

## Assoc. Prof. Demet KARACA BALTA

### Personal Information

**Birthyear:** 1978

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### Education Information

Doctorate, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fak., Kimya Bölümü, Turkey 2005 - 2009

Post Graduate, Yıldız Technical University, Faculty of Arts & Science, Department of Chemistry, Turkey 2002 - 2005

Under Graduate, Yıldız Technical University, Faculty of Arts & Science, Department of Chemistry, Turkey 1998 - 2002

### Dissertations

Doctorate, POLİAROMATİK FOTOBAŞLATICILARIN SENTEZİ: FOTOFİZİKSEL VE FOTOKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Kimya Bölümü/Fizikokimya, 2009

Post Graduate, YENİ BİR FOTOBAŞLATICI OLARAK 5-TİYA-PENTASEN-14-ON' UN SENTEZİ, KARAKTERİZASYONU VE FOTOPOLİMERİZASYONUNUN İNCELENMESİ, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Kimya Bölümü/Fizikokimya, 2004

### Research Areas

Chemistry, Physical Chemistry, nanocomposites, Characterization of Polymers, New Technologies in Polymer Chemistry, Polymeric Materials, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Department of Chemistry, 2015 - Continues

Research Assistant PhD, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Department of Chemistry, 2009 - 2015

Research Assistant, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Department of Chemistry, 2002 - 2009

### Courses

GENEL KİMYA, Under Graduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021

Macromolecular Chemistry, Under Graduate, 2018 - 2019, 2019 - 2020

Fizikokimya Laboratuvarı 1, Under Graduate, 2019 - 2020

Fizikokimya Laboratuvarı 2, Under Graduate, 2014 - 2015, 2015 - 2016, 2017 - 2018, 2020 - 2021

Fizikokimya 2, Under Graduate, 2016 - 2017

## Advising Theses

Karaca Balta D., FOTOAKTİF HİDROJELLERİN MİSEL KOPOLİMERİZASYONU İLE ELDESİ VE FLORESANS MADDE SALIM DAVRANIŞLARININ İNCELENMESİ, Post Graduate, D.KILIÇ(Student), 2019

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

- I. **Single-chain polymer nanoparticles via click crosslinking and effect of photoinduced radical combination on crosslink points**  
Keklik M., Akar I., TEMEL B., Balta D., TEMEL B.  
POLYMER INTERNATIONAL, vol.69, pp.1018-1023, 2020 (Journal Indexed in SCI)
- II. **Rapid synthesis of fluorescent single-chain nanoparticles via photoinduced step-growth polymerization of pendant carbazole units**  
KILIÇ D., Pamukcu C., Balta D., Temel B. A. , Temel G.  
EUROPEAN POLYMER JOURNAL, vol.125, 2020 (Journal Indexed in SCI)
- III. **Versatile light-responsive organogels: Evaluation of their dye releasing and photoinitiation behaviors**  
Dashan I., Elverici M., Balta D., Temel B. A. , Temel G.  
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.57, pp.1275-1282, 2019 (Journal Indexed in SCI)
- IV. **Preparation of Single Chain Nanoparticles via Photoinduced Double Collapse Process**  
Dashan I., Balta D., Temel B. A. , Temel G.  
MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.220, 2019 (Journal Indexed in SCI)
- V. **Preparation of single chain nanoparticles via photoinduced radical coupling process**  
Dashan I., Balta D., Temel B. A. , Temel G.  
EUROPEAN POLYMER JOURNAL, vol.113, pp.183-191, 2019 (Journal Indexed in SCI)
- VI. **Synthesis and characterization of POSS hybrid organogels using Menshutkin quaternization chemistry**  
KILIÇ D., BALTA D., Saloglu D., Temel G.  
POLYMER INTERNATIONAL, vol.68, pp.369-376, 2019 (Journal Indexed in SCI)
- VII. **Single-Chain Folding Nanoparticles as Carbon Nanotube Catchers**  
BİLGİ M., Balta D., TEMEL B. A. , Temel G.  
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.56, pp.2709-2714, 2018 (Journal Indexed in SCI)
- VIII. **Synthesis of photoactive single-chain folded polymeric nanoparticles via combination of radical polymerization techniques and Menshutkin click chemistry**  
Babaoglu S., Balta D., Temel G.  
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.55, pp.1998-2003, 2017 (Journal Indexed in SCI)
- IX. **Photodimerization of thioxanthone-anthracene: formation of monochromophoric Type II initiator**  
Balta D., ARSU N.  
DESIGNED MONOMERS AND POLYMERS, vol.19, pp.222-226, 2016 (Journal Indexed in SCI)
- X. **Thioxanthone of Fluorenone: Visible Photoinitiator for Radical Polymerization**  
KARACA N., Balta D., OCAL N., ARSU N.  
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.54, pp.1012-1019, 2016 (Journal Indexed in SCI)
- XI. **"Mono" and "bifunctional" aromatic esterificated benzophenone photoinitiators for free radical polymerization**  
AYDIN M., Temel G., Balta D., ARSU N.  
POLYMER BULLETIN, vol.72, pp.309-322, 2015 (Journal Indexed in SCI)

