

Prof. Nergis ARSU

Personal Information

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Education Information

Post Doctorate, Columbia University, Chemistry, United States Of America 2000 - 2000

Doctorate, City University, London, Chemistry, England 1988 - 1993

Postgraduate, Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Chemical Engineering, Turkey 1984 - 1986

Undergraduate, Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Chemical Engineering, Turkey 1979 - 1983

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Synthesis of Novel Amino Alcohol and their Uv-Curing Applications, The City University, London, 1993

Postgraduate, Asetik asit -Toluen Azeotropuna Basınc Etkisi, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 1986

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Nanomaterials, Chemistry, Physical Chemistry, Characterization of Polymers, Polymeric Films, Polymeric Materials, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2006 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2000 - 2006

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 1994 - 2000

Academic and Administrative Experience

Erasmus Coordinator, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2006 - 2018

Vice Dean, Yildiz Technical University, Faculty Of Arts & Science, 2006 - 2007

Deputy Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2000 - 2006

Courses

Specialized Field Course (Master), Postgraduate, 2001 - 2002, 2002 - 2003, 2003 - 2004, 2004 - 2005, 2005 - 2006, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022

Specialized Field Course (Ph.D.), Doctorate, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022

Ph.D. Thesis, Doctorate, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022

M.Sc. Thesis, Postgraduate, 2001 - 2002, 2002 - 2003, 2003 - 2004, 2004 - 2005, 2005 - 2006, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022

Bitirme Çalışması, Undergraduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022

Photochemical Technology, Undergraduate, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2013 - 2014, 2015 - 2016, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021

Physical Chemistry 1, Undergraduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022

Photopolymerization, Postgraduate, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022

Self-healing Polymers and Composite Materials, Postgraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021

Physical Chemistry Laboratory 1, Undergraduate, 2020 - 2021

Professional English, Undergraduate, 2004 - 2005, 2005 - 2006, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2020 - 2021

Characterization of Polymers, Postgraduate, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2012 - 2013, 2013 - 2014, 2017 - 2018, 2018 - 2019, 2019 - 2020

Special Topics in Physical Chemistry, Doctorate, 2019 - 2020

Functional Polymers, Postgraduate, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2014 - 2015, 2015 - 2016

Introduction to Photochemistry, Undergraduate, 2008 - 2009, 2016 - 2017

General Chemistry, Undergraduate, 2004 - 2005, 2005 - 2006, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2014 - 2015

Industrial Polymers and Their Applications, Undergraduate, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014

Macromolecular Chemistry , Undergraduate, 2006 - 2007

Physical Chemistry 2, Undergraduate, 2005 - 2006

Advising Theses

Arsu N., Photochemical synthesis of thiol-norbornene hydrogels , Postgraduate, G.BATIBAY(Student), 2020

Arsu N., Kendi kendini onarma mekanizmasını destekleyecek disülfid bazlı tiyokzanton türevi fotobaşlatıcının sentezi ve karakterizasyonu, Postgraduate, D.KİMENÇE(Student), 2020

Arsu N., Investigation of the Interaction of N-benzyl-6- (4-cyanophenyl) -3,4-dimethylisoxazolo [5,4-b] pyridine-5-carboxamide with DNA, Postgraduate, K.ÖZDEMİR(Student), 2019

Arsu N., The syntheses of Dithioxanthone disulfide derivatives and the investigation of photoinitiation efficiencies , Doctorate, U.KOYUNCU(Student), 2019

Arsu N., Preparing nanocoatings and analysis of properties , Postgraduate, Y.ÖGÜN(Student), 2019

Arsu N., Synthesis of anthracene derivative photoinitiators and investigation of effectiveness in photochemical preparation of various nanoparticles, Postgraduate, S.MUTLU(Student), 2019

Arsu N., Photochemical synthesis of various metal nanoparticles in the presence of 2-thioxanthone thioacetic acid

dioxide, Postgraduate, E.ÖZÇELİK(Student), 2018

Arsu N., In-situ photopolymerization synthesis and characterization of metal nanoparticle/polymer nanocomposite films , Postgraduate, T.ÇİNKO(Student), 2017

Arsu N., UV curable antimicrobial coatings, Postgraduate, H.KIRTAY(Student), 2016

Arsu N., The synthesis of bromo thioxanthone and oligothiophene derivative and the investigation of photophysical and electrochemical properties, Postgraduate, B.ORHAN(Student), 2015

