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PROFESSIONAL EXPERIENCE

29/06/2017-Present	Department of Chemistry, Middle East Technical University Professor
27/01/2017-7/12/2020	Faculty of Arts and Sciences Associate Dean
23/09/2011- 27/01/2017	Department of Chemistry, Middle East Technical University Associate Professor, Vice Chair
09/2009- 09/2011	Department of Chemistry, Middle East Technical University Assistant Professor
03/2009-08/2009	Articulated Technologies, LLC Wallingford, CT (USA) Solar Cell Chemist
01/2007-12/2008	University of Massachusetts-Amherst, MA (USA) Post-Doc; Department of Polymer Science & Engineering
04/2004-12/2006	University of Massachusetts-Amherst, MA (USA) Post-Doc; Department of Polymer Science & Engineering
2002-2003	University of Florida-Gainesville, FL (USA) Visiting Scholar; Department of Chemistry
1998-2004	Middle East Technical University-Ankara (Turkey) Research Assistant; Department of Chemistry

EDUCATION

Ph.D.	Middle East Technical University-Ankara (Turkey) Department of Chemistry, February 2004
M.S.	Middle East Technical University-Ankara (Turkey) Department of Chemistry, June 2000
B.S.	Middle East Technical University-Ankara (Turkey) Department of Chemistry, June 1998

FELLOWSHIPS AND ACTIVITIES

2005-present	American Chemical Society(ACS) Member
2005-present	Materials Research Society (MRS) Member
2009-Present	Turkish Polymer Science & Technology Society
2017-Present	Electrochemical Society Member
2011-2012	American Physical Society (APS) Member
2004-2009	Post-doc Fellowship, University of Massachusetts, MA, USA
2002-2003	TUBITAK NATO-A2 Fellowship, University of Florida, FL, USA
1998-2004	Research Assistantship, METU, Ankara, Turkey

AWARDS

1	2011 METU Prof. Dr. Mustafa Parlar Foundation Research Incentive Award
2	2012 FABED Outstanding Young Scientist Award (Feyzi Akkaya Science Foundation)
3	2012 Academic Performance Awards, Middle East technical University
4	METU 2013 THESIS AWARDS, Graduate School of Natural and Applied Sciences Tugba Kaya Deniz, MSc. "Solution Processable Benzotriazole, Benzimidazole and Biphenyl Containing Conjugated Copolymers for Optoelectronic Applications" Polymer Science and Technology, Assoc.Prof.Dr.Ali Çırpan(advisor)
5	2014 Academic Performance Awards, Middle East technical University
6	2015 Mustafa Parlar Foundation Thesis Awards Naime Akbaşođlu Ünlü, PhD.
7	2015 Academic Performance Awards, Middle East technical University

PATENT

1. POLYMER SOLAR CELLS 10 August 2022, Application
Number:PCT/TR2022/050835,

LIST OF PUBLICATIONS

Total Citations	
3002, h-index: 28	from Scopus
2937, h-index: 27	from Web of Science
3820, h-index: 31	from Google Scholar http://scholar.google.com.tr/citations?user=ZTsISvcAAAJ&hl=en

- (1) A. Cirpan, S. Alkan, L. Toppare, G. David, Y. Yagci "Synthesis and electroactivity of pyrrole end-funtionalized poly(2-methyl-2-oxazoline)" *Eur. Polym. J.* 2001, 37, 2225-2229.
- (2) A. Cirpan, S. Alkan, L. Toppare, I. Cianga, Y. Yagci "Synthesis and characterization of conducting copolymers of thiophene-3-yl acetic acid cholesteryl ester with pyrrole" *J. Mater. Sci.* 2002, 37, 1767-1775.
- (3) A. Cirpan, S. Alkan, L. Toppare, Y. Hepuzer, Y. Yagci "Conducting graft copolymers of poly(3-methyl thienyl methacrylate) with pyrrole and thiophene" *J. Polym. Sci. Part A: Polym. Chem.* 2002, 40, 4131-4140.
- (4) A. Cirpan, S. Alkan, L. Toppare, Y. Yagci, Y. Hepuzer "Immobilization of invertase in conducting copolymers of 3-methylthienyl methacrylate" *Bioelectrochemistry* 2003, 59, 29-33.
- (5) A. Cirpan, Z. Kucukyavuz, S. Kucukyavuz "Synthesis, characterization and electrical conductivity of poly (paraphenylene vinylene)" *Turkish Polym. J.* (2003), 27, 135-143.
- (6) A. Cirpan, S. Alkan, L. Toppare, I. Cianga, Y. Yagci "Immobilization of cholesterol oxidase in conducting copolymer of thiophene-3-yl acetic acid cholesteryl ester with pyrrole" *Designed Monomers & Polymers* 2003, 6, 237-243.
- (7) A.A. Argun, A. Cirpan, J.R. Reynolds "The First Truly All-Polymer Electrochromic Devices" *Adv. Mater.* 2003, 15, 1338-1341.
- (8) A. Cirpan, A. A. Argun, C. R. G. Grenier, B.D. Reeves, J.R. Reynolds "Electrochromic devices based on soluble and processable dioxythiophene polymers" *J. Mater. Chem.* 2003, 13, 2422-2428.
- (9) A. Cirpan, Y. Guner, L. Toppare "Synthesis and characterization of decanedioic acid bis-(4-pyrrol-1-yl-phenyl) ester and its polymers and copolymers" *Mater. Chem. Phys.* 2004, 85, 222-226.
- (10) M. Ertas, A. Cirpan, L. Toppare "Synthesis and characterization of conducting copolymers of succinic acid bis-(4-pyrrol-1-yl-phenyl) ester and their electrochromic properties" *Synth. Met.* 2004, 143, 49-58.

