

Assoc. Prof. EMRULLAH GÖRKEM GÜNBAŞ

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International Researcher IDs

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Education Information

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

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

Undergraduate, 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

Postgraduate, 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

Academic and Administrative Experience

BAP Scientific Commissioner, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2019 - 2022

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2017 - 2021

Courses

Reaction Mechanisms in Organic Chemistry, Undergraduate, 2018 - 2019

Organic Chemistry Lab. II, Undergraduate, 2018 - 2019

Advising Theses

GÜNBAŞ E. G., Efforts towards synthesis of hydrogen sulfide activated BODIPY based PDT agent, Postgraduate, M.CANYURT(Student), 2022

GÜNBAŞ E. G., Interface passivation of perovskite solar cells with novel cations, Postgraduate, G.BENSU(Student), 2022

GÜNBAŞ E. G., Interface engineering with a thienothiophene-based ammonium salt for realization of semitransparent perovskite solar cells with enhanced efficiency and improved stability, Postgraduate, Ü.GÜNEŞ(Student), 2021

GÜNBAŞ E. G., Design & synthesis of rhodanine flanked benzodithiophene and benzothiadiazole containing small molecule non-fullerene acceptors for organic solar cells, Postgraduate, D.KARDELEN(Student), 2021

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

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

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

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

GÜNBAŞ E. G., Synthesis and in vitro studies of selenophene containing bodipy derivatives as mitochondria targeted photodynamic therapy agents, Postgraduate, O.KARAMAN(Student), 2019

GÜNBAŞ E. G., Advanced conjugated systems towards realization of stable n-type materials and high-performance electrochromic polymers, Postgraduate, K.GHASEMIAHANGARANFARAHANI(Student), 2018

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, Postgraduate, A.KARABAĞ(Student), 2017

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

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

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

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

Published journal articles indexed by SCI, SSCI, and AHCI

I. Kesterite Films Processed with Organic Solvents: Unveiling the Impact of Carbon-Rich Fine-Grain-Layer Formation on Solar-Cell Performance

Javed A., Donmez D., Jones M. D. K., Qu Y., GÜNBAŞ E. G., YERCI S.
Energy Technology, vol.12, no.9, 2024 (SCI-Expanded)