Arsu N., Photovulcanization of latex with different initiator, Postgraduate, M.ÇAKIROĞLU(Student), 2015

Arsu N., In-situ photopolymerization synthesis and characterization of nanocomposite films obtained by using crosslinked acrylic based polymers and gold nanoparticles, Postgraduate, T.ÇEPER(Student), 2015

Arsu N., In-situ preparation of nano silver /polymer nanocomposite thin films by photopolymerization method: Silver mirror, Postgraduate, M.ADIBELLİ(Student), 2015

Arsu N., The synthesis of molecular and polymeric initiator via heterocyclic aromatic molecules, Doctorate, N.KARACA(Student), 2014

Arsu N., The synthesis of 1-bromo thioxanthone naphthalene and oligothiophene derivatives and the investigation of photophysical and electrochemical properties, Postgraduate, E.KARABOĞA(Student), 2014

Arsu N., Synthesis and characterization of thioxanthone anthracene based oligothiophenes, Postgraduate, E.İSTİF(Student), 2014

Arsu N., Synthesis of Thioxanthone based photoinitiator and investigation of photophysical and photochemical properties, Postgraduate, H.ÖZKAN(Student), 2012

Arsu N., Synthesis of molecular and polymeric benzoin based photoinitiators and investigation of photophysical properties, Doctorate, D.SEVİNÇ(Student), 2012

Arsu N., Synthesis of Thioxanthone based initiator and examining of polymerization, Postgraduate, M.İŞİK(Student), 2012

Arsu N., The synthesis of 1-hydroxy-4-(carboxymethoxy) thioxanthone as photoinitiator and investigation of photoinitiation efficiency, Postgraduate, C.ŞEKERCİ(Student), 2011

Arsu N., The synthesis and investigation of photochemical properties of multifunctional initiators, Doctorate, F.KARASU(Student), 2011

Arsu N., Investigation of gelation and photopolymerization mechanisms induced by thioxanthone based initiators with some mathematical models, Doctorate, Z.DOĞRUYOL(Student), 2011

Arsu N., The synthesis of benzoin derivative photoinitiators and studying of their photophysical properties, Postgraduate, O.TUĞAN(Student), 2011

Arsu N., Synthesis and investigation of photochemical and photophysical properties of polymeric photoinitiator, Doctorate, G.TEMEL(Student), 2009

Arsu N., Synthesis of novel photoinitiators for free radical reactions and investigation of their photopolymerization kinetics, Doctorate, S.DOĞRUYOL(Student), 2009

Arsu N., Synthesis of polyaromatic photoinitiators: Investigation of photophysical and photochemical properties, Doctorate, D.KARACA(Student), 2009

Arsu N., Novel thioxanthone containing dendritic photoinitiators, Doctorate, T.PARALI(Student), 2009

Arsu N., Synthesis of thioxanthone-triphenylphosphine tx-tpp as an one component initiator and the investigation of efficiency of tx-tpp for the photopolymerization, Postgraduate, L.ESEN(Student), 2008

Arsu N., Investigation of the mechanical properties of nano particles containing uv cured coatings , Postgraduate, Ö.KALABALIKOĞLU(Student), 2008

Arsu N., Thioxanthone based quinoxaline one component photoinitiators synthesis and their role in photopolymerization, Postgraduate, M.MANAP(Student), 2007

Arsu N., The synthesis of thioxanthone-benzotriazole as a one component photoinitiator and the investigation of this initiator in photopolymerization, Postgraduate, D.SEVİNÇ(Student), 2007

Arsu N., Preparation of hydrogels by using of photoinitiated polymerization methods and the investigation of their mechanical properties, Postgraduate, N.KARACA(Student), 2007

Arsu N., Synthesis and polymerization of N,N-diethanolamine linked thioxanthone derivative, Postgraduate, G.TEMEL(Student), 2005

Arsu N., The synthesis of 2-methoxyphenoxythioxanthone acetic acid and it's photopolymerization, Postgraduate,

M.MELİH(Student), 2005

Arsu N., The synthesis and characterization of 5-thia-pentasen-14-one as a new photoinitiator and investigation of it's role in photopolymerization, Postgraduate, D.KARACA(Student), 2004

Arsu N., The synthesis and investigation of the photopolymerization of 5-thianaphthasene-12-one , Postgraduate, N.ÇETİNER(Student), 2004