- (11) P.-H. Auberta, A. A. Arguna, A. Cirpan, D.B. Tanner, J. R. Reynolds "Microporous Patterned Electrodes for Color-Matched Electrochromic Polymer Displays" *Chem. Mater.* 2004, 16, 2386-2393.
- (12) Y. Coskun, A. Cirpan, L. Toppare "Conducting Polymers of Terephthalic acid bis-(2-thiophen-3-yl-ethyl) ester and Their Electrochromic Properties" *Polymer* 2004, 45, 4989-4995.
- (13) P. Camurlu, A. Cirpan, L. Toppare "Synthesis, Characterization and Electrochromic Properties of Conducting Poly(Hexanedioic acid bis-(2-thiophen-3-yl-ethyl ester) and Its Copolymer with Thiophene" *Synth. Met.* 2004, 146, 91-97.
- (14) P. Camurlu, A. Cirpan, L. Toppare "Dual Type Complementary Colored Polymer Electrochromic Devices Utilized by 3- Ester Substituted Thiophenes" *J. Electroanal. Chem.* 2004, 572, 61-65.
- (15) B.D. Reeves, C. R. G. Grenier, A. A. Argun, A. Cirpan, J.R. Reynolds "Spray Coatable Electrochromic Dioxothiophene Polymers with High Coloration Efficiencies" *Macromolecules* 2004, 37, 7559-7569.
- (16) U. Bulut, A. Cirpan "Dual-type electrochromic devices based on conducting copolymers of thiophene-functionalized monomers" *Synth. Met.* 2004, 148, 65-69.
- (17) M. Ak, A. Cirpan, F. Yilmaz, Y. Yagci, L. Toppare "Synthesis, Characterization of Hexamethylene diamine bis-(3-thiophen acetic acid) (HDTA) and Electrochromic Properties of Its Copolymers with Thiophene" *Eur. Polym. J.* 2005, 41, 967-973.
- (18) P. Camurlu, A. Cirpan, L. Toppare "Conducting Polymers of Octanoic acid 2-thiophen-3-yl-ethyl ester and Their Electrochromic Properties" *Mater. Chem. Phys.* 2005, 92, 413-418.
- (19) B. Bingol, Y. Guner, A. Cirpan, L. Toppare "Synthesis and characterization of thiophen-3-yl acetic acid 4-pyrrol-1-yl phenyl ester and its conducting polymer" *Int. J. Polym. Mater.* 2005, 54, 713-730.
- (20) A. Cirpan, L. Ding, F.E. Karasz "Optical and electroluminescent properties of polyfluorene copolymers and their blends" *Polymer* 2005, 46, 811-817.
- (21) A. Cirpan, L. Ding, F.E. Karasz "Efficient Light Emitting Diodes from Polyfluorene Copolymer Blends" *Synth. Met.* 2005, 150, 195-198.
- (22) S. Kiralp, A. Cirpan, L. Toppare "Enzyme electrodes for determination of total phenolic capacity of red wines" *J. Appl. Polym. Sci.* 2005, 98, 521-524.
- (23) H.P. Rathnayake, A. Cirpan, P.M. Lahti, F.E. Karasz "Optimizing LED Luminescent Properties in 2,7-Bis(Phenylethenyl)fluorenes" *Chem. Mater.* 2006, 18, 560-566.
- (24) A. Cirpan, F.E. Karasz "Indium tin oxide nanoparticles as anode for light emitting diodes" *J. Appl. Polym. Sci.* 2006, 99, 3125-3129.
- (25) L. Liao, A. Cirpan, L. Ding, F.E. Karasz and Y. Pang "Efficient blue-green-emitting poly[(5-diphenylamino-1,3-phenylenevinylene)-alt-(2,5-dihexyloxy-1,4-phenylenevinylene)] derivatives: Synthesis and Optical Properties" *J. Polym. Sci. Part A: Polym. Chem.* 2006, 44, 2307-2315.
- (26) L. Sacan, A. Cirpan, P. Camurlu, L. Toppare "Conducting Polymers of Succinic acid bis-(2-thiophen-3-yl-ethyl) ester and Their Electrochromic Properties" *Synth. Met.* 2006, 156, 190-195.
- (27) A. Cirpan, H.P. Rathnayake, G. Gunbas, P.M. Lahti, F.E. Karasz "New conjugated materials containing cyano substituents for light-emitting diodes" *Synth. Met.* 2006, 156, 282-286.

- (28) A. Cirpan, F.E. Karasz, A.Z. Aroguz "Efficient Light Emitting diodes from a ternary blends of PPV based copolymers" *J. Appl. Polym. Sci.* 2006, 102, 2509-2511.
- (29) V.A.F. Deichmann, A. Cirpan, F.E. Karasz, L. Akcelrud "Photo and electroluminescent properties of a π -conjugated copolymer containing 2,2'-bipyridyl units" *Polym. Int.* 2007, 56, 252-257.
- (30) H.P. Rathnayake, A. Cirpan, Z. Delen, P.M. Lahti, F.E. Karasz "Optimizing OLED efficacy of 2,7-diconjugated 9,9-dialkylfluorenes variation of periphery substitution and conjugation length" *Adv. Funct. Mater.* 2007, 17, 115-122.
- (31) Y. Coskun, A. Cirpan, L. Toppare "Construction of Electrochromic Devices Using Thiophene Based Conducting Polymer" *J. Mater. Sci.* 2007, 42, 368-372.
- (32) H.B. Yildiz, E. Sahin, A. Cirpan, L. Toppare, Y. Yagci "Characteristics of dual-type electrochromic devices based on poly(ethylene oxide) copolymers" *Polym. Int.* 2007, 56, 674-678.
- (33) L. Liao, A. Cirpan, F.E. Karasz, Y. Pang "Synthesis and Optical Properties of Light-Emitting π -Conjugated Polymers Containing Biphenyl and Dithienosilole" *J. Polym. Sci. Part A: Polym. Chem.* 2007, 45, 2048-2058.
- (34) V.A.F. Deichmann, J.B.M. Novo, A. Cirpan, F.E. Karasz, L. Akcelrud "Photo- and Electroluminescent behavior of Eu^{3+} Ions in Blends with Poly(vinyl-carbazole)" *J. Braz. Chem. Soc.* 2007, 18, 330-336.
- (35) H.P. Rathnayake, A. Cirpan, F.E. Karasz, M.Y. Odoi, N.I. Hammer, M.D. Barnes, P.M. Lahti "Luminescence of Molecular and Block Copolymeric 2,7-Bis(phenylethenyl)-fluorenes; Identifying Green-band Emitter Sites in a Fluorene-Based Luminophore" *Chem. Mater.* 2007, 19, 3265-3270.
- (36) A. Cirpan, H.P. Rathnayake, F.E. Karasz and P.M. Lahti "Luminescence of Fluorenes 2,7-Conjugatively Extended with 2-Pyrenylvinylene and 2-Pyrenylvinylene-4-Phenylenevinylene", *J. Mater Chem.* 2007, 17, 3030-3036.
- (37) D. Colak, I. Cianga, Y. Yagci, A. Cirpan, F.E. Karasz "Novel poly(phenylene-vinylene)s with well defined poly(ϵ -caprolactone) or polystyrene as lateral substituents: synthesis and characterization" *Macromolecules* 2007, 40, 5301-5310.
- (38) **Cover Article** R.F. Cossello, A. Cirpan, F.E. Karasz, L. Akcelrud, T.D.Z. Atvars "Electroluminescence of (styrene-co-acrylic acid) ionomer/conjugated MEH-PPV blends" *Synt. Met.* 2008, 158, 219-225.
- (39) Q. Zhang, A. Cirpan, T.P. Russell, T. Emrick, "Novel Donor-Acceptor Polythiophene-Perylene Diblock Copolymers: Synthesis and Photovoltaic Characterization" *Macromolecules* 2009, 42, 1079-1082.
- (40) J.U. Lee, A. Cirpan, T. Emrick, T.P. Russell, W.H. Jo, "Synthesis and Photophysical Property of Well-Defined Donor-Acceptor Diblock Copolymer Based on Regioregular Poly(3-hexylthiophene) and Fullerene" *J. Mater. Chem.* 2009, 19, 1483-1489.
- (41) S. Park, B. Kim, A. Cirpan, T.P. Russell "Various Approaches for Preparation of Metallic Line Patterns from Functional Block Copolymers" *Small* 2009, 5, 1343-1348.
- (42) B. Nowacki, E. Iamazaki, A. Cirpan, F.E. Karasz, T.D.Z. Atvars, L. Akcelrud "Highly Efficient Polymer Blends from a Polyfluorene Derivative and PVK for LED" *Polymer* 2009, 50, 6057-6064.

