

## Prof. ALİ ÇIRPAN

### Personal Information

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### International Researcher IDs

ScholarID: ZTsISvcAAAAJ

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Publons / Web Of Science ResearcherID: D-1402-2010

ScopusID: 6603201304

Yoksis Researcher ID: 30775

### 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

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

Undergraduate, 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, Faculty of Arts and Sciences, Department of Chemistry, 2017 - Continues  
Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2011 - 2017

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

## Academic and Administrative Experience

University Executive Board Member, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2022 - Continues

Vice Dean, Middle East Technical University, 2017 - 2020

Middle East Technical University, Kimya Bölümü, 2011 - 2017

## Advising Theses

Çırpan A., Effect of  $\pi$ -bridges on electrochemical and photovoltaic properties of benzothiadiazole and benzodithiophene based conjugated polymers, Postgraduate, D.ECE(Student), 2022

ÇIRPAN A., Investigation of process parameters on properties of epoxy based cataphoretic coatings, Doctorate, N.GÜLÇİN(Student), 2022

Çırpan A., Synthesis and characterization of benzodithiophene containing conjugated polymers for organic bulk heterojunction solar cells, Doctorate, S.TAŞKAYA(Student), 2022

ÇIRPAN A., Syntheses of conjugated polymers and investigation the effect of gold nanoparticle - thiol interaction for organic solar cell application, Postgraduate, S.GÜLMEZ(Student), 2022

ÇIRPAN A., Rational molecular design enables efficient organic solar cells and organic light emitting devices, Doctorate, E.ALEMDAR(Student), 2022

Çırpan A., INVESTIGATION OF THE EFFECT OF HETEROATOM AND INTEGRATION OF BORON ON BENZODITHIOPHENE AND PYRAZINE CONTAINING CONJUGATED POLYMERS FOR PHOTOVOLTAIC APPLICATIONS, Postgraduate, Y.ABACIOĞLU(Student), 2021

Çırpan A., Dengiz Ç., SYNTHESIS AND INVESTIGATION OF OPTICAL AND ELECTROCHEMICAL PROPERTIES OF ORGANOBORON BASED DONOR-ACCEPTOR TYPE CONJUGATED POLYMERS, Postgraduate, B.AYYILDIZ(Student), 2021

Çırpan A., Optical and electrochemical properties of benzotriazole and benzodithiophene containing alternating copolymers, Postgraduate, M.YILDIRIM(Student), 2021

Çırpan A., Synthesis, characterization and photovoltaic properties of benzo[c][1,2,5]oxadiazole based conjugated polymers for organic solar cells, Postgraduate, O.KARAKURT(Student), 2021

ÇIRPAN A., Selenophene bearing benzodithiophene based alternating polymers for organic solar cell applications, Postgraduate, G.Özkul(Student), 2019

Çırpan A., Toppare L. K., FUSED CONJUGATED STRUCTURES FOR ORGANIC ELECTRONICS, Doctorate, Ş.CAN(Student), 2019

Çırpan A., Toppare L. K., CONJUGATED POLYMERS WITH BENZOTHIADIAZOLE AND BENZOTRIAZOLE FOR ORGANIC SOLAR CELLS, Postgraduate, M.CAN(Student), 2019

ÇIRPAN A., Studies on photochemical vapor generation of selenium, Postgraduate, M.Çalışkan(Student), 2019

Çırpan A., Investigation of optoelectronic properties of benzotriazole and thiazole bearing conjugated polymers, Postgraduate, H.ÜNAY(Student), 2019

Çırpan A., Syntheses and characterization of benzotriazole,thienopyrroledione and benzodithiophene containingconjugated random terpolymers for organic solar cells, Postgraduate, K.GÖKSU(Student), 2019

Çırpan A., Ünal H. E., Properties and application of graphene oxide in inverted bulk heterojunction solar cells, Doctorate, Ş.ÖZCAN(Student), 2019

