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Education Information

Doctorate, Bogazici University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 2011 - 2017

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Polymer Science and Technology, Turkey 2008 - 2010

Undergraduate Double Major, Istanbul Technical University, Tekstil Teknolojileri ve Tasarımı, Tekstil Mühendisliği, Turkey 2005 - 2009

Undergraduate, Istanbul Technical University, Fen-Edebiyat, Kimya, Turkey 2004 - 2008

Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, Tekstil Teknolojileri ve Tasarımı, Tekstil Mühendisliği, 2023 - Continues

Research Assistant, Bogazici University, Faculty Of Arts And Sciences, Department Of Chemistry, 2011 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Fabrication and characterization of graphene-loaded recycled poly(ethylene terephthalate) electrospun composite nanofibrous mats with improved thermal conductivity**
Kalaoğlu Altan Ö. İ., Karagüzel Kayaoglu B., Trabzon L.
Polymer Composites, vol.45, no.1, pp.709-721, 2024 (SCI-Expanded)
- II. **Improving thermal conductivities of textile materials by nanohybrid approaches**
Kalaoglu-Altan O. I., Karagüzel Kayaoglu B., Trabzon L.
ISCIENCE, vol.25, no.3, 2022 (SCI-Expanded)
- III. **Hydrophilic Cross-Linked Polymeric Nanofibers Using Electrospinning: Imparting Aqueous Stability to Enable Biomedical Applications**
Golba B., Kalaoglu-Altan Ö. İ., Sanyal R., Sanyal A.
ACS Applied Polymer Materials, vol.4, no.1, pp.1-17, 2022 (SCI-Expanded)
- IV. **Silver Nanoparticle-Coated Polyhydroxyalkanoate Based Electrospun Fibers for Wound Dressing Applications**
Kalaoglu-Altan Ö. İ., Baskan H., Meireman T., Basnett P., Azimi B., Fusco A., Funel N., Donnarumma G., Lazzeri A., Roy I., et al.
MATERIALS, vol.14, no.17, 2021 (SCI-Expanded)

- V. **Micropatterned Reactive Nanofibers: Facile Fabrication of a Versatile Biofunctionalizable Interface**
 Kalaoglu-Altan Ö. İ., Sanyal R., Sanyal A.
 ACS Applied Polymer Materials, vol.2, no.9, pp.4026-4036, 2020 (SCI-Expanded)
- VI. **Crosslinking of electrospun and bioextruded partially hydrolyzed poly(2-ethyl-2-oxazoline) using glutaraldehyde vapour**
 Kalaoglu-Altan Ö. İ., Li Y., McMaster R., Shaw A., Hou Z., Vergaele M., Hoogenboom R., Dargaville T. R., De Clerck K.
 European Polymer Journal, vol.120, 2019 (SCI-Expanded)
- VII. **Orthogonally "clickable" Biodegradable Nanofibers: Tailoring Biomaterials for Specific Protein Immobilization**
 Kalaoglu-Altan Ö. İ., Sanyal R., Sanyal A.
 ACS Omega, vol.4, no.1, pp.121-129, 2019 (SCI-Expanded)
- VIII. **Humidity induced inhibition and enhancement of spontaneous emission of dye molecules in a single PEG nanofiber**
 Gökbüyük B., Yartası E., Sunar E., Kalaoglu-Altan Ö. İ., Gevrek T. N., Sanyal A., Inci M. N.
 Optical Materials Express, vol.8, no.3, pp.568-580, 2018 (SCI-Expanded)
- IX. **Diels-Alder "clickable" Biodegradable Nanofibers: Benign Tailoring of Scaffolds for Biomolecular Immobilization and Cell Growth**
 Kalaoglu-Altan Ö. İ., Kirac-Aydin A., Sumer Bolu B., Sanyal R., Sanyal A.
 Bioconjugate Chemistry, vol.28, no.9, pp.2420-2428, 2017 (SCI-Expanded)
- X. **Synthesis, characterization and electrospinning of corn cob cellulose-graft-polyacrylonitrile and their clay nanocomposites**
 Kalaoglu Ö. İ., Ünlü C. H., Atıcı O.
 CARBOHYDRATE POLYMERS, vol.147, pp.37-44, 2016 (SCI-Expanded)
- XI. **Multireactive Poly(2-oxazoline) Nanofibers through Electrospinning with Crosslinking on the Fly**
 Kalaoglu-Altan Ö. İ., Verbraeken B., Lava K., Gevrek T. N., Sanyal R., Dargaville T., De Clerck K., Hoogenboom R., Sanyal A.
 ACS Macro Letters, vol.5, no.6, pp.676-681, 2016 (SCI-Expanded)
- XII. **Reactive and 'clickable' electrospun polymeric nanofibers**
 Kalaoglu-Altan Ö. İ., Sanyal R., Sanyal A.
 Polymer Chemistry, vol.6, no.18, pp.3372-3381, 2015 (SCI-Expanded)
- XIII. **"Clickable" polymeric nanofibers through hydrophilic-hydrophobic balance: Fabrication of robust biomolecular immobilization platforms**
 Kalaoglu-Altan Ö. İ., Sanyal R., Sanyal A.
 Biomacromolecules, vol.16, no.5, pp.1590-1597, 2015 (SCI-Expanded)
- XIV. **Retail demand forecasting in clothing industry**
 Kalaoglu Ö. İ., Akyuz E. S., Ecemis S., Eryürük S. H., Sümen H., Kalaoğlu F.
 Tekstil ve Konfeksiyon, vol.25, no.2, pp.172-178, 2015 (SCI-Expanded)
- XV. **An alternative solvent system for the steady state electrospinning of polycaprolactone**
 Van Der Schueren L., De Schoenmaker B., Kalaoglu Ö. İ., De Clerck K.
 European Polymer Journal, vol.47, no.6, pp.1256-1263, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **DIBENZO-18-CROWN-6/POLYCAPROLACTONE COMPOSITE NANOFIBERS FOR SELECTIVE ADSORPTION OF CATIONS**
 Kalaoglu-Altan O. I.
 Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.28, no.1, pp.53-66, 2023 (Peer-Reviewed Journal)
- II. **Electrosprayed chitin nanofibril/electrospun polyhydroxyalkanoate fiber mesh as functional nonwoven for skin application**
 Azimi B., Thomas L., Fusco A., Kalaoglu-Altan Ö. İ., Basnett P., Cinelli P., de Clerck K., Roy I., Donnarumma G., Coltellini

M., et al.

Journal of Functional Biomaterials, vol.11, no.3, 2020 (ESCI)

III. Development of bionanocomposites based on poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate) /polylactide blends reinforced with cloisite 30B

Lacoste C., Gallard B., Lopez-Cuesta J., Kalaoglu-Alta Ö. İ., de Clerck K.

Journal of Functional Biomaterials, vol.11, no.3, 2020 (ESCI)

Books & Book Chapters

I. Biodegradable Polymers: Synthesis and Functionalization

KALAOĞLU ALTAN Ö. İ., SANYAL R., SANYAL A.

in: Encyclopedia of Biomedical Polymers and Polymeric Biomaterials, Mishra Munmaya, Editor, Taylor & Francis, pp.776-803, 2015

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