

Prof. MUSTAFA SERDAR ÖNSES

Personal Information

Office Phone: [+90 352 207 6666](tel:+903522076666) Extension: 32939

Office Phone: [+90 352 207 6666](tel:+903522076666) 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-Clay Nanocomposites by Redox Polymerization, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, 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, Metalurji ve Malzeme Mühendisliği, 2021 - Continues

Associate Professor, Erciyes University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği, 2016 - 2021

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Metalurji ve Malzeme 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. **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.
Talanta, vol.272, no.125827, pp.125827, 2024 (SCI-Expanded)
- III. **Roughness-dependent hydrophobicity of polydimethylsiloxane grafted titanium thin films**
FOADI F., ÇELİK N., Esidir A., ÖNSES M. S.
Surface and Coatings Technology, vol.483, 2024 (SCI-Expanded)
- IV. **Ultradurable Embedded Physically Unclonable Functions**
Esidir A., PEKDEMİR S., KALAY M., ÖNSES M. S.
ACS Applied Materials and Interfaces, vol.16, no.13, pp.16532-16543, 2024 (SCI-Expanded)
- V. **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, vol.12, no.19, pp.6865-6880, 2024 (SCI-Expanded)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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, 2024 (SCI-Expanded)
- XII. **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)
- XIII. **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)
- XIV. **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)

- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)

- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **Transferrable SERS Barcodes**
Sahin F., Pekdemir S., Sakir M., Gozutok Z., Onses M. S.
ADVANCED MATERIALS INTERFACES, vol.9, no.17, 2022 (SCI-Expanded)
- XXXIX. **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)
- XL. **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)
- XLI. **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.
ACS APPLIED NANO MATERIALS, vol.5, no.5, pp.6029-6054, 2022 (SCI-Expanded)
- XLII. **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)
- XLIII. **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)

- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **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)
- LI. **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.
MICROCHEMICAL JOURNAL, vol.164, 2021 (SCI-Expanded)
- LII. **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)
- LIIL. **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)
- LIV. **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., Muhtaba 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)
- LV. **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)
- LVI. **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)
- LVII. **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., Sözdutalmaz İ., Sahmetlioglu E., Ozkara E. S., et al.
ACS APPLIED MATERIALS & INTERFACES, vol.13, no.4, pp.5678-5690, 2021 (SCI-Expanded)
- LVIII. 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)
- LIX. 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)
- LX. 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)
- LXI. 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)
- LXII. Usage of natural chitosan membrane obtained from insect corneal lenses as a drug carrier and its potential for point of care tests**
İkl 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)
- LXIII. Chemical Funneling of Colloidal Gold Nanoparticles on Printed Arrays of End-Grafted Polymers for Plasmonic Applications**
Pekdemir S., Törün İ., Sakir M., Ruzi M., Rogers J. A., Onses M. S.
ACS NANO, vol.14, pp.8276-8286, 2020 (SCI-Expanded)
- LXIV. 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)
- LXV. 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)
- LXVI. 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)
- LXVII. 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)
- LXVIII. 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., Puntos V. F., Mutlugun E., ÖNSES M. S.
NANOSCALE, vol.12, no.2, pp.895-903, 2020 (SCI-Expanded)
- LXIX. 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)
- LXX. 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)

- LXXI. **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-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.585, 2020 (SCI-Expanded)
- LXXII. **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)
- LXXIII. **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)
- LXXIV. **Solid substrates decorated with Ag nanostructures for the catalytic degradation of methyl orange**
ŞAKİR M., ÖNSES M. S.
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Awards

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Non Academic Experience

İZODER, Isı, su, ses ve yangın yalıtımcıları derneği