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Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, --, Turkey 2016 - 2019

Postgraduate, Erciyes University, Mühendislik Fakültesi, Malzeme Bilimi ve Mühendisliği, Turkey 2013 - 2016

Undergraduate, Anadolu Üniversitesi, Mühendislik Mimarlık Fakültesi, Malzeme Bilimi Ve Mühendisliği (İngilizce, Turkey 2006 - 2012

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Elektroçirime ile Yüzeyler Üzerinde Nano Boyutta Kimyasal Desenlerin Üretimi, Erciyes University, Fen Bilimleri Enstitüsü, 2019

Postgraduate, ELEKTROEĞİRME YÖNTEMİYLE NANO GÜMÜŞ KATKILI POLİKAPROLAKTON HİDROKSİAPATİT (PCL/HA-AG) NANOLİF ÜRETİMİ VE KARAKTERİZASYONU, Erciyes Üniversitesi, Malzeme Bilimi Ve Mühendisliği, Malzeme Bilimi Ve Mühendisliği, 2016

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Ceramic Materials, Composites, Polymeric Materials, Biomaterials, Nanomaterials, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Malzeme Bilimi Ve Mühendisliği, 2013 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)

- III. **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., PEKDEMİR S., Salem S., Goksu A. G. , Serdar Onses M., SÖZDUTMAZ İ., Sahmetlioglu E., Ozkara E. S. , et al.
ACS APPLIED MATERIALS & INTERFACES, vol.13, no.4, pp.5678-5690, 2021 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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., Puntos V. F. , Önses M. S.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.532, pp.449-455, 2018 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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.
CHEMPHYSICHEM, vol.18, pp.2114-2122, 2017 (Journal Indexed in SCI)
- IX. **Assembly of Plasmonic Nanoparticles on Nanopatterns of Polymer Brushes Fabricated by Electrospin Nanolithography**
Kiremitler N. B. , Pekdemir S., Patarroyo J., Karabel S., Torun İ., Puntos V. F. , Önses M. S.
ACS MACRO LETTERS, vol.6, pp.603-608, 2017 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

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

- IV. **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., ÖNSE S. M. S.
NANOTR14, İzmir, Turkey, 22 - 25 September 2018
- V. **Electrospinnanolitography (ESPNL): Versatile and Novel Use of Electrospun Nanofibers for Nanolithography Applications**
Kiremitler N. B. , Önses M. S.
VII. Polymer Science & Technology Congress with International Participation, Eskişehir, Turkey, 9 - 12 September 2018, pp.102
- VI. **Fabrication and applications of spatially defined nanopatterns of functional materials generating by electrospun nanofibers**
KİREMİTLER N. B. , ÖNSE S. M. S.
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC), Nevşehir, Turkey, 11 October 2017 - 13 January 2018, pp.598
- VII. **A novel method for nanopatterning of functional materials by electrospinnanolitography (ESPNL)**
KİREMİTLER N. B. , ÖNSE S. M. S.
NANOTR13, 22 - 25 October 2017
- VIII. **Reinventing Electrospinning for Nanolithography Applications**
Kiremitler N. B. , Pekdemir S., Önses M. S.
NANOTR-13, Antalya, Turkey, 22 - 25 October 2017, pp.186
- IX. **The Effect of Substrate Hydrophobicity on the Resolution of the Chemical Patterns Fabricated by Electrospinning**
TÖRÜN İ., KİREMİTLER N. B. , ÖNSE S. M. S.
13th NANOSCIENCE AND NANOTECHNOLOGY CONFERENCE (NANOTR13), Antalya, Turkey, 22 - 25 October 2017
- X. **Reinventing Electrospinning for Nanolithography Applications**
KİREMİTLER N. B. , PEKDEMİR S., ÖNSE S. M. S.
NANOTR13, 22 - 25 October 2017
- XI. **Fabrication of polymer brush nanoribbons (PBNRs) by electrospinnanolitography (ESPNL)**
KİREMİTLER N. B. , PEKDEMİR S., KARABEL S., ÖNSE S. M. S.
Frontiers in Polymer Science, Sevilla, Spain, 17 May - 19 July 2017
- XII. **Quantum Dot Integrated Nanofibers for White LEDs**
MUTLUGÜN E., ALTINTAS Y., KİREMİTLER N. B. , GENÇ S., ÖNSE S. M. S.
2017 MRS Spring Meeting Exhibit, Arizona, United States Of America, 17 - 21 April 2017
- XIII. **Assembly of plasmonic heterostructures on poly(ethylene glycol) brushes for SERS applications**
PEKDEMİR S., KİREMİTLER N. B. , KARABEL S., HANÇER M., KAYA S., ÖNSE S. M. S.
12th Nanoscience and Nanotechnology Conference (NanoTR-12), Kocaeli, Turkey, 3 - 05 June 2016, pp.422
- XIV. **Electrospun nanofibers as templates for surface patterning**
KİREMİTLER N. B. , PEKDEMİR S., HANÇER M., ÖNSE S. M. S.
12th Nanoscience and Nanotechnology Conference (NanoTR-12), Kocaeli, Turkey, 3 - 05 June 2016, pp.422
- XV. **In-situ biomineralization of hydroxyapatite grafted polycaprolactone silver (PCL/HA-Ag) nanofiber biocomposites via electrospinning in saturated SBF characterised by QCM-D**
KİREMİTLER N. B. , HANÇER M.
4th International Conference on Multifunctional Hybrid Nanomaterials, Barcelona, Spain, 9 - 13 March 2015, pp.1-

Supported Projects

ÖNSES M. S. , KILIÇ DOKAN F., ŞAHMETLİOĞLU E., YILMAZ E., ÖZDEMİR A. T. , KİREMİTLER N. B. , Project Supported by Higher Education Institutions, Nanoyapılı Esnek Enerji Depolama Sistemlerinin Üretilmesine Yönelik Altyapı Geliştirilmesi, 2020 - Continues

ÖNSES M. S. , KİREMİTLER N. B. , ŞAKİR M., Project Supported by Higher Education Institutions, Saydam elektrot uygulamaları için Elektrospunlenmiş Nanofiberler üzerinde İletken Ağların Üretilmesi, 2018 - 2020

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

Citations

Total Citations (WOS):93

h-index (WOS):6