S., karabel s., ÖNSES M. S.
Frontiers in Polymer Science, Sevilla, Spain, 17 - 19 May 2017

XXXIV. **An Eco-Friendly Approach for Grafting of Poly(Ethylene Glycol) Brushes and Immobilization of Plasmonic Nanoparticles**
PEKDEMİR S., İPEKCİ H. H., karabel s., DUMAN F., ÖNSES M. S.
ECOLOGY 2017, Kayseri, Turkey, 11 - 13 May 2017

XXXV. **Quantum Dot Integrated Nanofibers for White LEDs**
MUTLUGÜN E., ALTINTAS Y., KİREMİTLER N. B., GENÇ S., ÖNSES M. S.

2017 MRS Spring Meeting Exhibit, Arizona, United States Of America, 17 - 21 April 2017

XXXVI. **Graphene growth by Inductively-Coupled Plasma Chemical Vapor Deposition at Low Temperature**
PEKDEMİR S., ÖNSES M. S., HANÇER M.
Graphene & Related Materials Conference (GRM-2016), Ankara, Turkey, 13 - 15 July 2016, pp.67

XXXVII. **Assembly of plasmonic heterostructures on poly(ethylene glycol) brushes for SERS applications**
PEKDEMİR S., KİREMİTLER N. B., Karabel S., HANÇER M., KAYA S., ÖNSES M. S.
12th Nanoscience and Nanotechnology Conference (NanoTR-12), Kocaeli, Turkey, 3 - 05 June 2016, pp.422

XXXVIII. **Nanoscale patterns of polymer brushes as a platform for plasmonics**
ÖNSES M. S.
12th International Nanoscience and Nanotechnology Conference (NANOTR 12), 3 - 05 June 2016

XXXIX. **Electrospun nanofibers as templates for surface patterning**
KİREMİTLER N. B., PEKDEMİR S., HANÇER M., ÖNSES M. S.
12th Nanoscience and Nanotechnology Conference (NanoTR-12), Kocaeli, Turkey, 3 - 05 June 2016, pp.422

XL. **Superhydrophobic Nanocomposite Coatings With Enhanced Mechanical Robustness Using Polymer Matrices With Dual Wetting Properties**
İPEKCİ H. H., ARKAZ H. H., ÖNSES M. S., HANÇER M.
Nanotr12, Kocaeli, Turkey, 3 - 05 June 2016, pp.320

XLI. **Elektrohidrodinamik Jet Yazıcı ve Blok kopolimerlerin Kendiliğinden Düzenlenmesiyle Yüzeyler Üzerinde 3 Boyutlu ve Hiyerarşik Nanoyapıların Üretilmesi**
ÖNSES M. S.
5. Fiziksel Kimya Kongresi, Turkey, 16 - 19 May 2015

XLII. **Block Copolymer Droplets: The Interplay of Surface Energy and Ordering**
Hur S., Ramirez-Hernandez A., ÖNSES M. S., Nealey P., Rogers J. A., de Pablo J. J.
American Physical Society March Meeting, Denver, United States Of America, 3 - 07 March 2014, vol.59, pp.1

XLIII. **Molecular transfer printing over large areas**
Janes D., Thode C., Deschner R., Lee J. I., ÖNSES M. S., Wilson G., Nealey P., Ellison C.
American Institute of Chemical Engineers Meeting, Pittsburgh, United States Of America, 3 - 08 November 2013

XLIV. **Sub-100 nm controlled patterning of functionalized gold nanorods on polymer-derived surface patterns**
Nepal D., ÖNSES M. S., Park K., Biswas S., Jespersen M., Oyerokun F., Thode C. J., Nealey P. F., Vaia R. A.
American Chemical Society March Meeting, San Diego, United States Of America, 25 - 29 March 2012, vol.243

XLV. **Offset block copolymer printing using brushless substrates and elastomeric stamps**
Suh H. S., Yoon H., Keong K., Char K., ÖNSES M. S., Lee J. I., Nealey P. F.
American Physical Society March Meeting, Boston, United States Of America, 27 February - 02 March 2012, vol.1, pp.45013

XLVI. **Nanopatterned poly(ethylene glycol) brushes: A route for highly tunable assembly of Au nanoparticles**
ÖNSES M. S., Nealey P. F.
American Physical Society March Meeting, Boston, United States Of America, 27 February - 02 March 2012, vol.1, pp.44009

XLVII. **Patterning Multiple DNA Sequences with Registry and Specificity at Nanoscale**
ÖNSES M. S., Pathak P., Pathak P., Liu C., Cerrina F., Naley P. F.
Foundations of Nanoscience, Snowbird, United States Of America, 11 - 15 April 2011, pp.1

XLVIII. **Preferential assembly of gold nanorods on sub-100nm polymer-derived surface patterns**
Nepal D., ÖNSES M. S., Park K., Jespersen M. L., Nealey P. F., Vaia R. A.
American Chemical Society March Meeting, Anaheim, United States Of America, 27 - 31 March 2011, vol.241