- II. **Tuning 2D Perovskite Passivation: Impact of Electronic and Steric Effects on the Performance of 3D/2D Perovskite Solar Cells**
Gozukara Karabag Z., Karabag A., Gunes U., Gao X., Syzgenteva O. A., Syzgenteva M. A., Varlioglu Yaylali F., Shibayama N., Kanda H., Rafieh A. I., et al.
Advanced Energy Materials, vol.13, no.45, 2023 (SCI-Expanded)
- III. **Efficient and Stable Inverted Wide-Bandgap Perovskite Solar Cells and Modules Enabled by Hybrid Evaporation-Solution Method**
Afshord A. Z., Uzuner B. E., Soltanpoor W., Sedani S. H., Aernouts T., GÜNBAŞ E. G., Kuang Y., YERÇİ S.
Advanced Functional Materials, vol.33, no.31, 2023 (SCI-Expanded)
- IV. **Building Block Engineering toward Realizing High-Performance Electrochromic Materials and Glucose Biosensing Platform**
Karabag A., Soyler D., UDUM Y., TOPPARE L. K., GÜNBAŞ E. G., Soylemez S.
Biosensors, vol.13, no.7, 2023 (SCI-Expanded)
- V. **Drastic influence of substituent position on orientation of 2D layers enables efficient and stable 3D/2D perovskite solar cells**
Gunes U., Yaylali F. V., Gozukara Karabag Z., Gao X., Syzgantseva O. A., Karabag A., Yildirim G. B., Tsoi K., Shibayama N., Kanda H., et al.
Cell Reports Physical Science, vol.4, no.5, 2023 (SCI-Expanded)
- VI. **Selective monitoring and treatment of neuroblastoma cells with hydrogen sulfide activatable phototheranostic agent**
Dirak M., Kepil D., Almammadov T., Elmazoglu Z., Cetin S., Ozogul N., GÜNBAŞ E. G., Kolemen S.
Dyes and Pigments, vol.210, 2023 (SCI-Expanded)
- VII. **Xanthene dyes for cancer imaging and treatment: A material odyssey**
Karaman O., Alkan G., Kizilenis C., Akgul C. C., Gunbas G.
COORDINATION CHEMISTRY REVIEWS, vol.475, 2023 (SCI-Expanded)
- VIII. **Rational Molecular Design Enables Efficient Blue TADF–OLEDs with Flexible Graphene Substrate**
Sharif P., Alemdar E., Ozturk S., Caylan O., Haciefendioglu T., Buke G., Aydemir M., Danos A., Monkman A. P., Yildirim E., et al.
Advanced Functional Materials, vol.32, no.47, 2022 (SCI-Expanded)
- IX. **Superior Photodynamic Therapy of Colon Cancer Cells by Selenophene-BODIPY-Loaded Superparamagnetic Iron Oxide Nanoparticles**
Ozvural Sertcelik K. N., Karaman O., Almammadov T., Günbaş E. G., Kolemen S., Yagci Acar H., Onbasli K.
ChemPhotoChem, vol.6, no.10, 2022 (SCI-Expanded)
- X. **Selenophene-Modified Boron Dipyrromethene-Based Photosensitizers Exhibit Photodynamic Inhibition on a Broad Range of Bacteria**
ÖZKETEN A. Ç., KARAMAN O., Ozdemir A., Soysal I., KIZILENİŞ Ç., Chatzioglou A. N., ÇİÇEK Y. A., Kolemen S., GÜNBAŞ E. G.
ACS OMEGA, vol.7, pp.33916-33925, 2022 (SCI-Expanded)
- XI. **A Nonionic Alcohol Soluble Polymer Cathode Interlayer Enables Efficient Organic and Perovskite Solar Cells**
Sharma A., Singh S., Song X., Rosas Villalva D., Troughton J., Corzo D., Toppare L. K., GÜNBAŞ E. G., Schroeder B. C., Baran D.
CHEMISTRY OF MATERIALS, vol.33, no.22, pp.8602-8611, 2021 (SCI-Expanded)
- XII. **A Thienothiophene-Based Cation Treatment Allows Semitransparent Perovskite Solar Cells with Improved Efficiency and Stability**
Gunes U., Bag Celik E., Akgül C., Koc M., Ameri M., Uzuner B. E., Ghasemi M., Şahiner M. C., Yıldız I., Kaya H. Z., et al.
ADVANCED FUNCTIONAL MATERIALS, vol.31, no.42, 2021 (SCI-Expanded)
- XIII. **Balanced Intersystem Crossing in Iodinated Silicon-Fluoresceins Allows New Class of Red Shifted Theranostic Agents.**
Cetin S., Elmazoglu Z., Karaman O., Gunduz H., Günbaş E. G., Kolemen S.
ACS medicinal chemistry letters, vol.12, pp.752-757, 2021 (SCI-Expanded)

- XIV. **ProTOT: Synthesis of the missing member of the 3,4-chalcogen substituted bridged thiophenes and its utilization in donor-acceptor polymers**
Yaylali F. V., Ozel H., UDUM Y., TOPPARE L. K., Soylemez S., GÜNBAŞ E. G.
Polymer, vol.212, 2021 (SCI-Expanded)
- XV. **Resorufin Enters the Photodynamic Therapy Arena: A Monoamine Oxidase Activatable Agent for Selective Cytotoxicity**
Almammadov T., ATAKAN G., Leylek O., Ozcan G., Gunbas G., Kolemen S.
ACS MEDICINAL CHEMISTRY LETTERS, vol.11, no.12, pp.2491-2496, 2020 (SCI-Expanded)
- XVI. **Hybrid Vapor-Solution Sequentially Deposited Mixed-Halide Perovskite Solar Cells**
Soltanpoor W., Dreessen C., ŞAHİNER M. C., Susic I., Afshord A. Z., Chirvony V. S., Boix P. P., Gunbas G., YERCI S., Bolink H. J.
ACS APPLIED ENERGY MATERIALS, vol.3, no.9, pp.8257-8265, 2020 (SCI-Expanded)
- XVII. **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, no.22, pp.1879-1886, 2019 (SCI-Expanded)
- XVIII. **Synthesis of N-Bridged Pyrido[4,3-d]pyrimidines and Self-Assembly into Twin Rosette Cages and Nanotubes in Organic Media**
Igci C., Karaman O., Fan Y., Gonzales A. A., Fenniri H., GÜNBAŞ E. G.
SCIENTIFIC REPORTS, vol.8, 2018 (SCI-Expanded)
- XIX. **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, no.12, pp.2957-2961, 2018 (SCI-Expanded)
- XX. **A Novel Blue to Transparent Polymer for Electrochromic Supercapacitor Electrodes**
YUKSEL R., EKBER A., TURAN J., ALPUGAN E., HACIOGLU S. O., TOPPARE L. K., ÇIRPAN A., GUNBAS G., ÜNALAN H. E.
ELECTROANALYSIS, vol.30, no.2, pp.266-273, 2018 (SCI-Expanded)
- XXI. **A New High-Performance Blue to Transmissive Electrochromic Material and Use of Silver Nanowire Network Electrodes as Substrates**
YÜKSEL R., ATA OGLU E., TURAN J., ALPUGAN E., HACIOGLU S. O., TOPPARE L., ÇIRPAN A., ÜNALAN H. E., GUNBAS G.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.55, no.10, pp.1680-1686, 2017 (SCI-Expanded)
- XXII. **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, no.4, pp.677-684, 2017 (SCI-Expanded)
- XXIII. **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, no.4, 2017 (SCI-Expanded)
- XXIV. **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, no.21, pp.6805-6812, 2016 (SCI-Expanded)
- XXV. **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, no.12, pp.8058-8067, 2016 (SCI-Expanded)
- XXVI. **A novel red to transmissive electrochromic polymer based on phenanthrocarbazole**
ATAKAN G., Gunbas G.
RSC ADVANCES, vol.6, no.30, pp.25620-25623, 2016 (SCI-Expanded)
- XXVII. **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, no.25,
pp.7645-7649, 2015 (SCI-Expanded)