ÇIRPAN A., Synthesis Of Bistriphenylamine And Benzodithiophene Based Random Conjugated Polymers For Organic Photovoltaic Applications, Postgraduate, A.Çetin(Student), 2018

Çırpan A., New Quinoxaline Containing Donor-Acceptor Type Conjugated Polymers For Organic Solar Cells, Postgraduate, Ö.Karagaçtı(Student), 2018

ÇIRPAN A., Syntheses and Investigation of Optoelectronic Properties of Thiophene Based Conjugated Polymers, Postgraduate, D.Keleş(Student), 2017

ÇIRPAN A., Syntheses of Benzodithiophene and Thienopyrroledione Containing Conjugated Random Polymers As Components For Organic Solar Cells, Postgraduate, Ö.Azeri(Student), 2017

ÇIRPAN A., Syntheses and investigation of optoelectronic properties of benzothiadiazole and benzotriazole containing conjugated polymers, Postgraduate, D.Keleş(Student), 2017

ÜNALAN H. E., ÇIRPAN A., Development Of Supercapacitors With One Dimensional Nanomaterials, Doctorate, R.Yüksel(Student), 2017

ÜNALAN H. E., ÇIRPAN A., Syntheses and Optoelectronic Applications Of Thiadiazolo Quinoxaline Bearing Alternating Conjugated Copolymers, Postgraduate, E.Ataoğlu(Student), 2016

ÜNALAN H. E., ÇIRPAN A., Synthesis and Characterization Of Phenanthro Imidazole Based Conjugated Copolymer For Optoelectronic Applications, Postgraduate, N.Sohrabnia(Student), 2016

ÇIRPAN A., Syntheses Of Benzotriazole Based Conjugated Polymers For Organic Light Emitting Diode And Organic Solar Cell, Postgraduate, İ.Önk(Student), 2016

ÇIRPAN A., Copolymers Comprising Benzodithiophene and Benzotriazole Derivatives for Organic Solar Cells, Postgraduate, D.Güven(Student), 2016

ÇIRPAN A., ÜNALAN H. E., Synthesis and characterization of phenanthro-imidazole based conjugated copolymer for optoelectronic applications, Postgraduate, N.Sohrabnia(Student), 2016

ÜNALAN H. E., ÇIRPAN A., Benzotriazole and Quinoxaline Containing Random Copolymers for Bulk-Heterojunction Polymer Solar Cell Applications, Postgraduate, C.Temiz(Student), 2015

ÇIRPAN A., Polymer White Light Emitting Diodes Applications of Benzotriazole and Fluorene Derivatives, Postgraduate, G.Koçak(Student), 2015

ÇIRPAN A., Development of P and N Type Conjugated Polymers for Electrochromic and Organic Solar Cell Applications, Doctorate, N.Akbaşıoğlu(Student), 2015

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

ÇIRPAN A., Development of P and N type donor acceptor conjugated polymers for electrochromic and organic solar cell applications / , Doctorate, N.Akbaşıoğlu(Student), 2015

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

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

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

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

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

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

TOPPARE L. K., ÇIRPAN A., Syntheses and characterization of benzimidazole containing polymers: A comparative study on donor unit effect and influence of H-bonding, Postgraduate, A.GÖYÇEK(Student), 2013

TOPPARE L. K., ÇIRPAN A., Substituted quinoxaline and benzimidazole containing monomers as long wavelength photosensitizers for diaryliodonium salt initiators in photopolymerization, Postgraduate, B.Çorakçı(Student), 2013

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

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

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

ÇIRPAN A., Solution Processable Benzotriazole, Benzimidazole and Biphenyl Containing Conjugated Copolymers for Optoelectronic Applications, Postgraduate, T.Kaya(Student), 2012

TOPPARE L. K., ÇIRPAN A., Synthesis of electroactive benzimidazole derivatives and their electrochromic properties, Postgraduate, A.CAN(Student), 2012

