

Assoc. Prof. EMRULLAH GÖRKEM GÜNBAŞ

Personal Information

Email: ggunbas@metu.edu.tr

Education Information

Doctorate, University Of California, Davis, United States Of America 2008 - 2013

Post Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 2006 - 2007

Under Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 2003 - 2006

Dissertations

Doctorate, Using the Heterotriquinane Molecular Framework to Test the Limits of Bonding and Reactivity, University Of California, Davis, 2014

Post Graduate, Novel donor-acceptor type polymers towards excellent neutral state green polymeric materials for realization of RGB based electrochromic device applications, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2007

Research Areas

Chemistry, Physical Chemistry, Polymeric Materials, Organic Chemistry, Chemistry of Dyes and Pigments, Chemistry of Heterocyclic Compounds, Natural Sciences

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2015 - 2018

Lecturer, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2014 - 2015

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2006 - 2014

Professional Experience

BAP Scientific Commissioner, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, 2019 - Continues

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, 2017 - Continues

Courses

Reaction Mechanisms in Organic Chemistry, Under Graduate, 2018 - 2019

Organic Chemistry Lab. II, Under Graduate, 2018 - 2019

Advising Theses

Günbaşı E. G. , Synthesis, structural characterization and chemistry of tribenzoheterotriquinane based molecular structures, Post Graduate, D.KEPİL(Student), 2020

Yerci S., Günbaşı E. G. , Manganese doped solution processed nickel oxide hole transport layer for perovskite solar cells, Post Graduate, M.DERYA(Student), 2019

GÜNBAŞ E. G. , ÖZÇUBUKÇU S., Synthesis of dioxin & tetra aryl pyrazine derivatives and their applications, Post Graduate, B.OKYAR(Student), 2019

Günbaşı E. G. , Turan R., Optimization of laser processing for PERC type c-Ci solar cells, Post Graduate, E.GENÇ(Student), 2019

GÜNBAŞ E. G. , Synthesis and in vitro studies of selenophene containingbodipy derivatives as mitochondria targetedphotodynamic therapy agents, Post Graduate, O.KARAMAN(Student), 2019

GÜNBAŞ E. G. , Advanced conjugated systems towards realization ofstable n-type materials and high-performanceelectrochromic polymers, Post Graduate, K.GHASEMIAHANGARANFARAHANI(Student), 2018

GÜNBAŞ E. G. , Syntheses of functional materials for organic photovoltaic and electrochromic device applications, Post Graduate, F.VARLIOĞLU(Student), 2017

GÜNBAŞ E. G. , Synthesis of novel diketopyrrole and selenophene containing nir absorbing polymers and their application in bulk-heterojunction solar cells, Post Graduate, G.ÖKLEM(Student), 2017

GÜNBAŞ E. G. , From supramolecular chemistry to fundamental organic chemistry: Bis-rosette nanotubes and novel molecular frameworks, Post Graduate, C.İĞCİ(Student), 2017

GÜNBAŞ E. G. , Synthesis and characterization of novel quinoxaline-based and thieno[3,4-c]pyrrole-4,6-dione-based conjugated polymers and their applications in organic electronics, Post Graduate, A.KARABAĞ(Student), 2017

GÜNBAŞ E. G. , Novel phenanthrocarbazole containing conjugated polymers as high performance electrochromic materials, Post Graduate, G.ATAKAN(Student), 2016

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

- **Hybrid Vapor-Solution Sequentially Deposited Mixed-Halide Perovskite Solar Cells**
Soltanpoor W., Dreessen C., Şahiner M. C. , Susic I., Afshord A. Z. , Chirvony V. S. , Boix P. P. , Günbaşı E. G. , Yerci S., Bolink H. J.
ACS APPLIED ENERGY MATERIALS, vol.3, pp.8257-8265, 2020 (Journal Indexed in SCI Expanded)
- **Mitochondria-Targeting Selenophene-Modified BODIPY-Based Photosensitizers for the Treatment of Hypoxic Cancer Cells**
Karaman O., Almammadov T., Gedik M. E. , GÜNAYDIN G., Kolemen S., Gunbas G.
CHEMMEDCHEM, vol.14, pp.1879-1886, 2019 (Journal Indexed in SCI)
- **Synthesis of N-Bridged Pyrido[4,3-d]pyrimidines and Self-Assembly into Twin Rosette Cages and Nanotubes in Organic Media**
İgci C., Karaman O., Fan Y., Gonzales A. A. , Fenniri H., GÜNBAŞ E. G.
SCIENTIFIC REPORTS, vol.8, 2018 (Journal Indexed in SCI)
- **A new NIR absorbing DPP-based polymer for thick organic solar cells**
Oklem G., Song X., Toppare L., Baran D., GÜNBAŞ E. G.
JOURNAL OF MATERIALS CHEMISTRY C, vol.6, pp.2957-2961, 2018 (Journal Indexed in SCI)
- **A Novel Blue to Transparent Polymer for Electrochromic Supercapacitor Electrodes**
YUKSEL R., EKBER A., TURAN J., ALPUGAN E., HACIOĞLU S. O. , TOPPARE L. K. , ÇIRPAN A., GUNBAS G., ÜNALAN H. E.
ELECTROANALYSIS, vol.30, pp.266-273, 2018 (Journal Indexed in SCI)