- XII. **Synthesis, photophysical and photochemical studies of benzophenone based novel monomeric and polymeric photoinitiators**  
Balta D., Karahan O., Avci D., ARSU N.  
PROGRESS IN ORGANIC COATINGS, vol.78, pp.200-207, 2015 (Journal Indexed in SCI)
- XIII. **One-Component Thioxanthone Acetic Acid Derivative Photoinitiator for Free Radical Polymerization**  
Esen D. S., Temel G., Balta D., Allonas X., ARSU N.  
PHOTOCHEMISTRY AND PHOTOBIOLOGY, vol.90, pp.463-469, 2014 (Journal Indexed in SCI)
- XIV. **Mechanistic studies of thioxanthone-carbazole as a one-component type II photoinitiator**  
Karaca N., Balta D., Ocal N., ARSU N.  
JOURNAL OF LUMINESCENCE, vol.146, pp.424-429, 2014 (Journal Indexed in SCI)
- XV. **Synthesis and evaluations of novel photoinitiators with side-chain benzophenone, derived from alkyl alpha-hydroxymethacrylates**  
Karahan O., Balta D., ARSU N., Avci D.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.274, pp.43-49, 2014 (Journal Indexed in SCI)
- XVI. **Thioxanthone-ethyl anthracene**  
Balta D., ARSU N.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.257, pp.54-59, 2013 (Journal Indexed in SCI)
- XVII. **Type II photoinitiator substituted zinc phthalocyanine: Synthesis, photophysical and photopolymerization studies**  
KORKUT S., Temel G., Balta D., ARSU N., ŞENER M. K.  
JOURNAL OF LUMINESCENCE, vol.136, pp.389-394, 2013 (Journal Indexed in SCI)
- XVIII. **Thioxanthone-Diphenyl Anthracene: Visible Light Photoinitiator**  
Balta D., TEMEL G., GOKSU G., OCAŁ N., ARSU N.  
MACROMOLECULES, vol.45, pp.119-125, 2012 (Journal Indexed in SCI)
- XIX. **Mechanism of Photoinitiated Free Radical Polymerization by Thioxanthone-Anthracene in the Presence of Air**  
Balta D., ARSU N., YAĞCI Y., SUNDARESAN A. K., JOCKUSCH S., TURRO N. J.  
MACROMOLECULES, vol.44, pp.2531-2535, 2011 (Journal Indexed in SCI)
- XX. **Photopolymerization and photophysical properties of amine linked benzophenone photoinitiator for free radical polymerization**  
Temel G., Enginol B., AYDIN M., Balta D., ARSU N.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.219, pp.26-31, 2011 (Journal Indexed in SCI)
- XXI. **Photoinitiated polymerization of beta-cyclodextrin/methyl methacrylate host/guest complex in the presence of water soluble photoinitiator, thioxanthone-catechol-O,O'-diacetic acid**  
Karasu F., Balta D., Liska R., ARSU N.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.68, pp.147-153, 2010 (Journal Indexed in SCI)
- XXII. **Thioxanthone based water-soluble photoinitiators for acrylamide photopolymerization**  
Balta D., Temel G., AYDIN M., ARSU N.  
EUROPEAN POLYMER JOURNAL, vol.46, pp.1374-1379, 2010 (Journal Indexed in SCI)
- XXIII. **Poly(ethylene glycol)-Thioxanthone Prepared by Diels-Alder Click Chemistry as One-Component Polymeric Photoinitiator for Aqueous Free-Radical Polymerization**  
Akat H., GACAL B., Balta D., ARSU N., YAĞCI Y.  
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.48, pp.2109-2114, 2010 (Journal Indexed in SCI)
- XXIV. **The Synthesis of Water Soluble Cationic Microgels by Dispersion Polymerization: Their Performance in Kaolin Deposition Onto Fiber**  
ONDARAL S., USTA M., GÜMÜŞDERELİOĞLU M., ARSU N., Balta D.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.116, pp.1157-1164, 2010 (Journal Indexed in SCI)