- (43) (Review Article) J.F. de Deus, A. Cirpan, F.E. Karasz, L. Akcelrud "Emission tuning study of RGB blends. Interaction of two EL polymers and a red dye" *Current Applied Physics* 2010, 10, 365-369.
- (44) N. Akbasoglu, A. Balan, D. Baran, A. Cirpan, L. Toppare "Electrochemical and Optical Studies of Furan and Thieno[3,2-b]thiophene End Capped Benzotriazole Derivatives" *J. Polym. Sci. Part A: Polym. Chem.* 2010, 48, 5603-5610.
- (45) E. Kaya, A. Balan, D. Baran, A. Cirpan, L. Toppare "Solution Processable Benzotriazole and Fluorene Containing Copolymers for Multipurpose Optoelectronic Applications" *Organic Electronics* 2011, 12, 202-209.
- (46) M. Karakus, A. Balan, D. Baran, A. Cirpan and L. Toppare "Electrochemical and Optical Properties of Solution Processable Benzotriazole and Benzothiadiazole Containing Copolymers" *Synth. Met.* 2012, 162, 202-209.
<http://dx.doi.org/doi:10.1016/j.synthmet.2011.11.014>
- (47) E. Kaya, D.H. Apaydin, D.E. Yildiz, L. Toppare, A. Cirpan "Solution Processable Benzotriazole and Fluorene Containing Copolymers for Photovoltaic Applications" *Solar Energy Materials & Solar Cells* 2012, 99, 321-326.
<http://dx.doi.org/doi:10.1016/j.solmat.2011.12.021>
- (48) M. Karakus, D.H. Apaydin, D.E. Yildiz, L. Toppare, A. Cirpan "Benzotriazole and Benzothiadiazole Containing Conjugated Copolymers for Organic Solar Cells" *Polymer* 2012, 53, 1198-1202.
<http://dx.doi.org/doi:10.1016/j.polymer.2012.01.030>
- (49) A.C. Ozelcaglayan, M. Sendur, N. Akbasoglu, D.H. Apaydin, A. Cirpan, L. Toppare "Synthesis and Electrochemical Properties of a Novel Benzimidazole Derivative as the Acceptor Unit in Donor-Acceptor-Donor Type Polymers" *Electrochimica Acta* 2012, 67, 224-229.
<http://dx.doi.org/10.1016/j.electacta.2012.02.047>
- (50) **(Front Cover)** N.A. Unlu, T.K. Deniz, M. Sendur, A. Cirpan "Effect Of Dithienopyrrole Unit On Electrochromic And Optical Properties Of Benzotriazole Based Conjugated Polymers" *Macromolecular Chemistry and Physics* 2012, 213, 1885-1891.
<http://dx.doi.org/10.1002/macp.201200274>

Doç. Dr. Atama dan sonraki yayınlar

- (51) J. F. de Deus, G. C. Faria, R. M. Faria, E. T. Iamazaki, T.D.Z. Atvars, Ali Cirpan, L. Akcelrud "White light emitting devices by doping polyfluorene with two red emitters" *Journal of Photochemistry and Photobiology A: Chemistry*, 2013, 253, 45-51.
<http://dx.doi.org/10.1016/j.jphotochem.2012.12.018>
- (52) D.E. Yıldız, D.H. Apaydin, E. Kaya, A. Cirpan "The main electrical and interfacial properties of benzotriazole and fluorene based organic devices" *Journal of Macromolecular Science, Part A: Pure and Applied Chemistry*, 2013, 50, 168-174.
<http://dx.doi.org/10.1080/10601325.2013.741864>
- (53) D.E. Yıldız, D.H. Apaydin, L. Toppare, A. Cirpan "Dielectric and electrical properties of a benzotriazole and fluorene containing copolymer" *J. Appl. Polym. Sci.* 2013, 128 (3), 1659-1664.
<http://dx.doi.org/10.1002/app.38315>
- (54) D.H. Apaydin, D.E. Yıldız, A. Cirpan and L. Toppare "Optimizing the Organic Solar Cell Efficiency: Role of the Active Layer Thickness" *Solar Cells Solar Energy Materials & Solar Cells*, 2013, 113, 100-105.