Arsu N., The effects of 2-mercapto thioxanthone as a chain transfer agent in the free radical polymerization, Postgraduate, F.KARASU(Student), 2004

Arsu N., Synthesis and investigation of photophysical properties and photopolymerization of 2(N-methyl-phenylamino) asetonaphnone and 2-morpholino asetonaphnone, Postgraduate, S.KESKİN(Student), 2002

Arsu N., Synthesis of 2-mercapto thioxanthone as a novel photoinitiator and investigation of 2-mercapto thioxanthone for free radical photopolymerization, Postgraduate, L.ÇOKBAĞLAN(Student), 2002

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

- I. **High sensitivity colorimetric determination of L-cysteine using gold nanoparticles functionalized graphene oxide prepared by photochemical reduction method**
Mirac Dizman H., Kazancıoğlu E., Shigemune T., Takahara S., ARSU N.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.264, 2022 (Journal Indexed in SCI)
- II. **Photochemical synthesis of bimetallic gold/silver nanoparticles in polymer matrix with tunable absorption properties: Superior photocatalytic activity for degradation of methylene blue**
Kazancıoğlu E., AYDIN M., ARSU N.
MATERIALS CHEMISTRY AND PHYSICS, vol.269, 2021 (Journal Indexed in SCI)
- III. **Synthesis and characterization of multiarm (Benzoin-PS)(m)-polyDVB star polymer as a polymeric photoinitiator for polymerization of acrylates and methacrylates**
Esen D. S. , Yigit N. C. , Tunca Ü. , Hızal G., ARSU N.
JOURNAL OF POLYMER SCIENCE, 2021 (Journal Indexed in SCI)
- IV. **Synthesis of one-component type II dithioxanthone-disulfide photoinitiator and investigation of photophysical and photochemical properties**
Koyuncu U., Metin E., Ocal N., ARSU N.
EUROPEAN POLYMER JOURNAL, vol.153, 2021 (Journal Indexed in SCI)
- V. **Development of a fluorometric measurement system used in biological samples upon the determination of iron (II) metal ion**
Toksoz Y. S. , ÖZYİĞİT İ. E. , BİLEN Ç., ARSU N., KARAKUŞ E.
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.51, no.4, pp.361-374, 2021 (Journal Indexed in SCI)
- VI. **Thermal and morphological investigation of the effect of POSS-(PEG(2000))(8) addition to UV curable PEGMEA/PEGDA formulation and simultaneously in situ formed silver nanoparticles**
ÖZÇELİK KAZANCIOĞLU E., Batıbay G. S. , Uner A., ARSU N.
JOURNAL OF POLYMER SCIENCE, vol.59, no.8, pp.729-737, 2021 (Journal Indexed in SCI)
- VII. **A novel fluorometric measurement system based on triple complex for mercury (II) determination**
Toksöz Y. S. , ÖZYİĞİT İ. E. , BİLEN Ç., ARSU N., KARAKUŞ E.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.248, 2021 (Journal Indexed in SCI)
- VIII. **Reversible tuning of UV-cured nano hybrid coating from hydrophobic to superhydrophilic**
Batıbay G. S. , ÖZÇELİK KAZANCIOĞLU E., Kose E., ARSU N.
PROGRESS IN ORGANIC COATINGS, vol.152, 2021 (Journal Indexed in SCI)
- IX. **Photochemical synthesis of nanocomposite thin films containing silver and gold nanoparticles with 2-thioxanthone thioacetic acid-dioxide and their role in photocatalytic degradation of methylene blue**
Kazancıoğlu E. O. , AYDIN M., ARSU N.

SURFACES AND INTERFACES, vol.22, 2021 (Journal Indexed in SCI)

