

## Prof. ALİ ÇIRPAN

### Personal Information

**Office Phone:** [+90 312 210 3203](tel:+903122103203)

**Fax Phone:** [+90 312 210 3200](tel:+903122103200)

**Email:** [acirpan@metu.edu.tr](mailto:acirpan@metu.edu.tr)

**Web:** <http://users.metu.edu.tr/acirpan/>

**Address:** ODTÜ Kimya Bölümü 06800 Çankaya ANKARA

### Biography

Ali Cirpan obtained his B.S. in Chemistry (1998) followed by his M.S. (2000) and Ph.D. (2004) at Middle East Technical University (METU). He became interested in the field of electrochromism as a visiting graduate student with the Professor John Reynolds' Research Laboratories at the University of Florida in 2002. After finishing his PhD in 2004 with Professor Levent Toppare at METU, he joined the Professor Frank E Karasz research group as a postdoctoral associate, in the Department of Polymer Science and Engineering, at the University of Massachusetts, developed light emitting devices using new organic or inorganic materials for two and a half years. From January 2007 to December 2008, he has worked on fabrication and characterization of photovoltaic devices in Professor Thomas P. Russell's group, at the University of Massachusetts. He then joined the Articulated Technologies, LLC in Wallingford, Connecticut. He returned to Middle East Technical University as an Assistant Professor in 2009. From 2011 to June 2017 he was an associate professor at METU in the Department of Chemistry. Ali Cirpan is currently Professor in the Department of Chemistry at Middle East Technical University in Ankara, Turkey. Dr. Cirpan's research focuses on optoelectronic materials, morphologies and devices especially Solar Cell, OLEDs, ECDs.

### Education Information

Post Doctorate, University Of Massachusetts Amherst, The College Of Natural Sciences, Polymer Science And Engineering, United States Of America 2008 - 2009

Post Doctorate, University Of Massachusetts Amherst, The College Of Natural Sciences, Polymer Science And Engineering, United States Of America 2004 - 2007

Doctorate, Middle East Technical University, Fen Ed. Fak., Kimya, Turkey 2000 - 2004

Post Graduate, Middle East Technical University, Fen Ed. Fak., Kimya, Turkey 1998 - 2000

Under Graduate, Middle East Technical University, Fen Ed. Fak., Kimya, Turkey 1994 - 1998

### Foreign Languages

English, C1 Advanced

### Research Areas

Chemistry, Physical Chemistry, Electrochemistry, Conductive Polymers, New Technologies in Polymer Chemistry, Polymeric Materials, Natural Sciences

## Academic Titles / Tasks

Professor, Middle East Technical University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2017 - Continues  
Associate Professor, Middle East Technical University, Fen Edebiyat Fakültesi, Kimya, 2011 - 2017  
Assistant Professor, Middle East Technical University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2009 - 2011  
Research Assistant PhD, University Of Massachusetts Amherst, Department Of Polymer Science And Engineering, Department Of Polymer Science And Engineering, 2004 - 2009  
Research Assistant, University Of Florida, College Of Arts And Sciences, Chemistry, 2002 - 2003

## Professional Experience

Vice Dean, Middle East Technical University, Fen Edebiyat Fakültesi, 2017 - Continues  
Deputy Head of Department, Middle East Technical University, Kimya Bölümü, 2011 - 2017

## Advising Theses

Çırpan A., Syntheses and characterization of benzotriazole, thienopyrroledione and benzodithiophene containing conjugated random terpolymers for organic solar cells, Post Graduate, K.GÖKSU(Student), 2019  
Çırpan A., Toppare L. K. , CONJUGATED POLYMERS WITH BENZOTHIADIAZOLE AND BENZOTRIAZOLE FOR ORGANIC SOLAR CELLS, Post Graduate, M.CAN(Student), 2019  
Çırpan A., Ünal H. E. , Properties and application of graphene oxide in inverted bulk heterojunction solar cells, Doctorate, Ş.ÖZCAN(Student), 2019  
Çırpan A., Toppare L. K. , FUSED CONJUGATED STRUCTURES FOR ORGANIC ELECTRONICS, Doctorate, Ş.CAN(Student), 2019  
Çırpan A., Investigation of optoelectronic properties of benzotriazole and thiazole bearing conjugated polymers, Post Graduate, H.ÜNAY(Student), 2019  
Çırpan A., New Quinoxaline Containing Donor-Acceptor Type Conjugated Polymers For Organic Solar Cells, Post Graduate, Ö.Karagaçlı(Student), 2018  
ÇIRPAN A., Synthesis Of Bistriphenylamine And Benzodithiophene Based Random Conjugated Polymers For Organic Photovoltaic Applications, Post Graduate, A.Çetin(Student), 2018  
ÇIRPAN A., Syntheses and Investigation of Optoelectronic Properties of Thiophene Based Conjugated Polymers, Post Graduate, D.Keleş(Student), 2017  
ÇIRPAN A., Syntheses of Benzodithiophene and Thienopyrroledione Containing Conjugated Random Polymers As Components For Organic Solar Cells, Post Graduate, Ö.Azeri(Student), 2017  
ÇIRPAN A., ÜNALAN H. E. , Development Of Supercapacitors With One Dimensional Nanomaterials, Doctorate, R.Yüksel(Student), 2017  
ÇIRPAN A., ÜNALAN H. E. , Synthesis and Characterization Of Phenanthro Imidazole Based Conjugated Copolymer For Optoelectronic Applications, Post Graduate, N.Sohrabnia(Student), 2016  
ÇIRPAN A., ÜNALAN H. E. , Syntheses and Optoelectronic Applications Of Thiadiazolo Quinoxaline Bearing Alternating Conjugated Copolymers, Post Graduate, E.Ataoğlu(Student), 2016  
ÇIRPAN A., Syntheses Of Benzotriazole Based Conjugated Polymers For Organic Light Emitting Diode And Organic Solar Cell, Post Graduate, İ.Önk(Student), 2016  
ÇIRPAN A., Copolymers Comprising Benzodithiophene and Benzotriazole Derivatives for Organic Solar Cells, Post Graduate, D.Güven(Student), 2016  
ÇIRPAN A., Polymer White Light Emitting Diodes Applications of Benzotriazole and Fluorene Derivatives, Post Graduate, G.Koçak(Student), 2015  
ÇIRPAN A., ÜNALAN H. E. , Benzotriazole and Quinoxaline Containing Random Copolymers for Bulk-Heterojunction Polymer Solar Cell Applications, Post Graduate, C.Temiz(Student), 2015  
ÇIRPAN A., Development of P and N Type Conjugated Polymers for Electrochromic and Organic Solar Cell Applications,

Doctorate, N.Akbaşıođlu(Student), 2015

ÇIRPAN A., TOPPARE L. K. , Syntheses, characterization and optical properties of fluorine containing benzimidazole derivatives, Post Graduate, M.İleri(Student), 2015

ÇIRPAN A., Synthesis and Optoelectronic Applications of Benzotriazole and Dibenzosilole Based Alternating Copolymers, Post Graduate, O.Erlik(Student), 2014

ÇIRPAN A., ÜNALAN H. E. , Syntheses and Investigation of Electrochemical Properties of Selenophene and Benzotriazole Bearing Copolymers, Post Graduate, H.Ünay(Student), 2014

ÇIRPAN A., TOPPARE L. K. , Synthesis, Characterizations And Photovoltaic Applications Of Dithienothiophene And Benzotriazole Containing Conjugated Polymers, Post Graduate, Ş.Can(Student), 2013

ÇIRPAN A., TOPPARE L. K. , Syntheses of new monomeric and polymeric units and electrochemical behaviors for the use in electrochromic applications, Post Graduate, N.Buket(Student), 2013

ÇIRPAN A., TOPPARE L. K. , The Combination Of Benzotriazole And N-Functionalized 2,5-Di(2-Thienyl)-1h-Pyrrole Units To Investigate The Electrochromic Properties Of Conjugated Polymers, Post Graduate, E.Rende(Student), 2013

ÇIRPAN A., Synthesis Of New Benzoimidazole Containing Polymers And Their Electrochromic Properties, Post Graduate, A.Göyçek(Student), 2013

ÇIRPAN A., Ferrocenyl And Naphthyl Substituted Quinoxaline Derivative Monomers As Long Wavelength Photosensitizers For Diaryliodonium Salt Initiators In Photopolymerization, Post Graduate, B.Çorakçı(Student), 2013

ÇIRPAN A., Synthesis Of An Electroactive Benzimidazole Derivative And Its Electrochromic Properties, Post Graduate, A.Can(Student), 2012

ÇIRPAN A., Solution Processable Benzotriazole, Benzimidazole And Biphenyl Containing Copolymers For Multipurpose Applications, Post Graduate, T.Kaya(Student), 2012

ÇIRPAN A., TOPPARE L. K. , Solution Processable Benzotriazole And Fluorene Containing Copolymers For Photovoltaic Applications, Post Graduate, E.Kaya(Student), 2011

ÇIRPAN A., TOPPARE L. K. , Electrochemical And Optical Properties Of Solution Processable Benzotriazole And Benzothiadiazole Containing Copolymers, Post Graduate, M.Karakuş(Student), 2011

## Jury Memberships

Appointment Academic Staff, Appointment Academic Staff, Dicle Üniversitesi, February, 2019

Appointment Academic Staff, Appointment Academic Staff, Abdullah Gül Üniversitesi, January, 2019

Appointment Academic Staff, Appointment Academic Staff, Yalova Üniversitesi, October, 2018

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, YÖK, May, 2018

Appointment Academic Staff, Appointment Academic Staff, Selçuk Üniversitesi, May, 2018

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, YÖK, May, 2018

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, YÖK, May, 2018

Appointment Academic Staff, Appointment Academic Staff, Kocaeli Üniversitesi, April, 2018

Appointment Academic Staff, Profesörlük, Gazi Üniversitesi, March, 2018

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, YÖK, February, 2018

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, YÖK, February, 2018

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

- **A biosensor platform based on amine functionalized conjugated benzenediamine-benzodithiophene polymer for testosterone analysis**

BULUT U., ŞANLI S., Cevher S. C. , ÇIRPAN A., Donmez S., TİMUR S.