- <http://dx.doi.org/10.1016/j.solmat.2013.02.003>
- (55) **(Front Cover)** S.C. Cevher, N.A. Unlu, A.C. Ozeltaglayan, D.H. Apaydin, Y.A. Udum, L. Toppare, Ali Cirpan "Fused Structures in the Polymer Backbone to Investigate the Photovoltaic and Electrochromic Properties of Donor-Acceptor Type Conjugated Polymers" *Journal Of Polymer Science, Part A: Polymer Chemistry* 2013, 51, 1933–1941. <http://dx.doi.org/10.1002/pola.26553>
- (56) T.K. Deniz, A.G. Nurioglu, N.A. Unlu, M. Sendur, L. Toppare, Ali Cirpan "Syntheses, Electrochemical and Photophysical Properties of Biphenyl Containing Conjugated Copolymers" *Polymer* 2013, 54, 2243-2249. <http://dx.doi.org/10.1016/j.polymer.2013.02.052>
- (57) M. Karakus, A.G. Nurioglu, H.Z. Akpinar, L. Toppare, and Ali Cirpan "Synthesis and Electrochromic Properties of trans-Stilbene Bearing Copolymers Obtained with Different Repeat Unit and Chain Length" *Electrochimica Acta* 2013, 100, 110-117. <http://dx.doi.org/10.1016/j.electacta.2013.03.159>
- (58) D. Kozanoglu, D.H. Apaydin, Ali Cirpan, E.N. Esenturk "Power Conversion Efficiency Enhancement of Organic Solar Cells by Addition of Gold Nanoparticles" *Organic Electronics* 2013, 14, 1720–1727. <http://dx.doi.org/10.1016/j.orgel.2013.04.008>
- (59) T.K. Deniz, D.H. Apaydin, A.C. Ozeltaglayan, L. Toppare and Ali Cirpan "Photo- and Electroluminescence Behavior of Biphenyl Derivative in Blends with Poly(vinyl-carbazole)" *Turkish Journal of Chemistry* 2013, 37, 538-546. <http://dx.doi.org/10.3906/kim-1302-48>
- (60) B. Zaifoglu, S.O. Hacıoglu, N.A. Unlu, Ali Cirpan, L. Toppare "Structure-Property Relations in Donor-Acceptor-Donor Type Benzimidazole Containing Conjugated Polymers" *Journal of Materials Science* 2014, 49 (1), 225-231. <http://dx.doi.org/10.1007/s10853-013-7696-8>
- (61) S. Toksabay, S. O. Hacıoglu, N. A. Unlu, Ali Cirpan, L. Toppare "Thieno[3,2-b]thiophene as π -bridge at Different Acceptor Systems for Electrochromic Applications" *Polymer* 2014, 55, 3093-3099. <http://dx.doi.org/10.1016/j.polymer.2014.05.029>
- (62) Y.A. Udum, H.B. Yıldız, H. Azak, Ü. Can, E. Sahin, O. Talaz, Ali Cirpan, L. Toppare "Synthesis and Spectroelectrochemistry of Dithieno pyrrole Derivatives" *Journal of Applied Polymer Science* 2014, 131 (17), 8676-8683. <http://dx.doi.org/10.1002/app.40701>
- (63) R. Yuksel, Z. Sarioba, A. Cirpan, P. Hiralal, H.E. Unalan "Transparent and flexible supercapacitors with single walled carbon nanotube thin film electrodes" *ACS Applied Materials & Interfaces* 2014, 6, 15434–15439. <http://dx.doi.org/10.1021/am504021u>
- (64) M. Kesik, H. Akbulut, S. Söylemez, S.C. Cevher, G. Hızalan, Y.A. Udum, T. Endo, S. Yamada, Ali Çirpan, Y. Yağcı and L. Toppare "Synthesis and characterization of Conducting Polymers Containing Polypeptide and Ferrocene Side Chains as Ethanol Biosensors" *Polym. Chem.*, 2014, 5, 6295–6306. <http://dx.doi.org/10.1039/C4PY00850B>
- (65) S. Soylemez, S.O. Hacıoglu, M. Kesik, H. Unay, Ali Cirpan and L. Toppare "A Novel And Effective Surface Design; Conducting Polymer/B-Cyclodextrin Host-Guest System For Cholesterol Biosensor" *ACS Appl. Mater. Interfaces*, 2014, 6, 18290–18300.