● **A New High-Performance Blue to Transmissive Electrochromic Material and Use of Silver Nanowire Network Electrodes as Substrates**

YÜKSEL R., ATA OĞLU E., TURAN J., ALPUGAN E., HACIOĞLU S. O., TOPPARE L., ÇIRPAN A., ÜNALAN H. E., GUNBAS G.

JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.55, pp.1680-1686, 2017 (Journal Indexed in SCI)

● **ABE Condensation over Monometallic Catalysts: Catalyst Characterization and Kinetics**

GOULAS K. A., Gunbas G., DIETRICH P. J., SREEKUMAR S., GRIPPO A., CHEN J. P., GOKHALE A. A., TOSTE F. D. CHEMCATCHEM, vol.9, pp.677-684, 2017 (Journal Indexed in SCI)

● **Silver Nanowire/Conducting Polymer Nanocomposite Electrochromic Supercapacitor Electrodes**

YÜKSEL R., COŞKUN S., GUNBAS G., ÇIRPAN A., TOPPARE L., ÜNALAN H. E.

JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.164, 2017 (Journal Indexed in SCI)

● **Synergistic Effects in Bimetallic Palladium-Copper Catalysts Improve Selectivity in Oxygenate Coupling Reactions**

Goulas K. A., SREEKUMAR S., Song Y., Kharidehal P., Gunbas G., Dietrich P. J., Johnson G. R., Wang Y. C., Grippo A. M., Grabow L. C., et al.

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.138, pp.6805-6812, 2016 (Journal Indexed in SCI)

● **A Novel Acetylcholinesterase Biosensor: Core-Shell Magnetic Nanoparticles Incorporating a Conjugated Polymer for the Detection of Organophosphorus Pesticides**

Cancar H. D., SÖYLEMEZ S., AKPINAR Y., KESİK M., Goker S., Gunbas G., VOLKAN M., Toppare L.

ACS APPLIED MATERIALS & INTERFACES, vol.8, pp.8058-8067, 2016 (Journal Indexed in SCI)

● **A novel red to transmissive electrochromic polymer based on phenanthrocarbazole**

ATAKAN G., Gunbas G.

RSC ADVANCES, vol.6, pp.25620-25623, 2016 (Journal Indexed in SCI)

● **Novel pathways for fuels and lubricants from biomass optimized using life-cycle greenhouse gas assessment**

Balakrishnan M., Sacia E. R., Sreekumar S., Gunbas G., Gokhale A. A., Scown C. D., Toste F. D., Bell A. T.

PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol.112, pp.7645-7649, 2015 (Journal Indexed in SCI)

● **Production of an acetone-butanol-ethanol mixture from Clostridium acetobutylicum and its conversion to high-value biofuels**

Sreekumar S., Baer Z. C., Pazhamalai A., Gunbas G., Grippo A., Blanch H. W., Clark D. S., Toste F. D.

NATURE PROTOCOLS, vol.10, 2015 (Journal Indexed in SCI)

● **Upgrading Lignocellulosic Products to Drop-In Biofuels via Dehydrogenative Cross-Coupling and Hydrodeoxygenation Sequence**

SREEKUMAR S., BALAKRISHNAN M., GOULAS K., GÜNBAŞ E. G., GOKHALE A., LOUÏE L., GRIPPO A., SCOWN C., BELL A., TOSTE F. D.

CHEMSUSCHEM, vol.8, pp.2609-2614, 2015 (Journal Indexed in SCI)

● **Chemocatalytic Upgrading of Tailored Fermentation Products Toward Biodiesel**

SREEKUMAR S., Baer Z. C., GROSS E., Padmanaban S., GOULAS K., Gunbas G., ALAYOĞLU S., Blanch H. W., Clark D. S., Toste F. D.