Journal of Applied Polymer Science, vol.137, 2020 (Journal Indexed in SCI)

- **A comprehensive study: Theoretical and experimental investigation of heteroatom and substituent effects on frontier orbitals and polymer solar cell performances**

Cevher Ş. C. , Hizalan G., Alemdar Yılmaz E., Cevher D., Udum Arslan Y., Toppare L., Yıldırım E., Çirpan A.

- JOURNAL OF POLYMER SCIENCE, 2020 (Journal Indexed in SCI)  
**Analysis of temperature-dependent forward and leakage conduction mechanisms in organic thin film heterojunction diode with fluorine-based PCBM blend**  
 Yildiz D. E. , Gullu H. H. , Toppare L., Cirpan A.  
 Journal of Materials Science: Materials in Electronics, vol.31, pp.15233-15242, 2020 (Journal Indexed in SCI Expanded)
- **Narrow band gap benzodithiophene and quinoxaline bearing conjugated polymers for organic photovoltaic applications**  
 Caliskan M., ERER M. C. , Aslan S. T. , Udum Y. A. , Toppare L., ÇIRPAN A.  
 DYES AND PIGMENTS, vol.180, 2020 (Journal Indexed in SCI)
- **Synthesis, electrochromic characterization and solar cell application of thiophene bearing alternating copolymers with azobenzene and coumarin subunits**  
 Kalay H., Yiğit D., Hizalan G., Güllü M., Depci T., ÇIRPAN A., Toppare L. K. , Hacıoglu S. O.  
 Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, vol.57, pp.589-599, 2020 (Journal Indexed in SCI)
- **Synthesis and characterization of optical, electrochemical and photovoltaic properties of selenophene bearing benzodithiophene based alternating polymers**  
 Atli G. O. , Yilmaz E., Aslan S., Udum Y. A. , Toppare L. K. , ÇIRPAN A.  
 JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.862, 2020 (Journal Indexed in SCI)
- **Graphene oxide-doped PEDOT:PSS as hole transport layer in inverted bulk heterojunction solar cell**  
 Ozcan S., ERER M. C. , Vempati S., Uyar T., Toppare L. K. , ÇIRPAN A.  
 Journal of Materials Science: Materials in Electronics, vol.31, pp.3576-3584, 2020 (Journal Indexed in SCI)
- **Electrical characteristics of organic heterojunction with an alternating benzotriazole and fluorene containing copolymer**  
 Gullu H., Yildiz D., TOPPARE L. K. , ÇIRPAN A.  
 Journal of Materials Science: Materials in Electronics, 2020 (Journal Indexed in SCI Expanded)
- **Syntheses and Characterization of Benzotriazole, Thienopyrroledione, and Benzodithiophene Containing Conjugated Random Terpolymers for Organic Solar Cells**  
 Goksu K., Hizalan G., Udum Y. A. , Hacıoglu S. O. , Cevher S. C. , Akrema A., Toppare L., ÇIRPAN A.  
 JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.166, 2019 (Journal Indexed in SCI)
- **Novel benzodithiophene type low band gap polymer solar cell application and device stability study with atomic layer deposition encapsulation technique**  
 Turkmen T. A. , Ozturk S., ÇIRPAN A., YERLİ Y., Aslan E., Mucur S. P. , Parlak E. A.  
 MATERIALS RESEARCH EXPRESS, vol.6, 2019 (Journal Indexed in SCI)
- **Thiadiazoloquinoxaline and benzodithiophene bearing polymers for electrochromic and organic photovoltaic applications**  
 Hacıoglu S. O. , Ataoglu E., Hizalan G., Depci T., ÇIRPAN A., Toppare L. K.  
 PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.194, pp.937-946, 2019 (Journal Indexed in SCI)
- **Conjugated polymers with benzothiadiazole and benzotriazole moieties for polymer solar cells**  
 Keles D., ERER M. C. , Bolayir E., CEVHER Ş. C. , Hizalan G., Toppare L., ÇIRPAN A.  
 RENEWABLE ENERGY, vol.139, pp.1184-1193, 2019 (Journal Indexed in SCI)
- **A novel multi-electrochromic polymer based on selenophene and benzotriazole via electrochemical and chemical polymerization**  
 Demir F., Keles D., Karabag A., ÇIRPAN A., Toppare L.  
 JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.56, pp.197-205, 2019 (Journal Indexed in SCI)
- **Alkyl-end phenanthroimidazole modification of benzotriazole based conjugated polymers for optoelectronic applications**  
 Cevher Ş. C. , Keles D., Hizalan G., Toppare L., Çirpan A.  
 Synthetic Metals, vol.244, pp.1-9, 2018 (Journal Indexed in SCI)

● **Medium band gap polymer based solution-processed high-kappa composite gate dielectrics for ambipolar OFET**

Canimkurbey B, Unay H, Cakirlar C, Buyukkose S, ÇIRPAN A, Berber S, Parlak E. A.

JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.51, 2018 (Journal Indexed in SCI)

● **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, pp.266-273, 2018 (Journal Indexed in SCI)

● **Associative behaviour and effect of functional groups on the fluorescence of graphene oxide**

Ozcan S, Vempati S, ÇIRPAN A, Uyar T.

Physical Chemistry Chemical Physics, vol.20, pp.7559-7569, 2018 (Journal Indexed in SCI)

● **High stability of benzotriazole and benzodithiophene containing medium band-gap polymer solar cell**

Unay H, Benatto G. A. D. R. , Beliatis M. J. , Gevorgyan S. A. , Kavak P, Memis S, Çırpan A, Toppare L, Parlak E. A. , Krebs F. C.

SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.174, pp.433-444, 2018 (Journal Indexed in SCI)

● **Efficient benzodithiophene and thienopyrroledione containing random polymers as components for organic solar cells**

Azeri O, Aktas E, Istanbuluoglu C, Hacıoglu S. O. , CEVHER Ş. C. , Toppare L, ÇIRPAN A.

POLYMER, vol.133, pp.60-67, 2017 (Journal Indexed in SCI)

● **Enhancing the power conversion efficiency of polymer solar cells via selection of quinoxaline substituents**

KARAGACTI O., CEVHER Ş. C. , HIZALAN G., HACIOGLU S. O. , TOPPARE L., ÇIRPAN A.

NEW JOURNAL OF CHEMISTRY, vol.41, pp.14635-14645, 2017 (Journal Indexed in SCI)

● **Synthesis of bistriphenylamine- and benzodithiophene-based random conjugated polymers for organic photovoltaic applications**

CETIN A., ISTANBULLUOGLU C., HACIOGLU S. O. , CEVHER Ş. C. , Toppare L., ÇIRPAN A.

Journal of Polymer Science, Part A: Polymer Chemistry, vol.55, pp.3705-3715, 2017 (Journal Indexed in SCI)

● **Triphenylamine Based Random Copolymers: The Effect of Molecular Weight on Performance of Solar Cell and Optoelectronic Properties**

Goker S., HACIOGLU S. O. , HIZALAN G., AKTAS E., ÇIRPAN A., TOPPARE L.

MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.218, 2017 (Journal Indexed in SCI)

● **A triazoloquinoxaline and benzodithiophene bearing low band gap copolymer for electrochromic and organic photovoltaic applications**

HACIOGLU S. O. , UNLU N. A. , AKTAS E., HIZALAN G., Yildiz E. D. , ÇIRPAN A., TOPPARE L.

SYNTHETIC METALS, vol.228, pp.111-119, 2017 (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 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, pp.1680-1686, 2017 (Journal Indexed in SCI)

● **Effect of layer thickness on the electrical parameters and conduction mechanisms of conjugated polymer-based heterojunction diode**

Yildiz D. E. , APAYDIN D. H. , TOPPARE L. K. , ÇIRPAN A.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.134, 2017 (Journal Indexed in SCI)

● **Photovoltaic Properties of Poly(Triphenylamine-Thiazolo[5,4-d] Thiazole) Copolymer Dye in Bulk-Heterojunction Organic Solar Cells**

Olgun U, Gulfen M., HIZALAN G., ÇIRPAN A., TOPPARE L.

JOURNAL OF POLYMER MATERIALS, vol.34, pp.391-403, 2017 (Journal Indexed in SCI)

● **Multipurpose selenophene containing conjugated polymers for optoelectronic applications**

ONK I, HIZALAN G., CEVHER Ş. C. , HACIOGLU S. O. , Toppare L., ÇIRPAN A.

Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, vol.54, pp.133-139, 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)

● **Benzodithiophene and Benzotriazole Bearing Conjugated Polymers for Electrochromic and Organic Solar Cell Applications**

UNLU N. A. , HACIOGLU S. O. , HIZALAN G., Yildiz D. E. , TOPPARE L., ÇIRPAN A.

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

● **2,1,3-Benzooxadiazole, thiophene and benzodithiophene based random copolymers for organic photovoltaics: thiophene versus thieno[3,2-b]thiophene as pi-conjugated linkers**

Goker S., HIZALAN G., AKTAS E., KUTKAN S., ÇIRPAN A., TOPPARE L.

NEW JOURNAL OF CHEMISTRY, vol.40, pp.10455-10464, 2016 (Journal Indexed in SCI)

● **Effect of substituent groups on quinoxaline-based random copolymers on the optoelectronic and photovoltaic properties**

CEVHER Ş. C. , HIZALAN G., TEMİZ C., Udum Y. A. , TOPPARE L., ÇIRPAN A.

POLYMER, vol.101, pp.208-216, 2016 (Journal Indexed in SCI)

● **Incorporation of Different Conjugated Linkers into Low Band Gap Polymers Based on 5,6-Bis(octyloxy)-2,1,3 benzooxadiazole for Tuning Optoelectronic Properties**

Goker S., HIZALAN G., KUTKAN S., Udum Y. A. , ÇIRPAN A., TOPPARE L.

JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.54, pp.2459-2467, 2016 (Journal Indexed in SCI)

● **Synthesis and characterization of conducting polymers containing polypeptide and ferrocene side chains as ethanol biosensors**

Kesik M., Akbulut H., Soylemez S., Cevher S. C. , Hizalan G., Udum Y. A. , Endo T., Yamada S., Cirpan A., Yagci Y., et al.

ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.251, 2016 (Journal Indexed in SCI)

● **Poly((2-alkylbenzo[1,2,3]triazole-4,7-diyl)vinylene)s for Organic Solar Cells**

Akpınar H., CEVHER Ş. C. , Wei L., ÇIRPAN A., WONG B. M. , Venkataraman D., Lahti P. M.

JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS, vol.53, pp.1539-1545, 2015 (Journal Indexed in SCI)

● **SELENOPHENE AS A BRIDGE IN MOLECULAR ARCHITECTURE OF BENZOTRIAZOLE CONTAINING CONJUGATED COPOLYMERS TO GAIN INSIGHT ON OPTICAL AND ELECTROCHEMICAL PROPERTIES OF POLYMERS**

UNAY H., UNLU N. A. , HIZALAN G., HACIOGLU S. O. , TOPPARE L., ÇIRPAN A.

PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.190, pp.1294-1306, 2015 (Journal Indexed in SCI)

● **Syntheses and Optical Properties of Perfluorophenyl Containing Benzimidazole Derivatives: The Effect of Donor Units**

ILERI M., HACIOGLU S. O. , ÇIRPAN A., TOPPARE L.

JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.52, pp.510-516, 2015 (Journal Indexed in SCI)

● **Silafluorene-based polymers for electrochromic and polymer solar cell applications**

ERLIK O., UNLU N. A. , HIZALAN G., HACIOGLU S. O. , COMEZ S., Yildiz E. D. , TOPPARE L., ÇIRPAN A.

JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.53, pp.1541-1547, 2015 (Journal Indexed in SCI)

● **A Novel Near-IR Effective Pyrene-Based Donor-Acceptor Electrochrome**

Sefer E., HACIOGLU S. O. , Tonga M., TOPPARE L., ÇIRPAN A., KOYUNCU S.

MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.216, pp.829-836, 2015 (Journal Indexed in SCI)

● **Benzotriazole and Benzodithiophene Containing Medium Band Gap Polymer for Bulk Heterojunction Polymer Solar Cell Applications**

UNAY H., UNLU N. A. , HIZALAN G., HACIOGLU S. O. , Yildiz D. E. , TOPPARE L., ÇIRPAN A.

- JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.53, pp.528-535, 2015 (Journal Indexed in SCI)  
**Electrochemical Properties of Perylene Diimide (PDI) and Benzotriazole (Btz) Bearing Conjugated Polymers to Investigate the Effect of pi-Bridge on Electrochemical Properties**  
 BAYSEC S., UNLU N. A. , HACIOGLU S. O. , Udum Y. A. , ÇIRPAN A., TOPPARE L.  
 JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.52, pp.1-9, 2015 (Journal Indexed in SCI)
- **All-Organic Electrochromic Supercapacitor Electrodes**  
 YÜKSEL R., CEVHER Ş. C. , ÇIRPAN A., TOPPARE L., ÜNALAN H. E.  
 JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.162, 2015 (Journal Indexed in SCI)
- **Synthesis of a benzotriazole bearing alternating copolymer for organic photovoltaic applications**  
 ISTANBULLUOGLU C., Goker S., HIZALAN G., HACIOGLU S. O. , Udum Y. A. , Yildiz E. D. , ÇIRPAN A., TOPPARE L.  
 NEW JOURNAL OF CHEMISTRY, vol.39, pp.6623-6630, 2015 (Journal Indexed in SCI)
- **A novel architecture based on a conducting polymer and calixarene derivative: its synthesis and biosensor construction**  
 GOKOGLAN T. C. , SOYLEMEZ S., KESIK M., UNAY H., Sayin S., Yildiz H. B. , ÇIRPAN A., TOPPARE L.  
 RSC ADVANCES, vol.5, pp.35940-35947, 2015 (Journal Indexed in SCI)
- **A multi-functional fluorescent scaffold as a multi-colour probe: design and application in targeted cell imaging**  
 KESIK M., DEMİR B., Barlas F. B. , GEYİK C., CEVHER Ş. C. , Demirkol D. O. , TİMUR S., ÇIRPAN A., TOPPARE L. K.  
 RSC ADVANCES, vol.5, pp.83361-83367, 2015 (Journal Indexed in SCI)
- **Leakage current by Frenkel-Poole emission on benzotriazole and benzothiadiazole based organic devices**  
 Yildiz D. E. , KARAKUS M., TOPPARE L. K. , ÇIRPAN A.  
 MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.28, pp.84-88, 2014 (Journal Indexed in SCI)
- **A Novel and Effective Surface Design: Conducting Polymer/beta-Cyclodextrin Host-Guest System for Cholesterol Biosensor**  
 SOYLEMEZ S., HACIOGLU S. O. , KESIK M., UNAY H., ÇIRPAN A., TOPPARE L.  
 ACS APPLIED MATERIALS & INTERFACES, vol.6, pp.18290-18300, 2014 (Journal Indexed in SCI)
- **Transparent and Flexible Supercapacitors with Single Walled Carbon Nanotube Thin Film Electrodes**  
 YÜKSEL R., SARIOBA Z., ÇIRPAN A., Hiralal P., ÜNALAN H. E.  
 ACS APPLIED MATERIALS & INTERFACES, vol.6, pp.15434-15439, 2014 (Journal Indexed in SCI)
- **Synthesis and Spectroelectrochemistry of Dithieno(3,2-b:2',3'-d)pyrrole Derivatives**  
 Udum Y. A. , Yildiz H. B. , Azak H., Sahin E., Talaz O., ÇIRPAN A., TOPPARE L.  
 JOURNAL OF APPLIED POLYMER SCIENCE, vol.131, 2014 (Journal Indexed in SCI)
- **Thieno[3,2-13]thiophene as pi-bridge at different acceptor systems for electrochromic applications**  
 TOKSABAY S., HACIOGLU S. O. , UNLU N. A. , ÇIRPAN A., TOPPARE L.  
 POLYMER, vol.55, pp.3093-3099, 2014 (Journal Indexed in SCI)
- **Structure-property relations in donor-acceptor-donor type benzimidazole containing conjugated polymers**  
 ZAIFOGLU B., HACIOGLU S. O. , UNLU N. A. , ÇIRPAN A., TOPPARE L.  
 JOURNAL OF MATERIALS SCIENCE, vol.49, pp.225-231, 2014 (Journal Indexed in SCI)
- **Synthesis and characterization of conducting polymers containing polypeptide and ferrocene side chains as ethanol biosensors**  
 KESIK M., Akbulut H., SOYLEMEZ S., CEVHER Ş. C. , HIZALAN G., Udum Y. A. , ENDO T., YAMADA S., ÇIRPAN A., Yağcı Y., et al.  
 POLYMER CHEMISTRY, vol.5, pp.6295-6306, 2014 (Journal Indexed in SCI)
- **Power conversion efficiency enhancement of organic solar cells by addition of gold nanostars, nanorods, and nanospheres**  
 Kozanoğlu D., Apaydın D. H. , Çirpan A., Esentürk E.  
 ORGANIC ELECTRONICS, vol.14, pp.1720-1727, 2013 (Journal Indexed in SCI)
- **Synthesis and electrochromic properties of trans-stilbene bearing copolymers obtained with**

**different repeat unit and chain length**

KARAKUS M., NURIOGLU A. G. , AKPINAR H. Z. , TOPPARE L., ÇIRPAN A.

ELECTROCHIMICA ACTA, vol.100, pp.110-117, 2013 (Journal Indexed in SCI)

● **Optimizing the organic solar cell efficiency: Role of the active layer thickness**

APAYDIN D. H. , Yildiz D. E. , ÇIRPAN A., TOPPARE L.

SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.113, pp.100-105, 2013 (Journal Indexed in SCI)

● **Dielectric and electrical properties of an organic device containing benzotriazole and fluorene bearing copolymer**

Yildiz D. E. , APAYDIN D. H. , TOPPARE L., ÇIRPAN A.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.128, pp.1659-1664, 2013 (Journal Indexed in SCI)

● **Fused structures in the polymer backbone to investigate the photovoltaic and electrochromic properties of donor-acceptor-type conjugated polymers**

CEVHER Ş. C. , UNLU N. A. , OZELCAGLAYAN A. C. , APAYDIN D. H. , Udum Y. A. , TOPPARE L., ÇIRPAN A.

JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.51, pp.1933-1941, 2013 (Journal Indexed in SCI)

● **Syntheses, electrochemical and photophysical properties of biphenyl containing conjugated copolymers**

DENIZ T. K. , NURIOGLU A. G. , UNLU N. A. , SENDUR M., TOPPARE L., ÇIRPAN A.

POLYMER, vol.54, pp.2243-2249, 2013 (Journal Indexed in SCI)

● **White light emitting devices by doping polyfluorene with two red emitters**

de Deus J. F. , Faria G. C. , Faria R. M. , Iamazaki E. T. , Atvars T. D. Z. , Cirpan A., Akcelrud L.

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.253, pp.45-51, 2013 (Journal Indexed in SCI)

● **Photo- and electroluminescence behavior of biphenyl containing conjugated polymer**

DENIZ T. K. , APAYDIN D. H. , OZELCAGLAYAN A. C. , TOPPARE L. K. , ÇIRPAN A.

TURKISH JOURNAL OF CHEMISTRY, vol.37, pp.538-546, 2013 (Journal Indexed in SCI)

● **The Main Electrical and Interfacial Properties of Benzotriazole and Fluorene Based Organic Devices**

Yildiz D. E. , APAYDIN D. H. , KAYA E., Altindal S., ÇIRPAN A.

JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.50, pp.168-174, 2013 (Journal Indexed in SCI)

● **Effect of Dithienopyrrole Unit on Electrochromic and Optical Properties of Benzotriazole-Based Conjugated Polymers**

UNLU N. A. , DENIZ T. K. , SENDUR M., ÇIRPAN A.

MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.213, pp.1885-1891, 2012 (Journal Indexed in SCI)

● **Synthesis and electrochemical properties of a new benzimidazole derivative as the acceptor unit in donor-acceptor-donor type polymers**

OZELCAGLAYAN A. C. , SENDUR M., AKBASOGLU N., APAYDIN D. H. , ÇIRPAN A., TOPPARE L.