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- (66) D. E. Yildiz, M. Karakuş, L. Toppare, A. Cirpan “Leakage Current By Frenkel-Poole Emission On Benzotriazole and Benzothiadiazole Based Organic Devices” *Materials Science in Semiconductor Processing*, 2014, 28, 84–88.
<http://dx.doi.org/10.1016/j.mssp.2014.06.038>
- (67) S. Baysec, N. A. Unlu, S. O. Hacioglu, Y.A. Udum, A. Cirpan, L. Toppare “Electrochemical properties of perylene diimide (PDI) and benzotriazole (BTz) bearing conjugated polymers to investigate the effect of π -bridge on electrochemical properties” *Journal of Macromolecular Science, Part A: Pure and Applied Chemistry*, 2015, 52, 1-9.
<http://dx.doi.org/10.1080/10601325.2014.976742>
- (68) H. Unay, N.A. Unlu, G. Hizalan, S.O. Hacioglu, D.E. Yildiz, L. Toppare, Ali Cirpan “Benzotriazole and Benzodithiophene Containing Medium Band-Gap Polymer for Bulk Heterojunction Polymer Solar Cells Applications” *Journal of Polymer Science, Part A: Polymer Chemistry*, 2015, 53, 528–535.
<http://dx.doi.org/10.1002/pola.27467>
- (69) E. Sefer, S.O. Hacioglu, M. Tonga, L. Toppare, Ali Cirpan, S. Koyuncu “A Novel Near-IR effective pyrene based donor acceptor electrochrome” *Macromol. Chem. Phys.*, 2015, 216, 829–836.
<http://dx.doi.org/10.1002/macp.201400584>
- (70) T.C. Gokoglan, S. Soylemez, M. Kesik, H. Unay, S. Sayin, H. B. Yildiz, Ali Cirpan and L. Toppare “A novel architecture based on a conducting polymer and calixarene derivative: synthesis and its biosensor construction” *RSC Adv.*, 2015, 5, 35940–35947.
<http://dx.doi.org/10.1039/C5RA03933A>
- (71) **(Front Cover)** O. Erlik, N.A. Unlu, G. Hizalan, S.O. Hacioglu, S. Comez, E.D. Yildiz, L. Toppare, Ali Cirpan “Silafuorene based Polymers for Electrochromic and Polymer Solar Cell Applications” *Journal of Polymer Science, Part A: Polymer Chemistry* 2015, 53 (13), 1541-1547.
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- (72) M. Ileri, S.O. Hacioglu, Ali Cirpan, L. Toppare “Syntheses and Optical Properties of Perfluorophenyl Containing Benzimidazole Derivatives: The Effect of Donor Units” *Journal of Macromolecular Science, Part A: Pure and Applied Chemistry* 2015, 52, 510–516.
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- (73) C. Istanbuloglu, S. Göker, G. Hizalan, S.O. Hacioglu, Y.A. Udum, D.E. Yildiz, Ali Cirpan and L. Toppare “Synthesis of a Benzotriazole Bearing Alternating Copolymer For an Organic Photovoltaic Application” *New J. Chem.*, 2015, 39, 6623–6630.
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- (74) H. Unay, N.A. Unlu, G. Hizalan, S. O. Hacioglu, L. Toppare, Ali Cirpan “Selenophene as π -Bridge in Molecular Architecture of Benzotriazole Containing Conjugated Polymers to Gain Insight its Effect on Optical and Electrochemical Properties of Polymers” *Phosphorus, Sulfur, and Silicon and the Related Elements*, 2015, 190(8), 1294-1306.
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- (75) **(Front Cover)** H. Akpınar, Ş. C. Cevher, L. Wei, Ali Cirpan, B. M. Wong, D. Venkataraman, Paul M. Lahti “Poly((2-alkylbenzo[1,2,3]triazole-4,7-diyl) vinylene)s for Organic Solar Cells” *Journal of Polymer Science, Part B: Polymer Physics* 2015, 53, 1539–1545.
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- (49) Ali Cirpan, M. Karakus, A. G. Nurioglu, L. Toppare "Synthesis, electrochemical and optical properties of trans-stilbene bearing conjugated copolymers" 10th International Electrochemistry Meeting, 4-8 September 2013 Konya, Turkey.
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- (61) C. Temiz, N.A. Unlu, S.C. Cevher, S.O. Hacıoğlu, L. Toppare, Ali Cirpan "Organik Işık Yayan Diyotlar İçin Benzotriazol İçeren Konjuge Polimerler" V.Ulusal Polimer Bilim ve Teknolojisi Kongresi, 1-4 Eylül 2014, Tokat.
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- (77) Gonul Hizalan, Arezoo Hosseini, Selcuk Yerci, Ali Cirpan, Levent Toppare "Preparation and Characterization of Perovskite Layers" 1st International Conference on Perovskite Solar Cells and Optoelectronics, 27-29 September 2015, Lausanne, Switzerland.
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- (80) Recep Yuksel, Ali Cirpan, Husnu E Unalan "Single Walled Carbon Nanotube - Conducting Polymer Electrodes for Electrochromic Supercapacitors" November 29-December 4, 2015, Boston, MA, USA.
- (81) Ali Cirpan, Naime Akbasoglu Unlu, Gonul Hizalan, Levent Toppare "Conjugated Copolymers From Benzodithiophene And Benzotriazole: Synthesis And Photovoltaic Applications" Trans Mediterranean Colloquium on Heterocyclic Chemistry (TRAMECH VIII), 11-15 November 2015, Antalya, Turkey.
- (82) D. E. Yıldız, L. Toppare, A. Cirpan "Analysis of Thickness-Dependent Forward-Bias Conduction Mechanisms in Organic Diodes" International Physics Conference at the Anatolian Peak, IPCAP 2016, 25–27 February, 2016, Atatürk University, Erzurum – Turkey.
- (83) Ali Cirpan "Conjugated Polymers for Optoelectronic Devices" International Workshop on Advanced Materials and Processes for Energy Applications 20-24 April 2016, Istanbul-TURKEY.
- (84) D. E. Yıldız, D. H. Apaydın, L. Toppare, A. Cirpan "Analysis of Reverse-Bias Transport Mechanisms in Conjugated Copolymer-Based Diodes" 2 nd International Conference on Organic Electronic Material Technologies (OEMT2016) May 17-19, 2016 Çanakkale, TURKEY.
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- (87) Çağla İstanbulluoğlu, İpek Önk, Gonul Hizalan, Serife O. Hacıoğlu, Şevki Can Cevher, Ali Cirpan and Levent Toppare “Carbazole Based Alternating Copolymer For Electrochromic And Organic Photovoltaic Applications” 2-6 May 2016, E-MRS Spring Meeting and Exhibit, Lille, France.
- (88) Nima Sohrabnia, Şevki Can Cevher, Gönül Hizalan, Levent Toppare and Ali Cirpan “Optoelectronic Application of Phenanthrenyl-Imidazole Derivatives” 2-6 May 2016, E-MRS Spring Meeting and Exhibit, Lille, France.
- (89) Tugba Ceren Gokoglan, Saniye Soylemez, Melis Kesik, Hande Unay, Serkan Sayin, Ali Cirpan, Huseyin Bekir Yildiz, Levent Toppare “A conducting polymer and a calixarene derivative: A novel surface design for glucose detection” 46th IUPAC World Polymer Congress (MACRO 2016), 17-21 July 2016, İstanbul, Turkey.
- (90) Şevki Can Cevher, Duygu Keleş, Şerife Özdemir Hacıoğlu, Levent Toppare, Ali Çirpan “Alkyl-end-group Modification of Benzotriazole and Thiophene Containing Conjugated Polymers” 46th IUPAC World Polymer Congress (MACRO 2016), 17-21 July 2016, İstanbul, Turkey.
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- (92) Melis Kesik, Bilal Demir, Firat B. Barlas, Caner Geyik, SevkCan Cevher, Dilek Odacı demirkol, Suna Timur, Ali Cirpan, Levent Toppapre “Multi-Functional Fluorescent Scaffold as a Multicolor Probe: Design and Application in Targeted Cell Imaging” 46th IUPAC World Polymer Congress (MACRO 2016), 17-21 July 2016, İstanbul, Turkey.
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- (94) Melis Kesik, Huseyin Akbulut, Saniye Soylemez, SevkCan Cevher, Gonul Hizalan, Yasemin A. Udum, Takeshi Endo, Shuhei Yamada, Ali Cirpan, Yusuf Yagci, Levent Toppapre “Synthesis and characterization of conducting polymers containing polypeptide and ferrocene side chains as ethanol biosensors” 251st American Chemical Society National Meeting & Expotion Theme: Computers in Chemistry, March 13-17, 2016, San Diego, CA, USA.
- (95) Serife O. Hacıoğlu, Ece Aktas, Gonul Hizalan, Naime A. Unlu, Ali Cirpan, Levent Toppare “Triazoloquinoxaline bearing copolymer for electrochromic and organic photovoltaic applications” EU PVSEC 33rd European Photovoltaic Solar Energy Conference and Exhibition, 20-24 June 2016, Munich, Germany.
- (96) Asli ÇETİN, Şevki C. CEVHER, Çağla İSTANBULLUOĞLU, Şerife ÖZDEMİR HACIOĞLU, Levent TOPPARE, Ali ÇIRPAN “Trifenilamin, Benzoditiyofen ve Benzotriazole