- XXV. **Preparation of hydrogels by photopolymerization of acrylates in the presence of Type I and one-component Type II photoinitiators**  
Karaca N., Temel G., Balta D., AYDIN M., ARSU N.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.209, pp.1-6, 2010 (Journal Indexed in SCI)
- XXVI. **The effect of aromatic aminoalcohols on UV-cured films**  
ARSU N., KARASU F., BALTA D., TEMEL G.  
PROGRESS IN ORGANIC COATINGS, vol.65, pp.136-141, 2009 (Journal Indexed in SCI)
- XXVII. **Determination of photoinitiated polymerization of multifunctional acrylates with acetic acid derivatives of thioxanthone by RT-FTIR**  
KARASU F., AYDIN M., KAYA M. A., BALTA D., ARSU N.  
PROGRESS IN ORGANIC COATINGS, vol.64, pp.1-4, 2009 (Journal Indexed in SCI)
- XXVIII. **Host/guest complex of beta-cyclodextrin/5-thia pentacene-14-one for photoinitiated polymerization of acrylamide in water**  
BALTA D., ARSU N.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.200, pp.377-380, 2008 (Journal Indexed in SCI)
- XXIX. **An annelated thioxanthone as a new Type II initiator**  
Balta D., CETINER N., TEMEL G., TURGUT Z., ARSU N.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.199, pp.316-321, 2008 (Journal Indexed in SCI)
- XXX. **Chemical incorporation of thioxanthone into beta-cyclodextrin and its use in aqueous photopolymerization of methyl methacrylate**  
Balta D., BAGDATLI E., ARSU N., OCAL N., Yağcı Y.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.196, pp.33-37, 2008 (Journal Indexed in SCI)
- XXXI. **Synthesis and characterization of polymeric thioxanthone photoinitiators via double click reactions**  
Gacal B., Akat H., Balta D., ARSU N., Yağcı Y.  
MACROMOLECULES, vol.41, pp.2401-2405, 2008 (Journal Indexed in SCI)
- XXXII. **Universality in gelation of epoxy acrylate with various photoinitiators: a photo differential scanning calorimetric study**  
Dogruyol Z., Karasu F., Balta D., ARSU N., Pekcan O.  
PHASE TRANSITIONS, vol.81, pp.935-947, 2008 (Journal Indexed in SCI)
- XXXIII. **Quinoxaline derivatives as photoinitiators in UV-cured coatings**  
BALTA D., KESKIN S., KARASU F., ARSU N.  
PROGRESS IN ORGANIC COATINGS, vol.60, pp.207-210, 2007 (Journal Indexed in SCI)
- XXXIV. **The effect of the amine structure on photoinitiated free radical polymerization of methyl methacrylate using bisketocoumarin dye**  
BALTA D., KARASU F., Aydin M., Arsu N.  
PROGRESS IN ORGANIC COATINGS, vol.59, pp.274-277, 2007 (Journal Indexed in SCI)
- XXXV. **Thioxanthone-anthracene: A new photoinitiator for free radical polymerization in the presence of oxygen**  
Balta D., Arsu N., YAGCI Y., JOCKUSCH S., TURRO N. J.  
MACROMOLECULES, vol.40, pp.4138-4141, 2007 (Journal Indexed in SCI)