ELECTROCHIMICA ACTA, vol.67, pp.224-229, 2012 (Journal Indexed in SCI)

● **Solution processable benzotriazole and fluorene containing copolymers for photovoltaic applications**

KAYA E., APAYDIN D. H. , Yildiz D. E. , TOPPARE L., Cirpan A.

SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.99, pp.321-326, 2012 (Journal Indexed in SCI)

● **Benzotriazole and benzothiadiazole containing conjugated copolymers for organic solar cell applications**

KARAKUS M., APAYDIN D. H. , Yildiz D. E. , TOPPARE L., ÇIRPAN A.

POLYMER, vol.53, pp.1198-1202, 2012 (Journal Indexed in SCI)

● **Electrochemical and optical properties of solution processable benzotriazole and benzothiadiazole containing copolymers**

KARAKUS M., BALAN A., BARAN D., TOPPARE L., ÇIRPAN A.

SYNTHETIC METALS, vol.162, pp.79-84, 2012 (Journal Indexed in SCI)

● **Electrochromic and optical studies of solution processable benzotriazole and fluorene containing**

## **copolymers**

KAYA E., BALAN A., BARAN D., ÇIRPAN A., TOPPARE L.

ORGANIC ELECTRONICS, vol.12, pp.202-209, 2011 (Journal Indexed in SCI)

### **Electrochemical and Optical Studies of Furan and Thieno[3,2-b]thiophene End Capped Benzotriazole Derivatives**

AKBASOGLU N., BALAN A., BARAN D., ÇIRPAN A., TOPPARE L.

JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.48, pp.5603-5610, 2010 (Journal Indexed in SCI)

### **Emission tuning study of RGB blends. Interaction of two EL polymers and a red dye**

de Deus J. F. , Cirpan A., KARASZ F., AKCELROD L.

Current Applied Physics, vol.10, pp.365-369, 2010 (Journal Indexed in SCI)

### **Highly efficient polymer blends from a polyfluorene derivative and PVK for LEDs**

NOWACKI B., IMAZAKI E., Cirpan A., KARASZ F., ATVARS T. D. , AKCELROD L.

Polymer, vol.50, pp.6057-6064, 2009 (Journal Indexed in SCI)

### **Preparation of metallic line patterns from functional block copolymers**

PARK S., KIM B., Cirpan A., RUSSELL T. P.

Small, vol.5, pp.1343-1348, 2009 (Journal Indexed in SCI)

### **Synthesis and photophysical property of well-defined donor-acceptor diblock copolymer based on regioregular poly(3-hexylthiophene) and fullerene**

LEE J. U. , Cirpan A., EMRICK T., RUSSELL T. P. , JO W. H.

Journal of Materials Chemistry, vol.19, pp.1483-1489, 2009 (Journal Indexed in SCI)

### **Donor-acceptor poly(thiophene-block-perylene diimide) copolymers: Synthesis and solar cell fabrication**

ZHANG Q., Cirpan A., RUSSELL T. P. , EMRICK T.

Macromolecules, vol.42, pp.1079-1082, 2009 (Journal Indexed in SCI)

### **Electroluminescence of (styrene-co-acrylic acid) ionomer/conjugated MEH-PPV blends**

COSSIELLO R. F. , Cirpan A., KARASZ F. E. , AKCELROD L., Atvars T. D.

Synthetic Metals, vol.158, pp.219-225, 2008 (Journal Indexed in SCI)

### **Novel poly(phenylene vinylenes) with well-defined poly( $\epsilon$ -caprolactone) or polystyrene as lateral substituents: Synthesis and characterization**

Çolak D., Cianga I., Yağcı Y., Cirpan A., KARASZ F.

Macromolecules, vol.40, pp.5301-5310, 2007 (Journal Indexed in SCI)

### **Luminescence of molecular and block copolymeric 2,7-bis(phenylethenyl)- fluorenones; identifying green-band emitter sites in a fluorene-based luminophore**

RATHNAYAKE H. P. , Cirpan A., KARASZ F. E. , ODOI M. Y. , HAMMER N. I. , BARNES M. D. , LAHTI P. M.

Chemistry of Materials, vol.19, pp.3265-3270, 2007 (Journal Indexed in SCI)

### **Synthesis and optical properties of light-emitting $\pi$ -conjugated polymers containing biphenyl and dithienosilole**

LIAO L., Cirpan A., CHU Q., KARASZ F. E. , PANG Y.

Journal of Polymer Science, Part A: Polymer Chemistry, vol.45, pp.2048-2058, 2007 (Journal Indexed in SCI)

### **Characteristics of dual-type electrochromic devices based on poly(ethylene oxide) copolymers**

Yildiz H. B. , Sahin E., Cirpan A., Toppare L., Yagci Y.

POLYMER INTERNATIONAL, vol.56, pp.674-678, 2007 (Journal Indexed in SCI)

### **Photo- and electroluminescent properties of a $\pi$ -conjugated copolymer containing 2,2'-bipyridyl units**

Deichmann V. A. F. , Cirpan A., KARASZ F. E. , AKCELROD L.

Polymer International, vol.56, pp.252-257, 2007 (Journal Indexed in SCI)

### **Optimizing OLED efficacy of 2,7-diconjugated 9,9-dialkylfluorenes by variation of periphery substitution and conjugation length**

RATHNAYAKE H. P. , Cirpan A., DELEN Z., LAHTI P. M. , KARASZ F. E.

Advanced Functional Materials, vol.17, pp.115-122, 2007 (Journal Indexed in SCI)

- **Luminescence of fluorenes 2,7-conjugatively extended with pyrenylvinylene and pyrenylvinylene-phenylenevinylene**  
Cirpan A., RATHNAYAKE H. P. , LAHTI P. M. , KARASZ F. E.  
Journal of Materials Chemistry, vol.17, pp.3030-3036, 2007 (Journal Indexed in SCI)
- **Construction of electrochromic devices using thiophene based conducting polymers**  
COSKUN Y., Cirpan A., TOPPARE L. K.  
JOURNAL OF MATERIALS SCIENCE, vol.42, pp.368-372, 2007 (Journal Indexed in SCI)
- **Photo- and electroluminescent behavior of Eu<sup>3+</sup> ions in blends with poly(vinyl-carbazole)**  
Deichmann V. A. F. , Novo J. B. M. , Cirpan A., Karasz F. E. , Akcelrud L.  
JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY, vol.18, pp.330-336, 2007 (Journal Indexed in SCI)
- **Efficient light emitting diodes from ternary blends of PPV-based copolymers**  
Cirpan A., Ayse Aroguz Z., KARASZ F. E.  
Journal of Applied Polymer Science, vol.102, pp.2509-2511, 2006 (Journal Indexed in SCI)
- **Efficient blue-green-emitting poly[(5-diphenylamino-1, 3-phenylenevinylene) -alt-(2,5-dihexyloxy-1, 4-phenylenevinylene)] derivatives: Synthesis and optical properties**  
Liao L., Cirpan A., DING L., KARASZ F. E. , Pang Y.  
Journal of Polymer Science, Part A: Polymer Chemistry, vol.44, pp.2307-2315, 2006 (Journal Indexed in SCI)
- **Indium tin oxide nanoparticles as anode for light-emitting diodes**  
Cirpan A., KARASZ F. E.  
Journal of Applied Polymer Science, vol.99, pp.3125-3129, 2006 (Journal Indexed in SCI)
- **Conducting polymers of succinic acid bis-(2-thiophen-3-yl-ethyl)ester and their electrochromic properties**  
SACAN L., Cirpan A., CAMURLU P., TOPPARE L. K.  
SYNTHETIC METALS, vol.156, pp.190-195, 2006 (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)
- **Optimizing LED properties of 2,7-Bis(phenylethenyl)fluorenes**  
RATHNAYAKE H. P. , Cirpan A., LAHTI P. M. , KARASZ F. E.  
Chemistry of Materials, vol.18, pp.560-566, 2006 (Journal Indexed in SCI)
- **Enzyme electrodes for determination of total phenolic capacity of red wines**  
KIRALP S., Cirpan A., TOPPARE L. K.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.98, pp.521-524, 2005 (Journal Indexed in SCI)
- **Conducting polymers of octanoic acid 2-thiophen-3-yl-ethyl ester and their electrochromic properties**  
CAMURLU P., Cirpan A., TOPPARE L. K.  
MATERIALS CHEMISTRY AND PHYSICS, vol.92, pp.413-418, 2005 (Journal Indexed in SCI)
- **Synthesis and characterization of thiophen-3-yl acetic acid 4-pyrrol-1-yl phenyl ester and its conducting polymers**  
BINGÖL B., GÜNER Y., ÇIRPAN A., TOPPARE L.  
International Journal of Polymeric Materials and Polymeric Biomaterials, vol.54, pp.713-730, 2005 (Journal Indexed in SCI Expanded)
- **Synthesis and characterization of a bifunctional amido-thiophene monomer and its copolymer with thiophene and electrochemical properties**  
AK M., Cirpan A., YILMAZ F., YAGCI Y., TOPPARE L. K.  
EUROPEAN POLYMER JOURNAL, vol.41, pp.967-973, 2005 (Journal Indexed in SCI)
- **Efficient light emitting diodes from polyfluorene copolymer blends**  
Cirpan A., Ding L., Karasz F.  
SYNTHETIC METALS, vol.150, pp.195-198, 2005 (Journal Indexed in SCI)
- **Optical and electroluminescent properties of polyfluorene copolymers and their blends**  
Cirpan A., DING L., KARASZ F. E.