- Türevleri İçeren Serbest Konjüge Polimerlerin Elektriksel ve Optik Özellikleri” 29. Ulusal Kimya Kongresi, 10-14 Eylül 2017, Ankara, ODTÜ-KKM.
- (97) Duygu KELEŞ, Eda BOLAYIR, Levent TOPPARE, Ali ÇIRPAN “Benzotiyazol Tabanlı Konjüge Polimerin Sentezi ve Organik Güneş Hücresi Uygulamaları” 29. Ulusal Kimya Kongresi, 10-14 Eylül 2017, Ankara, ODTÜ-KKM.
- (98) Özge KARAGAÇTI, Şevki C. CEVHER, Gönül HIZALAN, Çağla İSTANBULLUOĞLU, Şerife ÖZDEMİR HACIOĞLU, Levent TOPPARE, Ali ÇIRPAN “Kinoksalin, Benzoditiyofen ve Benzotriazole Türevleri İçeren Fastgele Polimerin Elektriksel, Optik ve Fotovoltaik Özellikleri” 29. Ulusal Kimya Kongresi, 10-14 Eylül 2017, Ankara, ODTÜ-KKM.
- (99) Mert Can ERER, Şevki C. CEVHER, Ece AKTAŞ, Levent TOPPARE, Ali ÇIRPAN “Benzoditiyofen İçeren Donör-Akseptör Tipi Konjüge Polimerin Sentezlenmesi ve Fotovoltaik Özelliklerinin İncelenmesi” 29. Ulusal Kimya Kongresi, 10-14 Eylül 2017, Ankara, ODTÜ-KKM.
- (100) Sultan TAŞKAYA ASLAN, Duygu KELEŞ, Levent TOPPARE, Ali ÇIRPAN “Organik Bulk Heterobirleşik Güneş Pilleri İçin Tiyenotiyofen ve Benzotiyadiazol İçeren Konjüge Polimerlerin Sentezi” 29. Ulusal Kimya Kongresi, 10-14 Eylül 2017, Ankara, ODTÜ-KKM.
- (101) Melek AKTAŞ, Duygu KELEŞ, Ali ÇIRPAN, Levent TOPPARE, Yasemin UDUM “Flor İçeren Donör-Akseptör Tipi Yeni Bir İletken Polimerin Sentezi ve Elektrokromik Özellikleri” 29. Ulusal Kimya Kongresi, 10-14 Eylül 2017, Ankara, ODTÜ-KKM.
- (102) Özge Karagaçti, Şevki Can Cevher, Gönül Hizalan, Serife O. Hacıoglu, Levent Toppare, Ali Cirpan “New Quinoxaline Containing Donor-Acceptor Type Conjugated Polymers For Organic Solar Cells” Advanced Polymers via Macromolecular Engineering (APME 2017) Ghent, Belgium, May 21-25, 2017.
- (103) Özge Azeri, Ece Aktas, Cagla Istanbuloglu, Serife O. Hacıoglu, Levent Toppare, Ali Cirpan “Syntheses Of Benzodithiophene And Thienopyrroledione Containing Random Polymers For Organic Solar Cells” Advanced Polymers via Macromolecular Engineering (APME 2017) Ghent, Belgium, May 21-25, 2017.
- (104) Sultan Taskaya Aslan, Duygu Keles, Gönül Hizalan, Levent Toppare, Ali Cirpan “Organic Bulk Heterojunction Solar Cells Based On Thienothiophene And Benzothiadiazole Containing Conjugated Polymers” Advanced Polymers via Macromolecular Engineering (APME 2017) Ghent, Belgium, May 21-25, 2017.
- (105) Aslı Cetin, Sevki C. Cevher, Cagla Istanbuloglu, Serife O. Hacıoglu, Levent Toppare, Ali Cirpan “Random Copolymers Comprising Derivatives Of Triphenylamine, Benzodithiophene And Benzotriazole Moieties For Photovoltaic Applications” Advanced Polymers via Macromolecular Engineering (APME 2017) Ghent, Belgium, May 21-25, 2017.
- (106) Ece Alpugan , Gonul Hizalan , Gorkem Gunbas , Ali Cirpan , Levent Toppare, Husnu Unalan “Silver Nanowire Networks as Transparent Electrodes for Organic Photovoltaics and Light Emitting Diodes” Emerging Materials and Techniques from the 2017 MRS Fall Meeting, November 26- December 1, 2017, Boston, MA, USA.
- (107) Seza Göker, Gönül Hizalan, Ece Aktaş, Seda Kutkan, Ali Cirpan, Levent Toppare “2,1,3-Benzooxadiazole, thiophene and benzodithiophene based random copolymers for organic photovoltaics: Thiophene versus thieno[3,2-b]thiophene as

π -conjugated linkers” 253 ACS National Meeting & Exposition, April 2-6, 2017 San Francisco, CA.

- (108) 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
- (109) 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.
- (110) Mert Can Erer, Duygu Keles, Gonul Hizalan, Levent Toppare, and Ali Cirpan, “Effect Of Selenophene And Thiophene 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
- (111) 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
- (112) Eda Alemdar, Sevki Can Cevher, Gonul Hizalan, Serife O. Hacioglu, Levent Toppare, and Ali Cirpan, “Bis(triphenylamine)- 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
- (113) 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
- (114) 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
- (115) 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
- (116) Ali Cirpan “Optoelectronic Properties of Benzodithiophene Based Conjugated Polymers” Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi 09-12 Eylül 2018 Eskişehir-Türkiye
- (117) 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

- (118) 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
- (119) Eda Alemdar, Duygu Güven, Sevki Can Cevher, Eda Bolayır, Gonul Hizalan, Serife O. Hacıoğlu, Levent Toppare, and Ali Çırpan “Benzodithiophene Bearing Polymers- Synthesis And Electrochemical Studies” Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi 09-12 Eylül 2018 Eskişehir-Türkiye
- (120) Gülten Özkul, Sevki Can Cevher, Levent Toppare, Ali Çırpan “Syntheses of Fluorinated Quinoxaline-Based Conjugated Copolymers” Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi 09-12 Eylül 2018 Eskişehir-Türkiye
- (121) Meric Çalışkan, Sevki C. Cevher, Sultan Taskaya Aslan, Ali Çırpan “ 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
- (122) Merve Yıldırım, Sevki Can Cevher, Levent Toppare, Ali Çırpan “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
- (123) Soner Öztürk, Şevki Can Cevher, Yasemin Arslan Udum, Levent Toppare, Ali Çırpan “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
- (124) Mert Can Erer, Duygu Keleş, Gonul Hizalan, Levent Toppare, and Ali Çırpan “Electrochromic Studies of Fluorine Substituted Benzothiadiazole Containing Conducting Polymers” Uluslararası Katılımlı 7. Polimer Bilim Ve Teknoloji Kongresi 09-12 Eylül 2018 Eskişehir-Türkiye

INVITED TALKS

- Rohm and Haas Electronic Materials, Marlborough, MA Host: Dr. Nick Pugliano; February 2006 “**Conjugated Polymers for Light-Attenuating and Light-Emitting Thin Film Devices**”
- Department of Chemistry, Middle East Technical University, Ankara, Turkey Host: Prof. Huseyin Isci; May 2006 “**Conjugated Systems for Light-Emitting Thin Film Devices**”
- Department of Chemistry, Bilkent University, Ankara, Turkey; Host: Assist. Prof. Gulay Ertas; March 2010 “**Conjugated Block Copolymers for Organic Solar Cell**”
- Institute of Materials Science and Nanotechnology (UNAM), Ankara, Turkey; Host: Assist. Prof. Tamer Uyar; December 2010 “**Conjugated Block Copolymers for Organic Solar Cell**”
- V.Ulusal Polimer Bilim ve Teknolojisi Kongresi, 1-4 Eylül 2014, Tokat; Host: Prof. Dr. Cemil Alkan “**Polimerlerin Opto-Elektronik Özellikleri ve Uygulamaları**”