- X. **In-situ photochemical synthesis and dielectric properties of nanocomposite thin films containing Au, Ag and MnO nanoparticles**
Mutlu S., Metin E., Yuksel S. A. , Bayrak U., NUHOĞLU Ç., ARSU N.
EUROPEAN POLYMER JOURNAL, vol.144, 2021 (Journal Indexed in SCI)
- XI. **Photochemically prepared monodisperse gold nanoparticles as doxorubicin carrier and its cytotoxicity on leukemia cancer cells**
Dizman H. M. , Eroglu G. O. , Kuruca S. E. , ARSU N.
APPLIED NANOSCIENCE, vol.11, no.1, pp.309-320, 2021 (Journal Indexed in SCI)
- XII. **Thioxanthone attached polyhedral oligomeric silsesquioxane (POSS) nano-photoinitiator for preparation of PMMA hybrid networks in air atmosphere**
Batibay G. S. , GÜNKARA Ö. T. , Ocal N., ARSU N.
PROGRESS IN ORGANIC COATINGS, vol.149, 2020 (Journal Indexed in SCI)
- XIII. **The interaction of light-activatable 2-thioxanthone thioacetic acid with ct-DNA and its cytotoxic activity: Novel theranostic agent**
ATACI N., Kazancioglu E., Kalndemirtas F. D. , Kuruca S. E. , ARSU N.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.239, 2020 (Journal Indexed in SCI)
- XIV. **Photophysical, kinetic and thermodynamic study of one-component Type II thioxanthone acetic acid photoinitiators**
Metin E., ARSU N., Catak S., Aviyente V.
EUROPEAN POLYMER JOURNAL, vol.136, 2020 (Journal Indexed in SCI)
- XV. **A facile and versatile route for preparation AgNp nanocomposite thin films via thiol-acrylate photopolymerization: Determination of antibacterial activity**
Adibelli M., Ozcelik E., Batibay G. S. , Arasoglu T., ARSU N.
PROGRESS IN ORGANIC COATINGS, vol.143, 2020 (Journal Indexed in SCI)
- XVI. **One step facile in-situ photochemical synthesis of hollow, doughnut-like ZnO nanoparticles and their alcohol vapor sensing properties**
Kirtay H., Omur B., ALTINDAL A., ARSU N.
Materials Research Bulletin, vol.122, 2020 (Journal Indexed in SCI)
- XVII. **Preface**
Holman R. J. , ARSU N.
PROGRESS IN ORGANIC COATINGS, vol.135, pp.438-439, 2019 (Journal Indexed in SCI)
- XVIII. **The formation of a metallosupramolecular porous helicate through salicylaldehydethiosemicarbazone: Synthesis, Characterization, Cytotoxic activity, DNA binding and DFT calculations**
Altıparmak E. A. , Eroglu G. O. , Özçelik E., Ozdemir N., Kuruca S. E. , Arsu N., Ulkuseven B., Bal-Demirci T.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.33, no.9, 2019 (Journal Indexed in SCI)
- XIX. **In-situ photochemical synthesis of Au nanoparticles in polymer matrix with one-component thioxanthone disulfide for detection of benzene, toluene and xylene vapours**
ÇINKO T., KOYUNCU U., OMUR B., ALTINDAL A., ARSU N.
PROGRESS IN ORGANIC COATINGS, vol.132, pp.125-131, 2019 (Journal Indexed in SCI)
- XX. **Spectrophotometric study on binding of 2-thioxanthone acetic acid with ct-DNA**
Ataci N., ÖZÇELİK E., ARSU N.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.204, pp.281-286, 2018 (Journal Indexed in SCI)
- XXI. **Thioxanthone-anthracene-9-carboxylic acid as radical photoinitiator in the presence of atmospheric air**
MUTLU S., Watanabe K., Takahara S., ARSU N.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.56, no.16, pp.1878-1883, 2018 (Journal Indexed in SCI)
- XXII. **Dielectric properties of AuNPs/PEGMEA/PEGDA nanocomposite film prepared with an alpha-amino**

ketone by in-situ photochemical method

Yakut S., Ulutas K., Bozoglu D., ADIBELLI M., CEPER T., ARSU N., Deger D.

PHYSICA B-CONDENSED MATTER, vol.542, pp.6-11, 2018 (Journal Indexed in SCI)