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

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

## Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Eskişehir Teknik Üniversitesi, January, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, January, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Ankara Hacı Bayram Veli Üniversitesi, January, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Dicle Üniversitesi, February, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Abdullah Gül Üniversitesi, January, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yalova Üniversitesi, October, 2018

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

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

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Selçuk Üniversitesi, May, 2018

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

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, April, 2018

Appointment to Academic Staff-Assistant Professorship, 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

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Design and performance of sulfur and selenium-substituted triarylboron D3-A TADF emitters for OLED applications**  
Karakurt O., Demirgezer E. F., DAŞTEMİR M., Cakmaktepe S. C., Miranda-Salinas H., Aksoy E., Danos A., Monkman A., YILDIRIM E., ÇIRPAN A.  
Organic Electronics, vol.134, 2024 (SCI-Expanded)
- II. **Facile preparation of a conjugated polymer-based biosensor for glucose monitoring**  
BULUT U., Cevher Ş. C., SAYIN V. Ö., Özbek S. S., Altın N., ÇIRPAN A., Söylemez S.

Electroanalysis, vol.36, no.7, 2024 (SCI-Expanded)

- III. **How do we get across? Impact of bridging aromatic units on the optical, electronic, and photovoltaic properties of donor-acceptor polymers**  
Dikbiyık D. E., Karakurt O., Cevher D., Ozsoy G. H., Yıldırım E., Cirpan A.  
Polymer, vol.294, 2024 (SCI-Expanded)
- IV. **Innovative Fluorescent Polymers in Niosomal Carriers: A Novel Approach to Enhancing Cancer Therapy and Imaging**  
Tornaci S., ERGİNER HASKÖYLÜ M., BULUT U., Sener B., Persilioglu E., KALAYCILAR İ. B., Celik E. G., YARDİBİ H., Siyah P., KARAKURT O., et al.  
Macromolecular Bioscience, 2024 (SCI-Expanded)
- V. **Design, Synthesis, and Theoretical Studies on the Benzoxadiazole and Thienopyrrole Containing Conjugated Random Copolymers for Organic Solar Cell Applications**  
Karakurt O., Oral P., Hacıoğlu S. O., Yılmaz E. A., Hacıfendioğlu T., Bicer U. I., Özcelik E., Ozsoy G. H., Yıldırım E., Toppare L. K., et al.  
Macromolecular Rapid Communications, 2024 (SCI-Expanded)
- VI. **Enhancing electrochromic supercapacitor electrode performance through different donor compartments in D-A-D type conjugated polymers**  
Cevher D., CEVHER Ş. C., TOPPARE L. K., ÇIRPAN A.  
Journal of Energy Storage, vol.74, 2023 (SCI-Expanded)
- VII. **Recently developed benzodithiophene based organic solar cells: A review on materials and strategies**  
Cevher D., Cevher S. C., Cirpan A.  
MATERIALS TODAY COMMUNICATIONS, vol.37, pp.107524-107566, 2023 (SCI-Expanded)
- VIII. **Copolymer versus bilayer composite: Electrochemical, electrochromic and capacitive properties of benzotriazole and edot containing conjugated polymers**  
Cevher D., Cevher S. C., ÇIRPAN A.  
Dyes and Pigments, vol.218, 2023 (SCI-Expanded)
- IX. **Unveiling the effect of side chains and fluorination on the photovoltaic performance of D-A copolymers: a comparative study of P-HBT-T, P-FBT-T and P-FBT-O**  
Yılmaz E. A., Cevher S. C., Cevher D., Hizalan G., ÇIRPAN A.  
Materials Today Energy, vol.36, 2023 (SCI-Expanded)
- X. **Structure-Electrochemical Property Relationship of F vs 2F Substituents in Low Bandgap Conjugated Polymers**  
Cevher D., TOPPARE L. K., ÇIRPAN A.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.170, no.6, 2023 (SCI-Expanded)
- XI. **Gel electrolyte modification on D-A-D type conjugated polymer based supercapacitor**  
Cevher D., Cevher S. C., ÇIRPAN A.  
Journal of Energy Storage, vol.62, 2023 (SCI-Expanded)
- XII. **Experimental and Ab-Initio Investigation of the Electrical Conductivity of Emeraldine Salt**  
Ergönenç Yavas Z., Cevher D., Silis H. T., ÇIRPAN A., Gülseren O., Franchini C.  
Journal of Physical Chemistry C, vol.127, no.14, pp.6813-6824, 2023 (SCI-Expanded)
- XIII. **D-A-D type functional conducting polymer: Development of its electrochromic properties and laccase biosensor**  
UDUM Y., Aktas Gemci M., Cevher D., Soylemez S., ÇIRPAN A., Toppare L.  
Journal of Applied Polymer Science, vol.140, no.11, 2023 (SCI-Expanded)
- XIV. **A follow-up investigation: Organic solar cells based on chalcogenophene-Thieno[3,4-c]pyrrole-4,6-dione-chalcogenophene containing random conjugated polymers**  
Alemdar E., Yasa M., Cirpan A., Toppare L. K.  
Journal of Electroanalytical Chemistry, vol.932, 2023 (SCI-Expanded)
- XV. **A flexible carbon nanofiber and conjugated polymer-based electrode for glucose sensing**  
BULUT U., Oyku Sayin V., Altin Y., Can Cevher S., ÇIRPAN A., Celik Bedeloglu A., Soylemez S.