## Books & Book Chapters

- I. **The effect of photoinitiator content and UV intensity on the rate of diacrylate polymerization; A photo-DSC study**

Doğruyol Z., Karasu F., Temel İ. G. , Karaca Balta D., Aydın M., Doğruyol S., Pekcan M. Ö. , Arsu N.  
in: Basics and Applications of Photopolymerization Reactions, J.P. Fouassier,X. Allonas, Editor, Research Signpost, Thiruvananthapuram, pp.161-173, 2010

**II. Thioxanthone based polymeric photoinitiators” Basics and Applications of Photopolymerization Reactions**

Temel İ. G. , Karaca Balta D., Sevinç D., Arsu N., Fouassier J., Allonas X.

in: Basics and Applications of Photopolymerization Reactions, J.P. Fouassier,X. Allonas, Editor, research signpost , Thiruvananthapuram, pp.37-48, 2010

**III. Host/guest complexes of  $\beta$ -Cyclodextrin / 5-Thia pentacene-14-one and  $\beta$ -Cyclodextrin / Thioxanthone Polystyrene for Photoinitiated Polymerization of Acrylamide in Water**

Temel İ. G. , Karaca Balta D., Karasu F., Arsu N., Hu J.

in: In Cyclodextrins: Chemistry and Physics, Jie Hu, Editor, Research Signpost, Thiruvananthapuram, pp.241-256, 2010

**IV. Photoinitiated polymerization of  $\beta$ -Cyclodextrin/ Methyl Methacrylate Host /Guest complex in the Presence of Water Soluble Photoinitiator, Thioxanthone O,O'- Diacetic Acid**

Karaca Balta D., Karasu F., Temel İ. G. , Liska R., Arsu N., Hu J.

in: In Cyclodextrins: Chemistry and Physics , Jie Hu, Editor, Research Signpost, Thiruvananthapuram, pp.231-240, 2010

**V. Preparation of Hydrogels by Photoinitiated Polymerization of Acrylates: in the presence of novel initiators**

Karaca N., Temel İ. G. , Karaca Balta D., Aydın M., Arsu N., Fouassier J., Allonas X.

in: Basics and Applications of Photopolymerization Reactions vol 3, J.P. Fouassier,X. Allonas, Editor, Research Signpost, Thiruvananthapuram, pp.33-46, 2010

## Refereed Congress / Symposium Publications in Proceedings

**I. Poss Nanoparçacığı İçeren Kaplamaların Hazırlanması Ve Mekanik Özelliklerinin İncelenmesi**

Kılıç D., Karaca Balta D., Aydın M.

12.Ulusal Kimya Mühendisleri Kongresi, İzmir, Turkey, 23 - 26 August 2016

**II. Menschutkin Klik Kimyası ile Nanomalzemelerin Üretimi ve Özellikleri**

Babaoğlu S., Karaca Balta D., Temel İ. G.

12.Ulusal Kimya Mühendisleri Kongresi, İzmir, Turkey, 23 - 26 August 2016

**III. Photophysical Properties of Oligothiophenes End-Capped with Thioxanthone Naphthalene**

Istif E., Karaboğa E., Karaca Balta D., Arsu N.

Solar Energy for World Peace , İstanbul, Turkey, 17 - 19 August 2013, pp.258-259

**IV. Synthesis and Investigation of Photophysical Properties of Novel Thioxanthone Based Oligothiophenes**

Karaboğa E., Istif E., Karaca Balta D., Aydın Yüksel S., Arsu N.