- XXIII. **In-situ photoinduced formation of self-assembled Ag NPs using POSS-TX as nano-photoinitiator in PEGMEA/PEGDA polymer matrix and creating self-wrinkled pattern**
BATIBAY G. S. , GÜNKARA Ö. T. , OCAL N., ARSU N.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.359, pp.73-79, 2018 (Journal Indexed in SCI)
- XXIV. **In-situ formation of self-assembled Ag nanoclusters on ct-DNA in the presence of 2-mercaptothioxanthone by using UV-vis light irradiation**
Metin E., Batbay G. S. , Arsu N.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.356, pp.1-6, 2018 (Journal Indexed in SCI)
- XXV. **Thioxanthone Photoinitiators with Heterocyclic Extended Chromophores**
Karaca N., Ocal N., ARSU N., Jockusch S.
PHOTOPOLYMERISATION INITIATING SYSTEMS, vol.29, pp.1-13, 2018 (Journal Indexed in SCI)
- XXVI. **Photochemically Prepared Gold/Polymer Nanocoatings: Formation of Gold Mirror**
CEPER T., ARSU N.
MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.218, no.18, 2017 (Journal Indexed in SCI)
- XXVII. **THE STUDY OF ADSORPTION OF ANTHRACENE ONTO PMMA-FUNCTIONALIZED MWCNTS AND PRISTINE MWCNTS BY FLUORESCENCE SPECTROSCOPY TECHNIQUE**
Ay U., Isik M., ARSU N.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.6, pp.3886-3890, 2017 (Journal Indexed in SCI)
- XXVIII. **Studies of the binding mode of TXNHCH₂COOH with calf thymus DNA by spectroscopic methods**
Ataci N., ARSU N.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.169, pp.128-133, 2016 (Journal Indexed in SCI)
- XXIX. **Thioxanthone-benzothiophenes as photoinitiator for free radical polymerization**
Karaca N., Öcal N., ARSU N., Jockusch S.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.331, pp.22-28, 2016 (Journal Indexed in SCI)
- XXX. **Photodimerization of thioxanthone-anthracene: formation of monochromophoric Type II initiator**
Balta D., ARSU N.
DESIGNED MONOMERS AND POLYMERS, vol.19, no.3, pp.222-226, 2016 (Journal Indexed in SCI)
- XXXI. **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, no.7, pp.1012-1019, 2016 (Journal Indexed in SCI)
- XXXII. **Percolation of glassy regions during photopolymerization of epoxy acrylate in DMF**
Dogruyol Z., ARSU N., DOĞRUYOL S., Pekcan O.
PROGRESS IN ORGANIC COATINGS, vol.80, pp.59-64, 2015 (Journal Indexed in SCI)
- XXXIII. **"Mono" and "bifunctional" aromatic esterificated benzophenone photoinitiators for free radical polymerization**
AYDIN M., Temel G., Balta D., ARSU N.
POLYMER BULLETIN, vol.72, no.2, pp.309-322, 2015 (Journal Indexed in SCI)
- XXXIV. **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)
- XXXV. **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, no.2, pp.463-469, 2014 (Journal Indexed in SCI)
- XXXVI. **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)
- XXXVII. **Synthesis and evaluations of novel photoinitiators with side-chain benzophenone, derived from alkyl alpha-hydroxymethacrylates**
Karahana O., Balta D., ARSU N., Avci D.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.274, pp.43-49, 2014 (Journal Indexed in SCI)
- XXXVIII. **The effect of heavy metals on the anthracene-Me-beta-cyclodextrin host-guest inclusion complexes**
Ay U., Dogruyol Z., ARSU N.
SUPRAMOLECULAR CHEMISTRY, vol.26, no.1, pp.66-70, 2014 (Journal Indexed in SCI)
- XXXIX. **Modification of multiwall carbon nanotube by thiol-ene click chemistry**
Temel G., Uygun M., ARSU N.
POLYMER BULLETIN, vol.70, no.12, pp.3563-3574, 2013 (Journal Indexed in SCI)
- XL. **Thioxanthone Hydroquinone-O,O'-diacetic Acid: Photoinitiator or Photostabilizer?**
Karasu F., ARSU N., Jockusch S., Turro N. J.
JOURNAL OF ORGANIC CHEMISTRY, vol.78, no.18, pp.9161-9165, 2013 (Journal Indexed in SCI)
- XLI. **Thioxanthone based 9[2-(methyl-phenyl-amino)-acetyl]-thia-naphthacene-12-one as a visible photoinitiator**
Dogruyol S. K., Dogruyol Z., ARSU N.
JOURNAL OF LUMINESCENCE, vol.138, pp.98-104, 2013 (Journal Indexed in SCI)
- XLII. **Investigation of PSt-MWCNT concentration on epoxyacrylate photopolymerization and conductivity of polymer films**
Dogruyol Z., Temel G., DOĞRUYOL S., Pekcan O., ARSU N.
PROGRESS IN ORGANIC COATINGS, vol.76, no.6, pp.944-949, 2013 (Journal Indexed in SCI)
- XLIII. **Preparation of nanocoatings in the presence of precipitated CaCO₃ fillers by UV-curing**
Izgin O., AYDIN M., ARSU N.
PROGRESS IN ORGANIC COATINGS, vol.76, no.6, pp.950-954, 2013 (Journal Indexed in SCI)
- XLIV. **Panchromatic Type II Photoinitiator for Free Radical Polymerization Based on Thioxanthone Derivative**
Tar H., Esen D. S., AYDIN M., Ley C., ARSU N., Allonas X.
MACROMOLECULES, vol.46, no.9, pp.3266-3272, 2013 (Journal Indexed in SCI)
- XLV. **Benzoin type photoinitiator for free radical polymerization**
Esen D. S., ARSU N., Da Silva J. P., Jockusch S., Turro N. J.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.51, no.8, pp.1865-1871, 2013 (Journal Indexed in SCI)
- XLVI. **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)
- XLVII. **Thioxanthone-ethyl anthracene**
Balta D., ARSU N.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.257, pp.54-59, 2013 (Journal Indexed in SCI)
- XLVIII. **Producing critical exponents from gelation for various photoinitiator concentrations; a photo differential scanning calorimetric study**
Dogruyol Z., ARSU N., Dogruyol S., Pekcan O.
PROGRESS IN ORGANIC COATINGS, vol.74, no.1, pp.181-185, 2012 (Journal Indexed in SCI)
- XLIX. **Thioxanthone-Diphenyl Anthracene: Visible Light Photoinitiator**
Balta D., TEMEL G., GOKSU G., OCAŁ N., ARSU N.