Microchemical Journal, vol.184, 2023 (SCI-Expanded)

- XVI. **Dark conduction mechanisms of PTQBDT based heterojunction diode**  
Gullu H. H., Yildiz D. E., Hacıoğlu S. O., ÇIRPAN A., TOPPARE L. K.  
PHYSICA SCRIPTA, vol.98, no.1, 2023 (SCI-Expanded)
- XVII. **Innovative polymer engineering for the investigation of electrochemical properties and biosensing ability**  
Osmanoğulları S. C., Söylemez S., Karakurt O., Hacıoğlu Ş. Ö., Çırpan A., Toppare L. K.  
Turkish Journal of Chemistry, vol.47, no.5, pp.1271-1284, 2023 (SCI-Expanded)
- XVIII. **Boosting the efficiency of organic solar cells via plasmonic gold nanoparticles and thiol functionalized conjugated polymer**  
Karakurt O., Alemdar E., Erer M. C., Cevher D., Gulmez S., Taylan U., Cevher S. C., Ozsoy G. H., Ortac B., Cirpan A.  
Dyes and Pigments, vol.208, 2022 (SCI-Expanded)
- XIX. **Rational Molecular Design Enables Efficient Blue TADF–OLEDs with Flexible Graphene Substrate**  
Sharif P., Alemdar E., Ozturk S., Caylan O., Hacıfendioglu T., Buke G., Aydemir M., Danos A., Monkman A. P., Yıldırım E., et al.  
Advanced Functional Materials, vol.32, no.47, 2022 (SCI-Expanded)
- XX. **Electrochemical biosensor based on three components random conjugated polymer with fullerene (C60)**  
KURBANOĞLU S., Cevher S. C., TOPPARE L. K., ÇIRPAN A., Soylemez S.  
Bioelectrochemistry, vol.147, 2022 (SCI-Expanded)
- XXI. **Benzodithiophene bearing conjugated polymer-based surface anchoring for sensitive electrochemical glucose detection**  
BULUT U., SAYIN V. Ö., Cevher S. C., ÇIRPAN A., Soylemez S.  
Express Polymer Letters, vol.16, no.10, pp.1012-1021, 2022 (SCI-Expanded)
- XXII. **Syntheses of novel fluorinated dibenzo[a,c]phenazine comprising polymers for electrochromic device applications**  
Hacıoğlu S. O., Aktas E., Hizalan G., Akbasoglu N., Cirpan A., Toppare L.  
NEW JOURNAL OF CHEMISTRY, vol.46, pp.14826-14839, 2022 (SCI-Expanded)
- XXIII. **Investigation the effect of  $\pi$  bridge and side chain on photovoltaic properties of benzodithiophene and quinoxaline based conjugated polymers**  
TAŞKAYA ASLAN S., Alemdar Yılmaz E., Hacıfendioglu T., UDUM Y., TOPPARE L. K., YILDIRIM E., ÇIRPAN A.  
European Polymer Journal, vol.169, 2022 (SCI-Expanded)
- XXIV. **Selenophene-containing conjugated polymers for supercapacitor electrodes**  
Yildiz D. E., Cevher D., Yasa M., ÇIRPAN A., TOPPARE L. K.  
Journal of Polymer Science, vol.60, no.1, pp.109-121, 2022 (SCI-Expanded)
- XXV. **Synthesis of selenophene substituted benzodithiophene and fluorinated benzothiadiazole based conjugated polymers for organic solar cell applications**  
TAŞKAYA ASLAN S., Cevher D., Bolayır E., Hizalan Ozsoy G., UDUM Y., YILDIRIM E., TOPPARE L. K., ÇIRPAN A.  
Electrochimica Acta, vol.398, 2021 (SCI-Expanded)
- XXVI. **Non-fullerene organic photovoltaics based on thienopyrroledione comprising random copolymers; effect of alkyl chains**  
Yasa M., Depci T., Alemdar E., Hacıoğlu Ş., Çırpan A., Toppare L. K.  
RENEWABLE ENERGY, vol.178, pp.202-211, 2021 (SCI-Expanded)
- XXVII. **Effect of thiophene, 3-hexylthiophene, selenophene, and Thieno[3,2-b] thiophene spacers on OPV device performance of novel 2,1,3-benzothiadiazole based alternating copolymers**  
Karaman C. Z., Goker S., Sahin U. S., Hacıoğlu Ş., Aslan S. T., Hacıfendioglu T., Hizalan G., YILDIRIM E., ÇIRPAN A., TOPPARE L. K.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.895, 2021 (SCI-Expanded)
- XXVIII. **Indenoquinoxalinone based conjugated polymer substrate for laccase biosensor**  
Cevher Ş. C., Bekmezci S. A., SaniyeSoylemez S., Udum Y. A., Toppare L. K., ÇIRPAN A.  
MATERIALS CHEMISTRY AND PHYSICS, vol.257, 2021 (SCI-Expanded)