European Polymer Congress , Pistoia, Italy, 16 - 21 June 2013, pp.45

**V. The Investigation of Photophysical Properties of Porphyrine Metal Complexes**

Karaca Balta D., Aytan Kılıçarslan F., Arsu N., Manav Yalçın S., Gül A.

European Polymer Congress (EPF 2013), Pistoia, Italy, 16 - 21 June 2013, pp.58

**VI. Tiyokzanton Bazlı Fotobaşlatıcılar ve Oligotiyofen Sentezi**

Karaboğa E., Istif E., Karaca Balta D., Arsu N.

XXVI. Ulusal Kimya Kongresi , Muğla, Turkey, 1 - 06 October 2012

**VII. Tip II Fotobaşlatıcı Sübstitüe Çinko Ftalosiyaninin Sentezi, Fotopolimerizasyon ve Fotofiziksel Özelliklerinin İncelenmesi**

Eken Korkut S., Arsu N., Şener M. K. , Karaca Balta D., Temel G.

III. Fiziksel Kimya Günleri, Balıkesir, Turkey, 12 - 15 July 2012, pp.13

**VIII. Host-Guest Inclusion Complexes of Thioxanthone Based Photoinitiators with beta-Cyclodextrin:**

## **Photoinitiated Polymerization of MMA and AM**

Arsu N., Karaca Balta D., Karasu Kılıç F., Temel İ. G.

RSC Macrocyclic and Supramolecular Chemistry Meeting, London, United Kingdom, 19 - 20 December 2011, pp.3