CHEMSUSCHEM, vol.7, pp.2445-2448, 2014 (Journal Indexed in SCI)

● **Synthesis of N-substituted Pyrido[4,3-d]pyrimidines for the Large-Scale Production of Self-Assembled Rosettes and Nanotubes**

DURMUS A., Gunbas G., Farmer S. C., Ohnstead M. M., MASCAL M., Legese B., Cho J., Beingessner R. L., Yamazaki T., Fenniri H.

JOURNAL OF ORGANIC CHEMISTRY, vol.78, pp.11421-11426, 2013 (Journal Indexed in SCI)

● **Extraordinary Modes of Bonding Enabled by the Triquinane Framework**

Gunbas G., MASCAL M.

JOURNAL OF ORGANIC CHEMISTRY, vol.78, pp.9579-9583, 2013 (Journal Indexed in SCI)

● **Extreme Oxatriquinanes: Structural Characterization of alpha-Oxyoxonium Species with**

Extraordinarily Long Carbon-Oxygen Bonds

Gunbas G., Sheppard W. L., Fettinger J. C., Olmstead M. M., MASCAL M.

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.135, pp.8173-8176, 2013 (Journal Indexed in SCI)

Extreme oxatriquinanes and a record C-O bond length

Gunbas G., HAFEZİ N., Sheppard W. L., Olmstead M. M., Stoyanova I. V., Tham F. S., Meyer M. P., MASCAL M.

NATURE CHEMISTRY, vol.4, pp.1018-1023, 2012 (Journal Indexed in SCI)

The R3O+center dot center dot center dot H+ Hydrogen Bond: Toward a Tetracoordinate Oxadionium(2+) Ion

Stoyanov E. S., Gunbas G., HAFEZİ N., MASCAL M., Stoyanova I. V., Tham F. S., Reed C. A.

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.134, pp.707-714, 2012 (Journal Indexed in SCI)

Electrochromic conjugated polyheterocycles and derivatives-highlights from the last decade towards realization of long lived aspirations

Gunbas G., Toppare L.

CHEMICAL COMMUNICATIONS, vol.48, pp.1083-1101, 2012 (Journal Indexed in SCI)

A green neutral state donor-acceptor copolymer for organic solar cells

GÜNEŞ S., Baran D., Gunbas G., Durmus A., Fuchsbaauer A., Sariciftci N. S., Toppare L.

POLYMER CHEMISTRY, vol.1, pp.1245-1251, 2010 (Journal Indexed in SCI)

A low-band gap conductive copolymer of bis-3-hexylthiophene substituted 4-tert-butylphenyl quinoxaline and 3,4-ethylenedioxythiophene

Ozyurt F., Durmus A., GÜNBAŞ E. G., TOPPARE L. K.

JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.14, pp.279-283, 2010 (Journal Indexed in SCI)

Highly Conjugated Thiophene Derivatives as New Visible Light Sensitive Photoinitiators for Cationic Polymerization

Aydogan B., Gunbas G. E., Durmus A., Toppare L., Yağcı Y.

MACROMOLECULES, vol.43, pp.101-106, 2010 (Journal Indexed in SCI)

A Quinoxaline Derivative as a Long Wavelength Photosensitizer for Diaryliodonium Salts

Bulut U., Gunbas G. E., Toppare L.

JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.48, pp.209-213, 2010 (Journal Indexed in SCI)

Electrochromic Properties of a Copolymer of 1-4-Di[2,5-di(2-thienyl)-1H-1-pyrrolyl]benzene with EDOT

KİRALP S., ÇAMURLU P., GUNBAS G., TANYELİ C., AKHMEDOV I., Toppare L.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.112, pp.1082-1087, 2009 (Journal Indexed in SCI)

A new p- and n-dopable selenophene derivative and its electrochromic properties

Cetin G. A., Balan A., Durmus A., Gunbas G., TOPPARE L. K.

ORGANIC ELECTRONICS, vol.10, pp.34-41, 2009 (Journal Indexed in SCI)

One polymer for all: benzotriazole containing donor-acceptor type polymer as a multi-purpose material

Balan A., Baran D., Gunbas G., Durmus A., Ozyurt F., TOPPARE L. K.