- XXVIII. **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, no.3, 2015 (SCI-Expanded)
- XXIX. **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., LOUIE L., GRIPPO A., SCOWN C., BELL A., TOSTE D.
CHEMSUSCHEM, vol.8, no.16, pp.2609-2614, 2015 (SCI-Expanded)
- XXX. **Chemocatalytic Upgrading of Tailored Fermentation Products Toward Biodiesel**
SREEKUMAR S., Baer Z. C., GROSS E., Padmanaban S., GOULAS K., Gunbas G., ALAYOGLU S., Blanch H. W., Clark D. S., Toste F. D.
CHEMSUSCHEM, vol.7, no.9, pp.2445-2448, 2014 (SCI-Expanded)
- XXXI. **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, no.22, pp.11421-11426, 2013 (SCI-Expanded)
- XXXII. **Extraordinary Modes of Bonding Enabled by the Triquinane Framework**
Gunbas G., MASCAL M.
JOURNAL OF ORGANIC CHEMISTRY, vol.78, no.19, pp.9579-9583, 2013 (SCI-Expanded)
- XXXIII. **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, no.22, pp.8173-8176, 2013 (SCI-Expanded)
- XXXIV. **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, no.12, pp.1018-1023, 2012 (SCI-Expanded)
- XXXV. **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, no.1, pp.707-714, 2012 (SCI-Expanded)
- XXXVI. **Electrochromic conjugated polyheterocycles and derivatives-highlights from the last decade towards realization of long lived aspirations**
Gunbas G., Toppare L.
CHEMICAL COMMUNICATIONS, vol.48, no.8, pp.1083-1101, 2012 (SCI-Expanded)
- XXXVII. **A green neutral state donor-acceptor copolymer for organic solar cells**
GÜNEŞ S., Baran D., Gunbas G., Durmus A., Fuchsbauer A., Sariciftci N. S., Toppare L.
POLYMER CHEMISTRY, vol.1, no.8, pp.1245-1251, 2010 (SCI-Expanded)
- XXXVIII. **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, no.2, pp.279-283, 2010 (SCI-Expanded)
- XXXIX. **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, no.1, pp.101-106, 2010 (SCI-Expanded)
- XL. **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, no.1, pp.209-213, 2010 (SCI-Expanded)
- XLII. **Electrochromic Properties of a Copolymer of 1-4-Di[2,5-di(2-thienyl)-1H-1-pyrrolyl]benzene with EDOT**
KIRALP S, ÇAMURLU P., GUNBAS G., TANYELİ C., AKHMEDOV I., Toppare L.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.112, no.2, pp.1082-1087, 2009 (SCI-Expanded)
- XLIII. **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, no.1, pp.34-41, 2009 (SCI-Expanded)
- XLIV. **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, no.44, pp.6768-6770, 2009 (SCI-Expanded)
- XLV. **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, no.24, pp.7510-7513, 2008 (SCI-Expanded)
- XLVI. **Photovoltaic and photophysical properties of a novel bis-3-hexylthiophene substituted quinoxaline derivative**
GÜNEŞ S., Baran D., Guenbas G., Ozyurt F., Fuchsbaauer A., Sariciftci N. S., Toppare L.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.92, no.9, pp.1162-1169, 2008 (SCI-Expanded)
- XLVII. **Both p- and n-type dopable polymer toward electrochromic applications**
Udum Y. A., Durmus A., Gunbas G. E., Toppare L.
ORGANIC ELECTRONICS, vol.9, no.4, pp.501-506, 2008 (SCI-Expanded)
- XLVIII. **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, no.14, pp.2026-2030, 2008 (SCI-Expanded)
- XLIX. **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, no.11, pp.3723-3731, 2008 (SCI-Expanded)
- L. **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, no.3, pp.296-302, 2008 (SCI-Expanded)
- LI. **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, no.8, pp.2029-2032, 2008 (SCI-Expanded)
- LII. **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, no.1, pp.75-83, 2008 (SCI-Expanded)
- LIII. **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, no.4, pp.691-696, 2008 (SCI-Expanded)
- LIV. **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, no.25, pp.6247-6251, 2007 (SCI-Expanded)