- IX. **Photophysical Properties of Free-base, MgII(ethylsulfanyl)-porphyrazine**  
Karaca Balta D., Aytan Kılıçarslan F., Arsu N., Yalçın S. S. , Gül A.  
APME-2011 International Symposium on Advanced Polymers via Macromolecular Engineering , Nevşehir, Turkey, 5 - 08 November 2011, pp.204
- X. **Thioxanthone-Fluorene: A New Visible Photoinitiator**  
Karaca N., Karaca Balta D., Öcal N., Arsu N.  
APME-2011 International Symposium on Advanced Polymers via Macromolecular Engineering , Nevşehir, Turkey, 5 - 08 November 2011, pp.186
- XI. **Functionalization of MW-CNT**  
Karaca Balta D., Özşen A., Arsu N.  
APME-2011 International Symposium on Advanced Polymers via Macromolecular Engineering, Nevşehir, Turkey, 5 - 08 November 2011, pp.185
- XII. **The Synthesis of 1-Hydroxy-4-(Carboxymethoxy) Thioxanthone as Photoinitiator and Investigation of Photoinitiation Efficiency**  
Şekerci C., Karaca N., Karaca Balta D., Arsu N.  
European Symposium of Photopolymer Science, Mulhouse, France, 28 November - 01 December 2010, pp.27
- XIII. **Benzoin Derivatives as Photoinitiators: Photophysical and Photochemical Properties**  
Sevinç D., Karaca Balta D., Temel İ. G. , Arsu N.  
European Symposium of Photopolymer Science, Mulhouse, France, 28 November - 01 December 2010, pp.28
- XIV. **Effect of NaCl on Plasmid DNA Presipitation with a Cationic Surfactant in Aqueous Solution**  
Atacı N., Karaca Balta D., Saraç Özkan A., Arısan I.  
Chemical Physics IX , İzmir, Turkey, 14 - 16 October 2010, pp.122
- XV. **Yeni Bir Fotobaşlatıcı Olarak Sentezlenen 14H-fenantro[4,5-abc]tiyokzanten-14-on (TX-Py)' un Çözücüyle Etkileşimlerinin UV ve Floresans Spektroskopisi İle İncelenmesi**  
Sandalcı S., Karaca Balta D., Arsu N.  
24. Ulusal Kimya Kongresi , Zonguldak, Turkey, 29 June - 02 July 2010
- XVI. **Yeni Bir Fotobaşlatıcı Olarak 2-(3-okzobutil)-9H-tiyokzanten-9-on (TX-BA)' un Sentezi, Karakterizasyonu ve Fotopolimerizasyondaki Etkinliğinin İncelenmesi**  
Türk B., Karaca Balta D., Aydın M., Arsu N.  
24. Ulusal Kimya Kongresi , Zonguldak, Turkey, 29 June - 02 July 2010
- XVII. **Yeni Bir Fotobaşlatıcı Olan 5-Tiya pentasen 14-on (TX-A)' un Dimerizasyonu ve Karakterizasyonu**  
Karaca Balta D., Arsu N.  
24. Ulusal Kimya Kongresi , Zonguldak, Turkey, 29 June - 02 July 2010
- XVIII. **Yeni Bir Poliaromatik Fotobaşlatıcı Olarak 12-(hidroksimetil)-14H-nafto[2,3-b]tiyokzanten-14-on (TX-Am)' un Sentezi, Karakterizasyonu ve Çeşitli Akrilatlar Beraberinde Fotopolimerizasyondaki Etkinliğinin İncelenmesi**  
Dilsiz M., Karaca Balta D., Arsu N.  
24. Ulusal Kimya Kongresi , Zonguldak, Turkey, 29 June - 02 July 2010
- XIX. **Synthesis and Characterization of Polymeric One Component Type II Photoinitiator for Water-Borne Curing**  
Akat H., Gacal Özcan B., Karaca Balta D., Arsu N., Yağcı Y.  
2nd International Symposium On Thermosets, Antalya, Turkey, 22 - 25 November 2009, pp.93
- XX. **Thioxathone Photoinitiators for (Meth)acrylic Based UV Curable Thermosets**  
Sevinç D., Karasu F., Karaca Balta D., Doğruyol Z., Doğruyol S., Arsu N.  
2nd International Symposium On Thermosets, Antalya, Turkey, 22 - 25 November 2009, pp.28
- XXI. **Tiyokzanton Bazlı Görünür Başlatıcıların Sentezi**  
Doğruyol S., Karaca Balta D., Doğruyol Z., Temel İ. G. , Arsu N.  
XXII. Ulusal Kimya Kongresi, Gazimagusa, Cyprus (Kktc), 6 - 10 October 2008, pp.6