- Polymer, vol.46, pp.811-817, 2005 (Journal Indexed in SCI)  
**Dual-type electrochromic devices based on conducting copolymers of thiophene-functionalized monomers**  
 BULUT U., Cirpan A.
- SYNTHETIC METALS, vol.148, pp.65-69, 2005 (Journal Indexed in SCI)  
**Dual type complementary colored polymer electrochromic devices utilized by 3-ester substituted thiophenes**  
 CAMURLU P., Cirpan A., TOPPARE L. K.
- JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.572, pp.61-65, 2004 (Journal Indexed in SCI)  
**Synthesis, characterization, and electrochromic properties of conducting poly(hexanedioic acid bis-(2-thiophen-3-yl-ethyl ester) and its copolymer with thiophene**  
 CAMURLU P., Cirpan A., TOPPARE L. K.
- SYNTHETIC METALS, vol.146, pp.91-97, 2004 (Journal Indexed in SCI)  
**Spray coatable electrochromic dioxythiophene polymers with high coloration efficiencies**  
 REEVES B. D. , GRENIER C. R. , ARGUN A. A. , Cirpan A., MCCARLEY T. D. , REYNOLDS J. R.
- Macromolecules, vol.37, pp.7559-7569, 2004 (Journal Indexed in SCI)  
**Conducting polymers of terephthalic acid bis-(2-thiophen-3-yl-ethyl) ester and their electrochromic properties**  
 Coskun Y., Cirpan A., Toppare L.
- POLYMER, vol.45, pp.4989-4995, 2004 (Journal Indexed in SCI)  
**Microporous patterned electrodes for color-matched electrochromic polymer displays**  
 Aubert P., ARGUN A. A. , Cirpan A., TANNER D. B. , REYNOLDS J. R.
- Chemistry of Materials, vol.16, pp.2386-2393, 2004 (Journal Indexed in SCI)  
**Conducting polymers of decanedioic acid bis-(4-pyrrol-1-yl-phenyl) ester**  
 Cirpan A., GUNER Y., TOPPARE L. K.
- MATERIALS CHEMISTRY AND PHYSICS, vol.85, pp.222-226, 2004 (Journal Indexed in SCI)  
**Synthesis and characterization of conducting copolymers of succinic acid bis-(4-pyrrol-1-yl-phenyl) ester and their electrochromic properties**  
 Ertas M., Cirpan A., Toppare L.
- SYNTHETIC METALS, vol.143, pp.49-58, 2004 (Journal Indexed in SCI)  
**Electrochromic devices based on soluble and processable dioxythiophene polymers**  
 Cirpan A., ARGUN A. A. , GRENIER C. R. G. , REEVES B. D. , REYNOLDS J. R.
- Journal of Materials Chemistry, vol.13, pp.2422-2428, 2003 (Journal Indexed in SCI)  
**The First Truly All-Polymer Electrochromic Devices**  
 ARGUN A. A. , Cirpan A., REYNOLDS J. R.
- Advanced Materials, vol.15, pp.1338-1341, 2003 (Journal Indexed in SCI)  
**Immobilization of invertase in conducting copolymers of 3-methylthienyl methacrylate**  
 Cirpan A., ALKAN S., TOPPARE L. K. , HEPUZER Y., YAGCI Y.
- BIOELECTROCHEMISTRY, vol.59, pp.29-33, 2003 (Journal Indexed in SCI)  
**Immobilization of cholesterol oxidase in a conducting copolymer of thiophene-3-yl acetic acid cholesteryl ester with pyrrole**  
 Cirpan A., ALKAN S., TOPPARE L. K. , Cianga I., YAGCI Y.
- DESIGNED MONOMERS AND POLYMERS, vol.6, pp.237-243, 2003 (Journal Indexed in SCI)  
**Synthesis, characterization and electrical conductivity of poly(p-phenylene vinylene)**  
 Cirpan A., KUCUKYAVUZ Z., KUCUKYAVUZ S.
- TURKISH JOURNAL OF CHEMISTRY, vol.27, pp.135-143, 2003 (Journal Indexed in SCI)  
**Conducting graft copolymers of poly (3-methylthienyl methacrylate) with pyrrole and thiophene**  
 Cirpan A., ALKAN S., TOPPARE L. K. , HEPUZER Y., YAGCI Y.
- JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.40, pp.4131-4140, 2002 (Journal Indexed in SCI)  
**Synthesis and characterization of conducting copolymers of thiophene-3-yl acetic acid cholesteryl**

ester with pyrrole

Cirpan A., ALKAN S., TOPPARE L. K. , CIANGA I., YAGCI Y.

JOURNAL OF MATERIALS SCIENCE, vol.37, pp.1767-1775, 2002 (Journal Indexed in SCI)

● **Synthesis and electroactivity of pyrrole end-functionalized poly(2-methyl-2-oxazoline)**

Cirpan A., ALKAN S., TOPPARE L. K. , DAVID G., YAGCI Y.

EUROPEAN POLYMER JOURNAL, vol.37, pp.2225-2229, 2001 (Journal Indexed in SCI)

## Articles Published in Other Journals

● **Indenoquinoxaline based conjugated polymer substrate for laccase biosensor**

Cevher Ş. C. , Bekmezci S. A. , SaniyeSoylemez S., Udum Y. A. , Toppare L., ÇIRPAN A.

Materials Chemistry and Physics, vol.257, 2021 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

● **Synthesis of Indeno-Quinoxaline, Benzodithiophene and Carbazole Containing Conjugated Polymers For Photovoltaic Applications**

Gülmez S., Cevher Ş. C. , Cevher D. K. , Çırpan A.

● ISTANBUL INTERNATIONAL ORGANIC ELECTRONIC SYMPOSIUM, İstanbul, Turkey, 2 - 04 December 2019, pp.105

● **SYNTHESIS AND INVESTIGATION OF OPTICAL AND ELECTROCHEMICAL PROPERTIES OF BENZODITHIOPHENE AND BENZOTHIAZOLE BASED CONJUGATED POLYMERS**

Dikbiyık D. E. , Taşkaya Aslan S., Çırpan A.

● İstanbul International Organic Electronic Symposium, İstanbul, Turkey, 2 - 04 December 2019, pp.104

● **Synthesis And Investigation Of Optical And Electrochemical Properties Of Diketopyrrolopyrrole And Benzothiophene-Based Conjugated Polymers**

Ayyıldız B., Cevher Ş. C. , Çırpan A.

● ISTANBUL INTERNATIONAL ORGANIC ELECTRONIC SYMPOSIUM, İstanbul, Turkey, 2 - 04 December 2019, pp.106

● **Oxadiazole Containing Thiole Modified Conjugate Polymers for Solar Cells**

Karakurt O., Cevher Ş. C. , Çırpan A.

● ISTANBUL INTERNATIONAL ORGANIC ELECTRONIC SYMPOSIUM, İstanbul, Turkey, 2 - 04 December 2019, pp.63

● **Photovoltaic performance of an oxadiazole bearing conjugated polymer synthesized via alternating synthetic methods**

Erer M. C. , Göker S., Hızalan G., Toppare L. K. , Çırpan A.

● E-MRS 2019 Fall Meeting, Warszawa, Poland, 16 - 19 September 2019, pp.158

● **'SELENOPHENE BASED BENZODITHIOPHENE AND QUINOXALINE CONTAINING ALTERNATING CONJUGATED POLYMERS FOR ORGANIC SOLAR CELLS**

Çalışkan M., Taşkaya Aslan S., Çırpan A.

● E-MRS 2019 Fall Meeting, Warszawa, Poland, 16 - 19 September 2019, pp.158

● **PET GERİ DÖNÜŞÜMÜ İLE BOR İÇEREN YENİ POLİMERLER SENTEZİ**

Keleş D., Çırpan A.

● International symposium on Boron- BORON2019, Nevşehir, Turkey, 17 - 19 April 2019

● **Yarı Şeffaf Organik Güneş Gözelleri**

Toppare L. K. , Hızalan G., Alpugan E., Ünal H. E. , Çırpan A.

● VII . Ulusal Polimer Bilim ve Teknolojisi Kongresi, Ankara, Turkey, 9 - 12 September 2018, pp.1-2

● **Selenophene Based Benzodithiophene And Quinoxaline Containing Alternating Conjugated Polymers For Bulk-Heterojunction Solar Cell Applications**

Çırpan A., Çalışkan M., Cevher Ş. C.

● Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi , Eskişehir, Turkey, 9 - 12 September 2018, pp.54

● **Optoelectronic Properties of Benzodithiophene Based Conjugated Polymers**

Çırpan A.

Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi , Eskişehir, Turkey, 9 - 12 September 2018, pp.16  
**Electrochromic Studies of Fluorine Substituted Benzothiadiazole Containing Conducting Polymers**  
Çırpan A., Erer M. C. , Keleş D., Hızalan G., Toppare L. K.

Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi, Eskişehir, Turkey, 9 - 12 September 2018, pp.210  
**Optical And Electrochemical Properties Of Benzotriazole And Benzodithiophene Containing Alternating Copolymers**

Çırpan A., Yıldırım M., Cevher Ş. C. , Toppare L. K.

Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi , Eskişehir, Turkey, 9 - 12 September 2018, pp.58  
**Benzodithiophene Bearing Polymers- Synthesis And Electrochemical Studies**

Çırpan A., Alemdar E., Güven D., Cevher Ş. C. , Hızalan G., Özdemir Ş., Toppare L. K.

Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi, Eskişehir, Turkey, 9 - 12 September 2018, pp.206  
**Synthesis of Phenanthroimidazole-Attached-Benzotriazole Based Conjugated Polymers and Their Optoelectronic Applications**

Çırpan A., Cevher Ş. C. , Keleş D., Hızalan G., Toppare L. K.

Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi, Eskişehir, Turkey, 9 - 12 September 2018, pp.207  
**Synthesis and characterization of benzotriazole containing conjugated polymers for bulk heterojunction organic photovoltaics**

Çırpan A., Göksu K., Cevher Ş. C. , Azeri Ö., Ünal Ö., Hızalan G., Toppare L. K.

International Conference on Photovoltaic Science and Technologies (PVCon2018), Ankara, Turkey, 4 - 06 July 2018, pp.1

**Photovoltaic Properties Of Thienopyrrole And Selenopyrrole Fused Benzothiadiazole Containing Polymers**

Çırpan A., Öztürk S., Cevher Ş. C. , Bolayır E., Ünal Ö., Toppare L. K.

International Conference on Photovoltaic Science and Technologies (PVCon2018), Ankara, Turkey, 4 - 06 July 2018, pp.1

**Inverted Organic Solar Cell Applications of Benzodithiophene and Benzotriazole Bearing Alternating Copolymer**

Toppare L. K. , Bolayır E., Cevher Ş. C. , Hacıoğlu Ş., Hızalan G., Çırpan A.