MACROMOLECULES, vol.45, no.1, pp.119-125, 2012 (Journal Indexed in SCI)

- L. **One-component benzoxazine type photoinitiator for free radical polymerization**
Temel G., Esen D. S. , ARSU N.
POLYMER ENGINEERING AND SCIENCE, vol.52, no.1, pp.133-138, 2012 (Journal Indexed in SCI)
- LI. **Critical phenomenon during photoinitiated gelation at different temperatures: A Photo-DSC study**
Dogruyol Z., ARSU N., Dogruyol S., Pekcan O.
PROGRESS IN ORGANIC COATINGS, vol.72, no.4, pp.763-768, 2011 (Journal Indexed in SCI)
- LII. **A Thioxanthone-Based Visible Photoinitiator**
Dogruyol S., Dogruyol Z., ARSU N.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.49, no.18, pp.4037-4043, 2011 (Journal Indexed in SCI)
- LIII. **The effect of an aminoalcohol on the polymerization of acrylates with type II initiators**
Karasu F., ARSU N.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.104, no.3, pp.1023-1028, 2011 (Journal Indexed in SCI)
- LIV. **Mechanism of Photoinitiated Free Radical Polymerization by Thioxanthone-Anthracene in the Presence of Air**
Balta D., ARSU N., Yağcı Y., Sundaresan A. K. , Jockusch S., Turro N. J.
MACROMOLECULES, vol.44, no.8, pp.2531-2535, 2011 (Journal Indexed in SCI)
- LV. **Photopolymerization and photophysical properties of amine linked benzophenone photoinitiator for free radical polymerization**
Temel G., Enginol B., AYDIN M., Balta D., ARSU N.
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Activities in Scientific Journals

Sigma Journal of Engineering and Natural Sciences, Editor, 2020 - Continues

Memberships / Tasks in Scientific Organizations

Turkish Chemical Society, Member, 2010 - Continues, Turkey

Kimya Mühendisleri Odası, Member, 1985 - Continues, Turkey

Tasks In Event Organizations

Arsu N., Yağcı Y., 7th European Symposium on Photopolymer Science (ESPS 2022), Scientific Congress, İstanbul, Turkey, Eylül 2022

Scientific Research / Working Group Memberships

Narsu & Takahara Ortak Çalışma Grubu, Chiba University, Japonya, <https://www.narsuresearch.com/>, 2014 - Continues

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The Global Study Program in the Asia Student Workshop on Image Science 2021, Conference, Chiba University, Japan, March 2021

Synthesis and investigation of photophysical and electrochemical properties of end capped oligothiophenes by Thioxanthone derivatives', Conference, Third European Symposium for Photopolymer Science, Austria, September 2014

Benzoin Derivatives as Photoinitiators: Photophysical and Photochemical Properties', Conference, First European Symposium of Photopolymer Science, France, November 2010

IX. Ulusal Spektroskopikongresi, Conference, İhsan Doğramacı Bilkent Üniversitesi, Turkey, June 2005

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Awards

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