- XXII. **Çesitli Benzofenon ve Tiyokzanton Bazlı Fotobaşlatıcıların Fotofiziksel Özelliklerinin İncelenmesi**  
Alpaslan S., Ateş S., Karaca Balta D., Arsu N.  
22. Ulusal Kimya Kongresi , Gazimagusa, Cyprus (Kkctc), 6 - 10 October 2008, pp.174
- XXIII. **Tiyokzanton Türevi Tiyooasetik Asit ve Sodyum Tuzu Fotobaşlatıcıları Kullanılarak Fotobaşlatılmış Polimerizasyon Yöntemiyle Hidrojellerin Sentezi ve Elde edilen Hidrojellerin Özelliklerinin İncelenmesi**  
Karaca N., Karaca Balta D., Temel İ. G. , Arsu N.  
22. Ulusal Kimya Kongresi, Gazimagusa, Cyprus (Kkctc), 6 - 10 October 2008, pp.135
- XXIV. **Tiyokzanton Bazlı Tek Bileşenli II. Tip Fotobaşlatıcıların Çözücüyle Etkileşimlerinin Floresans Spektroskopisi ile İncelenmesi**  
Karaca Balta D., Çakmak B., Karasu F., Arsu N.  
22. Ulusal Kimya Kongresi , Gazimagusa, Cyprus (Kkctc), 6 - 10 October 2008, pp.72
- XXV. **Tiyokzanton Türevi Yeni bir Poliaromatik Fotobaşlatıcının Sentezi ve Fotopolimerizasyondaki Etkinliğinin İncelenmesi**  
Karaca Balta D., Arsu N.  
22. Ulusal Kimya Kongresi , Gazimagusa, Cyprus (Kkctc), 6 - 10 October 2008, pp.182
- XXVI. **UV-Curable Nanocoatings by Type II Photoinitiators**  
Temel İ. G. , Karaca Balta D., Arsu N.  
NATO-ASI, New Smart Materials via Metal Mediated Macromolecular Engineering: From Complex to Nano Structures , Antalya, Turkey, 1 - 12 September 2008, pp.56
- XXVII. **Synthesis and Characterization of Polymeric Thioxanthone Photoinitiators via Double Click Reactions**  
Gacal Özcan B., Akat H., Karaca Balta D., Arsu N., Yağcı Y.  
NATO-ASI, New Smart Materials via Metal Mediated Macromolecular Engineering: From Complex to Nano Structures, Antalya, Turkey, 1 - 12 September 2008, pp.49
- XXVIII. **Photoinitiated Polymerization of  $\beta$ -Cyclodextrin / Methyl Methacrylate Host / Guest Complex in the Presence of Water Soluble Photoinitiator**  
Karasu F., Karaca Balta D., Liska R., Arsu N.  
9th Austrian Polymer Meeting , Graz, Austria, 3 - 05 March 2008, pp.103
- XXIX. **Tek Bileşenli Fotobaşlatıcılar Beraberinde Fotobaşlatılmış Polimerizasyon ile Hidrojellerin Hazırlanması**  
Karaca Balta D., Karaca N., Temel İ. G. , Arsu N.  
21. Ulusal Kimya Kongresi , Malatya, Turkey, 23 - 27 August 2007
- XXX. **Fotobaşlatılmış Polimerizasyon Yöntemiyle Hidrojellerin Hazırlanması**  
Karaca N., Karaca Balta D., Arsu N.  
21. Ulusal Kimya Kongresi, Malatya, Turkey, 23 - 27 August 2007, pp.87
- XXXI. **Metilmetakrilatın beta-Siklodekstrin ile Oluşturulmuş Kompleksinin Suda Çözünen Tiyoksanton Türevi bir Fotobaşlatıcıyla Gerçekleştirilen Fotobaşlatılmış Polimerizasyonu**  
Karaca Balta D., Karasu F., Arsu N.  
21. Ulusal Kimya Kongresi , Malatya, Turkey, 23 - 27 August 2007, pp.93
- XXXII. **UV ile Hazırlanmış Kaplamalardaki Reaksiyona Girmemiş Fotobaşlatıcı Miktarının UV Spektroskopisi Yöntemi ile Belirlenmesi**  
Uzaşçı S., Enginol B., Temel İ. G. , Karaca Balta D., Arsu N.  
21. Ulusal Kimya Kongresi , Malatya, Turkey, 23 - 27 August 2007, pp.166
- XXXIII. **Water Soluble Hyperbranched Macrophotoinitiator Containing Thioxanthone and Amine**  
Temel İ. G. , Karasu F., Karaca Balta D., Arsu N.  
8th Austrian Polymer Meeting, Linz, Austria, 20 - 23 September 2006, pp.22
- XXXIV. **Thioxanthone Attached Cyclodextrine as a Novel Water Soluble Initiator**  
Karaca Balta D., Bağdatlı E., Arsu N., Öcal N., Yağcı Y.  
8th Austrian Polymer Meeting, Linz, Austria, 20 - 23 September 2006, pp.25
- XXXV. **Free radical polymerization of  $\beta$ -Cyclodextrin complexes of Methyl methacrylate in the presence of**

**novel water soluble Thioxanthone based photoinitiators**

Karaca Balta D., Aydın M., Doğruyol S., Arsu N.

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**XXXVI. Free Radical Polymerization of Acrylamide in the Presence of  $\beta$ -Cyclodextrin Complexes of the Hydrophobic Photoinitiator 5-Thia-pentacene-14-one in Water**

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