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

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

Toppare L. K. , Hızalan G., Yaşa M., Göker S., Udum Y., Günbaş E. G. , Çırpan A.

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

**Bis(triphenylamine)- and Benzodithiophene- Based Random Conjugated Polymers in Ternary Blend Bulk Heterojunction Organic Solar Cells**

Toppare L. K. , Alemdar E., Cevher Ş. C. , Hızalan G., Hacıoğlu Ş., Çırpan A.

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

**Thienopyrrole And Selenopyrrole Containing Conjugated Polymers For Organic Photovoltaics**

Çırpan A., Şen D., Öztürk S., Erer M. C. , Udum Y., Toppare L. K.

International Conference on Photovoltaic Science and Technologies (PVCon2018), Ankara, Turkey, 4 - 06 July 2018, pp.1

**Effect Of Selenophene And Thiphenene Units On Photovoltaic Performance Of Fluorine Substituted Benzothiadiazole Bearing Conjugated Polymers**

Çırpan A., Erer M. C. , Keleş D., Hızalan G., Toppare L. K.

International Conference on Photovoltaic Science and Technologies (PVCon2018), Ankara, Turkey, 4 - 06 July 2018, pp.1

**ORGANIC BULK HETEROJUNCTION SOLAR CELLS BASED ON BENZODITHIOPHENE AND BENZOTHIADIAZOLE CONTAINING CONJUGATED POLYMERS**

Toppare L. K. , Cevher Ş. C. , Bolayır E., Ünal Ö., Çırpan A., Taşkaya Aslan S.

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

● **Poly(triphenylamine-thiazolo[5,4-D]Thiazole) copolymers dye for bulk heterojunction organic solar cells**

Çirpan A., Olgun U., Gülfen M., Uğurlu Ç., Hızalan G., Toppare L. K.

International Conference on Photovoltaic Science and Technologies (PVCon2018), Ankara, Turkey, 4 - 06 July 2018, pp.34

● **Silver Nanowire Networks as Transparent Electrodes for Organic Photovoltaics and Light Emitting Diodes**

alpugan e., hızalan g., GÜNBAŞ E. G. , ÇIRPAN A., TOPPARE L. K. , ÜNALAN H. E.

MRS Fall Meeting 2017, 26 November 2017

● **2,1,3-Benzooxadiazole, thiophene and benzodithiophene based random copolymers for organic photovoltaics: Thiophene versus thieno[3,2-b]thiophene as pi-conjugated linkers**

Goker S., Hızalan G., Aktas E., Kutkan S., ÇIRPAN A., 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

● **Single Walled Carbon Nanotube Conducting Polymer Electrodes for Electrochromic Supercapacitors**  
YÜKSEL R., ÇIRPAN A., ÜNALAN H. E.

MRS Fall Meeting' 2015, 29 November - 04 December 2015

● **Silver Nanowire Molybdenum Oxide Nanocomposite Electrodes for Organic Light Emitting Diodes**

COŞKUN Ş., Koçak G., ÇIRPAN A., ÜNALAN H. E.

TMS Meeting, 15 - 19 March 2015

● **POLY 359-LEDs using polymer blend chromophores**

Karasz F. E. , Cirpan A.

235th American-Chemical-Society National Meeting, Louisiana, United States Of America, 6 - 10 April 2008, vol.235

● **Synthesis and luminescent studies of some novel segmented copolymers based on para-bis (aryleneethynyl) benzenes**

Sanyal N., Lahti P. M. , Cirpan A., Karasz F. E.

233rd National Meeting of the Cellulose-and-Renewable-Materials-Division of the American-Chemical-Society (ACS), Illinois, United States Of America, 25 - 29 March 2007, vol.233

● **Monomer and excimer luminescence in bis(phenylethenyl)fluorene and bis(phenylethenyl)fluorenone derivatives**

Cirpan A., Rathnayake H. P. , Lahti P. M. , Karasz F. E.

230th National Meeting of the American-Chemical-Society, Washington, Kiribati, 28 August - 01 September 2005, vol.230

● **Multi-color electrochromic polymers on reflective devices**

Reynolds J., Argun A., Cirpan A., Aubert P.

227th ACS National Meeting, California, United States Of America, 28 March - 01 April 2004, vol.227

● **Solution processable and electrochromic dioxothiophene-based polymers**

Reynolds J., Reeves B., Grenier C., Argun A., Cirpan A., McCarley T.

227th ACS National Meeting, California, United States Of America, 28 March - 01 April 2004, vol.227

● **Synthetic methodology toward new propylenedioxythiophene polymers**

Reeves B., Grenier C., Argun A., Cirpan A., Cunningham G., McCarley T., Reynolds J.

227th ACS National Meeting, California, United States Of America, 28 March - 01 April 2004, vol.227

## Supported Projects

ÇIRPAN A., ALEMDAR E., Project Supported by Higher Education Institutions, Trifenilamin ve benzoditiyofen içeren konjuge polimerlerin üçlü karışım güneş pili uygulamaları, 2020 - Continues

ÇIRPAN A., ŞAHİN Ü., Project Supported by Higher Education Institutions, Organik Fotovoltaik Uygulamaları için Kinoksalin ve Benzoditiyofen İçeren Polimerlerin Sentezi, 2019 - Continues

Dengiz Ç., Çirpan A., BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Bor İçeren Konjuge Polimerlerin Elektrokromik Ve

Organik Işık Yayan Diyotlar İçin Cihaz Uygulamaları, 2019 - 2021

Çırpan A., Yıldız D. E. , TUBITAK Project, Altın Nanoparçacıkların Polimer Zincirine Katkılanmalarının Güneş Gözesinin Güç Çevrim Verimi Üzerine Etkileri, 2019 - 2021

ÇIRPAN A., TAŞKAYA ASLAN S., Project Supported by Higher Education Institutions, KONJUGE POLİMERLER KULLANILAN ORGANİK GÜNEŞ PİLLERİNİN YAPIMI, 2018 - 2019

ÇIRPAN A., ALEMDAR E., Project Supported by Higher Education Institutions, KONJÜGE MELZEME BAZLI YÜKSEK VERİMLİ ORGANİK GÜNEŞ HÜCRELERİ VE OLED CİHAZLARININ KURULUMU, 2018 - 2019

ÇIRPAN A., YILDIRIM M., Project Supported by Higher Education Institutions, BENZOTRİAZOL VE BENZODİTİYOFEN İÇEREN ALTERNATİF KOPOLİMERLERİN OPTİK VE ELEKTROKİMYASAL ÖZELLİKLERİ, 2018 - 2019

ÇIRPAN A., CAN ERER M., Project Supported by Higher Education Institutions, BENZODİTİYOFEN TEMELLİ KOPOLİMERLERİN SENTEZİ VE GÜNEŞ PİLİ UYGULAMALARI, 2018 - 2019

ÇIRPAN A., ÇALIŞKAN M., Project Supported by Higher Education Institutions, BENZOTRİAZOL İÇEREN SIRALI KONJUGE POLİMERLERİN ORGANİK GÜNEŞ HÜCRELERİ İÇİN SENTEZİ, 2018 - 2019

ÇIRPAN A., GÖKSU K., Project Supported by Higher Education Institutions, DİKETOPIROLOPIROL İÇEREN MOLEKÜLLERİN SENTEZİ VE OPTİK VE ELEKTROKİMYASAL ANALİZLERİ, 2018 - 2019

ÇIRPAN A., ÖZKUL G., Project Supported by Higher Education Institutions, BENZOTRİAZOL KOPOLİMERLERİN SENTEZİ VE OPTİK VE ELEKTROKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ, 2018 - 2019

ÇIRPAN A., ÇETİN A., Project Supported by Higher Education Institutions, BİSTRİFENİLAMİN VE BENZOTRİAZOLE İÇEREN DONÖR-AKSEPTÖR TİPİ KONJUGE POLİMERLERİN OPTİK VE FOTOVOLTAİK UYGULAMALARI, 2018 - 2019

ÇIRPAN A., ÜNALAN H. E. , Project Supported by Higher Education Institutions, BENZOTİYADİAZOL VE BENZOTRİYAZOL İÇEREN KONJUGE POLİMERLERİN OPTOELEKTRONİK ÖZELLİKLERİNİN İNCELENMESİ, 2018 - 2019

TOPPARE L. K. , ÖNAL A. M. , ESENTÜRK O. , DANIŞMAN M. F. , EREL GÖKTEPE İ. , ÇIRPAN A. , ASİL ALPTEKİN D. , HACALOĞLU J. , Project Supported by Higher Education Institutions, İletken Kopolimer Bazlı Alkol Biyosensörleri Geliştirilmesi, 2018 - 2019

Yılmaz A., Esentürk O., Çırpan A., Danışman M. F. , TUBITAK Project, Metal İyonları Katkılanmış Çeşitli Borat Bileşiklerinin Luminesan Özelliklerinin Ve Metal Yüzeyler Üzerinde Oluşturulmuş Karborantol Filmlerin İncelenmesi, 2014 - 2019

ÇIRPAN A., Project Supported by Higher Education Institutions, AKSEPTÖR ÜNİTESİNİN MODİFİKASYONUNUN GÜNEŞ PİLİ VERİMİNE ETKİSİ, 2017 - 2017

ÇIRPAN A., Project Supported by Higher Education Institutions, TİYANOTİYOFEN VE BENZODİTİYOFEN HALKASI İÇEREN KONJUGE POLİMERLERİN SENTEZİ VE ORGANİK GÜNEŞ PİLİ UYGULAMALARI, 2017 - 2017

ÇIRPAN A., Project Supported by Higher Education Institutions, BİSTRİFENİLAMİN AND BENZOTRİAZOLE İÇEREN DONÖR-AKSEPTÖR TİPİ KONJUGE POLİMERLERİN OPTİK VE FOTOVOLTAİK UYGULAMALARI, 2017 - 2017

ÇIRPAN A., Project Supported by Higher Education Institutions, ORGANİK GÜNEŞ PİLLERİ İÇİN YENİ KİNOZALİN İÇERİKLİ DONÖR-AKSEPTÖR TİPİ KONJUGE POLİMERLER, 2017 - 2017