- 11th Nanoscience and Nanotechnology Conference (NanoTR-11) “**Conjugated Polymers for Light-Attenuating, Light-Emitting and Photovoltaic Devices**” Ankara, Turkey. 22 -25 June, 2015.
- 27. Ulusal Kimya Kongresi “**Benzotriazol İçeren Donör- Akseptör Tipi Konjuge Polimerlerin Opto-elektronik Cihazlarda Kullanımı**”, 23-28 Agustus 2015, Canakkale, Turkey.
- (Invited) Ali Cirpan “**Optoelectronic Properties of Donor–Acceptor Type Conjugated Polymers**” 2 nd International Conference on Organic Electronic Material Technologies (OEMT2016) May 17-19, 2016 Çanakkale, TURKEY.

MS/PhD THESIS

PhD Thesis: Supervisor

1. **(2017-Present), Eda Alemdar, Department of Chemistry** “Fabrication Of An Efficient Organic Solar Cells And Oled Devices Based On Conjugated Materials”
2. **(2018-Present), Aslı Çetin, Department of Polymer Science and Technology** “Investigation Of Polymer Based Boron Rich Propellants For Future Propulsion Systems”
3. **(2020-Present), Duygu Cevher, Department of Polymer Science and Technology** “Interfacial Polymerization of Conjugated Polymers and Variable Applications”
4. **(2020-Present) Meriç Çalışkan, Department of Polymer Science and Technology** “Syntheses and Investigation of Optical And Electrochemical Properties Of Benzotriazole-Based Alternating Copolymers”
5. **(2020-Present) Oğuzhan Karakurt , Department of Chemistry**

PhD Thesis: Co-Supervisor

1. **(2021-Present) Büşra Altınsoy, MNT** “Inverted Pyramid Texturization Of Si By Copper Assisted Chemical Etching”
2. **(2022-Present) Melis Çetmeli, MNT** “Development Of Novel Vehicle Integrated Photovoltaics”
- 3.

MSc Thesis: Supervisor

1. **(2018-Present) Ali Sait Güllü, Department of Chemistry,** “Synthesis And Investigation Of B-N Bridged Donor-Acceptor-Donor Ladder Type Molecules For Organic Bulk Heterojunction Solar Cells”

2. **(2019-Present) Ümmü Gülsüm Şahin, Department of Chemistry** “Construction of Conventional and Inverted Solar Cells with Benzodithiophene Based Conjugated Polymers”
3. **(2021-Present) Selin İlter, Department of Chemistry** “Synthesis of Phenanthroimidazole Based Materials for OLED Application”
4. **(2019-Present) Elif Aydoğan, PST** “Optimization Of Processing Parameters Of Polymer Resin Systems Used In Advanced Composite Materials Production”

MSc Thesis: Co-Supervisor

1. **(2022-Present) Candemir Özün, MNT,** “Effect Of Ultraviolet And Near-Infrared Nanosecond Laser Ablation Of Crystalline Silicon For Solar Cell Applications”

Alumni

PhD.: Supervisor

1. **(2010 - 11 Eylül 2015), Naime Akbaşoğlu, Department: Chemistry,** “Development of P and N Type Conjugated Polymers for Electrochromic and Organic Solar Cell Applications”. 11.09.2015
2. **(2012 - 15.04.2019), Şefika Eroğlu, Department of Polymer Science and Technology** “Properties and Application Of Graphene Oxide In Inverted Bulk Heterojunction Solar Cells”. 15.04.2019
3. **(2013 - 13 Eylül 2019), Şevki Can Cevher, Department of Chemistry,** “Fused Molecules in Organic Bulk Heterojunction Solar Cells”. 13.09.2019.
4. **(2016- 2 Ağustos 2022), Sultan Taskaya, Department of Chemistry** “Synthesis and Characterization Of Benzodithiophene Containing Conjugated Polymers For Organic Bulk Heterojunction Solar Cells”

MSc: Supervisor

1. **(2010 - 12 Eylül 2011), Emine Kaya, Department of Chemistry** “Solution Processable Benzotriazole And Fluorene Containing Copolymers For Photovoltaic Applications”
2. **(2010 - 12 Eylül 2011), Melike Karakuş, Department of Chemistry** “Electrochemical And Optical Properties Of Solution Processable Benzotriazole And Benzothiadiazole Containing Copolymers” 12.09.2011
3. **(2010 - 14 Eylül 2012), Tugba Kaya, Department of Polymer Science and Technology** “Solution Processable Benzotriazole, Benzimidazole And Biphenyl Containing Copolymers For Multipurpose Applications” 14.09.2012
4. **(2011 - 4 Eylül 2013), Şevki Can Cevher, Department of Chemistry** “Synthesis, Characterizations And Photovoltaic Applications Of Dithienothiophene And Benzotriazole Containing Conjugated Polymers”. 04.09.2013