CHEMICAL COMMUNICATIONS, pp.6768-6770, 2009 (Journal Indexed in SCI)

Donor-Acceptor Polymer with Benzotriazole Moiety: Enhancing the Electrochromic Properties of the "Donor Unit"

Balan A., Gunbas G., Durmus A., Toppare L.

CHEMISTRY OF MATERIALS, vol.20, pp.7510-7513, 2008 (Journal Indexed in SCI)

Photovoltaic and photophysical properties of a novel bis-3-hexylthiophene substituted quinoxaline derivative

GÜNEŞ S., Baran D., Gunbas G., Ozyurt F., Fuchsbaauer A., Sariciftci N. S., Toppare L.

SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.92, pp.1162-1169, 2008 (Journal Indexed in SCI)

Both p- and n-type dopable polymer toward electrochromic applications

Udum Y. A., Durmus A., Gunbas G. E., Toppare L.

ORGANIC ELECTRONICS, vol.9, pp.501-506, 2008 (Journal Indexed in SCI)

A unique processable green polymer with a transmissive oxidized state for realization of potential

RGB-based electrochromic device applications

Gunbas G. E. , Durmus A., Toppare L.

ADVANCED FUNCTIONAL MATERIALS, vol.18, pp.2026-2030, 2008 (Journal Indexed in SCI)

● **Processable and multichromic polymer of bis-3-hexylthiophene substituted 4-tert-butylphenyl quinoxaline**

Ozyurt F., GÜNBAŞ E. G. , Durmus A., Toppare L.

ORGANIC ELECTRONICS, vol.9, pp.296-302, 2008 (Journal Indexed in SCI)

● **A new donor-acceptor type polymeric material from a thiophene derivative and its electrochromic properties**

Udum Y. A. , Yildiz E., Gunbas G., Toppare L.

JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.46, pp.3723-3731, 2008 (Journal Indexed in SCI)

● **Synthesis, characterization and electrochromic properties of a near infrared active conducting polymer of 1,4-di(selenophen-2-yl)-benzene**

Aydemir K., Tarkuc S., Durmus A., Gunbas G. E. , Toppare L.

POLYMER, vol.49, pp.2029-2032, 2008 (Journal Indexed in SCI)

● **A fast switching, low band gap, p- and n-dopable, donor-acceptor type polymer**

Gunbas G. E. , ÇAMURLU P., Akhmedov I. M. , TANYELİ C., ÖNAL A. M. , Toppare L.

JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.615, pp.75-83, 2008 (Journal Indexed in SCI)

● **Could green be greener? Novel donor-acceptor-type electrochromic polymers: Towards excellent neutral green materials with exceptional transmissive oxidized states for completion of RGB color space**

Gunbas G. E. , Durmus A., Toppare L.

ADVANCED MATERIALS, vol.20, pp.691-696, 2008 (Journal Indexed in SCI)

● **New, highly stable electrochromic polymers from 3,4-ethylenedioxythiophene-bis-substituted quinoxalines toward green polymeric materials**

Durmus A., Gunbas G. E. , Toppare L.

CHEMISTRY OF MATERIALS, vol.19, pp.6247-6251, 2007 (Journal Indexed in SCI)

● **A neutral state green polymer with a superior transmissive light blue oxidized state**

Durmus A., Gunbas G. E. , Camurlu P., Toppare L.

CHEMICAL COMMUNICATIONS, pp.3246-3248, 2007 (Journal Indexed in SCI)

● **New conjugated materials containing cyano substituents for light-emitting diodes**

Cirpan A., RATHNAYAKE H. P. , GUNBAS G., LAHTI P. M. , KARASZ F. E.

Synthetic Metals, vol.156, pp.282-286, 2006 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

● **New class of red absorbing activatable PDT drugs**

Almammadov T., ATAKAN G., GÜNAYDIN G., Gunbas G., Kolemen S.

257th National Meeting of the American-Chemical-Society (ACS), Florida, United States Of America, 31 March - 04 April 2019, vol.257

● **Synthesis and Characterization of Novel TPD-Based Random Copolymer and Its Application in Organic Solar Cells**

Günbaşı E. G. , Udum Y., Karabağ A., Bağ E.

PVCON 2018 - International Conference on Photovoltaic Science and Technologies, Ankara, Turkey, 4 - 06 July 2018, pp.144

● **BENZODITHIOPHENE AND SELENOPHENE BEARING POLYMER FOR INVERTED ORGANIC SOLAR CELL APPLICATIONS**

Toppare L. K. , Hizalan G., Yaşa M., Göker S., Udum Y., Günbaşı E. G. , Çırpan A.