ÇIRPAN A., Project Supported by Higher Education Institutions, BİRLEŞİK SELEFONEL VE BİRLEŞİK TİYOFEN HALKASI İÇEREN KONJUGE POLİMERLERİN SENTEZİ VE ORGANİK GÜNEŞ PİLİ UYGULAMALARI, 2017 - 2017

ÇIRPAN A., Project Supported by Higher Education Institutions, BENZOTİYADİAZOL VE TİYANOTİYOFEN İÇEREN RASTGELE KOPOLİMERLERİN OPTOELEKTRONİK UYGULAMALARI, 2017 - 2017

ÇIRPAN A., Project Supported by Higher Education Institutions, DİKETOPIROLOPIROL İÇEREN MOLEKÜLLERİN SENTEZİ VE OPTİK VE ELEKTROKİMYASAL ANALİZLERİ, 2017 - 2017

ÇIRPAN A., Project Supported by Higher Education Institutions, KONJUGE POLİMERLERİN HİDROJEN DEPOLAMA KAPASİTELERİNİN ARAŞTIRILMASI, 2017 - 2017

ÇIRPAN A., ÜNALAN H. E. , Project Supported by Higher Education Institutions, ORGANİK GÜNEŞ PİLLERİ VE ORGANİK IŞIK YAYAN DİYOT UYGULAMALARI İÇİN KONJÜGE POLİMERLERİN SENTEZİ, 2017 - 2017

ÇIRPAN A., Project Supported by Higher Education Institutions, ELEKTROSPİN YÖNTEMİYLE ELDE EDİLEN KONJUGE POLİMERLERİN OLED UYGULAMALARI, 2017 - 2017

ÇIRPAN A., Project Supported by Higher Education Institutions, BENZOTRİAZOL TABANLI KONJUGE POLİMERLERİN SENTEZİ VE OPTOELEKTRONİK ÖZELLİKLERİNİN İNCELENMESİ, 2017 - 2017

ÇIRPAN A., Project Supported by Higher Education Institutions, FLORLU BENZOTİYADİAZOL İÇEREN KONJÜGE POLİMERLERİN SENTEZİ VE OPTOELEKTRONİK ÖZELLİKLERİNİN İNCELENMESİ, 2017 - 2017

ÜNALAN H. E. , POLAT S. , ÇIRPAN A., Project Supported by Higher Education Institutions, BAKIR NANOTEL ESASLI

ORGANİK GÜNEŞ GÖZELERİ ÜRETİMİ VE KARAKTERİZASYONU, 2017 - 2017

TOPPARE L. K. , ÖNAL A. M. , ESENTÜRK O. , AZERİ Ö. , BÜBER E. , DANIŞMAN M. F. , EREL GÖKTEPE İ. , ÇIRPAN A. , ASİL ALPTEKİN D. , HACALOĞLU J. , Project Supported by Higher Education Institutions, Farklı makroyapılar kullanılarak iletken polimer bazlı çeşitli alkol biyosensörlerinin geliştirilmesi, 2017 - 2017

ÇIRPAN A. , Önk İ. , TAŞKAYA ASLAN S. , ÜNALAN H. E. , CEVHER Ş. C. , Project Supported by Higher Education Institutions, Organik Işık Yayan Diyot Uygulamaları İçin Konjüge Polimerlerin Sentezi, 2016 - 2016

ÜNALAN H. E. , ÇIRPAN A. , POLAT GENLİK S. , TIGAN D. , Project Supported by Higher Education Institutions, Bakır Nanotel Esaslı Şeffaf ve İletken Elektrotların Üretimi ve Karakterizasyonu, 2016 - 2016

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

ÜNALAN H. E. , DOĞANAY D. , ÇIRPAN A. , Project Supported by Higher Education Institutions, 3 BOYUTLU YAZICI YARDIMIYLA GÜMÜŞ NANOTEL KATKILI PLA NANOKOMPOZİT ÜRETİMİ, 2015 - 2016

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÇIRPAN A. , ÜNALAN H. E. , Project Supported by Higher Education Institutions, Benzotriazol ve Benzoditiyofen Tabanlı Donör- Akseptör Tipi Konjüge Polimerlerin Organik Güneş Pili Uygulamaları, 2015 - 2015

TOPPARE L. K. , EREL GÖKTEPE İ. , ÇORUH N. , ÇIRPAN A. , Project Supported by Higher Education Institutions, Tiyofen ve Selenofen türevlerinin sentezi, elektrokromik ve güneş gözesi uygulamaları, 2015 - 2015

ÇIRPAN A. , TUBITAK Project, 3 BOYUTLU YAZICI YARDIMIYLA GÜMÜŞ NANOTEL KATKILI PLA NANOKOMPOZİT ÜRETİMİ, 2015 - 2015

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÇIRPAN A. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ,

2014 - 2015

ÇIRPAN A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÇIRPAN A., TUBITAK Project, Elektrokromik uygulamalar için düzlemsel yapıda piren içeren yeni tür donör akseptör düzenindeki polimerler, 2014 - 2015

ÇIRPAN A., TUBITAK Project, Beyaz Renkli Polimerik Işık Yayan Diyotların Eldesi ve Esnek Yüzeyler Üzerine Uygulanması, 2013 - 2015

ÇIRPAN A., Industrial Thesis Project, Konjüge elektron alıcı verici polimerler ile organik ışık yayan diyot OLED temelli bükülebilir ekranların geliştirilmesi, 2013 - 2015

ÇIRPAN A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

ÇIRPAN A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

ÇIRPAN A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

ÇIRPAN A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

ÇIRPAN A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

ÇIRPAN A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

ÇIRPAN A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

ÇIRPAN A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

ÇIRPAN A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

TOPPARE L. K. , DOĞAN Ö., EREL GÖKTEPE İ., ÇIRPAN A., Project Supported by Higher Education Institutions, Üçlü bağ içeren polimerlerin sentezi, elektrokromik ve güneş gözesi uygulamalarında kullanımı, 2013 - 2014

ÇIRPAN A., CEVHER Ş. C. , Project Supported by Higher Education Institutions, BENZOTRİAZOL İÇEREN DONÖR - AKSEPTÖR TİPİ RASTGELE VE SIRALI KONJÜGE POLİMERLERİN SENTEZİ , KARAKTRİZASYONU VE ORGANİK GÜNEŞ PİLİ UYGULAMALARI, 2013 - 2013

ÇIRPAN A., AKBAŞOĞLU N., Project Supported by Higher Education Institutions, ORGANİK GÜNEŞ PİLİ UYGULAMALARINDA KULLANILMAK ÜZERE BENZOTRİAZOL VE DİTİYENOSİKLOPENTADİEN İÇERİKLİ DONÖR - AKSEPTÖR TİPİ KONJÜGE POLİMERLERİN SENTEZİ VE KARAKTERİZASYONU, 2013 - 2013

ÇIRPAN A., ÜNAY H., Project Supported by Higher Education Institutions, BENZOTRİAZOL , SELENOFEN VE FLUOREN İÇEREN KONJÜGE POLİMERLERİN SENTEZİ VE FOTOVOLTAİK UYGULAMALARI, 2013 - 2013

ÇIRPAN A., KARAKUŞ M., Project Supported by Higher Education Institutions, BENZOTRİAZOL, TİYOFEN VE STİLBEN İÇEREN KONJÜGE POLİMERLERİN SENTEZİ VE FOTOVOLTAİK UYGULAMALARI, 2013 - 2013

ÇIRPAN A., KOÇAK G., Project Supported by Higher Education Institutions, BENZOTRİAZOL VE FLOREN TÜREVLERİ İÇEREN POLİMERLERİN BEYAZ IŞIK YAYAN DİYOT UYGULAMALARI, 2013 - 2013

ÇIRPAN A., Project Supported by Higher Education Institutions, Organik Güneş Pilleri İçin Yeni Polimerik Malzemelerin Sentezi, Karakterizasyonu Ve Güneş Pilleri Yapımı, 2010 - 2010

## **Contractual Researches**

ÇIRPAN A., Konjüge elektron alıcı-verici polimerler ile organik ışık yayan diyot (OLED) temelli bükülebilir ekranların geliştirilmesi, 2013 - 2015

ÇIRPAN A., Grafen Tabanlı Elmas Modülü Geliştirilmesi (ELMAS) Projesi, 2012 - 2015

ÇIRPAN A., (ULUSAL BOR ARAŞTIRMA ENSTİTÜSÜ) Çözünür ve İşlenebilir Bor Subftalosiyanın Malzemeleri ve Organik

## Memberships / Tasks in Scientific Organizations

Member, 2015 - Continues

## Scientific Refereeing

POLYMER, SCI Journal, December 2019

ELECTROCHIMICA ACTA, SCI Journal, November 2019

ELECTROCHIMICA ACTA, SCI Journal, September 2019

BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Middle East Technical University, Turkey, September 2019

ELECTROCHIMICA ACTA, SCI Journal, August 2019

POLYMER CHEMISTRY, SCI Journal, August 2019

ORGANIC ELECTRONICS, SCI Journal, July 2019

SYNTHETIC METALS, SCI Journal, July 2019

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, April 2019

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Middle East Technical University, Turkey, April 2019

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Middle East Technical University, Turkey, April 2019

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Middle East Technical University, Turkey, April 2019

JOURNAL OF THE ELECTROCHEMICAL SOCIETY, SCI Journal, March 2019

ELECTROCHIMICA ACTA, SCI Journal, February 2019

POLYMER, SCI Journal, January 2019

RSC ADVANCES, SCI Journal, January 2019

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, January 2019

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, Middle East Technical University, Turkey, January 2019

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, January 2019

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Middle East Technical University, Turkey, January 2019

TUBITAK Project, 1011 - International Scientific Research Projects Participation Program (UBAP), tübitak, Turkey, December 2018

RSC Advances , SCI Journal, November 2018

Electrochimica Acta, SCI Journal, November 2018

TUBITAK Project, 3501 - National Young Researcher Career Development Program, tübitak, Turkey, November 2018

Energy and Natural Resources Ministry, Orta Doğu Teknik Üniversitesi, Turkey, November 2018

TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, TÜBİTAK, Turkey, October 2018