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

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

CHEMICAL COMMUNICATIONS, no.31, pp.3246-3248, 2007 (SCI-Expanded)

LV. **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 (SCI-Expanded)

Articles Published in Other Journals

I. **Locked and Loaded: β -Galactosidase Activated Photodynamic Therapy Agent Enables Selective Imaging and Targeted Treatment of Glioblastoma Multiforme Cancer Cells**

Almammadov T., Elmazoglu Z., ATAKAN G., Kepil D., Aykent G., Kolemen S., GÜNBAŞ E. G.

ACS APPLIED BIO MATERIALS, vol.5, no.9, pp.4284-4293, 2022 (ESCI)

II. **Activity-Based Photosensitizers with Optimized Triplet State Characteristics Toward Cancer Cell Selective and Image Guided Photodynamic Therapy**

Kilic E., ELMAZOĞLU Z., Almammadov T., KEPİL D., Etienne T., MARION A., GÜNBAŞ E. G., Kolemen S.

ACS Applied Bio Materials, vol.5, no.6, pp.2754-2767, 2022 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. **β -Galactosidase Selective Si-Fluorescein Based Photosensitizer for Treatment of Brain Cancer**

KARAMAN O., KEPİL D., GÜNBAŞ E. G.

4th Anatolian Conference on Organic Chemistry, Antalya, Turkey, 04 March 2024

II. **NIR ABSORBING PHENOSELENAZINE BASED PDT AGENTS TOWARDS EFFECTIVE TREATMENT OF TRIPLE NEGATIVE BREAST CANCER**

Karaman O., Günbaş E. G.

ACS FALL 2023 Harnessing the Power of Data, California, United States Of America, 13 - 17 August 2023

III. **Exceptional surface passivation and carrier transport in pyramidically textured n-type silicon by organic molecules with sulfonic acid head groups and perfluoroalkyl tail groups**

Ghasemi M., Tsoi K., Günbaş E. G., Yerci S.

Materials Research Society Meeting, Massachusetts, United States Of America, 27 November - 02 December 2022

IV. **2D Perovskite Layer based on Novel Organic Cation for Increased Efficiency and Stability**

Günbaş E. G., Yerci S., Gunes U.

2nd International Conference on Photovoltaic Science and Technologies, 30 November - 02 December 2020, pp.98

V. **Efficient Green OLEDs based on Thermally Activated Delayed Fluorescence Butterfly-shape Emitter**

Alemdar E., Sharif P., Günbaş E. G., Oral A., Çirpan A.

2nd International Conference on Photovoltaic Science and Technologies, Ankara, Turkey, 30 November - 02 December 2020, pp.55

VI. **Flexible Organic Light Emitting Diodes (OLEDs) with multi-layer Graphene Anode**

Sharif P., ALEMDAR E., GÜNBAŞ E. G., ÇIRPAN A., ORAL A.

Graphene2020 Virtual International Conference Expo, 19 - 23 October 2020

VII. **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

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

Günbaşı E. G., Udum Y., Karabaşı A., Başı E.

