

## Asst. Prof. Özlem İpek Kalaoğlu Altan

### Personal Information

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### International Researcher IDs

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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**  
Kalaoglu Altan Ö. İ., Karagüzel Kayaoğlu 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. İ., Karagüzel Kayaoğlu 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., Vergaelen 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**  
Gökbulut B., Yartasi 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., Atici 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., Ecemiş 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., Coltelli

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

## **Metrics**

Publication: 27

Citation (WoS): 11

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