TUBITAK Project, 1002 - Quick Support Program, tübitak, Turkey, October 2018

Polymer Chemistry , SCI Journal, August 2018

Micro & Nano Letters , SCI Journal, August 2018

New Journal of Chemistry, SCI Journal, July 2018

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, tübitak, Turkey, July 2018

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, tübitak, Turkey, July 2018

Electrochimica Acta, SCI Journal, June 2018

New Journal of Chemistry , SCI Journal, June 2018  
TÜBA Project, Middle East Technical University, Turkey, June 2018  
TUBITAK Project, June 2018  
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, tübitak, Turkey, June 2018  
Electrochimica Acta , SCI Journal, May 2018  
Electrochimica Acta , SCI Journal, May 2018  
Polymer, SCI Journal, May 2018  
Chem. Comm. , SCI Journal, May 2018  
Organic Electronics , SCI Journal, April 2018  
Electrochimica Acta , SCI Journal, April 2018  
Materials Chemistry and Physics , SCI Journal, April 2018  
TUBITAK Project, 1505 - University-Industry Cooperation Support Program, tübitak, Turkey, April 2018  
Polymer, SCI Journal, March 2018  
TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, TÜBİTAK, Turkey, March 2018  
Synthetic Metals , SCI Journal, February 2018  
Turkish Journal of Chem., SCI Journal, February 2018  
Turkish Journal of Chem., SCI Journal, February 2018  
Journal of Materials Chemistry C , SCI Journal, February 2018  
Electrochimica Acta , SCI Journal, February 2018  
TUBITAK Project, February 2018  
Polymer, SCI Journal, January 2018  
Chem Comm., SCI Journal, January 2018  
Electrochimica Acta , SCI Journal, January 2018

## Scientific Consultations

Ulusal Bor Araştırma Enstitüsü (BOREN), Project Consultancy, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey, 2018 - Continues  
Ulusal Bor Araştırma Enstitüsü (BOREN), Project Consultancy, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey, 2018 - Continues

## Invited Congress and Symposium Activities

İstanbul International Organic Electronic Symposium, Invited Speaker, İstanbul, Turkey, 2019  
İstanbul International Organic Electronic Symposium SYNTHESIS AND INVESTIGATION OF OPTICAL AND ELECTROCHEMICAL PROPERTIES OF DIKETOPYRROLOPYRROLE AND BENZODITHIOPHENE-BASED CONJUGATED POLYMERS, Working Group, İstanbul, Turkey, 2019  
SELENOPHENE BASED BENZODITHIOPHENE AND QUINOXALINE CONTAINING ALTERNATING CONJUGATED POLYMERS FOR ORGANIC SOLAR CELL, Working Group, Warszawa, Poland, 2019  
PHOTOVOLTAIC PERFORMANCE OF AN OXADIAZOLE BEARING POLYMER SYNTHESIZED VIA ALTERNATING SYNTHETIC METHODS, Working Group, Warszawa, Poland, 2019  
III. Organik Elektronik Çalıştayı, Invited Speaker, Amasya, Turkey, 2018  
Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi, Invited Speaker, Eskişehir, Turkey, 2018  
Gonul Hizalan, Ece Alpugan, Emrah Unalan, Ali Cirpan, Levent Toppare "Yarı Şeffaf Organik Güneş Gözelleri" Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi 09-12 Eylül 2018 Eskişehir-Türkiye, Attendee, Turkey, 2018  
Merve Yıldırma, Sevki Can Cevhera, Levent Toppare,a,b,c,d, Ali Cirpan "Optical And Electrochemical Properties Of Benzotriazole And Benzodithiophene Containing Alternating Copolymers" "Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi 09-12 Eylül 2018 Eskişehir-Türkiye, Attendee, Turkey, 2018  
Gülten Özkul, Sevki Can Cevher, Levent Toppare, Ali Cirpan "Syntheses of Fluorinated Quinoxaline-Based Conjugated

Copolymers” Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi 09-12 Eylül 2018 Eskişehir-Türkiye, Attendee, Turkey, 2018

Soner Öztürk, Şevki Can Cevher, Yasemin Arslan Udum, Levent Toppare, Ali Cirpan “Thienopyrrole And Selenopyrrole Fused Benzothiadiazole Containing Polymers For Solar Cell Applications” Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi 09-12 Eylül 2018 Eskişehir-Türkiye, Working Group, Eskişehir, Turkey, 2018

17. Mert Can Erer, Duygu Keles, Gonul Hizalan, Levent Toppare, and Ali Cirpan “Electrochromic Studies of Fluorine Substituted Benzothiadiazole Containing Conducting Polymers” Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi 09-12 Eylül 2018 Eskişehir-Türkiye, Attendee, Turkey, 2018

Ali Cirpan “Optoelectronic Properties of Benzodithiophene Based Conjugated Polymers” Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi 09-12 Eylül 2018 Eskişehir-Türkiye, Working Group, Eskişehir, Turkey, 2018

Şevki Can Cevher, Duygu Keleş, Gönül Hizalan, Levent Toppare, Ali Çırpan “Synthesis of Phenanthroimidazole-Attached-Benzotriazole Based Conjugated Polymers and Their Optoelectronic Applications” Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi 09-12 Eylül 2018 Eskişehir-Türkiye, Attendee, Turkey, 2018

Meric Caliskan, Sevki C. Cevher, Sultan Taskaya Aslan, Ali Cirpan “ Selenophene Based Benzodithiophene And Quinoxaline Containing Alternating Conjugated Polymers For Bulk-Heterojunction Solar Cell Applications” Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi 09-12 Eylül 2018 Eskişehir-Türkiye, Attendee, Turkey, 2018

Eda Alemdar, Duygu Güven, Sevki Can Cevher, Eda Bolayır, Gonul Hizalan, Serife O. Hacioglu, Levent Toppare, and Ali Cirpan “Benzodithiophene Bearing Polymers- Synthesis And Electrochemical Studies” Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi 09-12 Eylül 2018 Eskişehir-Türkiye, Working Group, Eskişehir, Turkey, 2018

Sultan Taşkaya Aslan, Şevki Can Cevher, Eda Bolayır, Özlem Ünal, Levent Toppare, Ali Çırpan, “Organic Bulk Heterojunction Solar Cells Based On Benzodithiophene And Benzothiadiazole Containing Conjugated Polymers” International Conference on Photovoltaic Science and Technologies (PVCon2018), 4-6 July 2018 Ankara – Turkey, Working Group, Ankara, Turkey, 2018

Deniz ŞEN, Soner ÖZTÜRK, Mert Can ERER, Yasemin ARSLAN UDUM, Levent TOPPARE, Ali ÇIRPAN, “Thienopyrrole And Selenopyrrole Containing Conjugated Polymers For Organic Photovoltaics” International Conference on Photovoltaic Science and Technologies (PVCon2018), 4-6 July 2018 Ankara – Turkey, Attendee, Turkey, 2018

Soner Öztürk, Şevki Can Cevher, Mert Can Erer, Y.A. Udum, Levent Toppare, Ali Çırpan, “Photovoltaic Properties Of Thienopyrrole And Selenopyrrole Fused Benzothiadiazole Containing Polymers” International Conference on Photovoltaic Science and Technologies (PVCon2018), 4-6 July 2018 Ankara – Turkey, Working Group, Ankara, Turkey, 2018

Kardelen Göksu, Ş.C. Cevher, Ö. Azeri, Ö. Ünal, G. Hizalan Özsoy, L. Toppare, Ali Çırpan, “Synthesis and characterization of benzotriazole containing conjugated polymers for bulk heterojunction organic photovoltaics” International Conference on Photovoltaic Science and Technologies (PVCon2018), 4-6 July 2018 Ankara – Turkey, Attendee, Turkey, 2018

Mert Can Erer, Duygu Keles, Gonul Hizalan, Levent Toppare, and Ali Cirpan, “Effect Of Selenophene And Thuphene Units On Photovoltaic Performance Of Fluorine Substituted Benzothiadiazole Bearing Conjugated Polymers” International Conference on Photovoltaic Science and Technologies (PVCon2018), 4-6 July 2018 Ankara – Turkey, Attendee, Turkey, 2018

Eda BOLAYIR, Şevki Can CEVHER, Şerife HACIOĞLU, Gönül HIZALAN, Ali ÇIRPAN, Levent TOPPARE, “Inverted Organic Solar Cell Applications of Benzodithiophene and Benzotriazole Bearing Alternating Copolymer” International Conference on Photovoltaic Science and Technologies (PVCon2018), 4-6 July 2018 Ankara – Turkey, Attendee, Turkey, 2018

Uğursoy Olgun, Mustafa Gülfen, Çiğden Uğurlu, Gönül Hizalan, L. Toppare, Ali Çırpan, “Poly(triphenylamine-thiazolo[5,4-D]Thiazole) copolymers dye for bulk heterojunction organic solar cells” International Conference on Photovoltaic Science and Technologies (PVCon2018), 4-6 July 2018 Ankara – Turkey, Attendee, Turkey, 2018

Eda Alemdar, Sevki Can Cevher, Gonul Hizalan, Serife O. Hacioglu, Levent Toppare, and Ali Cirpan, “Bistriphenylamine- and Benzodithiophene- Based Random Conjugated Polymers in Ternary Blend Bulk Heterojunction Organic Solar Cells” International Conference on Photovoltaic Science and Technologies (PVCon2018), 4-6 July 2018 Ankara – Turkey, Attendee, Turkey, 2018

2 nd International Conference on Organic Electronic Material Technologies, Invited Speaker, Çanakkale, Turkey, 2016

27. Ulusal Kimya Kongresi, Invited Speaker, Çanakkale, Turkey, 2015

11th Nanoscience and Nanotechnology Conference, Invited Speaker, Ankara, Turkey, 2015

V.Ulusal Polimer Bilim ve Teknolojisi Kongresi, Invited Speaker, Tokat, Turkey, 2014

## **Citations**

Total Citations (WOS):2741

h-index (WOS):27

## **Awards**

ÇIRPAN A., FABED Outstanding Young Scientist Award, FABED, May 2012

ÇIRPAN A., METU Prof. Dr. Mustafa Parlar Foundation Research Incentive Award, METU Prof. Dr. Mustafa Parlar Foundation, December 2011