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

- IX. **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
- X. **BENZODITHIOPHENE AND SELENOPHENE BEARING POLYMER FOR INVERTED ORGANIC SOLAR CELL APPLICATIONS**
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- XIV. **Synthesis, Electrochemical and Spectroelectrochemical Characterization of Quinoxaline-Based Conjugated Polymers for Organic Photovoltaics**
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- XV. **Synthesis of self-assembled bisrosette supramolecules**
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- XXVII. **Extreme oxatriquinanes: From protonating oxonium cations to record long C-O bonds**
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Yerci S., Gürsel Dino I., Yaşa M., Günbaş E. G., TUBITAK Project, Güç Üreten Perovskit Tabanlı Mimari Bileşenlerin Geliştirilmesi, 2023 - 2026

Günbaş 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

GÜNBAŞ E. G., BAĞ E., Project Supported by Higher Education Institutions, YÜKSEK PERFORMANSLI GÜNEŞ PİLLERİNE YÖNELİK YENİ GELİŞTİRİLEN POLİMERİK DELİK TRANSFER MALZEMELERİ, 2018 - 2020

GÜNBAŞ E. G., VARLIOĞLU F., Project Supported by Higher Education Institutions, ORGANİK FOTOVOLTAİK CİHAZ UYGULAMALARI İÇİN GÖRÜNÜR VE YAKIN KIZIL ÖTESİ BÖLGELERİNDE SOĞURMA YAPABİLEN TİYENOTİYOFEN TABANLI NANOMERLERİN SENTEZİ VE KARAKTERİZASYONU, 2018 - 2020

Günbaş E. G., TUBITAK Project, Tribenzoheterotrikuinan Tabanlı Moleküler Yapıların Sentezi ve Kimyalarının İncelenmesi, 2017 - 2020

Günbaş 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

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Günbaşı E. G., METHODS FOR PRODUCING CYCLIC AND ACYCLIC KETONES US10,618,856B2, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: US10,618,856B2 , Standard Registration, 2020

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

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Activities in Scientific Journals

SCIENTIFIC REPORTS, Committee Member, 2019 - 2021

Memberships / Tasks in Scientific Organizations

American Chemical Society, Member, 2007 - Continues, United States Of America

Scientific Refereeing

ADVANCED ENERGY MATERIALS, SCI Journal, December 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2023

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TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2021

POLYMER CHEMISTRY, SCI Journal, October 2021

ADVANCED FUNCTIONAL MATERIALS, SCI Journal, September 2021

TÜBİTAK International Bilateral Joint Cooperation Program Project, Ministry of Science and Technology of the People's Republic of China, MOST Bilateral Cooperation Program, Middle East Technical University, Turkey, August 2021

TÜBİTAK International Bilateral Joint Cooperation Program Project, Ministry of Science and Technology of the People's Republic of China, MOST Bilateral Cooperation Program, Middle East Technical University, Turkey, August 2021

TÜBİTAK International Bilateral Joint Cooperation Program Project, Ministry of Science and Technology of the People's Republic of China, MOST Bilateral Cooperation Program, Middle East Technical University, Turkey, August 2021

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CHEMMEDCHEM, SCI Journal, April 2021

CHEMICAL ENGINEERING JOURNAL, SCI Journal, March 2021

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, March 2021

TÜBİTAK International Bilateral Joint Cooperation Program Project, 2535 TÜBİTAK-IRAN MSRT, Middle East Technical University, Turkey, March 2021

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CHEMISTRYSELECT, SCI Journal, August 2020

CHEMMEDCHEM, SCI Journal, August 2020

CHEMICAL ENGINEERING JOURNAL, SCI Journal, July 2020

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TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, January 2020

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H-Index (Scopus): 28

Invited Talks

16th NANOSCIENCE AND NANOTECHNOLOGY CONFERENCE, Conference, Orta Doğu Teknik Üniversitesi, Turkey, September 2022

Towards Overcoming the Barriers of Brain Cancer Treatment: Tailor Made Small Molecules or Carrier Systems?, Seminar, Dokuz Eylül Üniversitesi, Turkey, March 2022

From Cancer Treatment to Solar Energy: Showcasing the Power of Synthetic Organic Chemistry , Seminar, Sabanci University, Turkey, November 2021

Developing Next Generation of Molecular Scaffolds for Treatment of Challenging Cancers: An Overview, Conference, The 5th Photodynamic Day, Turkey, May 2021

From Fundamentals to Materials to Supramolecules: Unifying Power of Synthetic Organic Chemistry, Seminar, Ihsan Dogramaci Bilkent University, Turkey, February 2020

Awards

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

Günbaşı E. G., ASKAN GÜNDOĞAN A., Mustafa Parlar Vakfı Araştırma Teşvik Ödülü, Parlar Vakfı, December 2018