XLIX. **Highly specific placement of Au Nanoparticles on chemical brush patterns prepared by combination of top-down and block copolymer lithography**
ÖNSES M. S., Liu C., Thode C. J., Ji S., Nealey P. F.
American Physical Society March Meeting, Dallas, United States Of America, 21 - 25 March 2011, vol.1, pp.43005

Supported Projects

ŞAKİR M., KARAGÖZ S., KAYACI N., ÖNSES M. S., ÇELİK N., Project Supported by Higher Education Institutions, Organik Kirleticilerin Bozunumu için Süperhidrofobik TiO2 Fotokatalizörlerin Mekanokimyasal Üretimi, 2022 - Continues
KİREMİTLER N. B., ŞAHMETLİOĞLU E., DOKAN KILIÇ F., ÖNSES M. S., YETİMAN S., Project Supported by Higher Education Institutions, Metal Oksit Tabanlı Yüksek Pseudo Kapasitans Verimine Sahip Süperkapasitör Hücrelerinin Geliştirilmesi, 2022 - 2024
ÖNSES M. S., KİREMİTLER N. B., ŞAKİR M., Project Supported by Higher Education Institutions, Saydam elektrot uygulamaları için Elektrospinlenmiş Nanofiberler üzerinde İletken Ağların Üretilmesi, 2018 - 2020
ÖNSES M. S., ŞAKİR M., Project Supported by Higher Education Institutions, Elektronik ve Plazmonik Uygulamalar İçin Homojen ve Desenlenmiş Yüzeyler Üzerinde Çekirdek Vasıtasıyla Metalik Nanoyapıların Büyütülmesi, 2017 - 2020
ÖNSES M. S., PEKDEMİR S., Project Supported by Higher Education Institutions, Metalik nanopartiküllerin kendiliğinden düzenlenmesi ile heteroyapıların üretilmesi ve plazmonik ve yapısal özelliklerinin incelenmesi, 2017 - 2019
ÖNSES M. S., TÖRÜN İ., Project Supported by Higher Education Institutions, Yüksek mekanik dayanımlı saydam süperhidrofobik kaplamaların üretilmesi ve karakterizasyonu, 2017 - 2018
ÖNSES M. S., CANPOLAT Ö., Project Supported by Higher Education Institutions, Altın ve gümüş nanopartiküllerinden oluşan heterojen plazmonik yapıların üretilmesi ve karakterizasyonu, 2017 - 2018
ÖNSES M. S., KARABEL S., Project Supported by Higher Education Institutions, Yüzeye aşılanmış polietilen glikol zincirleri ile metalik nanopartiküller arasındaki etkileşimlerin incelenmesi, 2016 - 2017
ÖNSES M. S., DUMAN F., PEKDEMİR S., İPEKCİ H. H., Project Supported by Higher Education Institutions, Çevre dostu bir yaklaşım ile plazmonik nanopartiküllerin yüzeyler üzerinde sabitleştirilmesi ve desenlenmesi, 2016 - 2017
ÖNSES M. S., ÖÇSOY I., HANÇER M., Project Supported by Higher Education Institutions, Çok Amaçlı Kullanıma Yönelik Nanomalzemelerin Sentezi ve Spektroskopik Karakterizasyonu, 2014 - 2017
ÖNSES M. S., YILMAZ H., Project Supported by Higher Education Institutions, Metalik nanopartiküllerin sabitleştirilmesi için polimer fırça kaplı fonksiyonel yüzeylerin üretilmesi ve karakterizasyonu, 2015 - 2016
ÖNSES M. S., ÖÇSOY I., KİREMİTLER N. B., YILMAZ H., Project Supported by Higher Education Institutions, Polistiren-poli(etilen glikol) ikili polimer fırça sistemiyle modifiye edilmiş fonksiyonel yüzeylerin üretilmesi, karakterizasyonu ve metalik nanopartiküllerin sabitleştirilmesinde kullanımı, 2014 - 2016
ÖÇSOY İ., ÖNSES M. S., SOMTÜRK B., İPEKCİ H. H., ARSLAN ÖÇSOY M., Project Supported by Higher Education Institutions, Yüksek Katalitik Aktivite ve Kararlılığa Sahip Çiçek Şekilli Yeni Nesil Nanobiyokatalizörlerin Sentezlenmesi, 2015 - 2015

Patent

Önses M. S., Çelik N., Törün İ., PREPARATION METHOD OF A BASE SUITABLE FOR USE TO IMPROVE THE DURABILITY OF THE SUPERHYDROPHOBIC SURFACES, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: TR 2019 22041 B , Standard Registration, 2021

Metrics

Publication: 155
Citation (WoS): 2238
Citation (Scopus): 3141
H-Index (WoS): 26
H-Index (Scopus): 29

Awards

ÖNSES M. S., TÜBA-GEBİP, TÜBA, October 2016

Non Academic Experience

İZODER, Isı, su, ses ve yangın yalıtımcıları derneği