- XXIX. **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, no.43, 2020 (SCI-Expanded)
- XXX. **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, vol.31, no.21, pp.18816-18831, 2020 (SCI-Expanded)
- XXXI. **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 Yilmaz E., Cevher D., Udum Arslan Y., Toppare L., Yıldırım E., Çirpan A.  
JOURNAL OF POLYMER SCIENCE, vol.58, no.19, pp.2792-2806, 2020 (SCI-Expanded)
- XXXII. **Narrow band gap benzodithiophene and quinoxaline bearing conjugated polymers for organic photovoltaic applications**  
Caliskan M., Erer M. C., Aslan S., Udum Y. A., Toppare L., Çirpan A.  
Dyes and Pigments, vol.180, 2020 (SCI-Expanded)
- XXXIII. **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, no.18, pp.15233-15242, 2020 (SCI-Expanded)
- XXXIV. **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., Hacıoğlu S. O.  
Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, vol.57, no.8, pp.589-599, 2020 (SCI-Expanded)
- XXXV. **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 (SCI-Expanded)
- XXXVI. **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, no.4, pp.3576-3584, 2020 (SCI-Expanded)
- XXXVII. **Syntheses and Characterization of Benzotriazole, Thienopyrroledione, and Benzodithiophene Containing Conjugated Random Terpolymers for Organic Solar Cells**  
Goksu K., Hizalan G., Udum Y. A., Hacıoğlu S. O., Cevher S. C., Akrema A., Toppare L. K., ÇIRPAN A.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.166, no.15, 2019 (SCI-Expanded)
- XXXVIII. **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, no.10, 2019 (SCI-Expanded)
- XXXIX. **Thiadiazoloquinoxaline and benzodithiophene bearing polymers for electrochromic and organic photovoltaic applications**  
Hacıoğlu S. O., Ataoglu E., Hizalan G., Depci T., ÇIRPAN A., Toppare L. K.  
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.194, no.9, pp.937-946, 2019 (SCI-Expanded)
- XL. **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. K., ÇIRPAN A.  
RENEWABLE ENERGY, vol.139, pp.1184-1193, 2019 (SCI-Expanded)
- XLI. **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. K.

JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.56, no.3, pp.197-205, 2019 (SCI-Expanded)

- XLII. **Alkyl-end phenanthroimidazole modification of benzotriazole based conjugated polymers for optoelectronic applications**  
Cevher Ş. C., Keles D., Hızalan G., Toppare L., Çirpan A.  
Synthetic Metals, vol.244, pp.1-9, 2018 (SCI-Expanded)
- XLIII. **Medium band gap polymer based solution-processed high-kappa composite gate dielectrics for ambipolar OFET**  
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RSC ADVANCES, SCI Journal, January 2020  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, SCI Journal, January 2020  
RSC Advances, SCI Journal, January 2020  
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, 1002 - Quick Support Program, Middle East Technical University, Turkey, 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, 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  
Energy and Natural Resources Ministry, Orta Doğu Teknik Üniversitesi, Turkey, November 2018  
TUBITAK Project, 3501 - National Young Researcher Career Development Program, tübitak, 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  
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, tübitak, Turkey, June 2018  
TÜBA Project, Middle East Technical University, Turkey, June 2018  
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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  
Electrochimica Acta , SCI Journal, January 2018  
Chem Comm., 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

## Tasks In Event Organizations

Bek A., Çırpan A., Kuralay F., NanoTR-16, Scientific Congress, Ankara, Turkey, Eylül 2022

Çırpan A., Uluslararası Bor Sempozyumu'na (BORON 2022), Scientific Congress, İstanbul, Turkey, Eylül 2022

Çırpan A., Günbaş E. G., 2nd International Conference on Photovoltaic Science and Technologies, Scientific Congress, Ankara, Turkey, Aralık 2020

Çırpan A., İstanbul International Organic Electronic Symposium, Scientific Congress, İstanbul, Turkey, Aralık 2019

## Metrics

Publication: 213

Citation (WoS): 3530

Citation (Scopus): 3635

H-Index (WoS): 30

H-Index (Scopus): 30

## 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

Şevki Can Cevher, Duygu Keleş, Gönül Hızalan, 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 Bolayir, 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

Gonul Hizalan, Ece Alpugan, Emrah Unalan, Ali Cirpan, Levent Toppare "Yarı Şeffaf Organik Güneş Gözeleri" 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

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

Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi, Invited Speaker, 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

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

Sultan Taşkaya Aslan, Şevki Can Cevher, Eda Bolayır, Özlem Ünal, Levent Toppare, Ali Çirpan, "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

Kardelen Göksu, Ş.C. Cevher, Ö. Azeri, Ö. Ünal, G. Hizalan Özsoy, L. Toppare, Ali Çirpan, "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

Uğursoy Olgun, Mustafa Gülfen, Çiğden Uğurlu, Gönül Hizalan, L. Toppare, Ali Çirpan, "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

Soner Öztürk, Şevki Can Cevher, Mert Can Erer, Y.A. Udum, Levent Toppare, Ali Çirpan, "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

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

Mert Can Erer, Duygu Keles, Gonul Hizalan, Levent Toppare, and Ali Cirpan, "Effect Of Selenophene And Thiphenene 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 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

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

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

## Invited Talks

ULUSLARARASI KATILIMLI VIII. POLİMER BİLİM ve TEKNOLOJİ KONGRESİ, Conference, İnönü Üniversitesi, Turkey, June 2022

## **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

## **Non Academic Experience**

Articulated Technologies, LLC, CT, ABD