International Conference on Photovoltaic Science and Technologies, Ankara, Turkey, 4 - 06 July 2018, pp.1-2

- **New DPP and Selenophene based NIR Absorbing Polymers for Organic Solar Cell Applications**
Günbaşı E. G. , Toppare L. K. , Baran D., Song, Song X., Oklem G.
PVCON 2018 - International Conference on Photovoltaic Science and Technologies, Ankara, Turkey, 4 - 06 July 2018, pp.31
- **Silver Nanowire Networks as Transparent Electrodes for Organic Photovoltaics and Light Emitting Diodes**
alpugan e., hıızalan g., GÜNBAŞ E. G. , ÇIRPAN A., TOPPARE L. K. , ÜNALAN H. E.
MRS Fall Meeting 2017, 26 November 2017
- **Synthesis of self-assembled bisrosette supramolecules**
Igcı C., Fan Y., Gonzales A., Temburnıkar K., Fennıri H., Gunbas G.
253rd National Meeting of the American-Chemical-Society (ACS) on Advanced Materials, Technologies, Systems, and Processes, San-Francisco, Costa Rica, 2 - 06 April 2017, vol.253
- **New design principles for realization of high performance electrochromic materials**
GÜNBAŞ E. G.
253rd National Meeting of the American-Chemical-Society (ACS) on Advanced Materials, Technologies, Systems, and Processes, San-Francisco, Costa Rica, 2 - 06 April 2017, vol.253
- **Syntheses, electrochemical and spectroelectrochemical characterizations of quinoxaline-based conjugated polymers for organic photovoltaics**
Yasa M., Goker S., Udum Y. A. , Gunbas G., Toppare L.
253rd National Meeting of the American-Chemical-Society (ACS) on Advanced Materials, Technologies, Systems, and Processes, San-Francisco, Costa Rica, 2 - 06 April 2017, vol.253
- **High performance electrochromic material shows voltage-dependent fluorescence change**
ATAKAN G., Udum Y. A. , Gunbas G.
253rd National Meeting of the American-Chemical-Society (ACS) on Advanced Materials, Technologies, Systems, and Processes, San-Francisco, Costa Rica, 2 - 06 April 2017, vol.253
- **Acetone-butanol-ethanol condensation catalysis: Evolution and kinetics**
Goulas K., Sreekumar S., Gunbas G., Toste D.
247th National Spring Meeting of the American-Chemical-Society (ACS), Texas, United States Of America, 16 - 20 March 2014, vol.247
- **Extreme oxatriquinanes: From protonating oxonium cations to record long C-O bonds**
Gunbas G., Stoyanov E., Hafezi N., Mascal M., Stoyanova I., Tham F., Shepperd W., Reed C.
243rd National Spring Meeting of the American-Chemical-Society, California, United States Of America, 25 - 29 March 2012, vol.243
- **Green as it Gets; Donor-Acceptor type Polymers as the Key to Realization of RGB Based Polymer Display Devices**
Gunbas G., Toppare L.
13th International Symposium on Polymers and Organic Chemistry, Montreal, Canada, 5 - 08 July 2009, vol.297, pp.79-86

Supported Projects

Günbaşı E. G. , H2020 Project, Overcoming the Barriers of Brain Cancer Treatment: Targeted and Fully NIR Absorbing Photodynamic Therapy Agents with Extremely Low Molecular Weights and Controlled Lipophilicity, 2019 - 2024

Yerci S., Günbaşı E. G. , TUBITAK Project, Organik ve İnorganik Tabanlı Boşluk Taşıyıcı Malzemeler Yardımıyla Yüksek Kararlılığa Sahip Perovskit Hücrelerinin Geliştirilmesi, 2018 - 2021

Yerci S., Günbaşı E. G. , Ünalın H. E. , TUBITAK Project, Geniř Alana Ve Yüksek Verime Sahip Perovskit Güneř Hücrelerinin Geliştirilmesi, 2018 - 2021

Günbaşı E. G. , TUBITAK Project, Tribenzoheterotrikuinan Tabanlı Moleküler Yapıların Sentezi ve Kimyalarının İncelenmesi, 2017 - 2019

Günbaşı E. G. , Yerci S., Turan R., FP7 Project, CHEETAH - Cost-reduction through material optimisation and Higher

EnErgy outpuT of solAr pHotovoltaic modules - joining Europe's Research and Development efforts in support of its PV industry, 2013 - 2018