5. (2012 - 5 Eylül 2014) **Hande Ünay, Department of Polymer Science and Technology**, "Syntheses and Investigation of Electrochemical Properties of Selenophene and Benzotriazole Bearing Copolymers". 05.09.2014
6. (2013 - 27 Ekim 2014), **Ozan Erlik, Department of Chemistry**, "Synthesis and Optoelectronic Applications of Benzotriazole and Dibenzosilole Based Alternating Copolymers". 27.10.2014
7. (2013 - 11 Eylül 2015) **Cansel Temiz, Department of Polymer Science and Technology**, "Benzotriazole and Quinoxaline Containing Random Copolymers for Bulk-Heterojunction Polymer Solar Cell Applications". 11.09.2015
8. (2012 - 11 Eylül 2015) **Güler Koçak, Department of Chemistry**, "Polymer White Light Emitting Diodes Applications of Benzotriazole and Fluorene Derivatives". 11.09.2015
9. (2015- 5 Mayıs 2016) **Duygu Güven, Department of Polymer Science and Technology**, "Copolymers Comprising Benzodithiophene and Benzotriazole Derivatives for Organic Solar Cells" 05.05.2016
- 10.(2013–16 Haziran 2016) **İpek Önk, Department of Polymer Science and Technology**, "Syntheses Of Benzotriazole Based Conjugated Polymers For Organic Light Emitting Diode And Organic Solar Cell" 16.06.2016
- 11.(2013-24 Ağustos 2016) **Emre Ataoğlu, Department of Polymer Science and Technology**, "Syntheses and Optoelectronic Applications Of Thiadiazolo Quinoxaline Bearing Alternating Conjugated Copolymers". 24.08.2016
12. (2013 - 24 Ağustos 2016) **Nima Sohrabnia, Department of Polymer Science and Technology**, "Synthesis and Characterization Of Phenanthro Imidazole Based Conjugated Copolymer For Optoelectronic Applications". 24.08.2016
- 13.(2014 – 2 Haziran 2017) **Özge Azeri, Department of Chemistry**, "Syntheses of Benzodithiophene and Thienopyrroledione Containing Conjugated Random Polymers As Components For Organic Solar Cells". 26.05.2017
- 14.(2016- 2017) **Duygu Keles, Department of Polymer Science and Technology**, "Syntheses and Investigation of Optoelectronic Properties of Thiophene Based Conjugated Polymers". 14.08.2017
- 15.(2016- 7 Ağustos 2018) **Özge Karagacti, Department of Chemistry**, "New Quinoxaline Containing Donor-Acceptor Type Conjugated Polymers For Organic Solar Cells". 07.08.2018
- 16.(2016- 7 Ağustos 2018) **Aslı Cetin, Department of Chemistry**, "Synthesis Of Bistriphenylamine And Benzodithiophene Based Random Conjugated Polymers For Organic Photovoltaic Applications". 07.08.2018
- 17.(2013- 18 Haziran 2019) **Hakan Ünay, Department of Polymer Science and Technology**, "Investigation of Optoelectronic Properties of Benzotriazole and Thiazole Bearing Conjugated Polymers". 18.06.2019
18. (2016- 18 Haziran 2019) **Kardelen Göksu, Department of Chemistry**, "Syntheses And Investigation Of Optical And Electrochemical Properties Of Diketopyrrolopyrrole (Dpp)-Based Small Molecules" 18.06.2019.
- 19.(2017 - 5 Eylül 2019) **Mert Can Erer, Department of Chemistry**, "Synthesis And Photovoltaic Properties Of Benzodithiophene Bearing Donor Acceptor Type Conjugated Polymer".

- 20.(2017-24.12.2019) Meriç Çalışkan, Department of Chemistry, “New Quinoxaline And Selenophene Based Benzodithiophene Bearing Conjugated Polymers For Photovoltaic Applications”.**
- 21.(2017-24.12.2019) Gülten Özkul, Department of Chemistry, “Selenophene Bearing Benzodithiophene Based Alternating Polymers For Organic Solar Cell Applications”.**
- 22.(2018-22 Ocak 2021) Oğuzhan Karakurt, Department of Chemistry, “Synthesis, characterization and photovoltaic properties of benzo[c][1,2,5]oxadiazole based conjugated polymer for organic solar cells”.**
- 23.(2017-15 Şubat 2021) Merve Yıldırım, Department of Chemistry, Optical And Electrochemical Properties Of Benzotriazole And Benzodithiophene Containing Alternating Copolymers**
- 24.(2018-12 Temmuz 2021) Berrin Ayyıldız, Department of Chemistry, “Synthesis and investigation of optical and electrochemical properties of organoboron based donor-acceptor type conjugated polymers”**
- 25.(2018-12 Temmuz 2021) Yeşim Abacıoğlu, Department of Chemistry, “Investigation of the effect of heteroatom and integration of boron on benzodithiophene and pyrazine containing conjugated polymers for photovoltaic applications”**
- 26.(2019-28 Ocak 2022) Dilan Ece Dikbiyık, Department of Chemistry “Effect of Π -Bridges on Electrochemical and Photovoltaic Properties of Benzothiadiazole and Benzodithiophene Based Conjugated Polymers”.**
- 27. (2019- 31 Ağustos 2022) Selin Gülmez, Department of Chemistry “Syntheses of Conjugated Polymers And Investigation The Effect Of Gold Nanoparticle - Thiol Interaction For Organic Solar Cell Application”**

PhD Thesis: Co-Supervisor

- 1. (2012-16 Ocak 2017), Recep Yüksel, MNT, “Development Of Supercapacitors With One Dimensional Nanomaterials” Department: MNT, 16.01.2017**
- 2. (2017-2021) PARISA SHARIF, Department of Micro and Nanotechnology “Transparent Graphene Anodes for Organic Light Emitting Diodes”.**
- 3. (2019-Present) Nalan Gülçin Kaykaç, PST “Investigation Of Process Parameters On Properties Of Epoxy Based Cataphoretic Coatings”**
- 4.**

MSc Thesis: Co-Supervisor

- 1. (2011-2012), Ali Can Özelçağlayan, CHEM, “Synthesis Of An Electroactive Benzimidazole Derivative And Its Electrochromic Properties” Department: Chemistry. 16.11.2012**
- 5. (2011-2013), Bengisu Çorakçı, CHEM, “Ferrocenyl And Naphthyl Substituted Quinoxaline Derivative Monomers As Long Wavelength Photosensitizers For**

- Diaryliodonium Salt Initiators In Photopolymerization” Department: Chemistry
22.01.2013
6. **(2011-2013), Ayda Göyçek Nuriöđlu, CHEM**, “Synthesis Of New Benzoimidazole Containing Polymers And Their Electrochromic Properties” Department: Chemistry 25.01.2013
 7. **(2011-05.07.2013), Eda Rende, CHEM**, “The Combination Of Benzotriazole And N-Functionalized 2,5-Di(2-Thienyl)-1h-Pyrrole Units To Investigate The Electrochromic Properties Of Conjugated Polymers ” Department: Chemistry. 05.07.2013
 8. **(2011-2013), Nazlı Buket Zaifođlu, CHEM** “Syntheses of new monomeric and polymeric units and electrochemical behaviors for the use in electrochromic applications” Department: Chemistry. 22.07.2013
 9. **(2013-2015) Merve İleri, CHEM**, “Syntheses, characterization and optical properties of fluorine containing benzimidazole derivatives” Department: Chemistry 09.01.2015

Refereeing Journals:

Journal of Materials Chemistry A
Journal of Materials Chemistry C
Electrochimica Acta
Synthetic Metals
Designed Monomers and Polymers
eXPRESS Polymer Letters
Chemical Communications
Advances in Materials Science and Engineering
Turkish Journal of Chemistry
Adv. Mater
Organic Electronics
Adv. Funct. Mater.
Surface and Interface Analysis
Current Physical Chemistry
Journal of Applied Polymer Science
Materials Chemistry and Physics
Energy & Environmental Science
Polymer International