

Prof. ALİ ÇIRPAN

Personal Information

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International Researcher IDs

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

ScopusID: 6603201304

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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 π -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.Akbaşoğlu(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.Akbaşoğlu(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

Appointment to Academic Staff-Assistant Professorship, 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 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. **How do we get across? Impact of bridging aromatic units on the optical, electronic, and photovoltaic properties of donor-acceptor polymers**
Dikbıyık D. E., Karakurt O., Cevher D., Ozsoy G. H., Yıldırım E., Çirpan A.
Polymer, vol.294, 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, 2024 (SCI-Expanded)

- III. **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)
- IV. **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)
- V. **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)
- VI. **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**
Yilmaz E. A., Cevher S. C., Cevher D., Hizalan G., ÇIRPAN A.
Materials Today Energy, vol.36, 2023 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **Experimental and Ab-Initio Investigation of the Electrical Conductivity of Emeraldine Salt**
Ergöncü 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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **Dark conduction mechanisms of PTQBDT based heterojunction diode**
Gullu H. H., Yildiz D. E., Hacioglu S. O., ÇIRPAN A., TOPPARE L. K.
PHYSICA SCRIPTA, vol.98, no.1, 2023 (SCI-Expanded)
- XIV. **Innovative polymer engineering for the investigation of electrochemical properties and biosensing ability**
Osmanoğulları S. C., Söylemez S., Karakurt O., Hacıoğlu Ş. Ö., Çirpan A., Toppare L. K.
Turkish Journal of Chemistry, vol.47, no.5, pp.1271-1284, 2023 (SCI-Expanded)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **Syntheses of novel fluorinated dibenzo[a,c]phenazine comprising polymers for electrochromic device applications**
Hacioglu S. O., Aktas E., Hizalan G., Akbasoglu N., Cirpan A., Toppare L.
NEW JOURNAL OF CHEMISTRY, vol.46, pp.14826-14839, 2022 (SCI-Expanded)
- XX. **Investigation the effect of π 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)
- XXI. **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)
- XXII. **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)
- XXIII. **Non-fullerene organic photovoltaics based on thienopyrroledione comprising random copolymers; effect of alkyl chains**
Yasa M., Depci T., Alemdar E., Hacıoglu Ş., Çirpan A., Toppare L. K.
RENEWABLE ENERGY, vol.178, pp.202-211, 2021 (SCI-Expanded)
- XXIV. **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., Hacıoglu Ş., Aslan S. T., Hacıfendioglu T., Hizalan G., YILDIRIM E., ÇIRPAN A., TOPPARE L. K.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.895, 2021 (SCI-Expanded)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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, vol.58, no.19, pp.2792-2806, 2020 (SCI-Expanded)
- XXIX. **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)

- XXX. **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)
- XXXI. **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, no.8, pp.589-599, 2020 (SCI-Expanded)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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. K., ÇIRPAN A.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.166, no.15, 2019 (SCI-Expanded)
- XXXV. **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)
- XXXVI. **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, no.9, pp.937-946, 2019 (SCI-Expanded)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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 (SCI-Expanded)
- XL. **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, no.12, 2018 (SCI-Expanded)
- XLI. **A Novel Blue to Transparent Polymer for Electrochromic Supercapacitor Electrodes**
YUKSEL R., EKBER A., TURAN J., ALPUGAN E., HACIOGLU S. O., TOPPARE L. K., ÇIRPAN A., GUNBAS G., ÜNALAN H. E.
ELECTROANALYSIS, vol.30, no.2, pp.266-273, 2018 (SCI-Expanded)
- XLII. **High stability of benzotriazole and benzodithiophene containing medium band-gap polymer solar cell**

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

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

- XLIII. **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, no.11, pp.7559-7569, 2018 (SCI-Expanded)
- XLIV. **Efficient benzodithiophene and thienopyrroledione containing random polymers as components for organic solar cells**
Azeri O., Aktas E., Istanbuloglu C., Hacıoglu S. O., CEVHER Ş. C., Toppare L., ÇIRPAN A.
POLYMER, vol.133, pp.60-67, 2017 (SCI-Expanded)
- XLV. **Enhancing the power conversion efficiency of polymer solar cells via selection of quinoxaline substituents**
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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

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: 210

Citation (WoS): 3522

Citation (Scopus): 3627

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

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

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 Gözeleri" 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

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

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

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

Merve Yıldırma, Sevki Can Cevher, Levent Toppare, 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

Soner Öztürk, Sevki 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

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

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

Kardelen Göksoy, 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

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

Uğursoy Olgun, Mustafa Gülfen, Çiğden Uğurlu, Gönül Hızalan, 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

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