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, KENDİLİĞİNDEN DÜZENLENEBİLEN İKİLİ ROZET SUPRAMOLEKÜLLERİN SENTEZİ VE TANIMLANMASI, 2017 - 2017

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, DİKETOPİROL VE SELENOFEN İÇEREN POLİMERİK MALZEMELERİN GÜNEŞ PİLİ UYGULAMALARI, 2017 - 2017

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, ORGANİK GÜNEŞ PİLLERİ İÇİN ÖZGÜN FULLERENE OLMAYAN ELEKTRON ALICILARININ TASARIMI,SENTEZİ, 2017 - 2017

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, KIZIL ÖTESİ BÖLGEDE SOĞURMA YAPAN ÖZGÜN POLİMERLERİN SENTEZİ VE BU POLİMERLERİN GÜNEŞ PİLİ UYGULAMALARI, 2017 - 2017

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, YÜKSEK PERFORMANLI GÜNEŞ PİLLERİNE YÖNELİK YENİ GELİŞTİRİLEN POLİMERİK DELİK TRANSFER MALZEMELERİ, 2017 - 2017

GÜNBAŞ E. G. , DOĞAN Ö., AKDAĞ A., ÖZÇUBUKÇU S., TANYELİ C., ZORA M., Project Supported by Higher Education Institutions, ORGANİK ELEKTRONİK ALANI İÇİN YENİ BİR YAPITAŞININ TASARIMI VE SENTEZİ, 2017 - 2017

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, PEROVSKİT GÜNEŞ PİLLERİ ÖZGÜN N TİPİ POLİMERLERİN TASARIMI VE SENTEZİ, 2017 - 2017

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, TERMAL ETKİNLEŞTİRİLMİŞ GECİKMELİ İŞİMA BAZLI OLEDLER İÇİN AĞIR ATOM İÇEREN MOLEKÜLER SİSTEMLER: TEORİK VERİMLERİN SINIRLARINA ULAŞMA DOĞRULTUSUNDA, 2017 - 2017

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, PROSOT: KONJÜGE POLİMERLER İÇİN ÖZGÜN YENİ YAPITAŞI, 2017 - 2017

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, KANSER HÜCRELERİNİN ETKİN FLORESANS GÖRÜNTÜLEMELERİ İÇİN KIRMIZI -KAYMALI YENİ NESİL MOLEKÜLER PRABLAR, 2017 - 2017

TOPPARE L. K. , GÖKER S., EREL GÖKTEPE İ., ÇORUH N., ÇIRPAN A., GÜNBAŞ E. G. , ZORA M., Project Supported by Higher Education Institutions, Pestisit tayinine dönük biyosensörlerin hazırlanması, 2016 - 2016

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

GÜNBAŞ E. G. , İĞCİ C., Project Supported by Higher Education Institutions, Supramoleküler kimya kullanarak kafes tipi organik yapıların tasarımı ve sentezi, 2015 - 2015

Patent

Günbaşı E. G. , Methods for producing cyclic and acyclic ketones , Patent, CHAPTER C Chemistry; Metallurgy, Initial Registration, 2019

GÜNBAŞ E. G. , Methods for producing fuels, gasoline additives, and lubricants, Patent, CHAPTER C Chemistry; Metallurgy, Initial Registration, 2017

GÜNBAŞ E. G. , Methods to produce fuels, Patent, CHAPTER C Chemistry; Metallurgy, Initial Registration, 2017

GÜNBAŞ E. G. , Ticari RGB tabanlı elektrokromik cihaz uygulamalarının gerçekleştirilebilmesi için yükseltgenmiş halinde geçirgen, özgün işlenebilir yeşil polimer, Patent, CHAPTER C Chemistry; Metallurgy, Initial Registration, 2008

Activities in Scientific Journals

Scientific Reports, Committee Member, 2019 - Continues

Scientific Refereeing

ACS APPLIED MATERIALS & INTERFACES, SCI Journal, April 2019

NEW JOURNAL OF CHEMISTRY, SCI Journal, March 2019

JOURNAL OF NANOMATERIALS, SCI Journal, April 2018

Citations

Total Citations (WOS):1790

h-index (WOS):22

Awards

Günbař E. G. , GEBİP, Türkiye Bilimler Akademisi, December 2018

Günbař E. G. , ASKAN GÜNDOĐAN A., Mustafa Parlar Vakfı Arařtırma Teřvik Ödülü, Parlar Vakfı, December 2018